Service
Service
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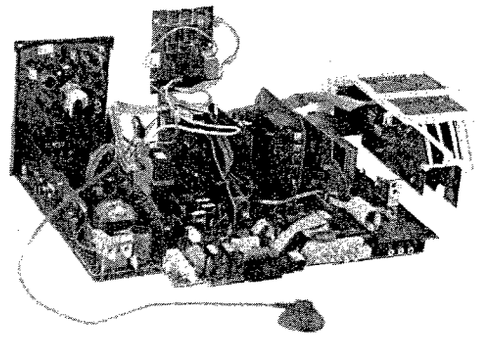

Service Manual

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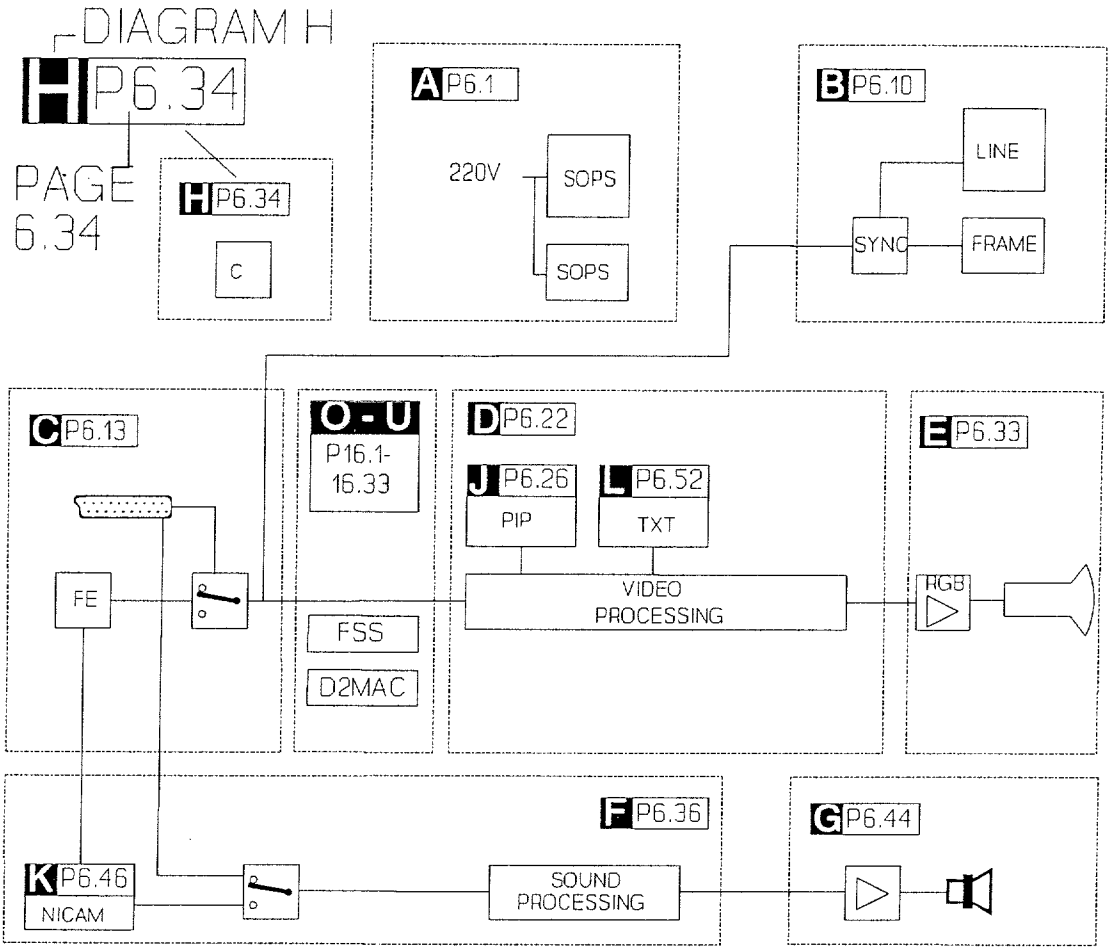
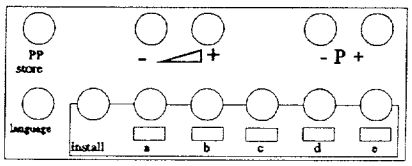
Blockdiagram



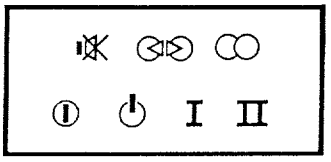
Technical data

Mains voltage:	: 220 - 240 V (±10%)
	: 50 - 60 Hz (± 5%)
Aerial input impedance:	: 75Ω - coax
Minimum aerial voltage:	: 30μV (VHF)/40μV (UHF)
Maximum aerial voltage VHF/S/UHF:	: 180μV
Pull-in range colour synchronization:	: +300Hz/-300Hz
Pull-in range horizontal synchronization:	: +200Hz/-300Hz
Programmes	: 0-59
VCR programmes	: 0, 00, 50-59

Local operation functions:



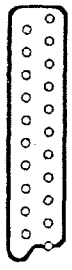
Indications:
- On Screen Display (OSD)
- LED:



Connection facilities

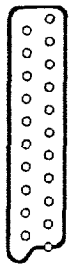
1. Specification of the connectors

EXT1 (AUX)



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

EXT2 (VCR)



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

Audio out

CINCH Audio ⊖ L (0,5V RMS; ≤ 1kΩ)
CINCH Audio ⊖ R (0,5V RMS; ≤ 1kΩ)

front : 2 x 12W / 8Ω
rear : 2 x 3W / 8Ω

EXT2' (SVHS)

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

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

EXT3 (front)

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

3.5mm
32-2000Ω ≥ 10mW

EXT3' (SVHS)

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

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

The connection facilities of the SAT box are illustrated in chapter 12.

1. S re co ar th
2. In al or m di pr ur
3. E A se C: sh ar th cc
4. W m
5. Be vc
6. N th
7. It w
8. W m Th of
9. Af m
10. In sh m **Th to vc**
11. Or su yo de rer co
12. To un int un of rec

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

1. The direct voltages and oscillograms should be measured with regard to the tuner earth (⊥), or ho earth (⊥ϟ) as this is called.

2. The direct voltages and oscillograms shown in the diagrams should be measured in the **Service Default Mode (see chapter 8)** with a colour bar signal and stereo sound (L: 3 kHz, R: 1 kHz unless stated otherwise) and picture carrier at 475.25 MHz.

3. Where necessary, the oscillograms and direct voltages are measured with (⊤) and without aerial signal (⊼) Voltages in the power supply section are measured both for normal operation (Φ) 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

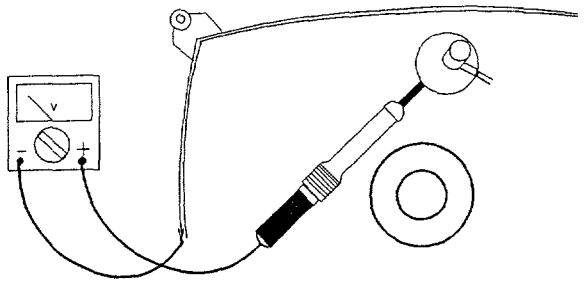


Fig 3.1

Mechanical instructions

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.

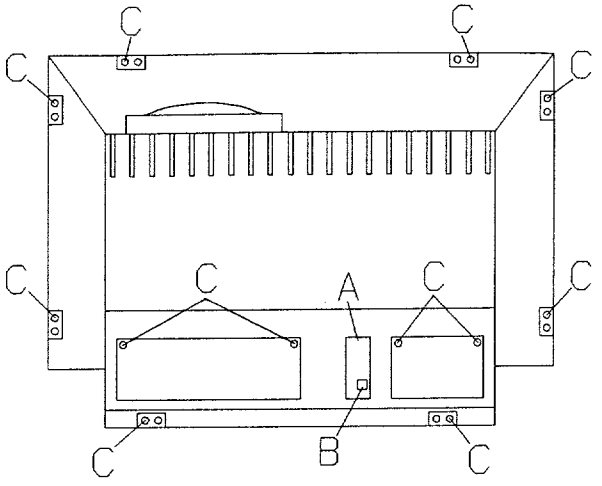


Fig 4.1

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

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

3. Service position for repair (Fig. 4.3)

Remove the LED display E (see Fig. 4.2) 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.

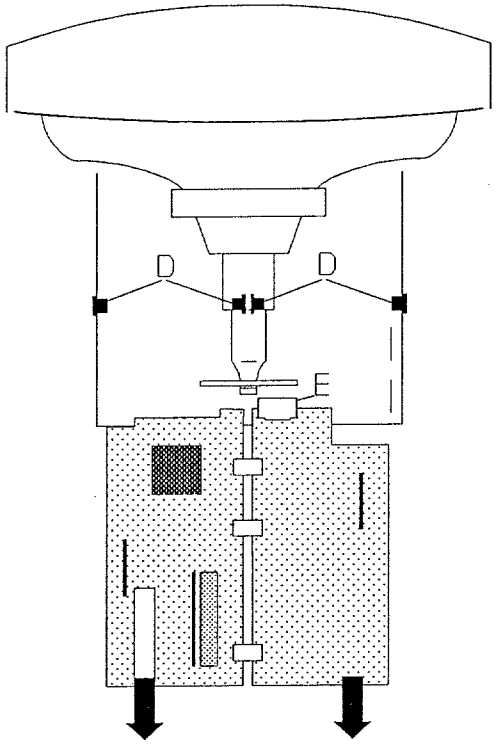


Fig 4.2

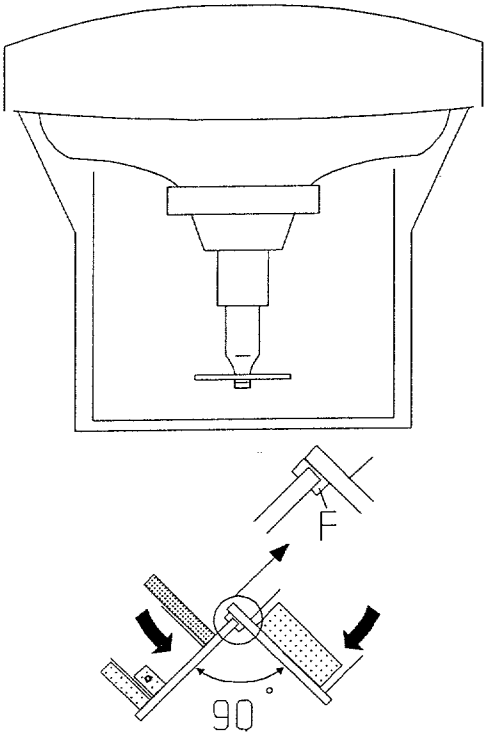


Fig 4.3

Blockdiagram Blockschaltbild

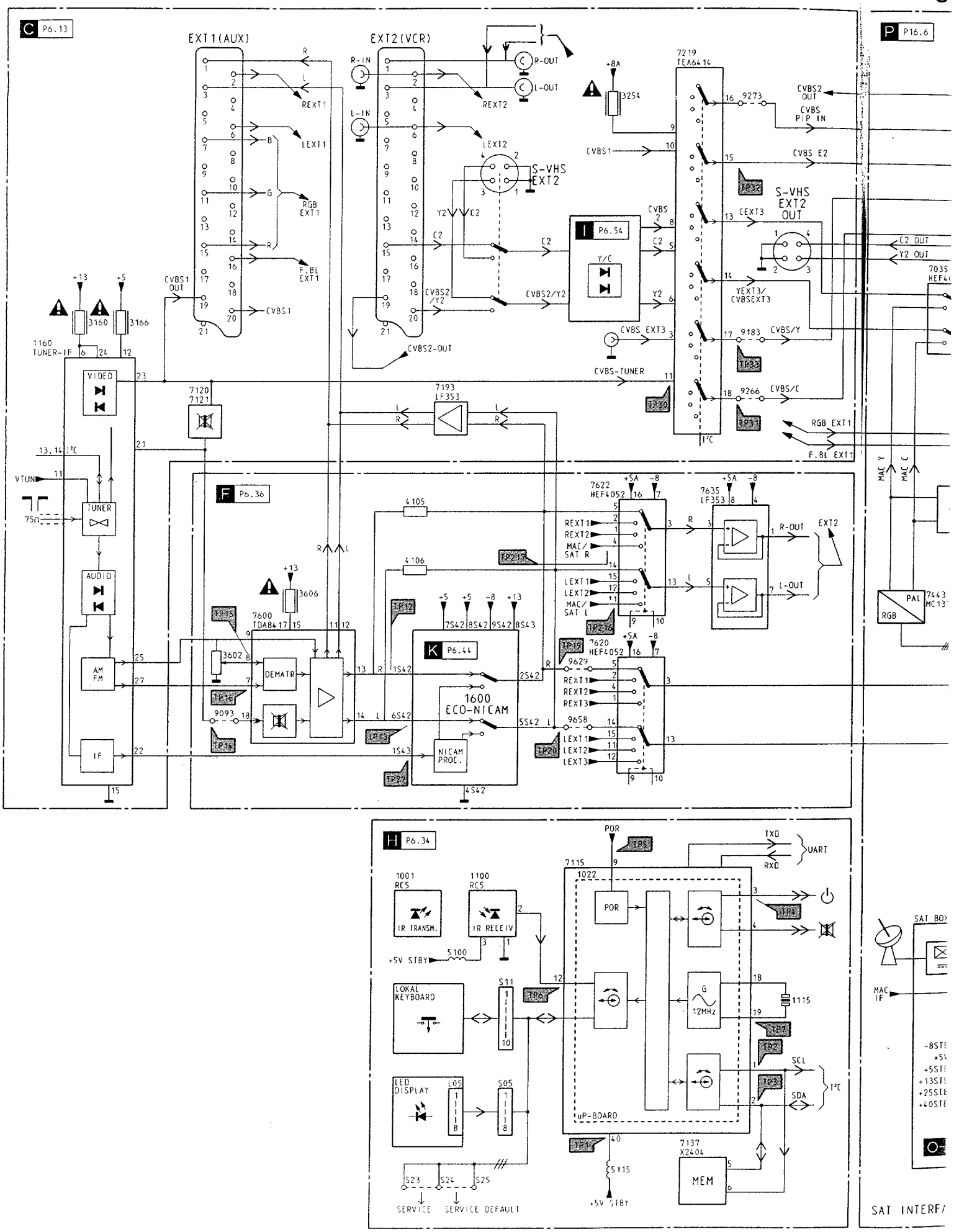
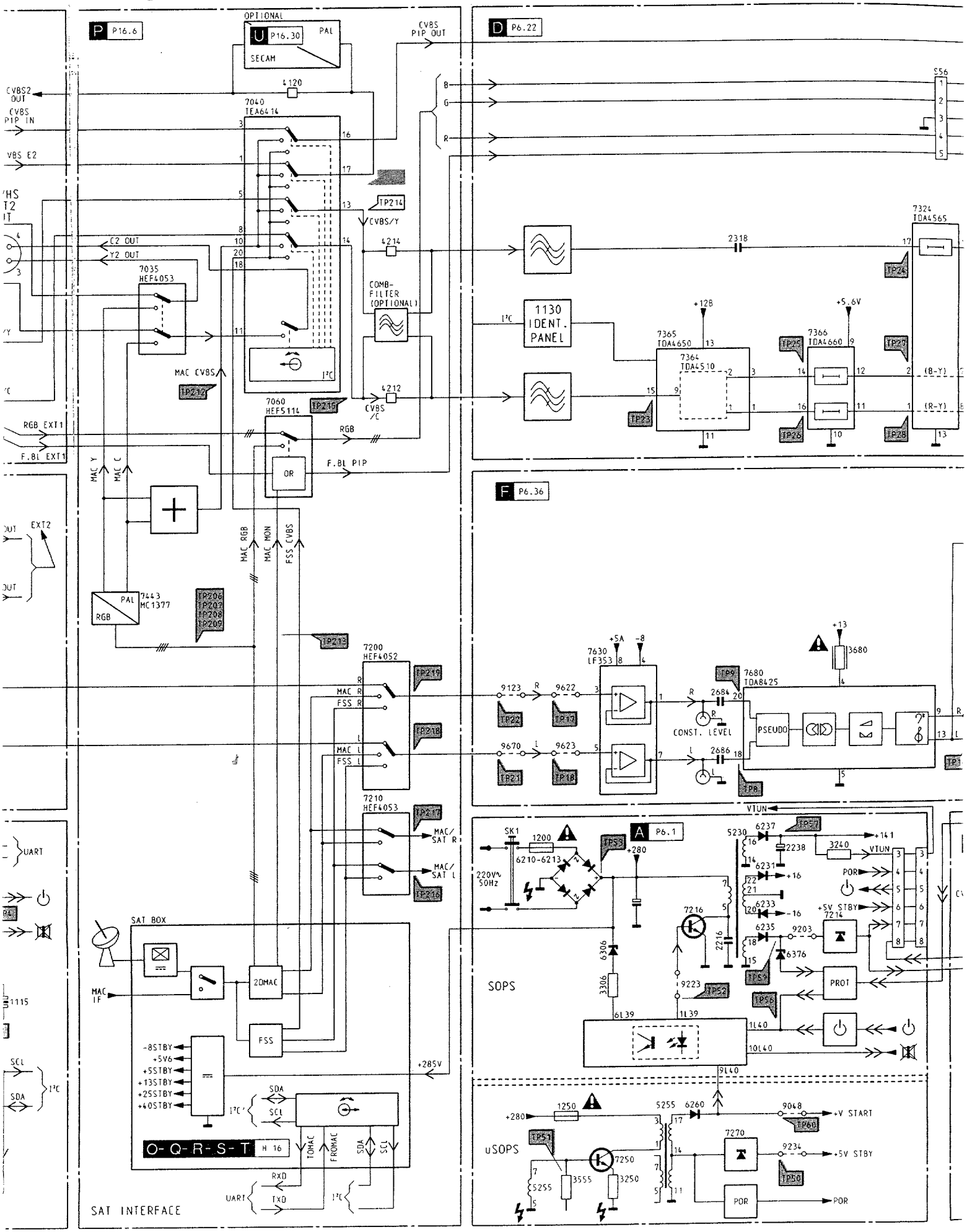
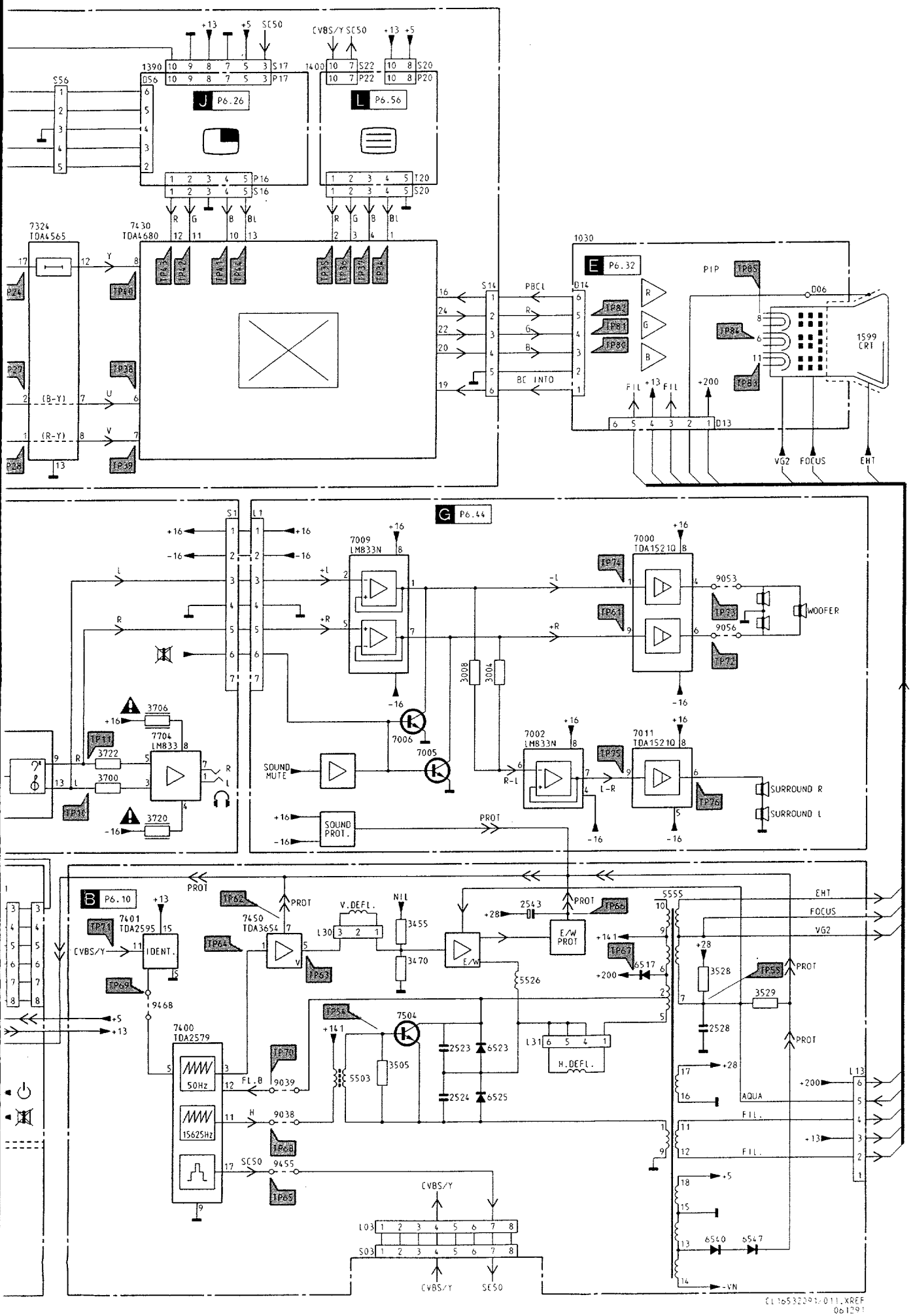
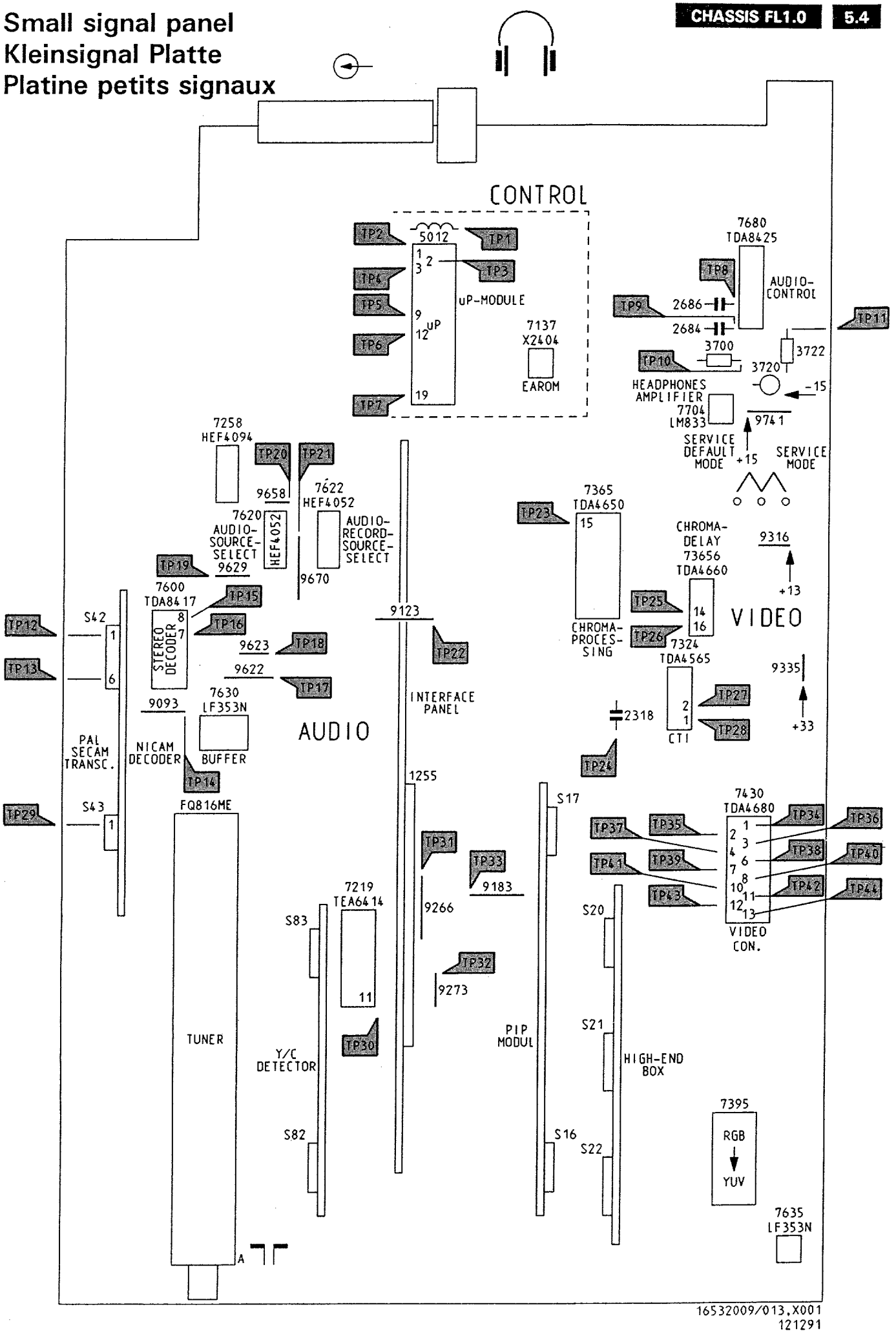


Diagramme schématique



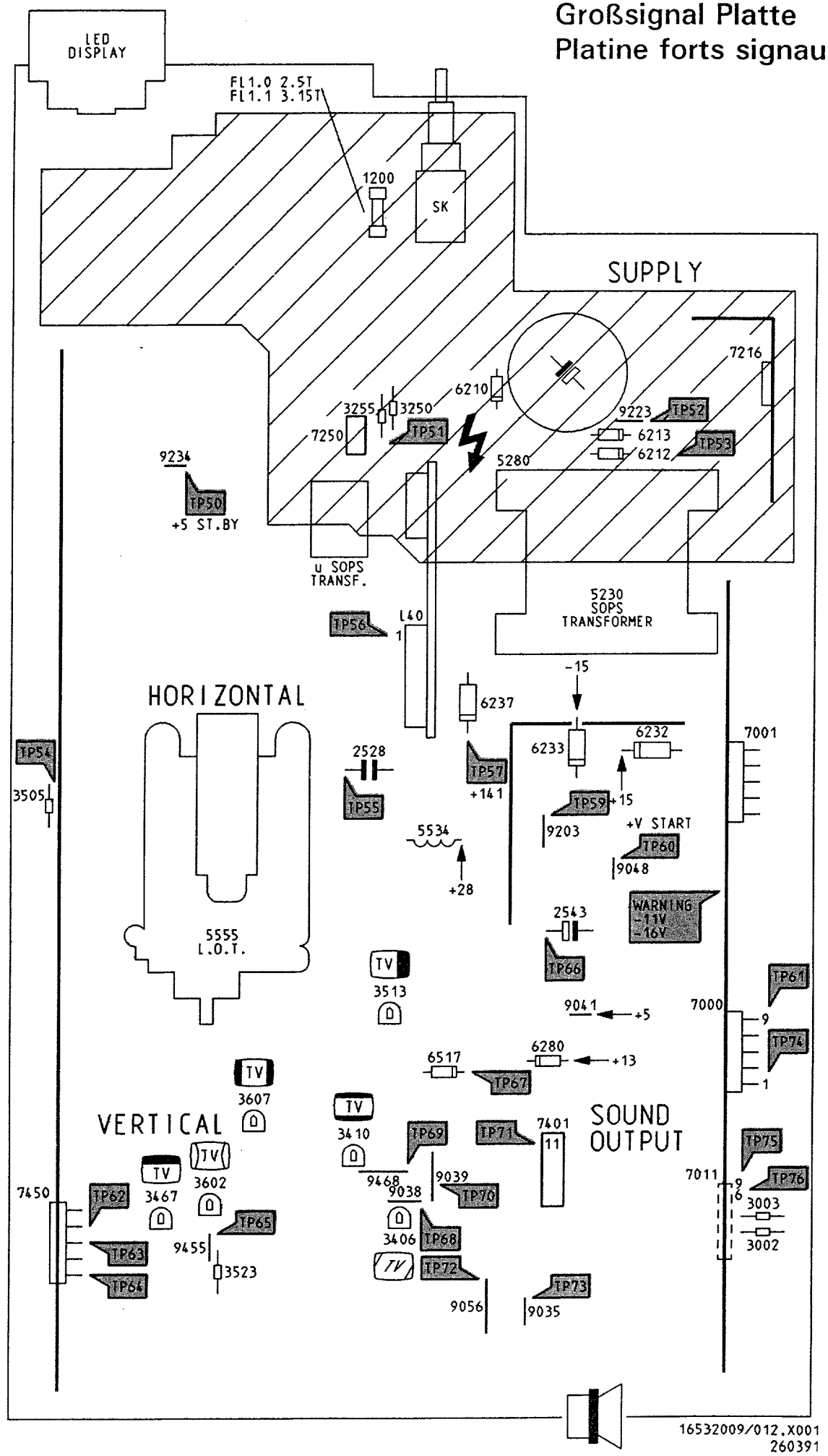

J P6.26
L P6.56
E P6.32
G P6.44
B P6.10
7324 TDA4565
7430 TDA4680
1030
1599 CRT
PIP
VG2
FOCUS
EHT
7009 LM833N
7000 TDA1521Q
7002 LM833N
7011 TDA1521Q
7704 LM833
7006
7005
WOOFER
SURROUND R
SURROUND L
SOUND MUTE
SOUND PROT.
PROT
7401 TDA2595
IDENT.
7450 TDA3654
V.DEFL.
E/W
E/W PROT
7400 TDA2579
50Hz
15625Hz
H.DEFL.
7504
AQUA
FIL.
CVBS/Y
SC50

Small signal panel
Kleinsignal Platte
Platine petits signaux



16532009/013.X001
121291

Large signal panel
Großsignal Platte
Platine forts signaux



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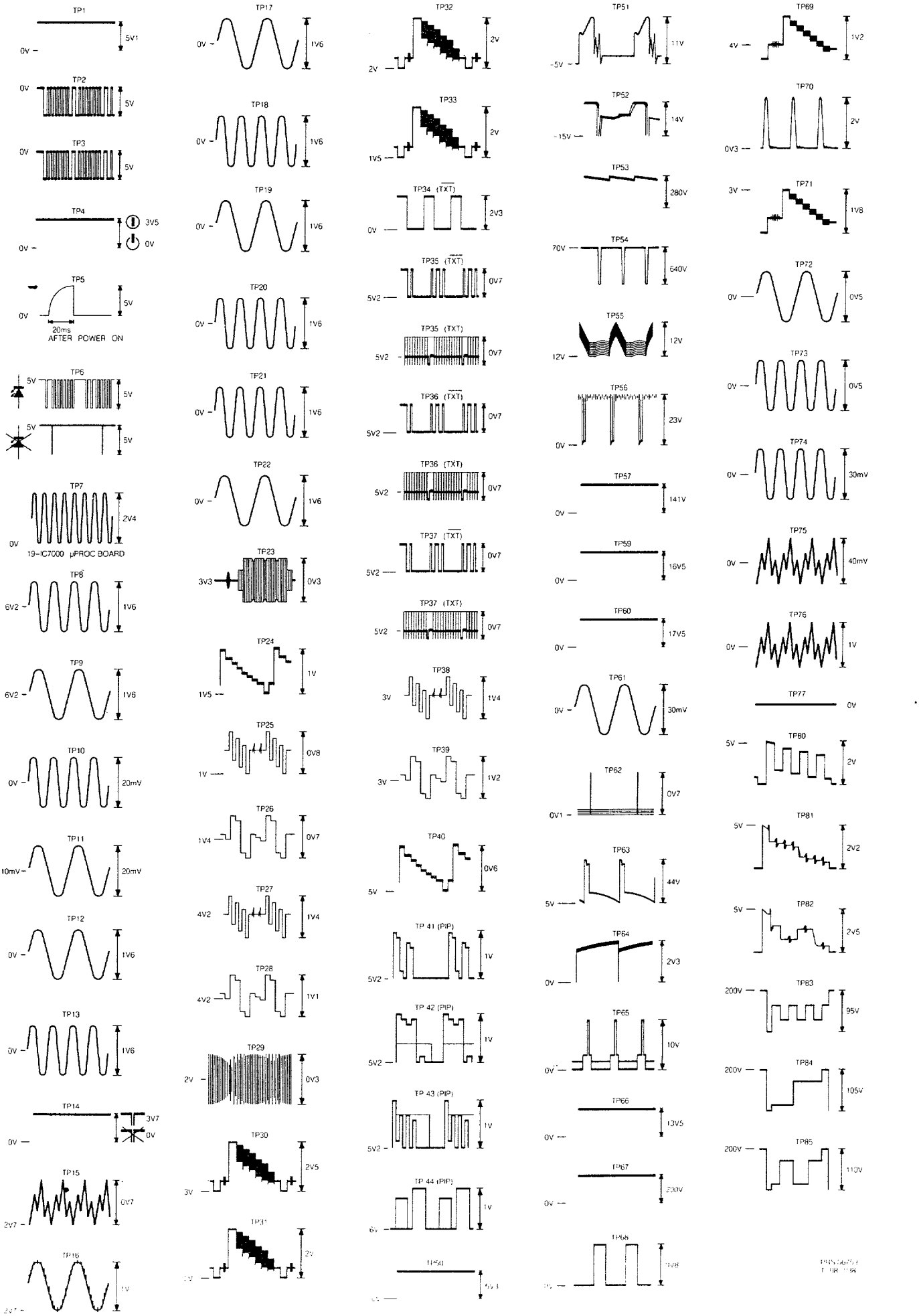
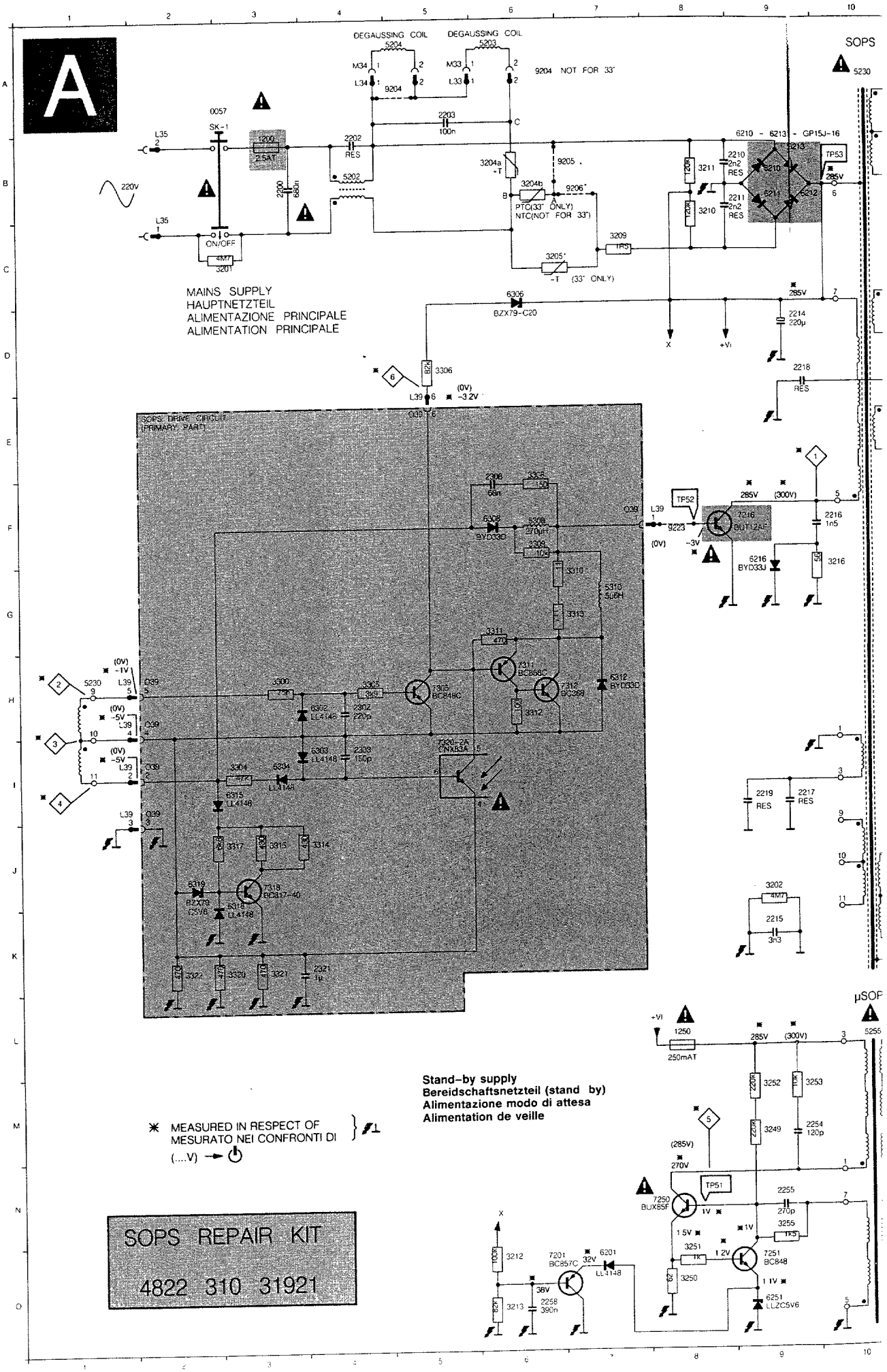
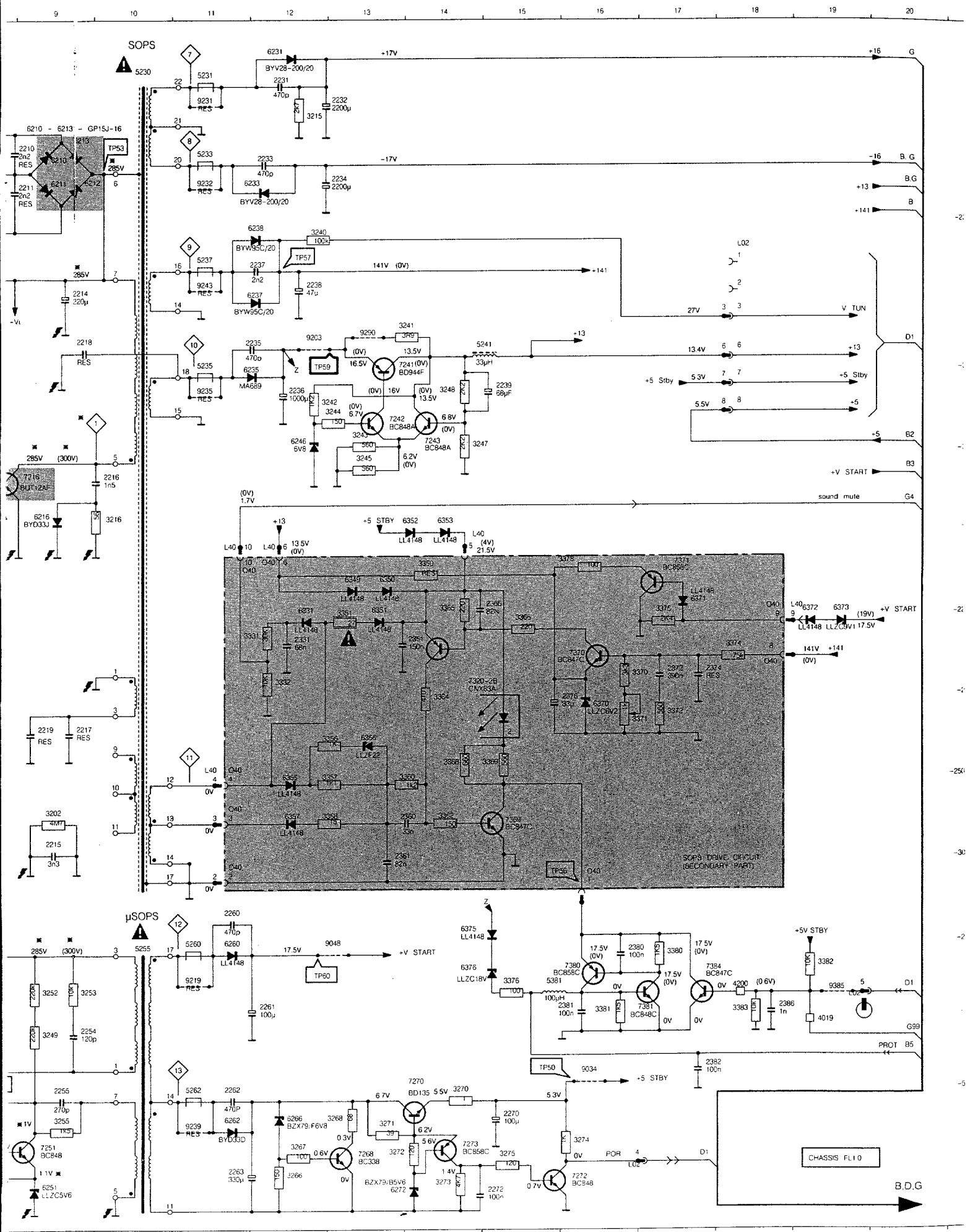
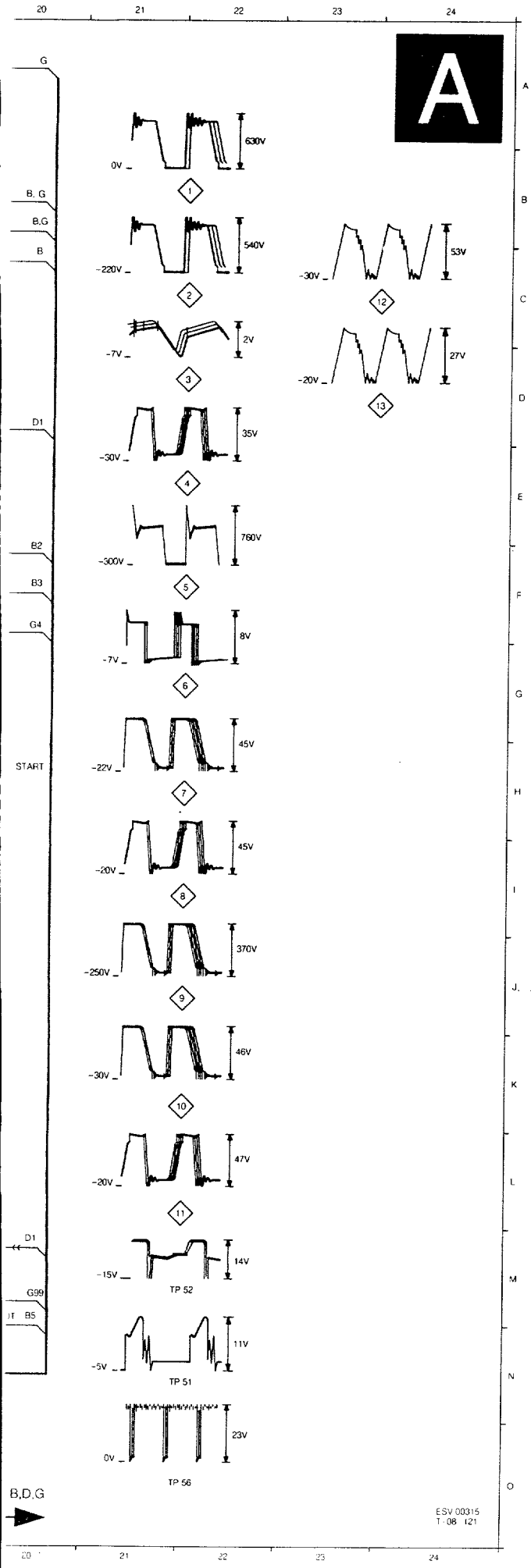
Oscillograms




A
DEGAUSSING COIL
DEGAUSSING COIL
9204 NOT FOR 33"
SOPS
MAINS SUPPLY
HAUPTNETZTEIL
ALIMENTAZIONE PRINCIPALE
ALIMENTATION PRINCIPALE
SOPS DRIVE CIRCUIT (PRIMARY PART)
Stand-by supply
Bereidschaftsnetzteil (stand by)
Alimentazione modo di attesa
Alimentation de veille
µSOP
MEASURED IN RESPECT OF
MESURATO NEI CONFRONTI DI
(....V)
SOPS REPAIR KIT
4822 310 31921

Alimentation





1	F7	3270	N14	+5	S1 E19
1	K16	3271	N13	+5	ST G13
2	F2	3272	O14	+5	ST N16
2	K11	3273	O14	+V	ST F19
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-	F5
6	E5	3306	D5	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		
B3	F20	3322	K2		
B5	M20	3331	H12		
D1	D20	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		
+Vt	D8	3364	I14		
+Vt	L8	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	L17		
L39	H1	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	G7		
O40	J11	5381	M15		
O40	J11	6201	O7		
O40	K11	6210	B9		
O40	K16	6211	B9		
POR	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	O9		
2211	B9	6260	L11		
2214	D9	6262	N11		
2215	K9	6266	N12		
2216	F10	6272	O14		
2217	I9	6302	H4		
2218	D9	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	M9	6351	H13		
2255	N9	6352	G14		
2258	C6	6353	G14		
2260	L11	6355	J12		
2261	M12	6356	I13		
2262	N11	6357	J12		
2263	O11	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	O6		
2331	H12	7216	F9		
2351	H14	7241	E13		
2360	J14	7242	E13		
2361	K13	7243	F14		
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2374	I17	7268	O13		
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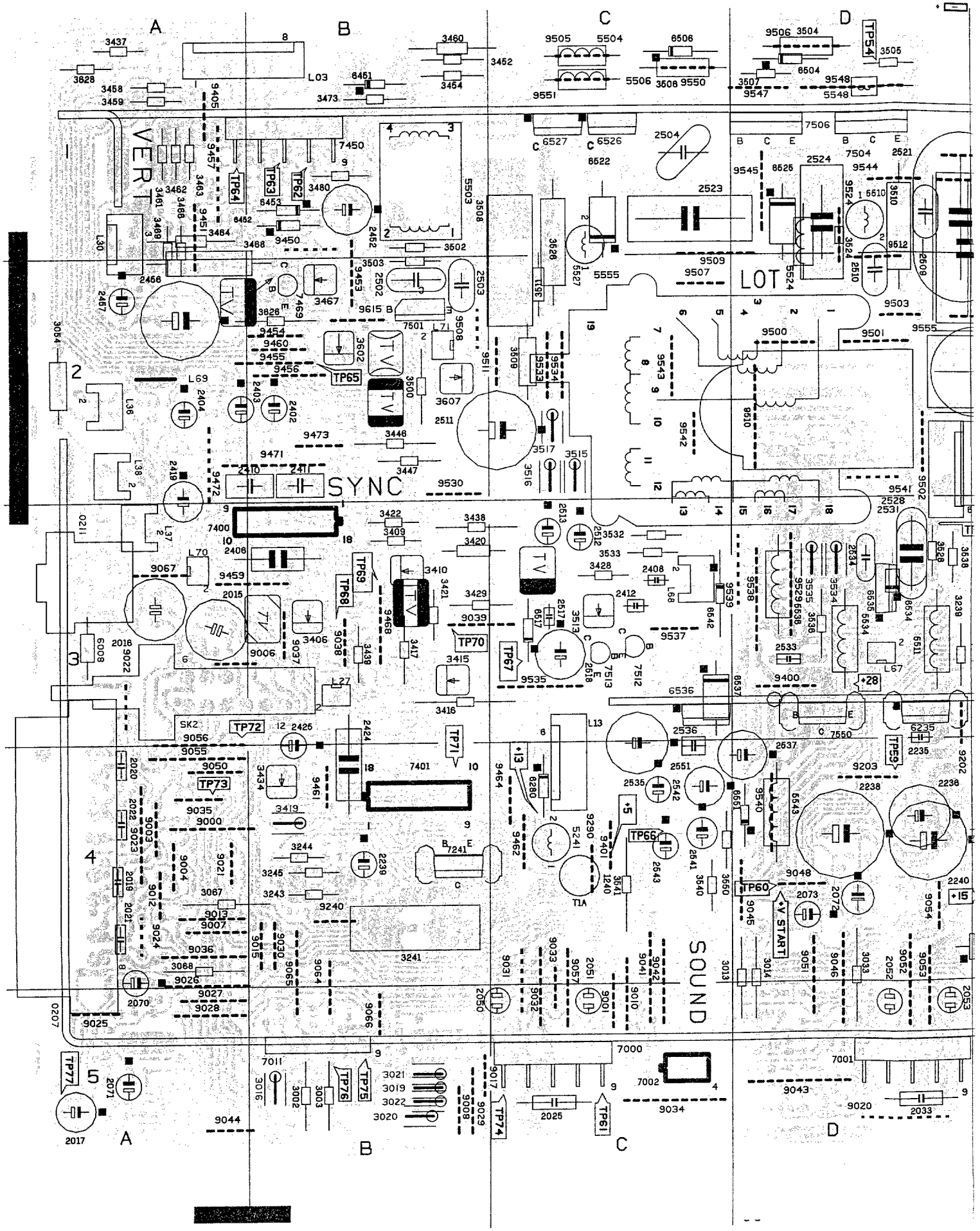
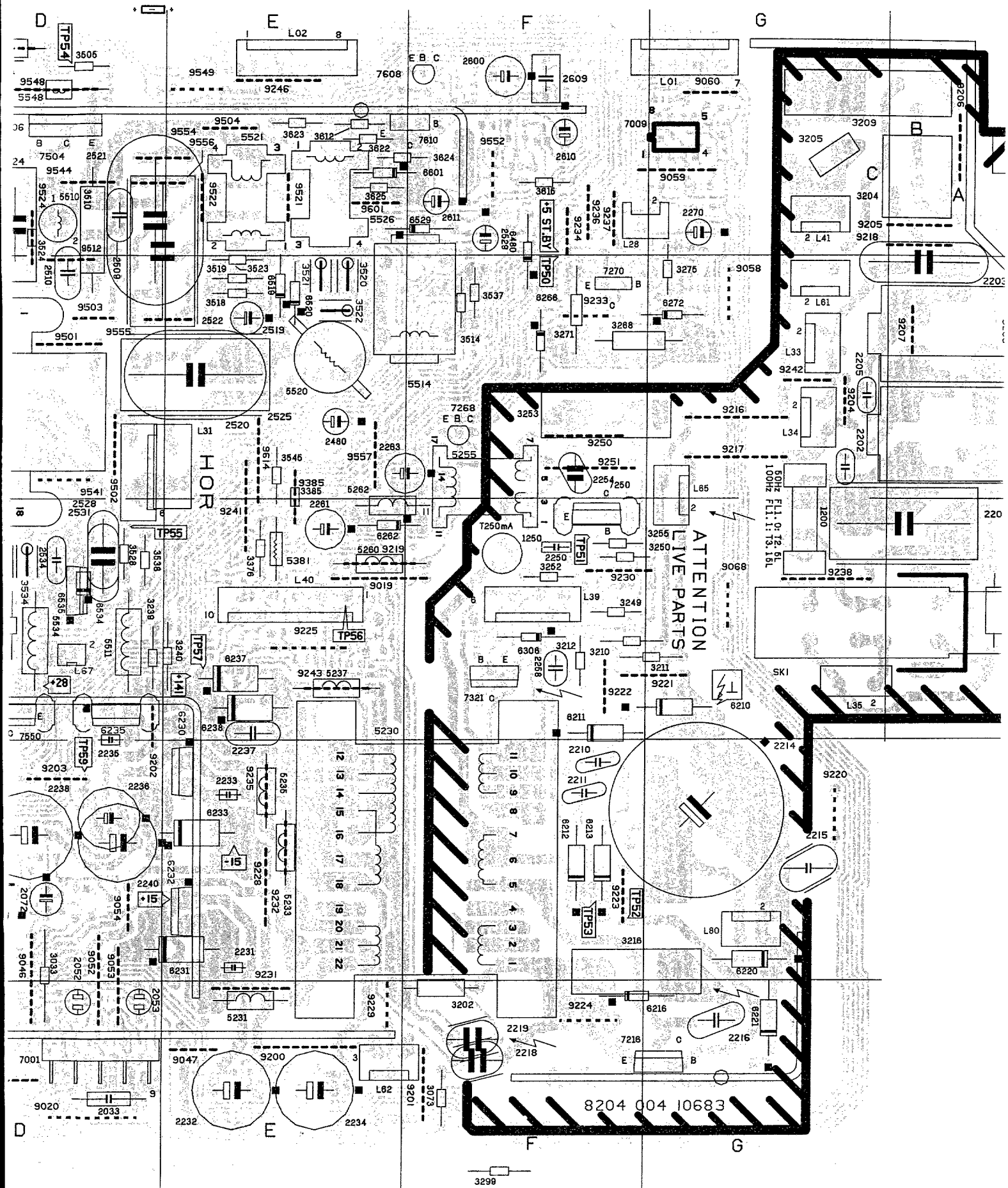
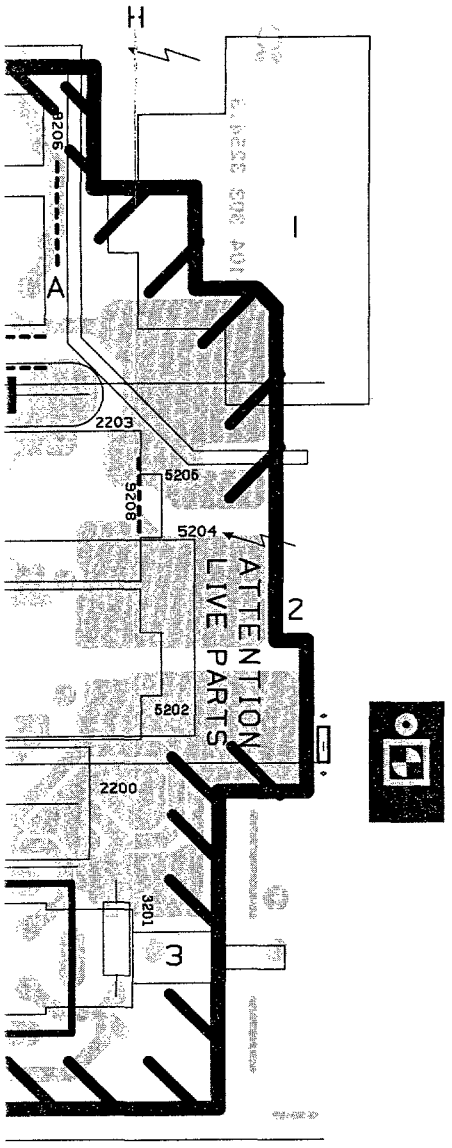
2381	M16	7273	O14		
2382	N17	7305	H5		
2386	M18	7311	H6		
3201	C3	7312	H6		
3202	J9	7318	J3		
3205	C6	7320	I14		
3209	C7	7369	J15		
3210	C8	7370	H16		
3211	B8	7371	G17		
3212	O6	7380	L16		
3213	O6	7381	M17		
3215	A12	7384	L17		
3216	G10	9034	N16		
3240	C12	9048	L13		
3241	D14	9203	D12		
3242	E12	9204	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	9290	D13		
3255	N9	9385	M19		
3262	O12	PROT	M20		
3267	O12	SK 1	A3		
3268	N13	+5	S1 E17		

Large signal panel Groß-signal Platine



Platine forts signeaux





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040 H4	2512 C3	3458 A1	6235 D3	9054 D4	9547 D1
L01 F1	2513 C3	3459 A1	6237 E3	9055 A4	9548 D1
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L03 A1	2518 C3	3461 A1	6262 E3	9057 C5	9550 C1
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L33 G2	2524 D1	3468 A2	6312 H5	9066 B5	9557 E2
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2019 A4	3022 B5	3524 D1	7009 G1	9232 E4	
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2239 B4	3313 H5	5255 F3	9017 B5	9468 B3	
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2412 C3	3419 B4	5548 D1	9038 B3	9529 D3	
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2457 A2	3434 B4	6213 F4	9045 D4	9538 D3	
2480 E2	3437 A1	6216 F5	9046 D4	9539 D3	
2502 B2	3438 B3	6220 G4	9047 E5	9540 D4	
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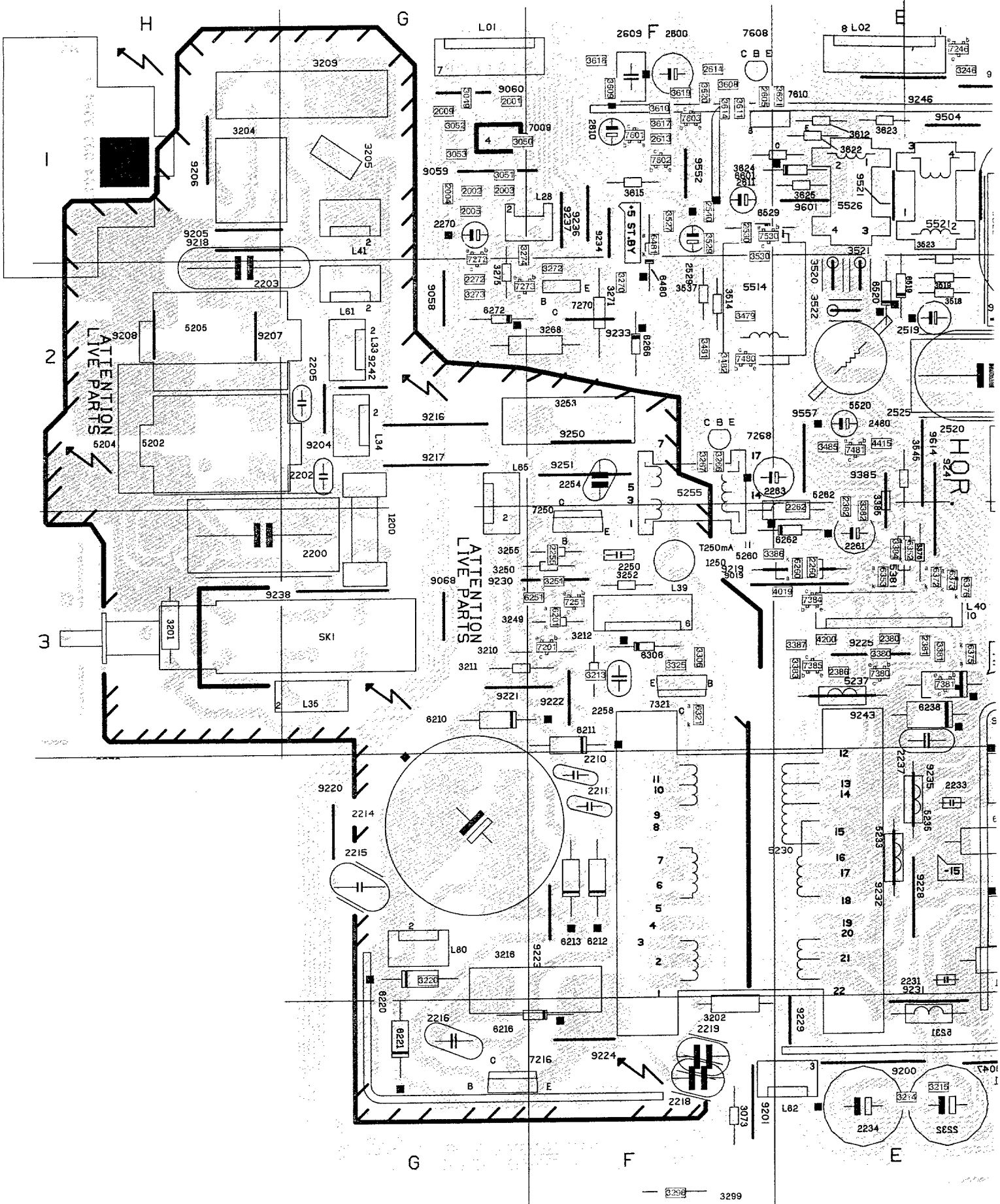
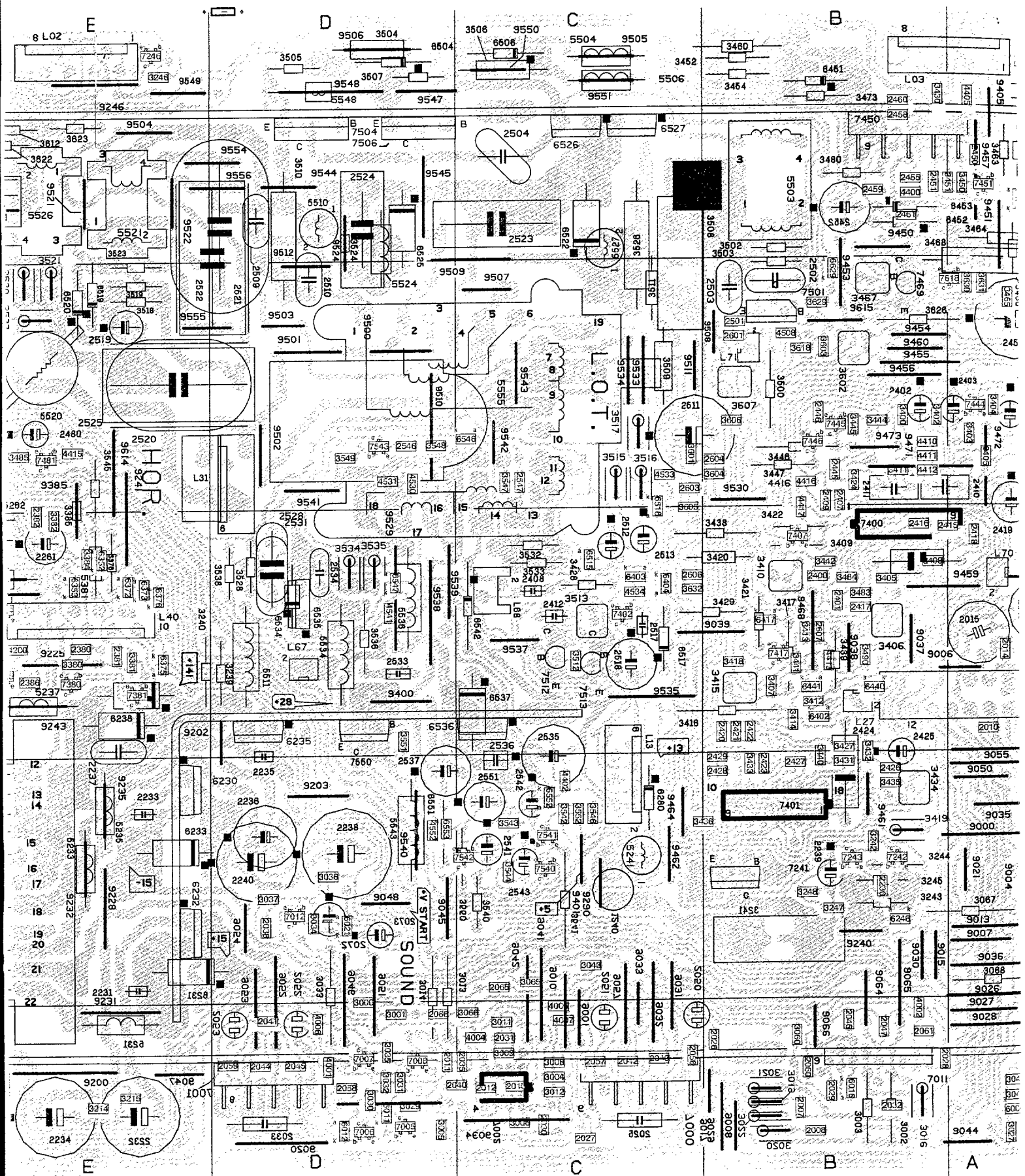
Large signal panel Groß-





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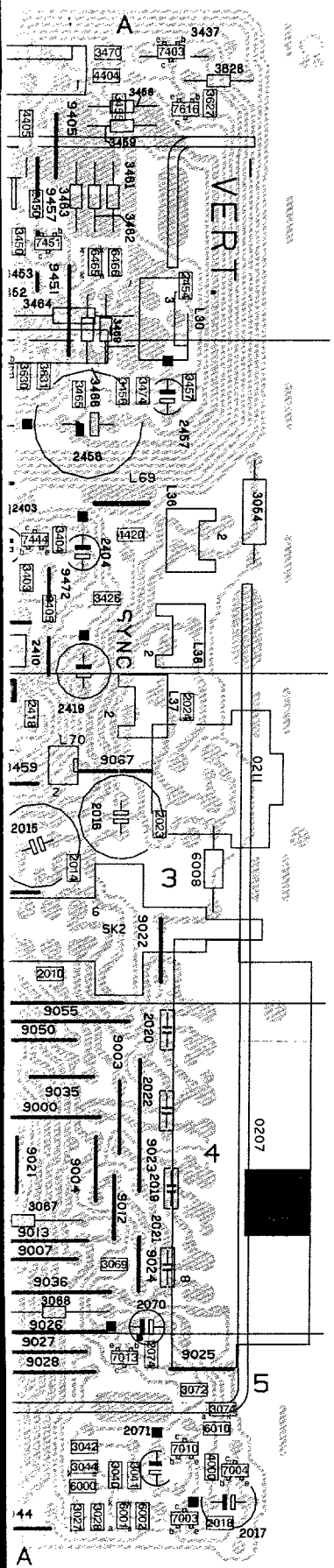

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039 H5	2219 F5	2533 D3	3266 F2	3451 A1	3626 B2	6308 H5	7407 B3	9224 F5
040 H4	2230 B4	2534 D3	3267 F2	3452 B1	3627 A1	6312 H5	7417 B3	9225 E3
L01 F1	2231 E4	2535 C4	3268 F2	3454 B1	3628 A1	6315 H5	7444 A2	9228 E4
L02 E1	2232 E5	2536 C4	3270 F2	3455 A1	3629 B2	6318 H5	7445 B2	9229 E5
L03 A1	2233 E4	2537 D4	3271 F2	3456 A2	3630 A2	6319 H5	7446 B2	9230 F3
L13 C4	2234 E5	2540 F1	3272 F2	3457 A2	3631 A2	6321 F3	7450 A1	9231 E5
L27 B3	2235 D3	2541 C4	3273 G2	3458 A1	3632 C3	6331 H4	7451 A1	9232 E4
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L33 G2	2239 B4	2547 C2	3299 F5	3462 A1	4004 C5	6352 E3	7501 B2	9236 F1
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2005 G1	2386 E3	3016 B5	3364 H4	3509 C2	5204 H2	6516 C2	9013 A4	9462 C4
2007 B5	2400 B3	3019 B5	3365 H4	3510 D1	5205 H2	6517 C3	9015 B4	9464 C4
2008 B5	2401 B3	3020 B5	3366 H4	3511 C2	5230 F4	6519 E2	9017 B5	9468 B3
2009 G1	2402 B2	3021 B5	3368 H4	3512 C3	5231 E5	6520 E2	9019 E3	9471 B2
2010 A3	2403 A2	3022 B5	3369 H4	3513 C3	5233 E4	6522 C1	9020 D5	9472 A2
2011 D5	2404 A2	3027 A5	3370 H4	3514 F2	5235 E4	6525 D1	9021 A4	9473 B2
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2013 C5	2406 B3	3029 D5	3372 H4	3516 C2	5241 C4	6527 C1	9023 A4	9501 D2
2014 A3	2407 B2	3030 D5	3374 H4	3517 C2	5255 F3	6529 F1	9024 A4	9502 D2
2015 A3	2408 C3	3031 D5	3375 H4	3518 E2	5260 E3	6534 D3	9025 A5	9503 D2
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2211 F4	2525 E2	3250 F3	3444 B2	3621 E1	6280 C4	7385 E3	9219 E3	
2214 G4	2528 D3	3251 F3	3445 B2	3622 E1	6302 H5	7400 B3	9220 G4	
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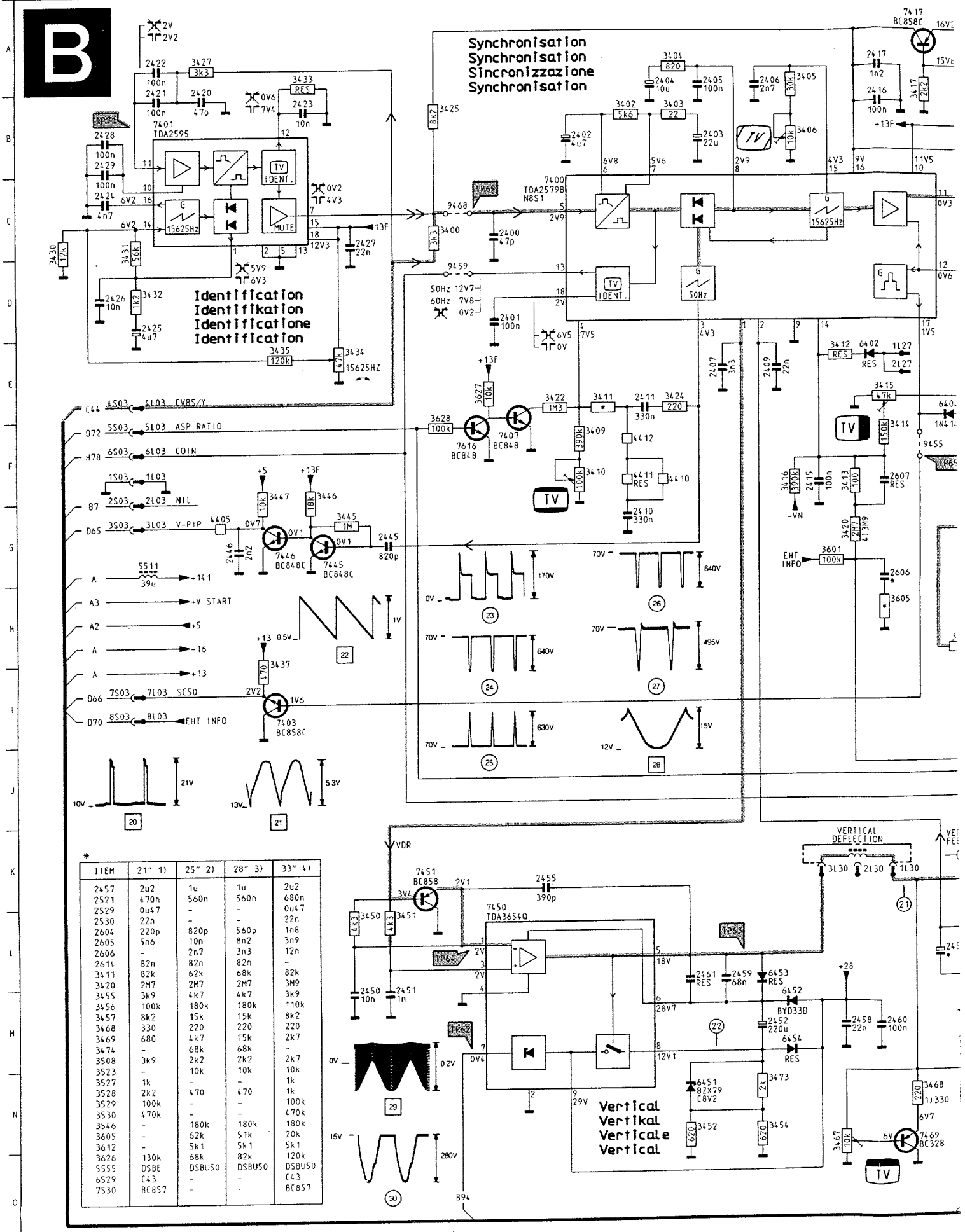
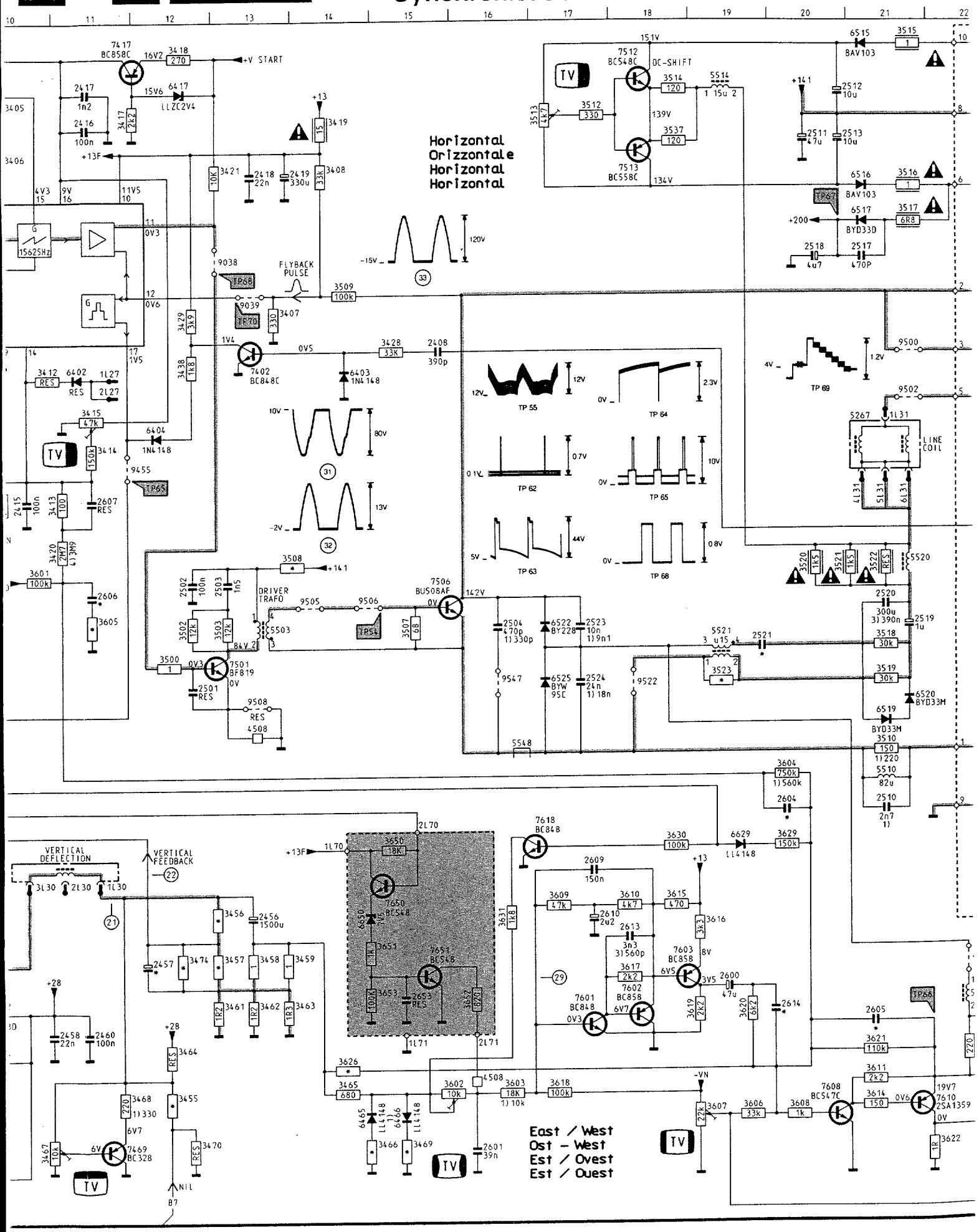
Synchronization Synchronisierung

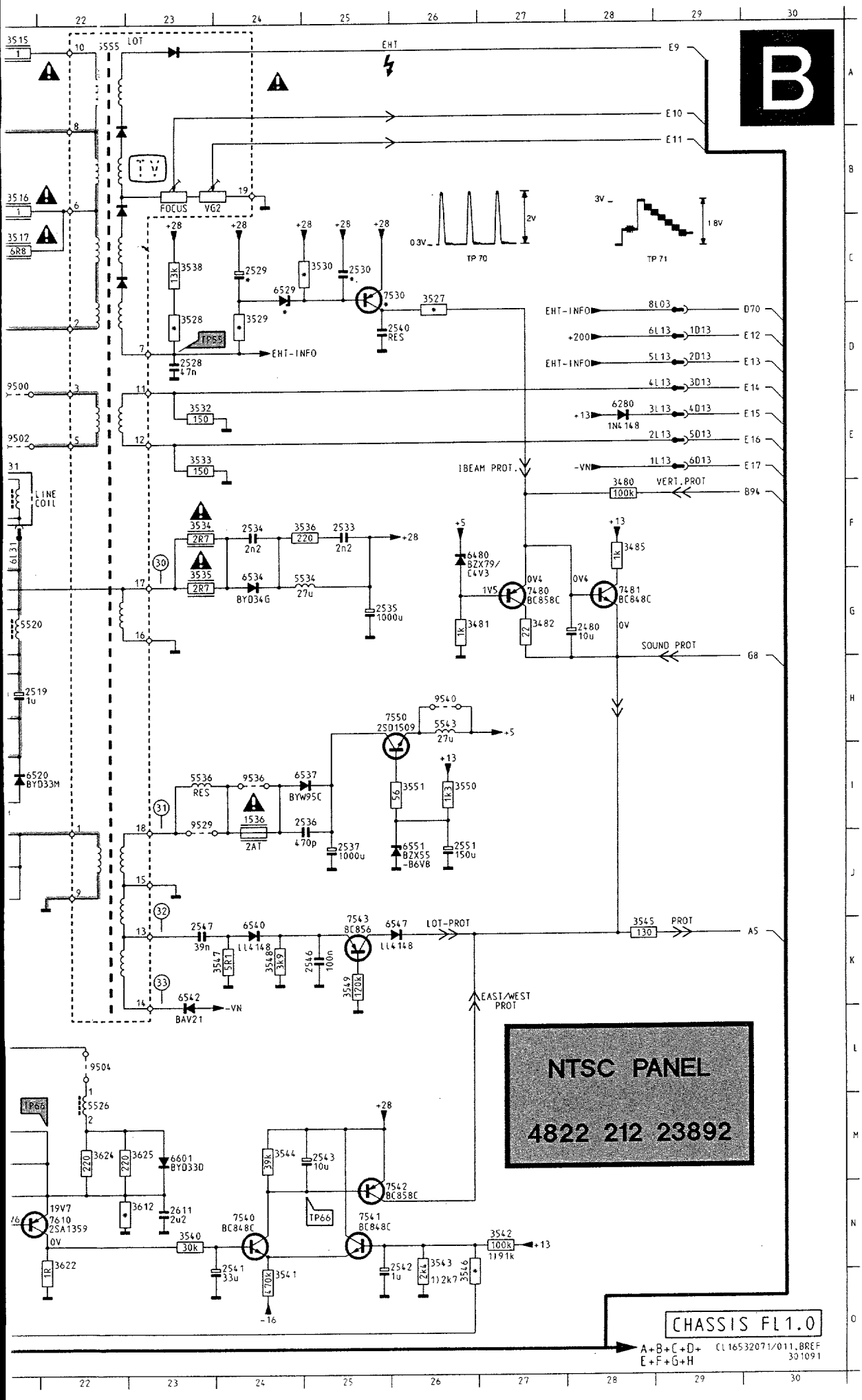
B



ITEM	21" 1)	25" 2)	28" 3)	33" 4)
2457	2u2	1u	1u	2u2
2521	470n	560n	560n	680n
2529	0u47	-	-	0u47
2530	22n	-	-	22n
2604	220p	820p	560p	1n8
2605	5n6	10n	8n2	3n9
2606	-	2n7	3n3	12n
2614	82n	82n	82n	-
3411	82k	62k	68k	82k
3420	2M7	2M7	2M7	3M9
3455	3k9	4k7	4k7	3k9
3456	100k	180k	180k	110k
3457	8k2	15k	15k	8k2
3468	330	220	220	220
3469	680	4k7	15k	2k7
3474	-	68k	68k	-
3508	3k9	2k2	2k2	2k7
3523	-	10k	10k	10k
3527	1k	-	-	1k
3528	2k2	470	470	1k
3529	100k	-	-	100k
3530	470k	-	-	470k
3546	-	180k	180k	180k
3605	-	62k	51k	20k
3612	-	5k1	5k1	5k1
3626	130k	68k	82k	120k
5555	DSBE	DSBU50	DSBU50	DSBU50
6529	C43	-	-	C43
7530	BC857	-	-	BC857

Synchronisation





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A	2403	B 9	3446	F 4	5534	G25
	2404	A 8	3447	F 3	5536	I23
	2405	A 9	3450	L 5	5543	H26
	2406	A 9	3451	L 5	5548	I16
	2407	E 9	3452	N 9	5555	A22
	2408	D15	3454	N10	6280	E28
	2409	E10	3455	N12	6402	E11
	2410	G 8	3456	K13	6403	E14
B	2411	E 8	3457	L13	6404	E12
	2415	F10	3458	L13	6417	A12
	2416	B11	3459	L14	6451	N 9
	2417	A11	3461	M13	6452	M10
	2418	B13	3462	M13	6453	L10
	2419	B14	3463	M14	6454	M10
	2420	B 3	3464	M12	6465	N14
	2421	B 2	3465	N14	6466	N15
C	2422	A 2	3466	N15	6480	F26
	2423	B 4	3467	N10	6515	A21
	2424	C 1	3468	N11	6516	B21
	2425	D 2	3469	N15	6517	C21
	2426	D 1	3470	N12	6519	I21
	2427	C 4	3473	N10	6520	I21
	2428	B 1	3474	L12	6522	H17
D	2429	B 1	3480	F28	6525	I17
	2445	G 5	3481	G26	6529	C24
	2446	G 3	3482	G27	6534	G24
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	2451	M 5	3500	H12	6540	K24
	2452	M10	3502	H12	6542	K23
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	2456	L13	3507	H15	6551	J26
E	2456	L13	3508	G14	6601	M23
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	2460	M11	3513	A17	7401	B 2
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F	2502	G12	3517	C21	7417	A12
	2503	G13	3518	H21	7445	G 4
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	2512	A20	3522	G21	7469	N11
	2513	B20	3523	I19	7480	G27
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	2518	C20	3528	D23	7501	H13
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	2521	H19	3532	E23	7513	B18
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	2536	I25	3542	N27	7603	L19
	2537	J25	3543	N26	7608	N20
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	2542	O25	3546	O26	7618	J17
	2543	M25	3547	K24	7650	K15
	2546	K25	3548	K24	7651	L15
	2547	K23	3549	K25	9038	C13
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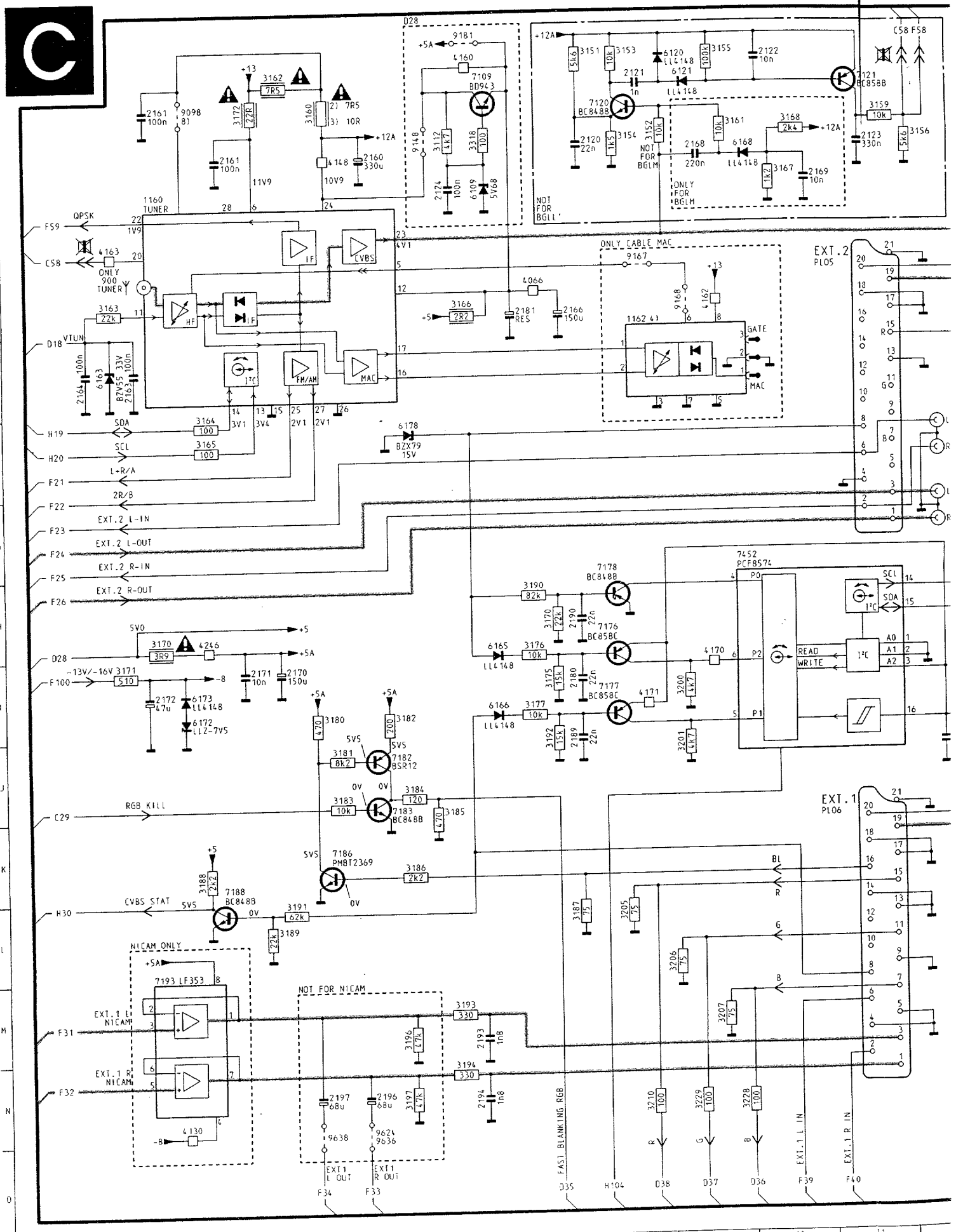

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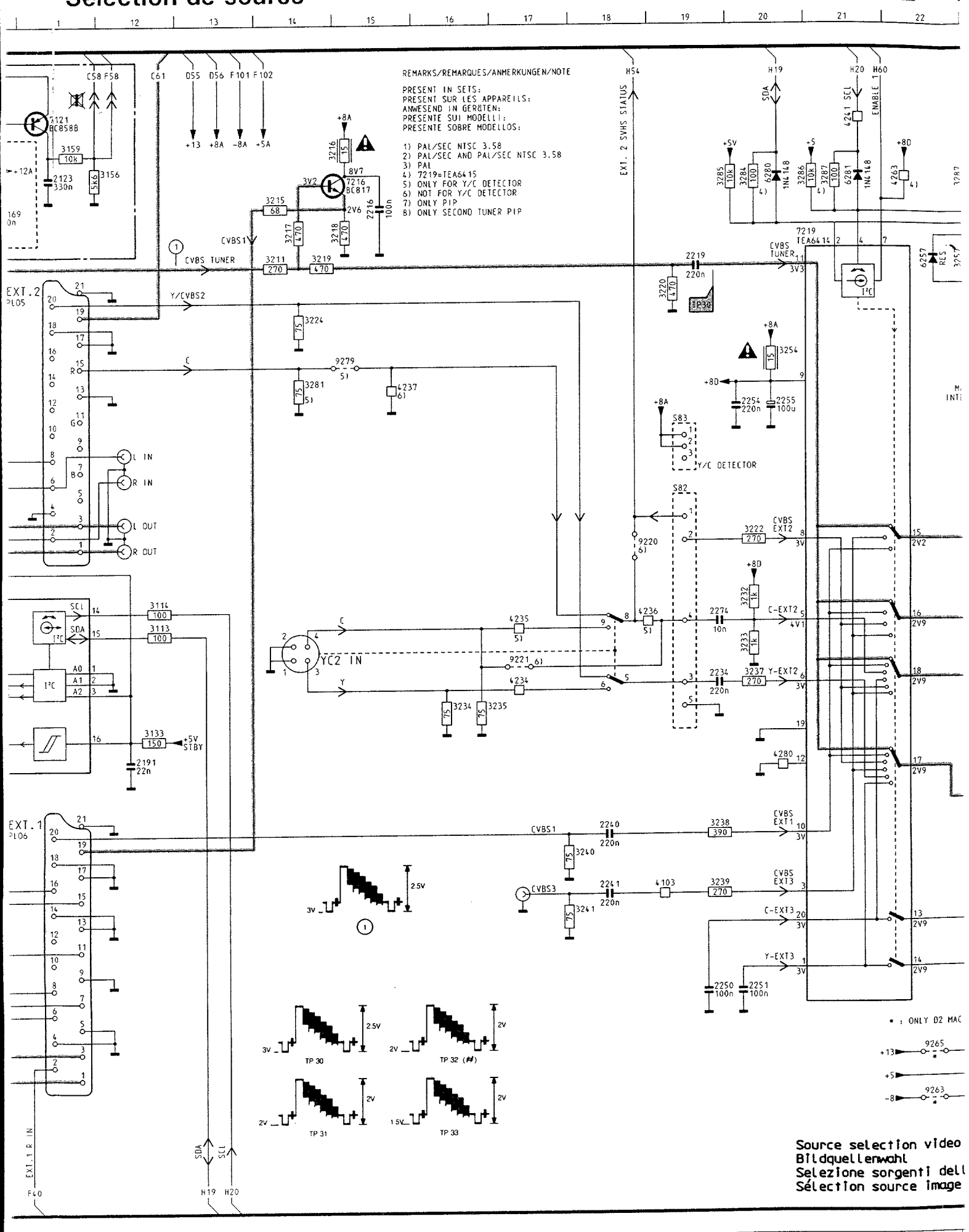

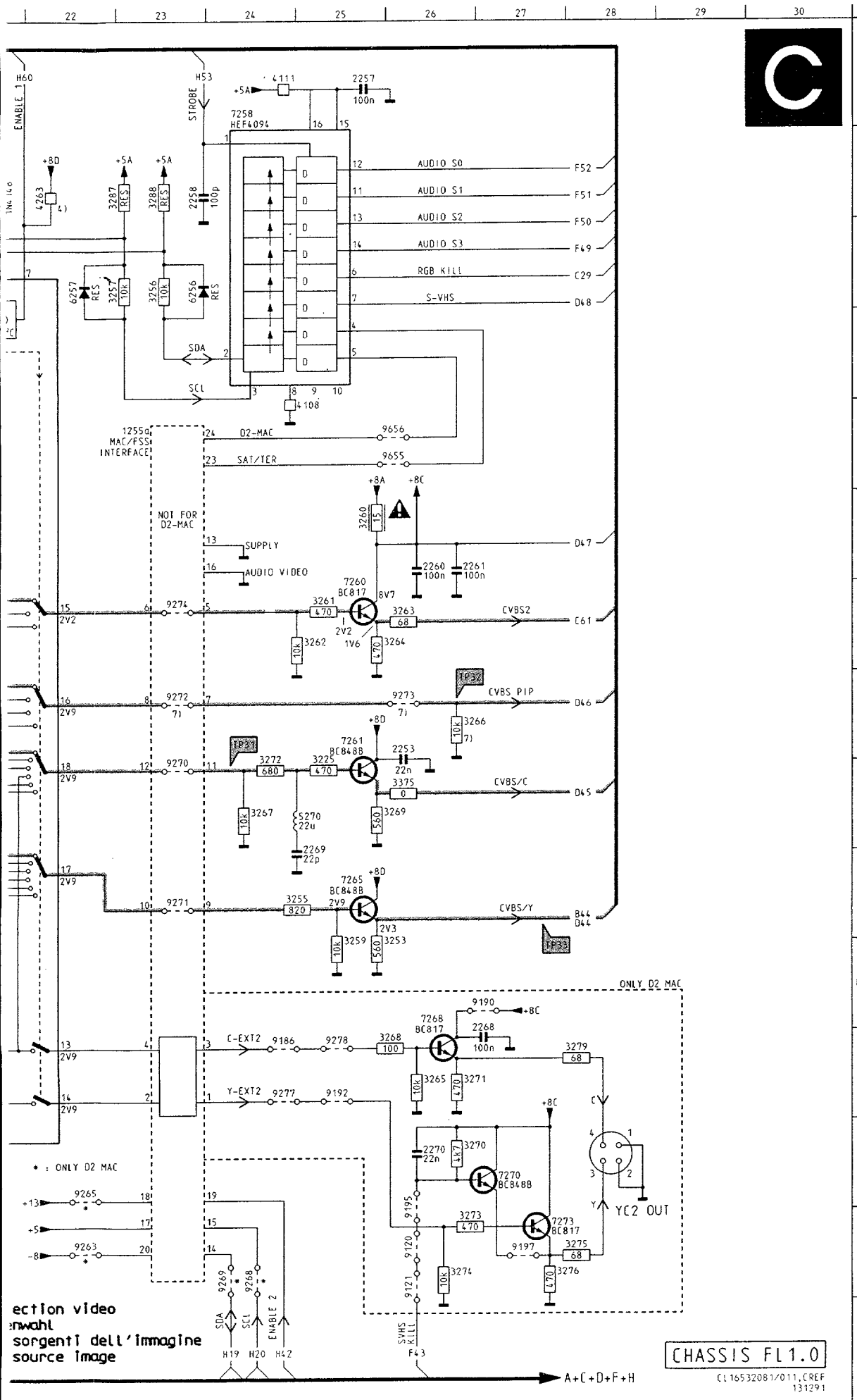

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A	2121	A 8	3256	C23		
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	2123	B11	3259	J25		
	2124	C 6	3260	F25		
	2160	B 5	3261	G25		
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	2219	C19	3287	B23		
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	2255	E20	4111	A24		
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	2270	M26	4171	I 8		
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	3153	A 8	4280	J20		
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	3180	I 4	7178	G 8		
	3181	J 4	7182	J 5		
	3182	I 5	7183	J 5		
	3183	J 4	7186	K 4		
	3184	J 5	7188	K 3		
	3185	J 6	7193	L 2		
	3186	K 5	7216	B15		
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	3190	H 7	7261	H25		
	3191	L 4	7265	J25		
	3192	J 7	7268	K26		
	3193	M 6	7270	M27		
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	3234	I16	9273	H26		
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	3237	I20	9277	L24		
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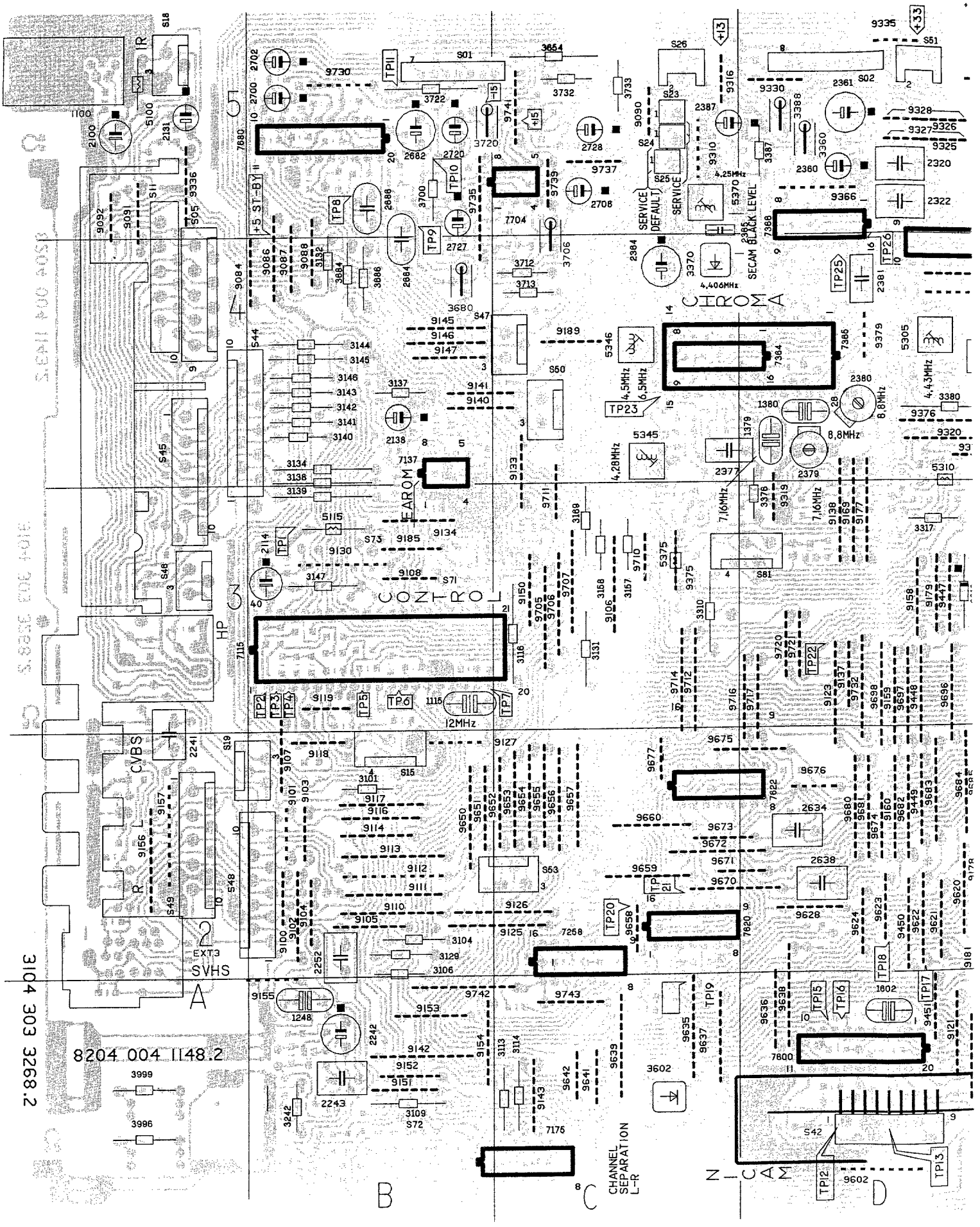
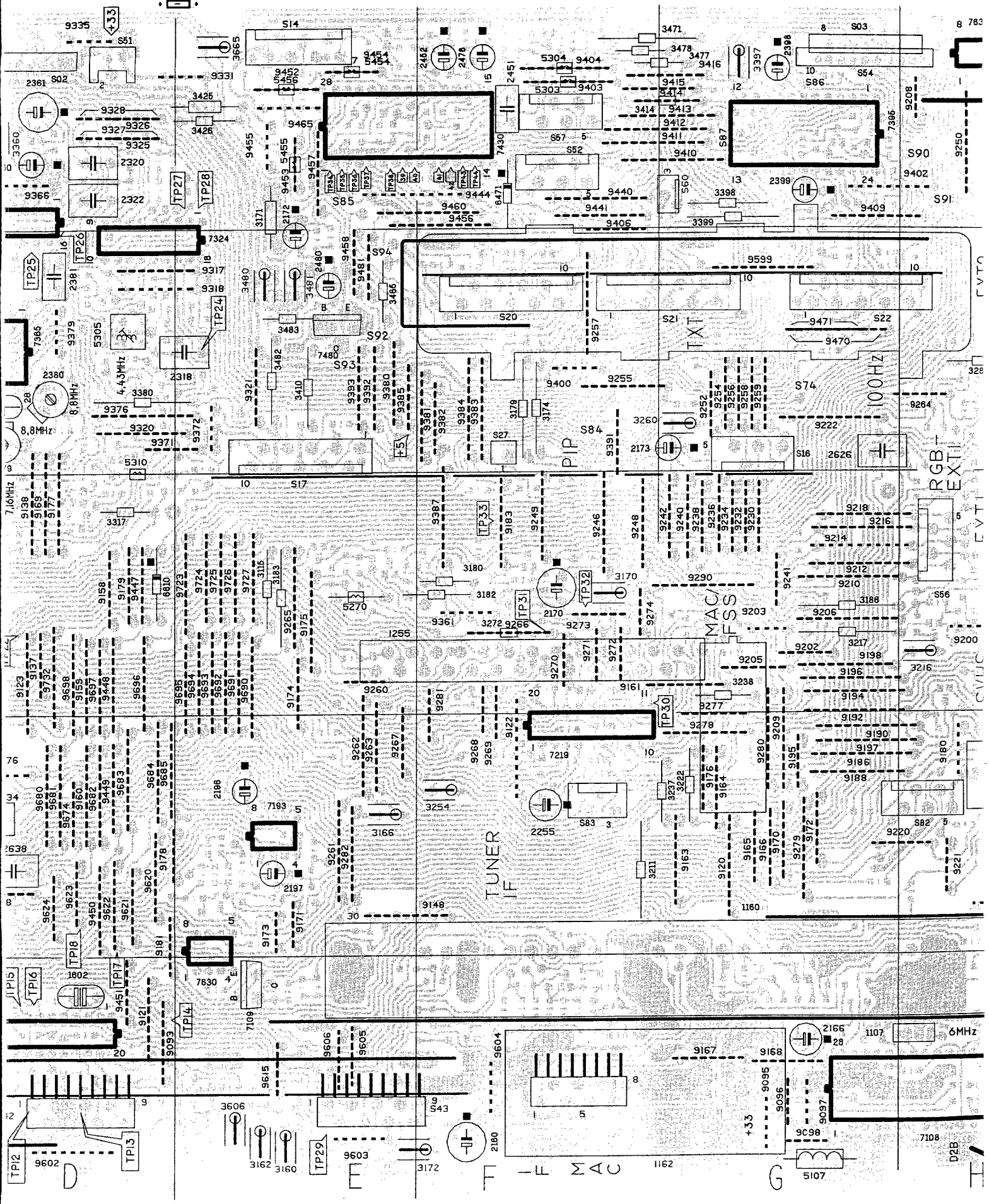
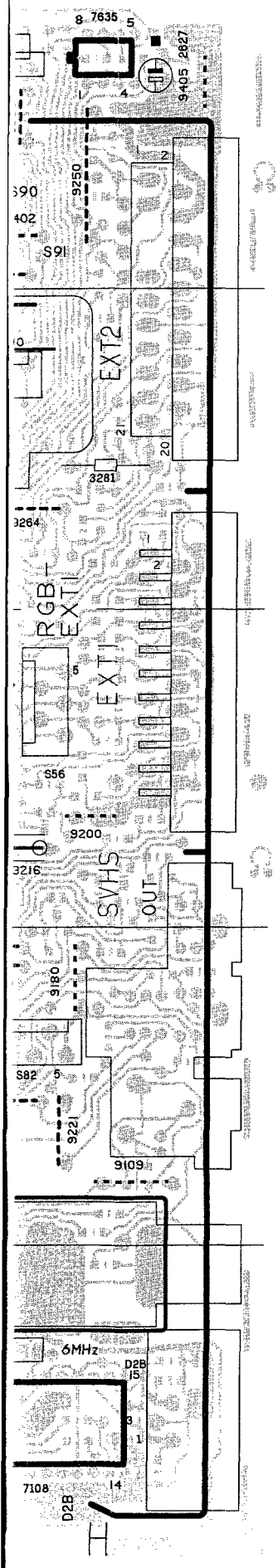
Small signal panel

Klein-signal Platine



Platine petits signaux





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EXT3 A3	2682 B5	3686 B4	9143 C1	9265 E3	9605 E1
S01 B5	2684 B4	3700 B5	9145 B4	9266 F3	9606 E1
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S05 A4	2702 B5	3713 C4	9148 E2	9269 F3	9621 D2
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S14 E5	2720 B5	3722 B5	9151 B1	9271 F3	9623 D2
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S21 F4	3113 C1	5115 B3	9158 D3	9280 G2	9639 C1
S22 G4	3114 C1	5270 E3	9159 D3	9281 F2	9641 C1
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S24 C5	3116 C3	5304 F5	9161 G3	9290 G3	9650 B2
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S27 F4	3132 B4	5345 C4	9165 G2	9317 D4	9653 C2
S42 D1	3134 B4	5346 C4	9166 G2	9318 D4	9654 C2
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2462 F5	3483 E4	9133 C4	9258 G4	9470 G4	
2476 F5	3602 C1	9134 B3	9259 G4	9471 G4	
2480 E4	3606 E1	9137 D3	9260 E3	9481 E4	
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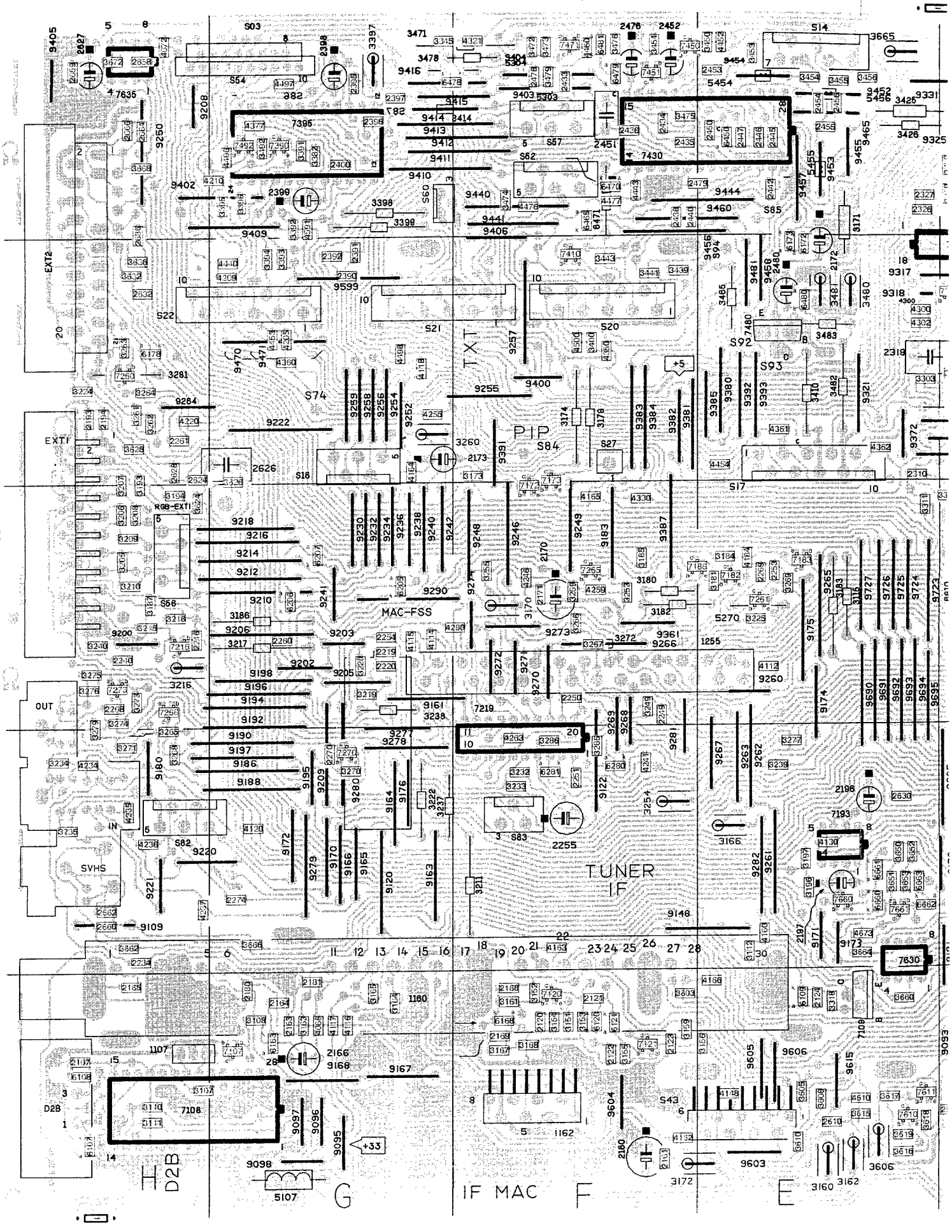
Small signal panel Klein-signal Platine Platin



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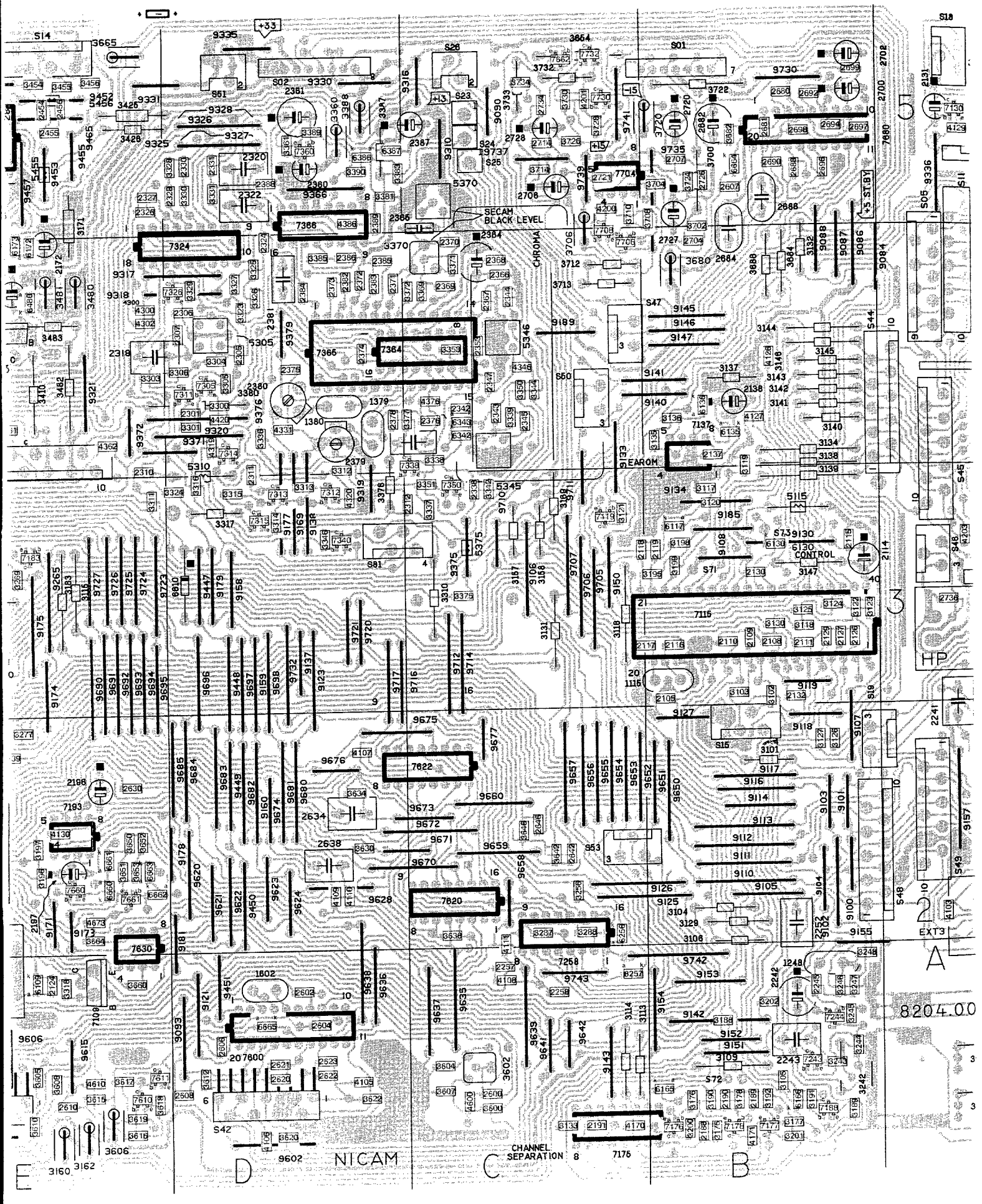

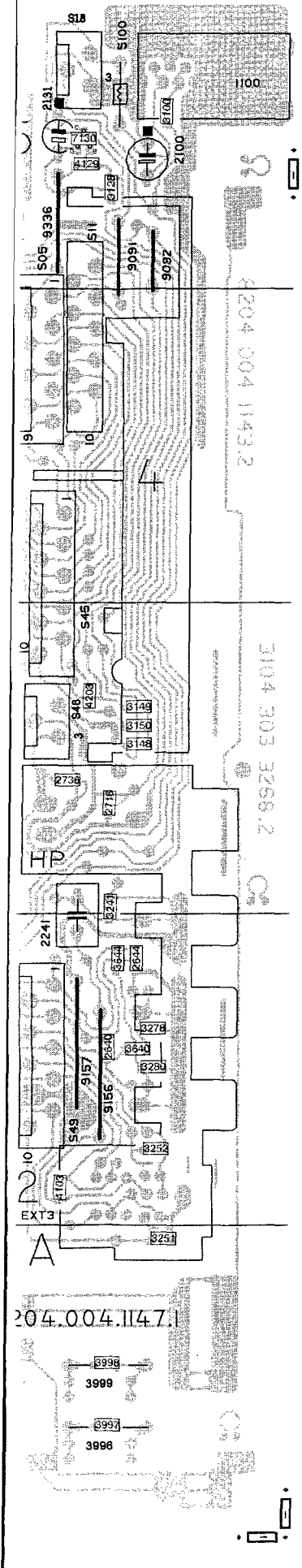

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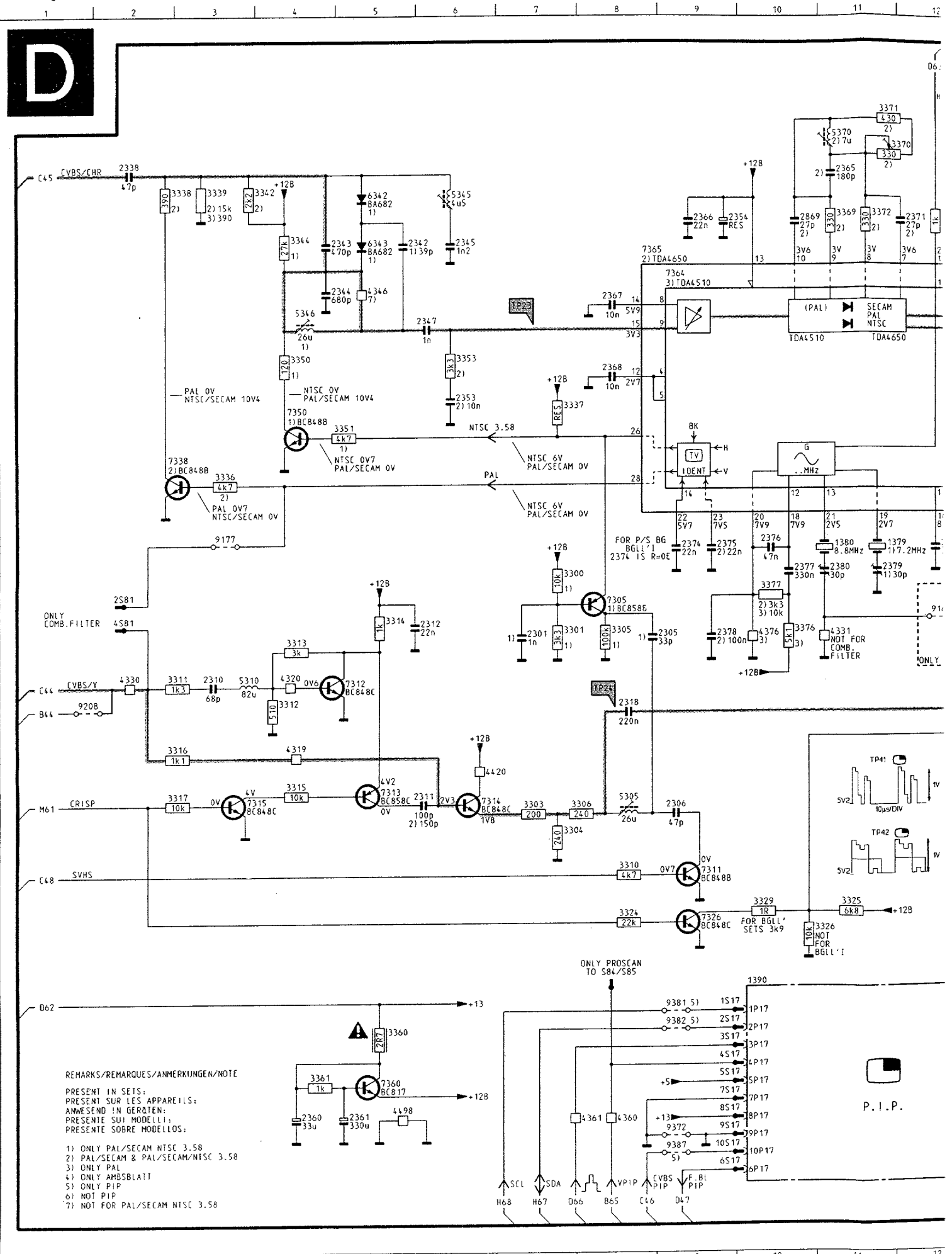
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FOR P/S BG BGLL'I 2374 IS R=0E
NOT FOR COMB. FILTER
ONLY PROSCAN TO S84/S85
P.I.P.
REMARKS/REMARQUES/ANMERKUNGEN/NOTE
PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:
1) ONLY PAL/SECAM NTSC 3.58
2) PAL/SECAM & PAL/SECAM/NTSC 3.58
3) ONLY PAL
4) ONLY AMBSBLATT
5) ONLY PIP
6) NOT PIP
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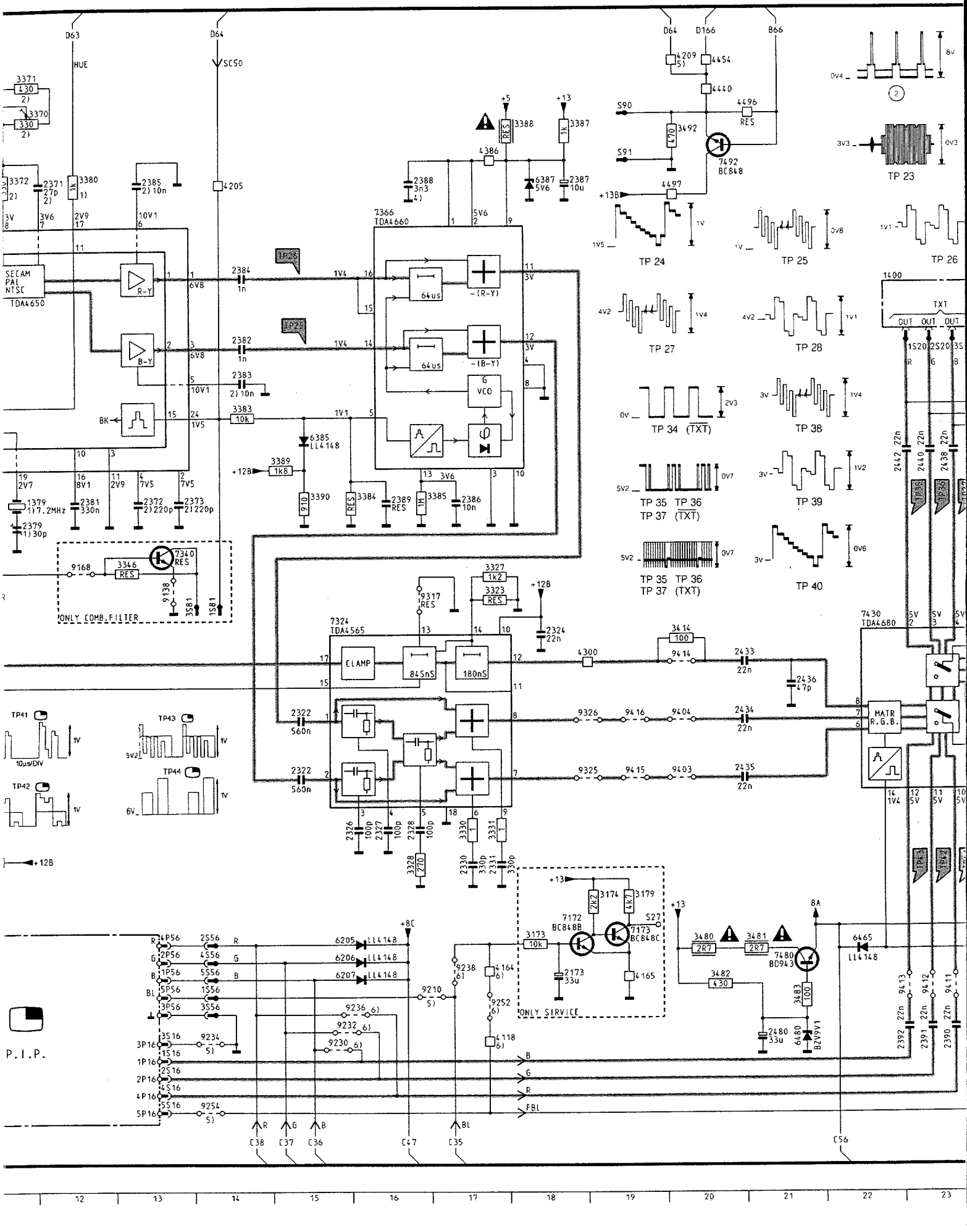
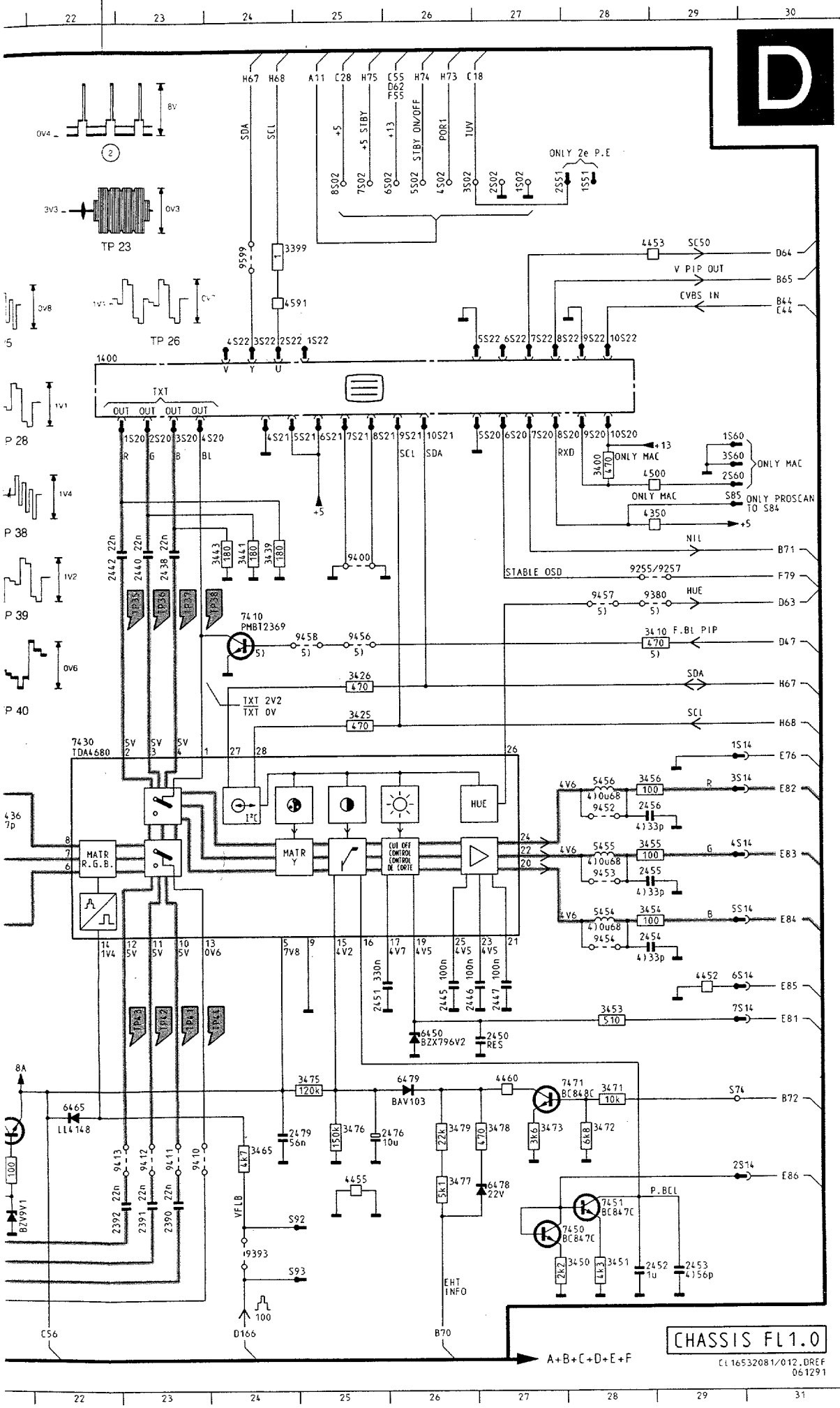
Traitement vidéo





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	2324	I18	3400	E28	9372	N 9
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C	2338	B 2	3441	F24	9400	F25
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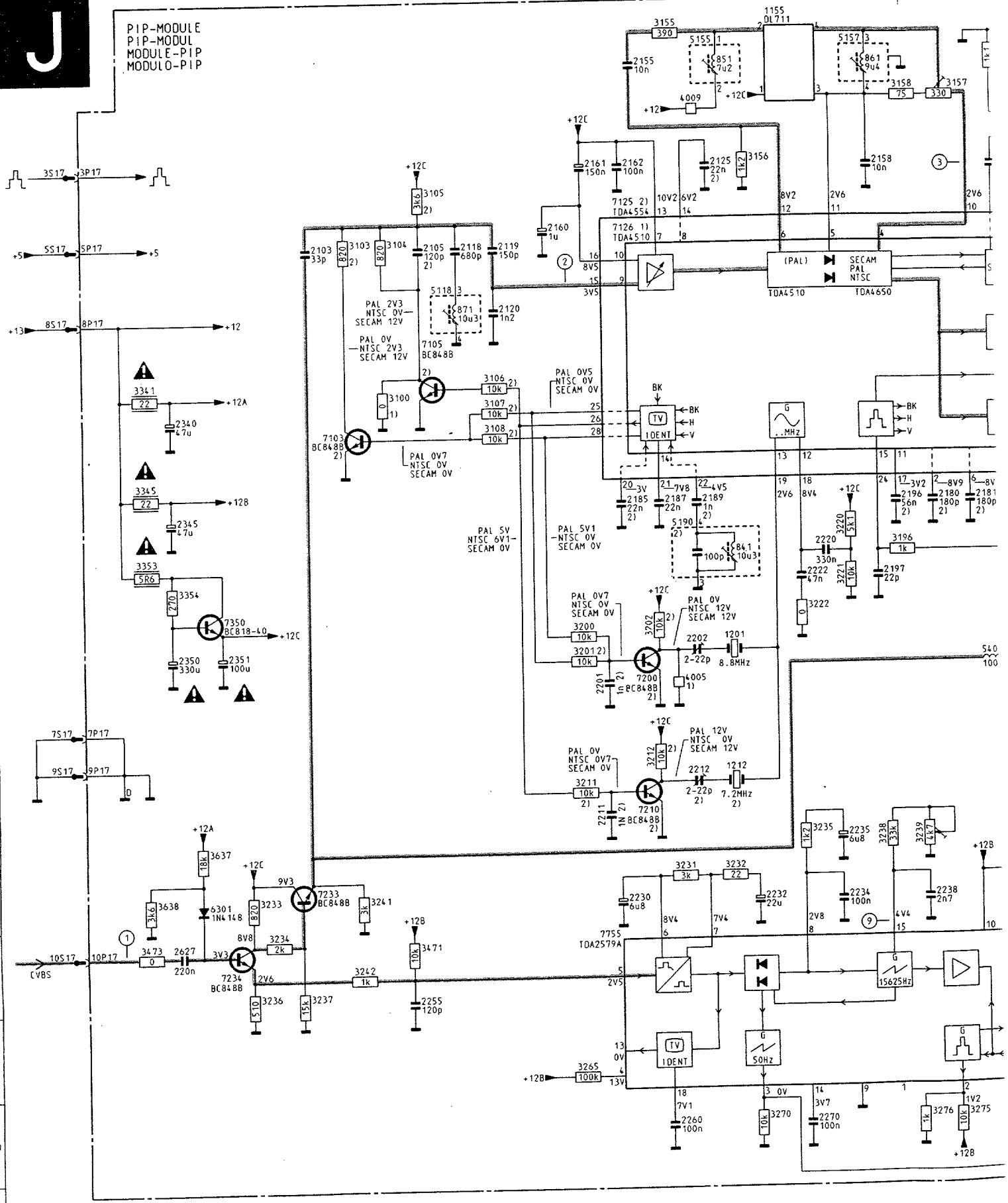
J

PIP-MODULE
PIP-MODUL
MODULE-PIP
MODULO-PIP



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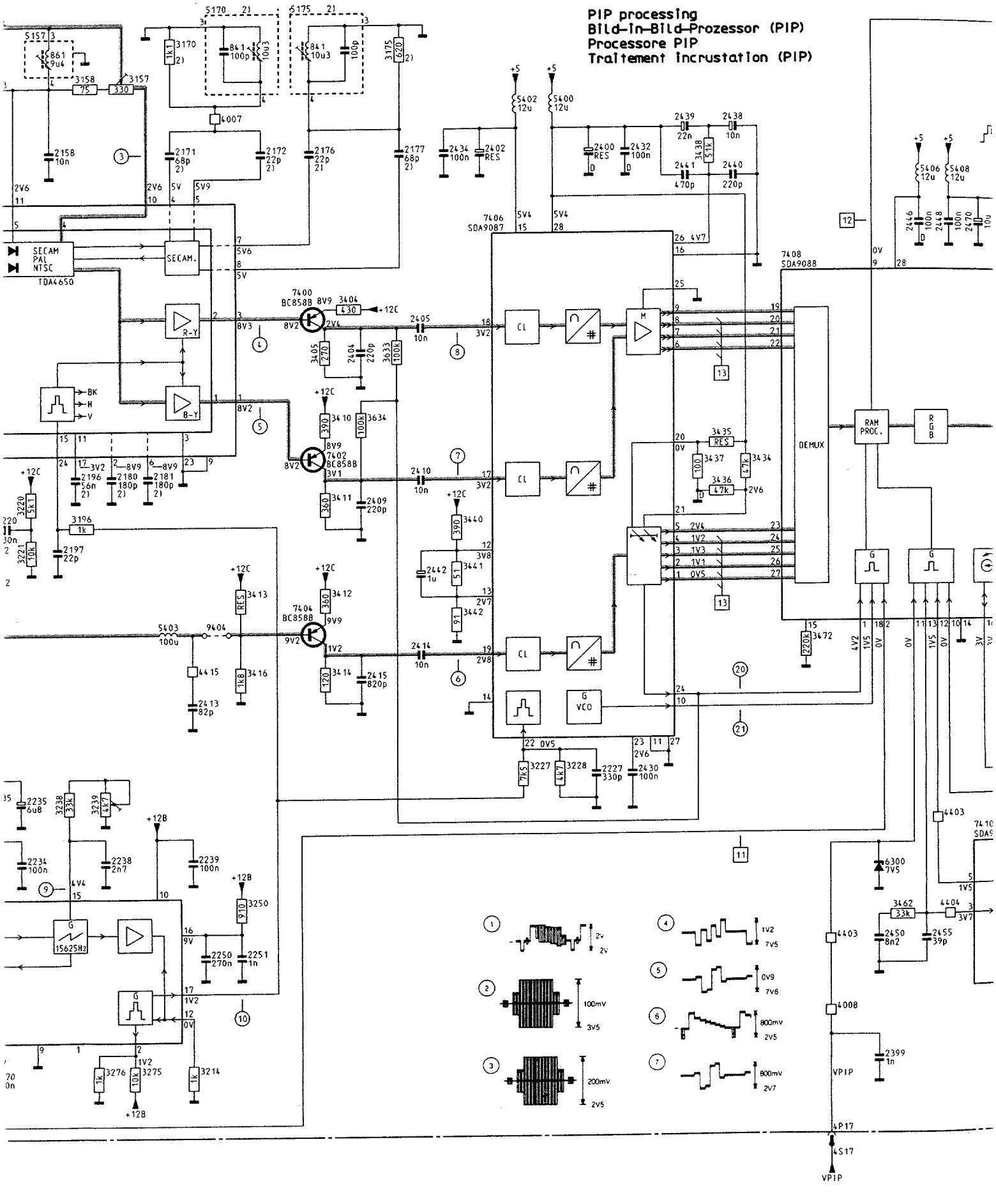

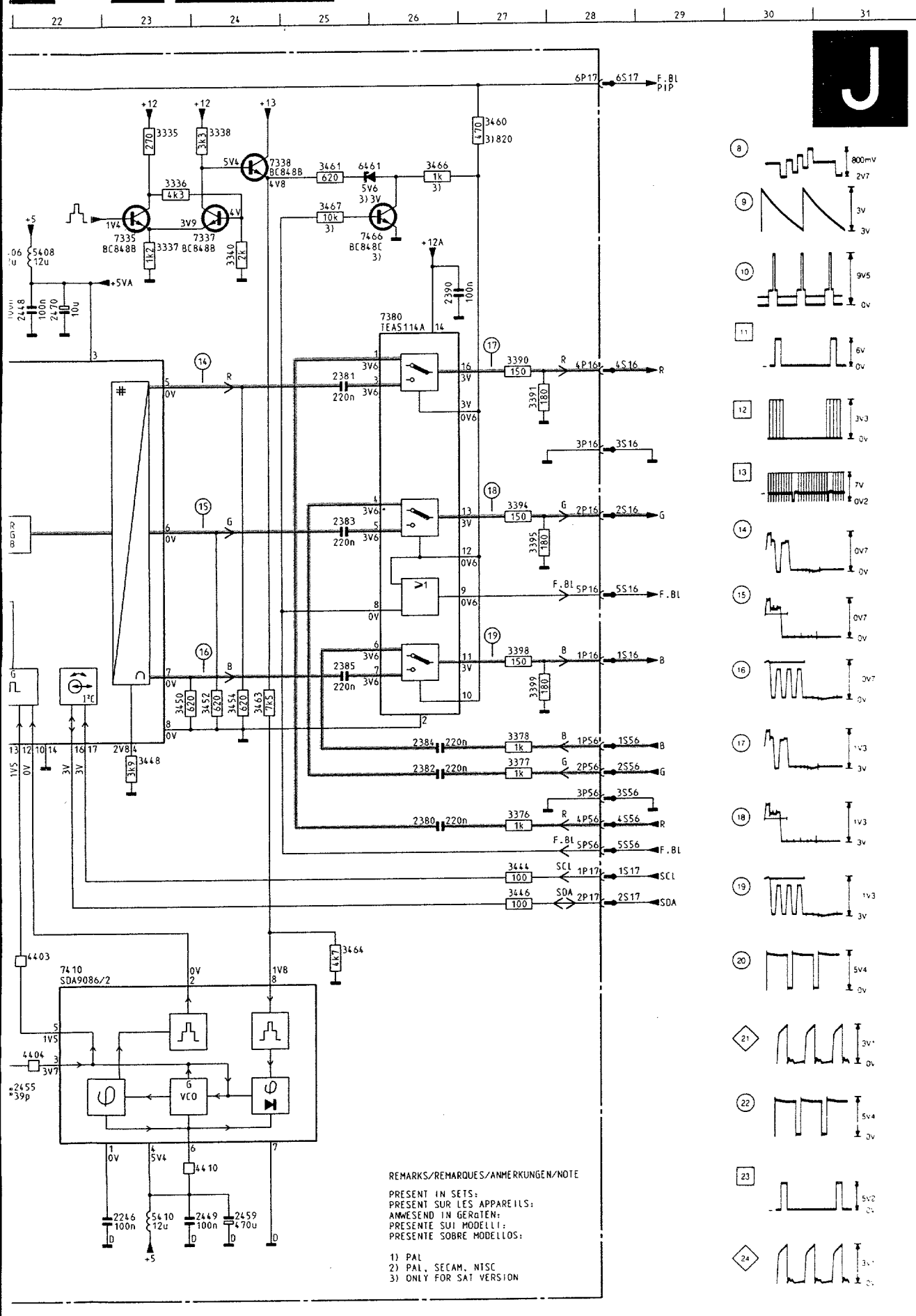

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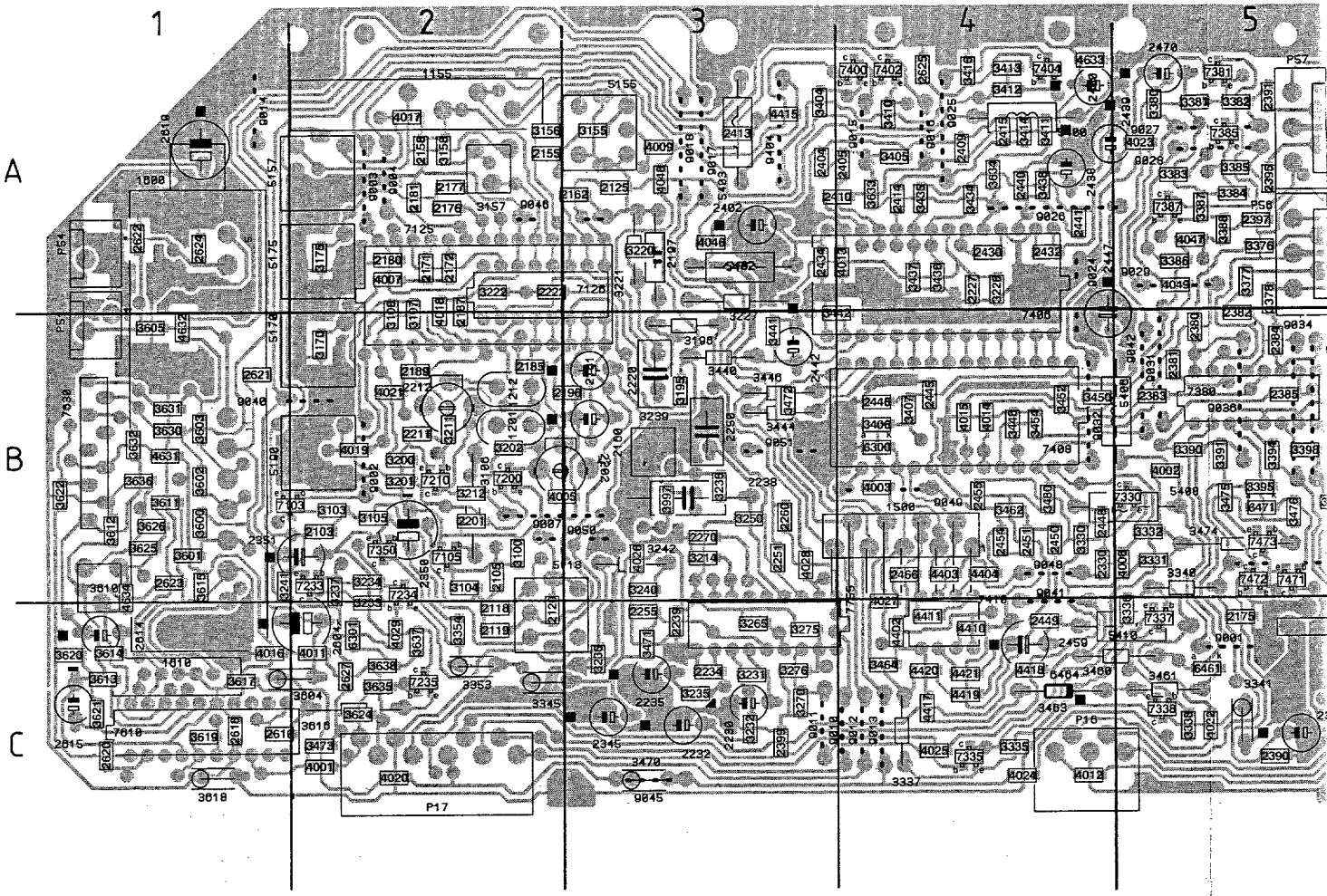

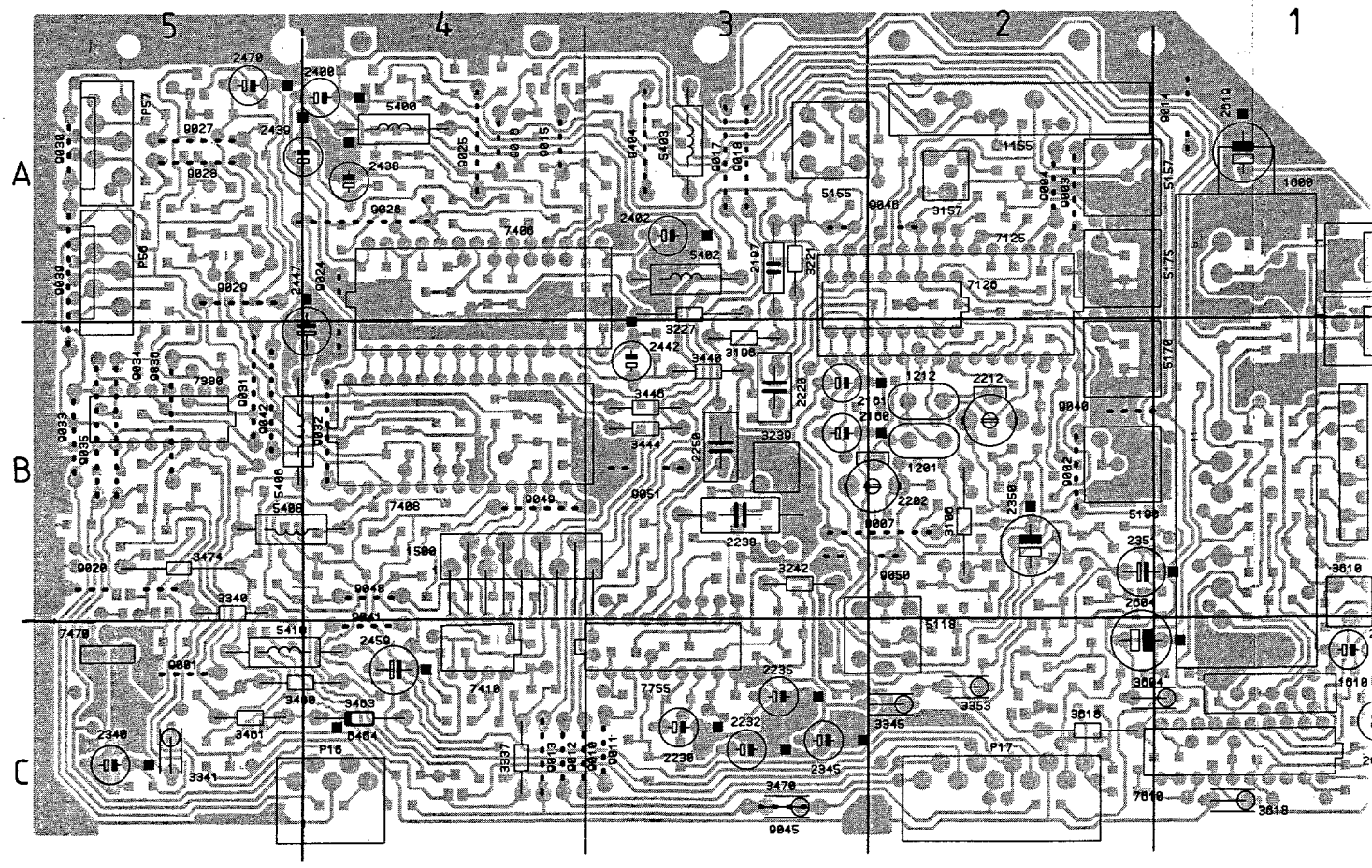

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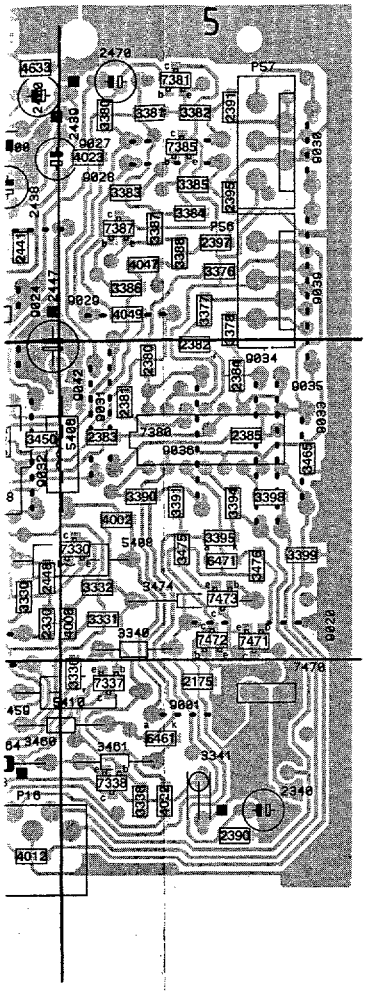

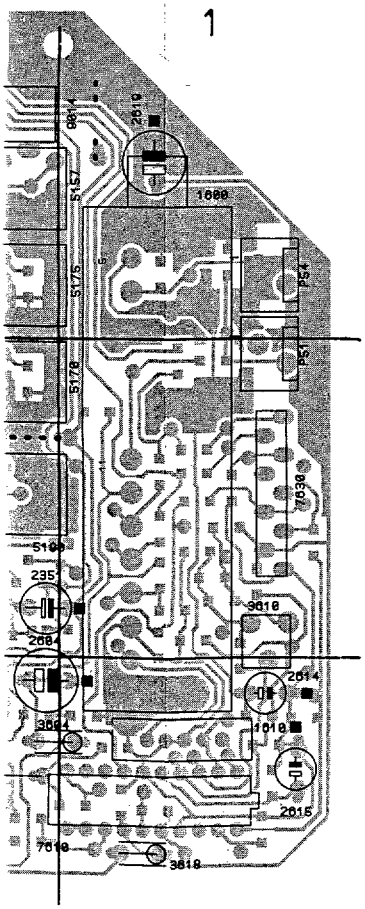

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1600 A1	2439 A5	3276 C3	3601 B1	4631 B1	9027 A5
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2118 C2	2445 B4	3335 C4	3605 B1	5118 B2	9031 B5
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2162 A3	2455 B4	3354 C2	3617 C1	5403 A3	9041 C4
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2222 A2	3103 B2	3398 B5	3997 B3	7235 C2	
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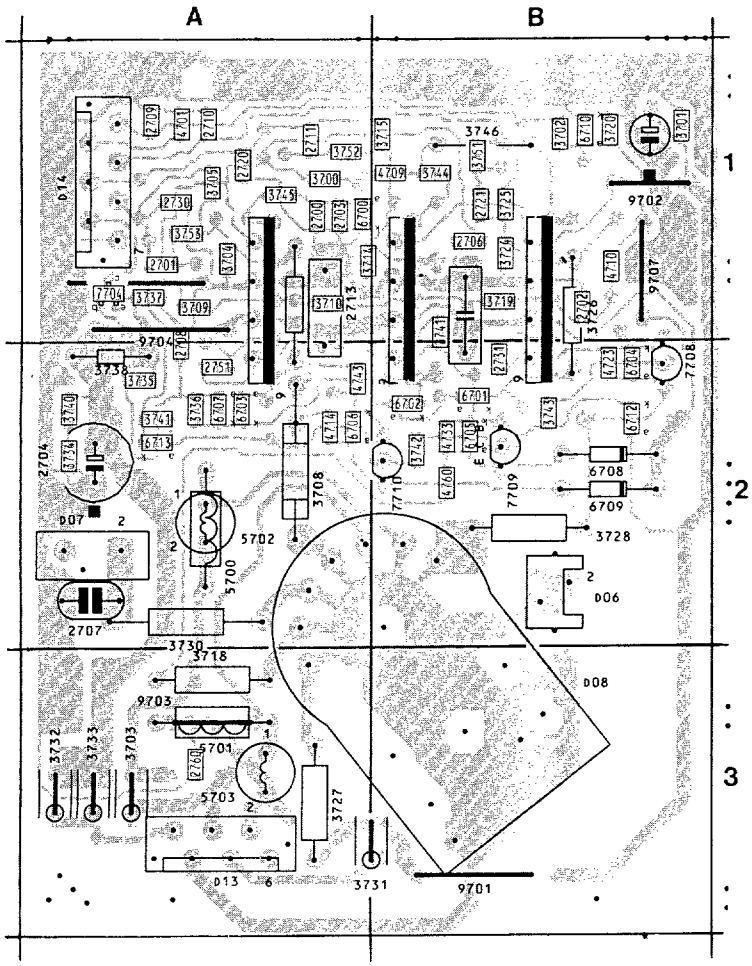

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2708 A2	5701 A3
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2751 A2	6708 B2
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3700 A1	6710 B1
3701 B1	6711 B2
3702 B1	6712 B2
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3725 B1	9707 B1
3726 B1	D06 B2
3727 A3	D07 A2
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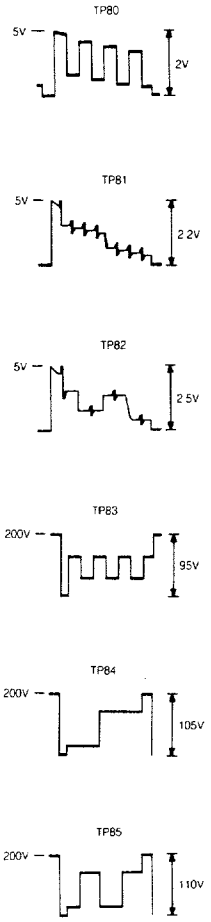

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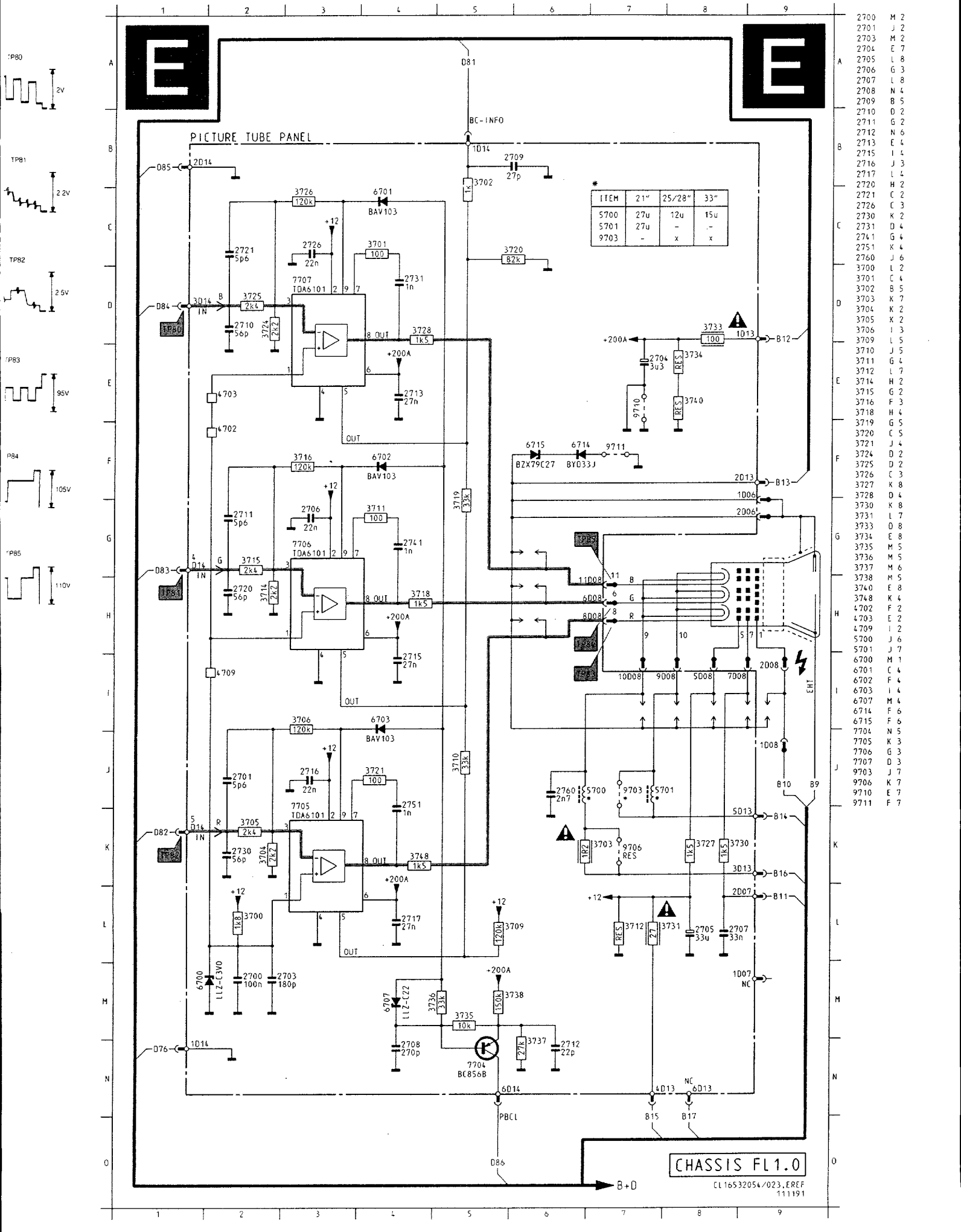

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2708	N 4
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2710	D 2
2711	G 2
2712	N 6
2713	E 4
2715	I 4
2716	J 3
2717	L 4
2720	H 2
2721	C 2
2726	C 3
2730	K 2
2731	D 4
2741	G 4
2751	K 4
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3735	M 5
3736	M 5
3737	M 6
3738	M 5
3740	E 8
3748	K 4
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4703	E 2
4709	I 2
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6707	M 4
6714	F 6
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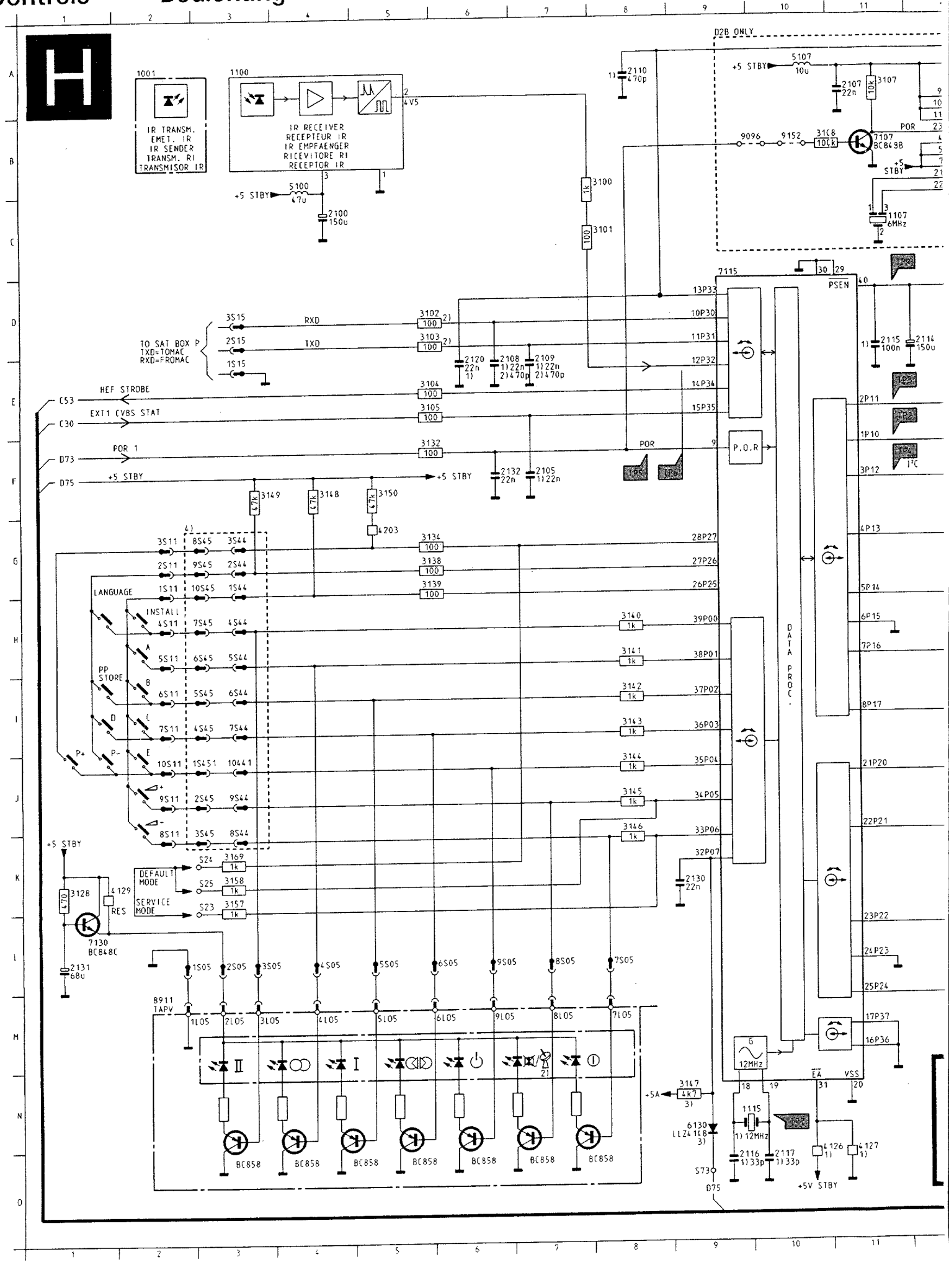
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IR RECEIVER
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RICEVITORE RI
RECEPTOR IR
+5 STBY
5100
47u
2100
150u
2110
470p
5107
10u
2107
22n
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16P36
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2S15
1S15
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TXD
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RXD=FROMAC
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100n
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150u
C53
HEF STROBE
C30
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POR 1
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STORE
P+
P-
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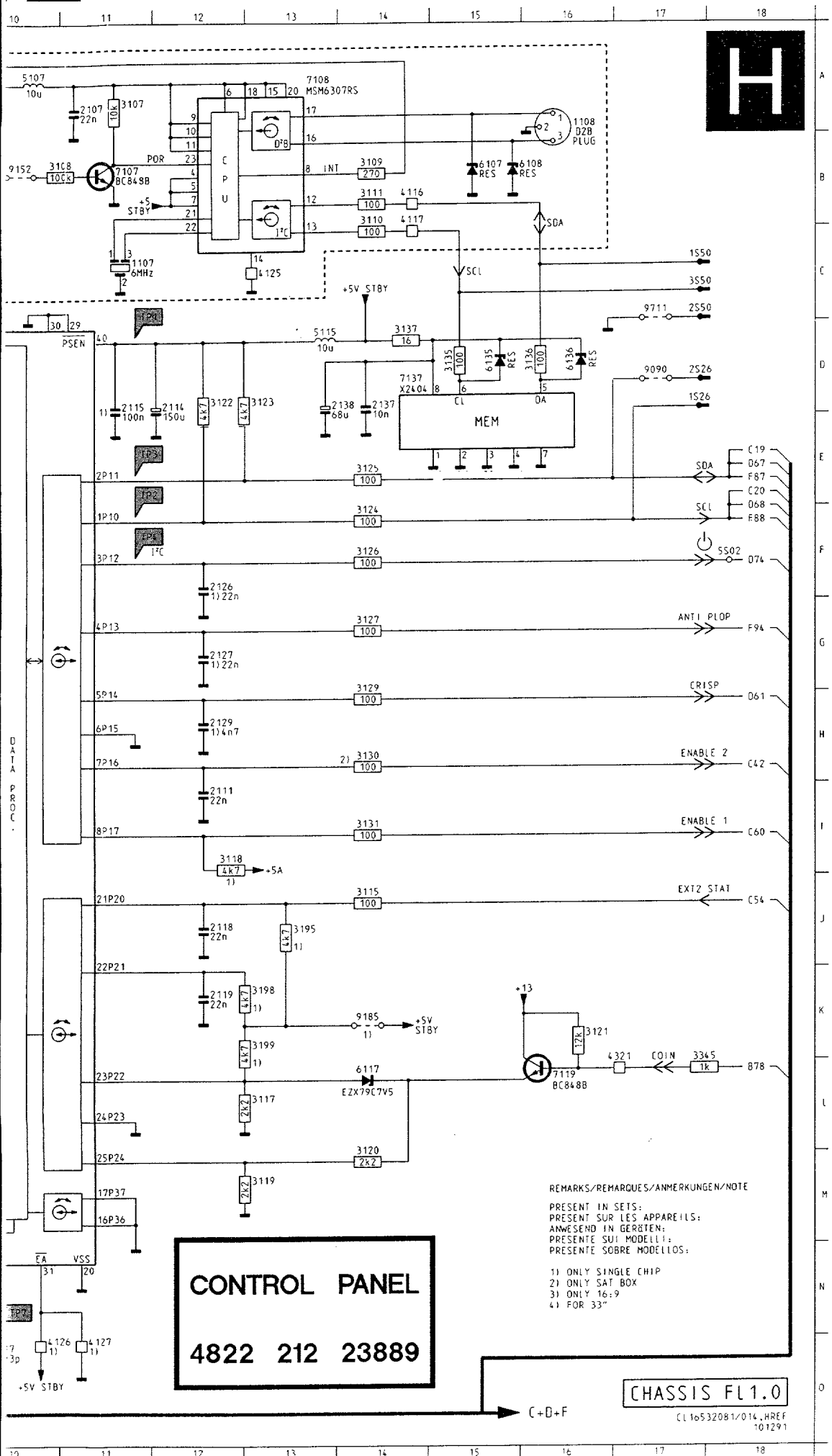

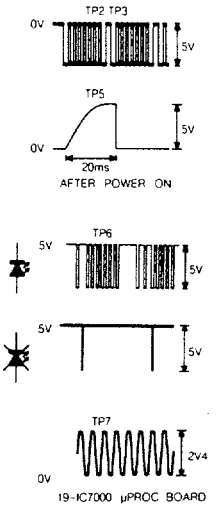

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1107	C	12
1108	A	17
1115	N	10
2100	C	4
2105	F	7
2107	A	11
2108	E	7
2109	E	7
2110	A	9
2111	I	12
2114	D	12
2115	D	12
2116	D	10
2117	D	10
2118	J	12
2119	K	12
2126	F	12
2127	G	12
2129	H	12
2130	K	9
2131	L	1
2132	F	7
2137	D	14
2138	D	14
3100	B	8
3101	D	8
3102	D	6
3103	D	6
3104	E	6
3105	E	6
3107	A	12
3108	B	11
3109	B	14
3110	B	14
3111	B	14
3115	J	14
3116	J	14
3117	L	13
3118	D	14
3119	M	14
3120	L	14
3121	K	16
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3126	F	14
3127	G	14
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3129	H	14
3130	H	14
3131	I	14
3132	F	6
3134	G	8
3135	D	15
3136	D	16
3137	D	15
3138	G	8
3139	G	8
3140	H	8
3141	H	8
3142	I	8
3143	I	8
3144	J	8
3145	J	8
3146	K	8
3148	F	4
3149	F	3
3150	F	5
3157	L	3
3158	K	3
3169	K	3
3195	J	13
3198	K	13
3199	K	13
4116	B	15
4117	B	15
4125	C	13
4126	O	11
4127	O	11
4203	G	5
4321	L	17
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7108	A	14
7119	L	16
7130	L	1
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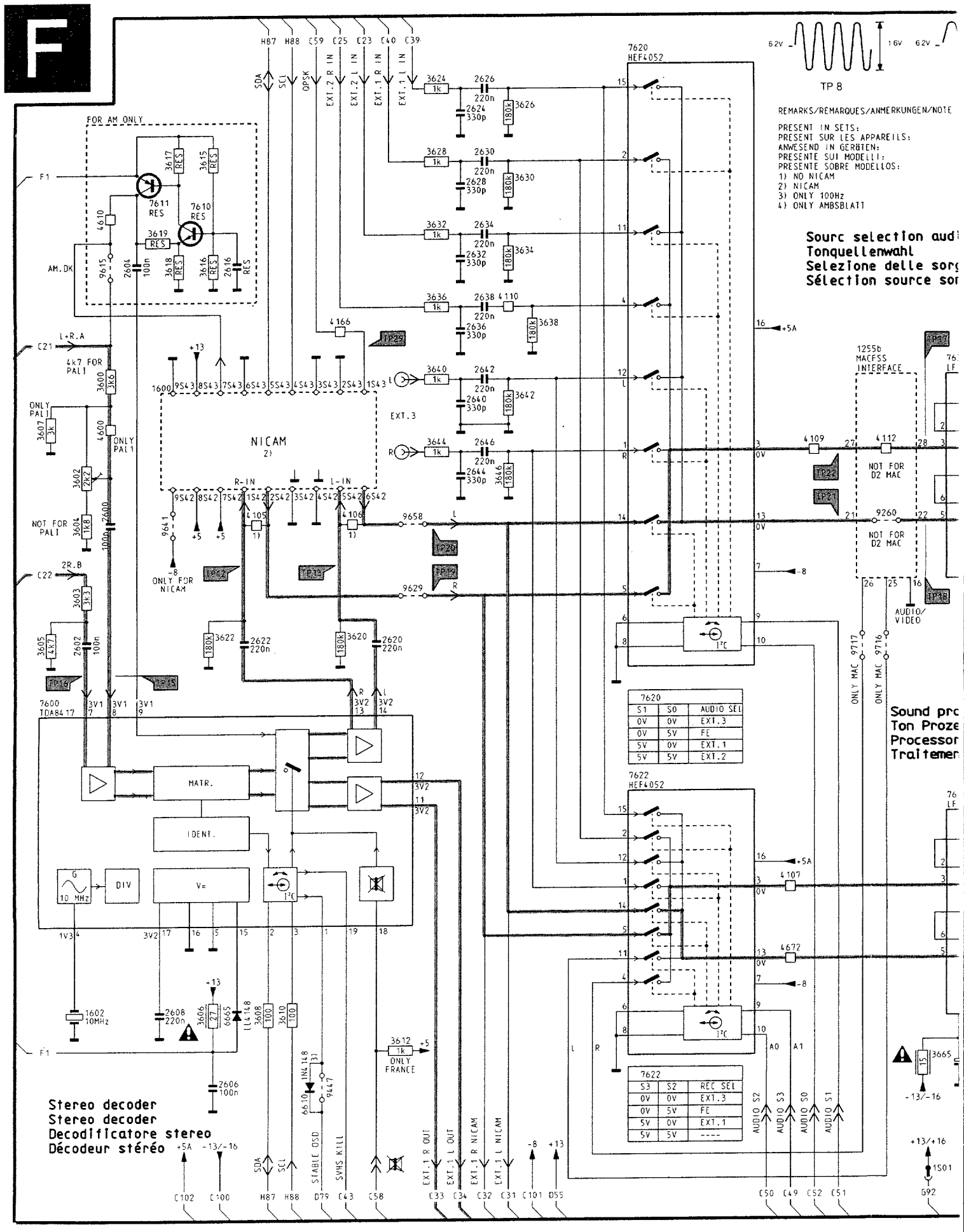
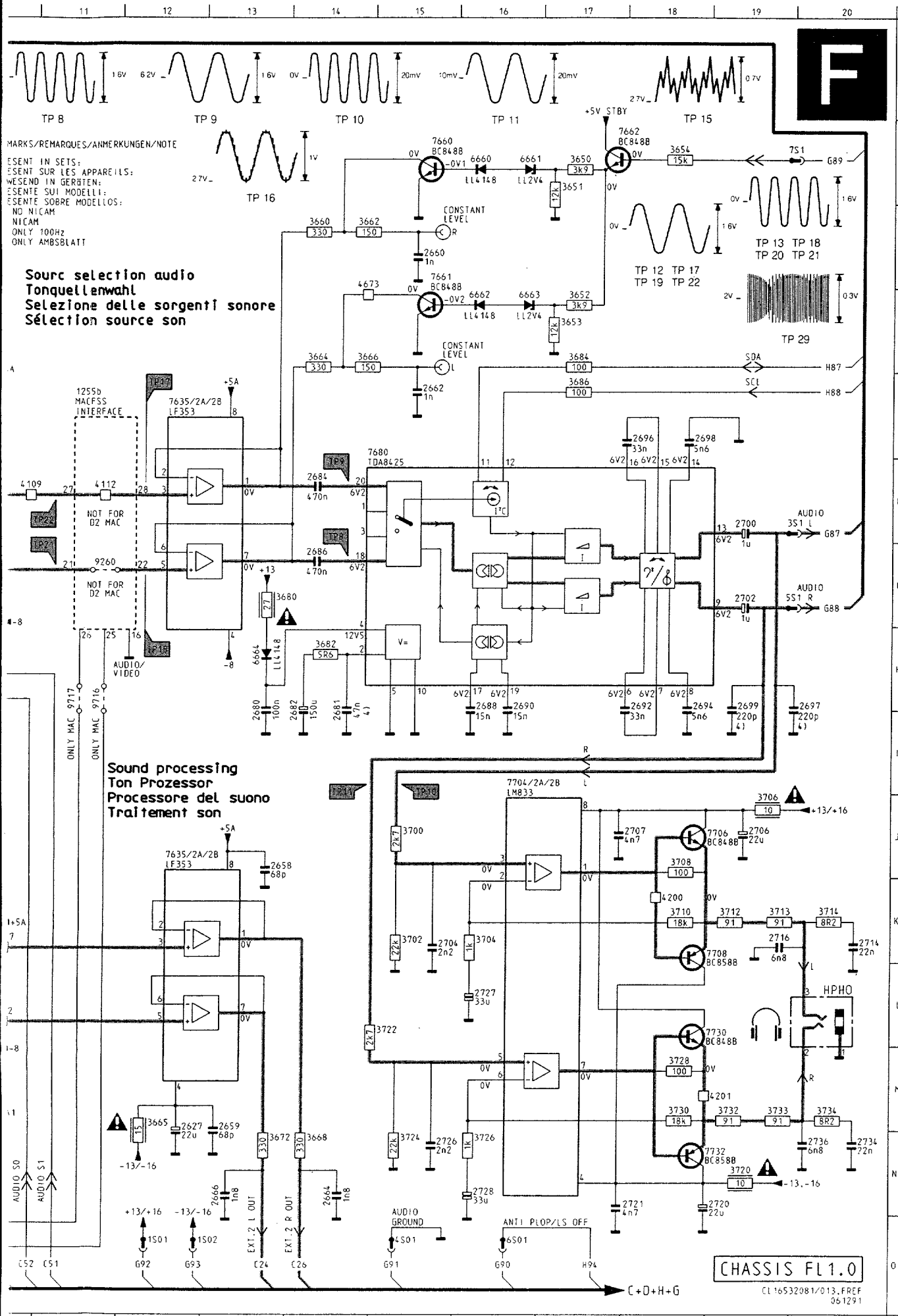

F
TP 8
REMARKS/REMARQUES/ANMERKUNGEN/NOTE
PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:
1) NO NICAM
2) NICAM
3) ONLY 100Hz
4) ONLY AMBSBLATT
Sourc selection audi
Tonquellenwahl
Selezione delle sorg
Sélection source sor
FOR AM ONLY
NICAM
2)
7620 HEF4052
7622 HEF4052
7600 TDA8417
1255b MACFSS INTERFACE
MATR.
IDENT.
DIV
V=
10 MHz
ONLY PAL I
NOT FOR PAL I
ONLY PAL
ONLY FOR NICAM
NOT FOR D2 MAC
ONLY MAC
AUDIO/ VIDEO
ONLY FRANCE
Stereo decoder
Stereo decoder
Decodificatore stereo
Décodeur stéréo
7620
S1 S0 AUDIO SEL
0V 0V EXT.3
0V 5V FE
5V 0V EXT.1
5V 5V EXT.2
7622
S3 S2 REC SEL
0V 0V EXT.3
0V 5V FE
5V 0V EXT.1
5V 5V ----

Traitement audio



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1600	E 2	3732	M1
1602	M 1	3733	M1
2600	G 2	3734	M2
2602	H 1	4105	G
2604	D 2	4106	G
2606	N 3	4107	K1
2608	M 2	4109	F1
2616	D 3	4110	D
2620	H 6	4112	F1
2621	H 5	4166	D
2623	H 3	4200	K1
2624	B 6	4201	M1
2626	A 6	4600	F
2627	M13	4610	C
2628	C 6	4672	L1
2630	B 6	4673	C1
2632	D 6	6610	N
2634	C 6	6660	B1
2636	D 6	6661	B1
2638	D 6	6662	D1
2640	E 6	6663	D1
2642	E 6	6664	H1
2644	F 6	6665	M
2646	F 6	7600	I
2658	J13	7610	C
2660	C15	7611	C
2662	E15	7620	A
2664	N14	7622	J
2666	N13	7635	E1
2680	H13	7635	J1
2681	H14	7660	B1
2682	H14	7661	C1
2684	F14	7662	B1
2686	G14	7680	E1
2688	H16	7704	I1
2690	H16	7706	J1
2692	H18	7708	K1
2694	H18	7730	L1
2696	E18	7732	N1
2697	H20	9260	G1
2698	E18	9447	N 4
2699	H19	9615	D 2
2700	F19	9629	H 5
2702	G19	9641	G 2
2704	K15	9658	G 5
2706	J19	9716	H11
2707	J18	9717	H11
2714	K20		
2716	K19		
2720	N19		
2721	N18		
2726	N15		
2727	L16		
2728	N16		
2734	N20		
2736	N20		
3600	E 2		
3602	F 1		
3603	H 1		
3604	G 1		
3605	H 1		
3606	M 3		
3607	F 1		
3608	M 4		
3610	M 4		
3612	M 5		
3615	B 3		
3616	D 3		
3617	B 3		
3618	D 3		
3619	C 2		
3620	H 5		
3622	H 3		
3624	A 6		
3626	B 7		
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3630	C 7		
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3634	C 7		
3636	D 6		
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3640	E 6		
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3644	F 6		
3646	F 7		
3650	B17		
3651	B17		
3652	D17		
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3654	B18		
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3664	D14		
3665	M12		
3666	D14		
3668	N14		
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3708	J18		
3710	K18		
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3714	K20		
3720	N19		
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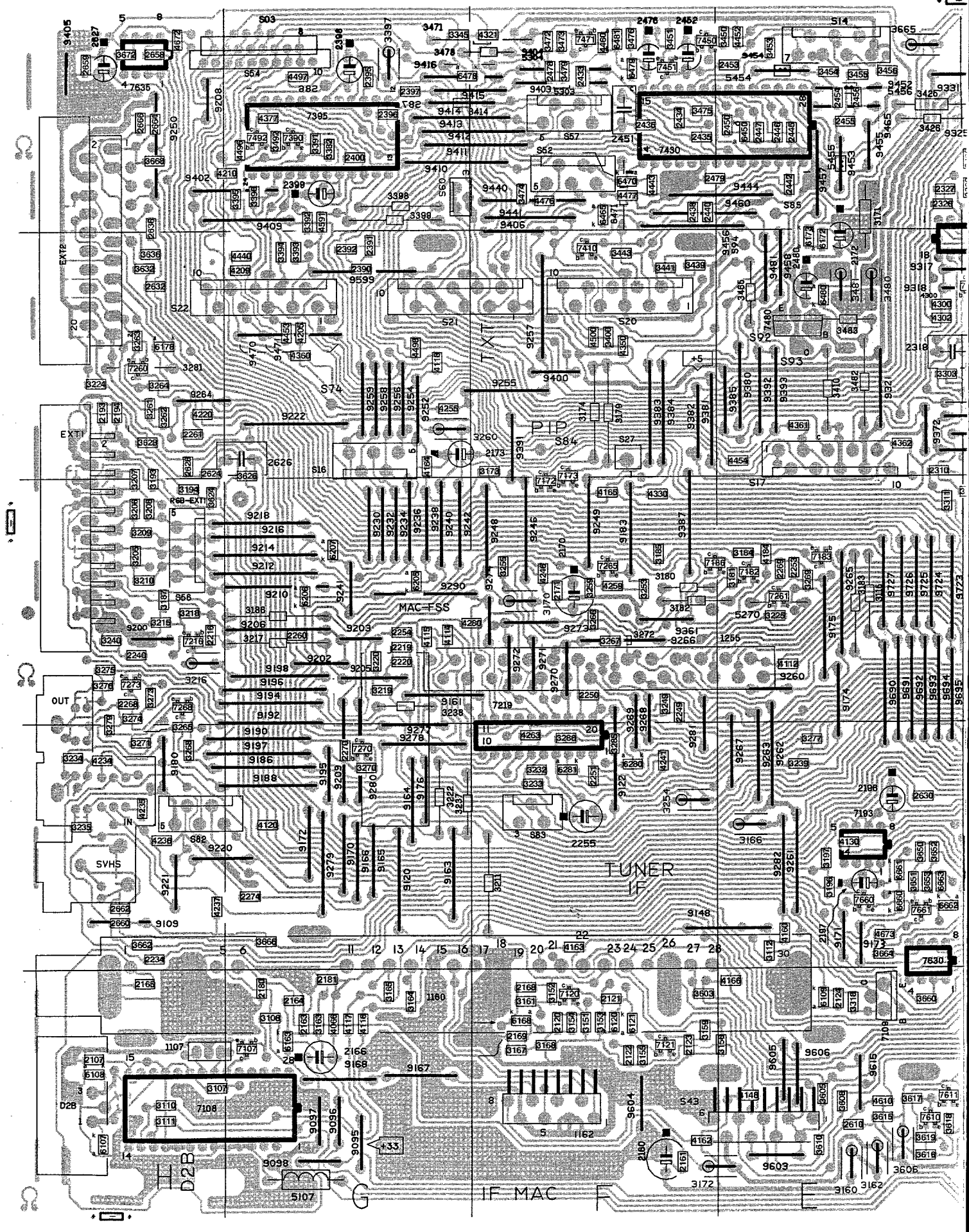
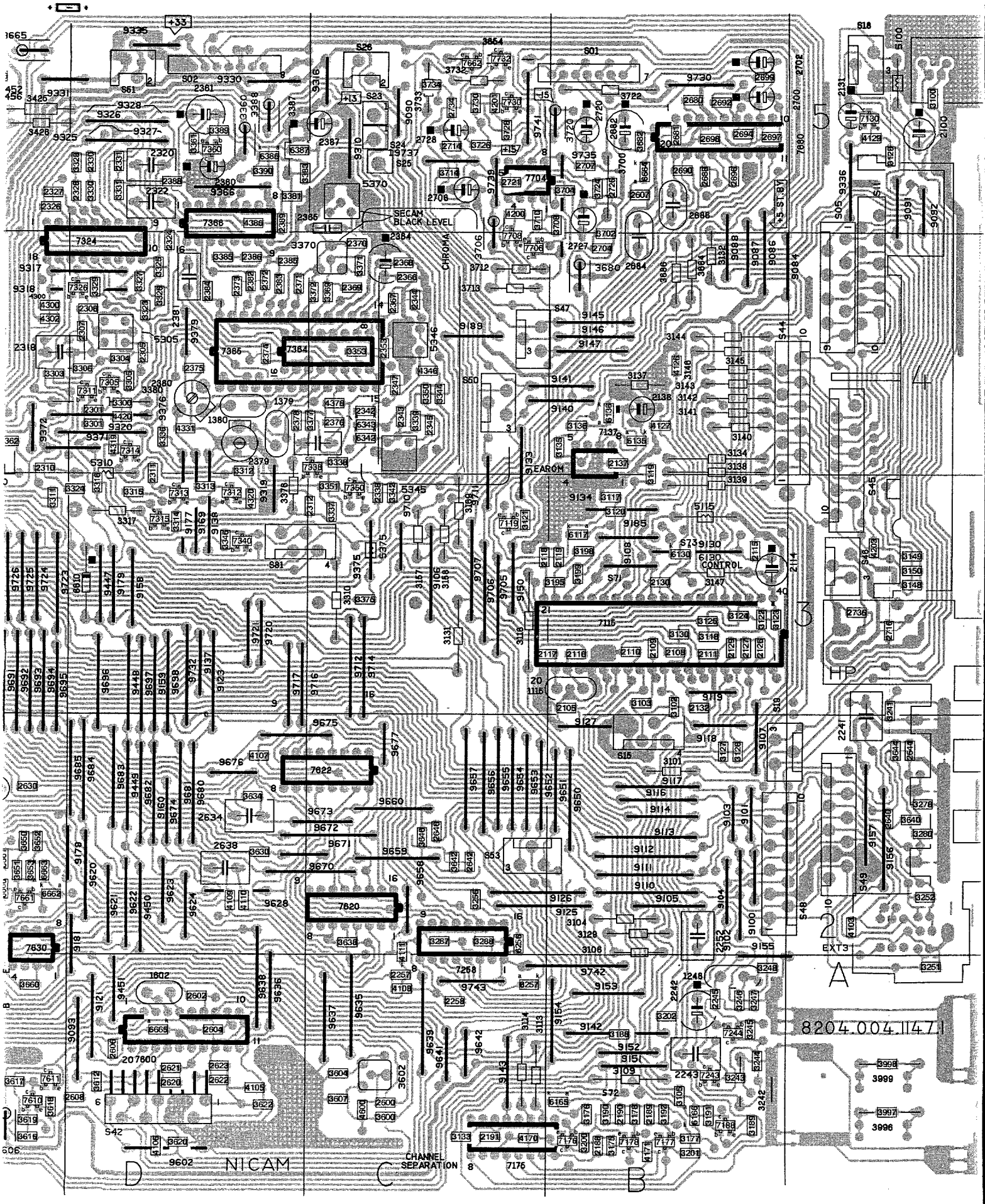
3728	M18		

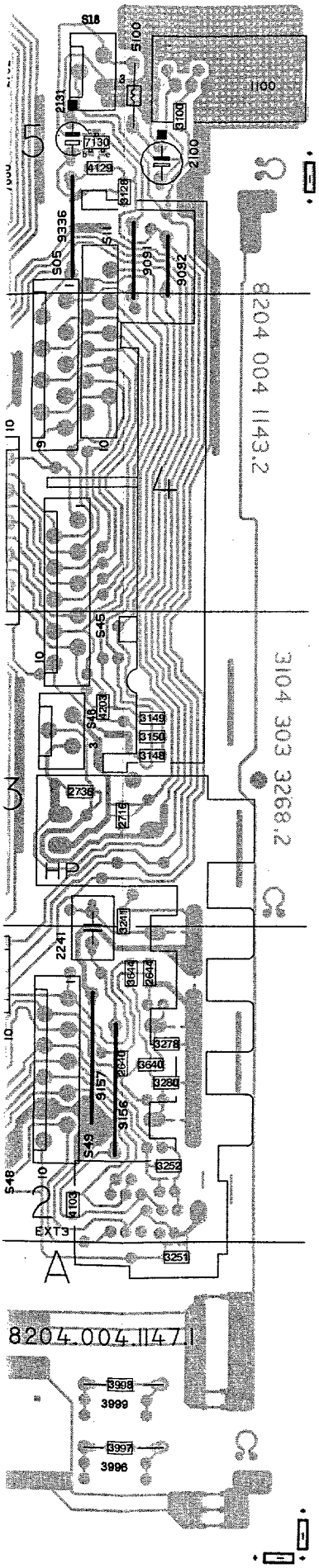
CL16532081/013.FREF 061291

Small signal panel Klein-signal Platine



Platine petits signeaux





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EXT1 H3	2172 E4	2390 G4	3100 A5	3187 H3	3305 D4	3600 C1	4148 E1	6168 F1	7611 E1	9173 E2	9328 D5	9670 C2
EXT2 H4	2173 G4	2391 G4	3101 B2	3188 B1	3306 D4	3602 C1	4160 E2	6172 E4	7620 C2	9174 E3	9330 D5	9671 D2
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S01 B5	2181 G1	2395 G5	3103 B3	3190 B1	3311 E3	3604 C1	4163 F2	6178 H4	7630 E1	9176 G2	9335 D5	9673 C2
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2160 F1	2380 D4	2707 B5	3177 B1	3280 A2	3475 F5	4114 G3	6109 E1	7395 G5	9163 G2	9310 C5	9651 B2	
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2163 G1	2382 D4	2716 A3	3179 F4	3285 F2	3477 F5	4116 G1	6120 F1	7430 E5	9165 G2	9317 D4	9653 C2	
2164 G1	2383 D4	2720 B5	3180 F3	3286 F2	3478 F5	4117 G1	6121 F1	7450 F5	9166 G2	9318 D4	9654 C2	
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2166 G1	2385 D4	2726 B5	3182 F3	3288 C2	3480 E4	4120 G2	6135 B4	7471 F5	9168 G1	9320 D4	9656 C2	
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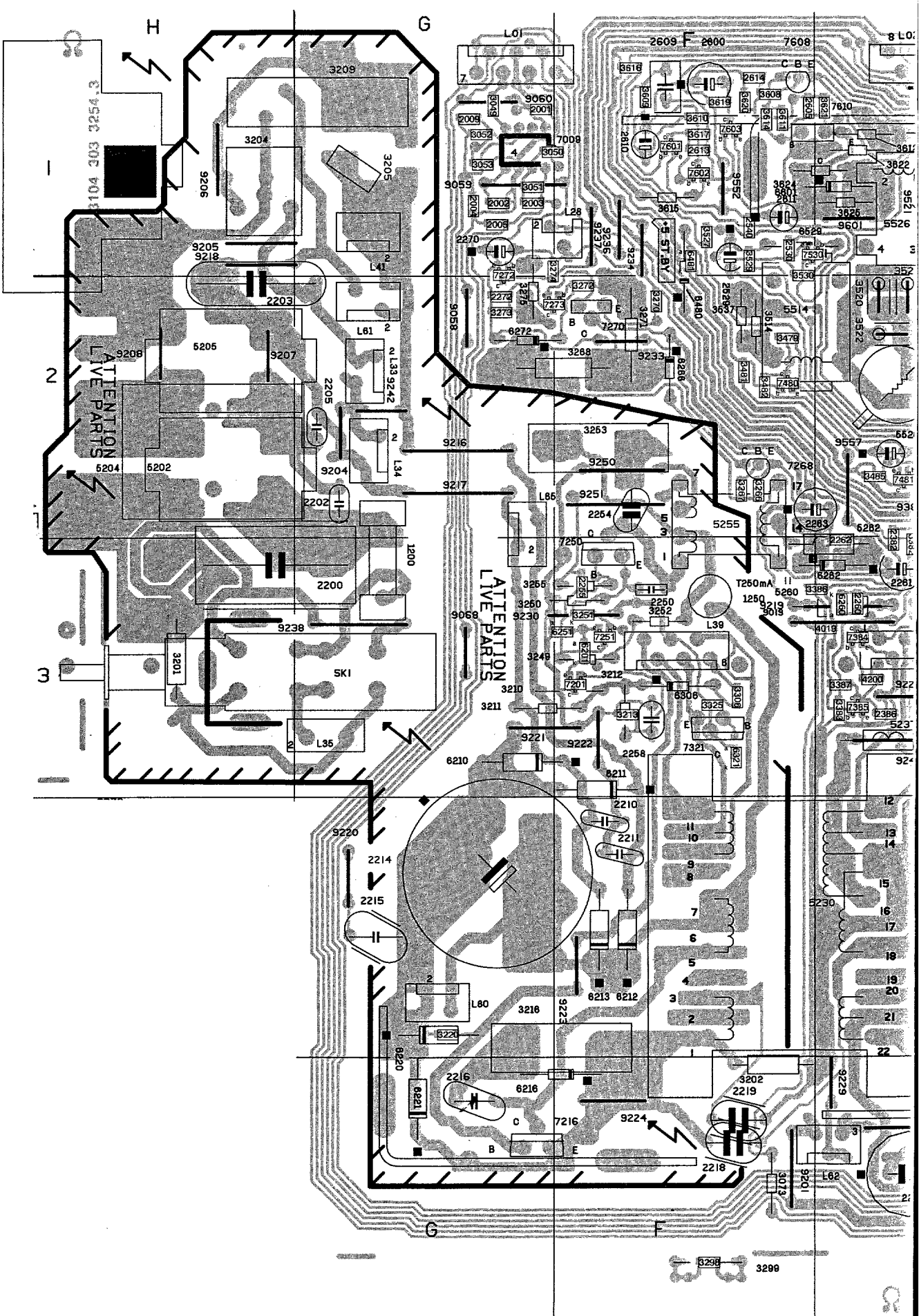
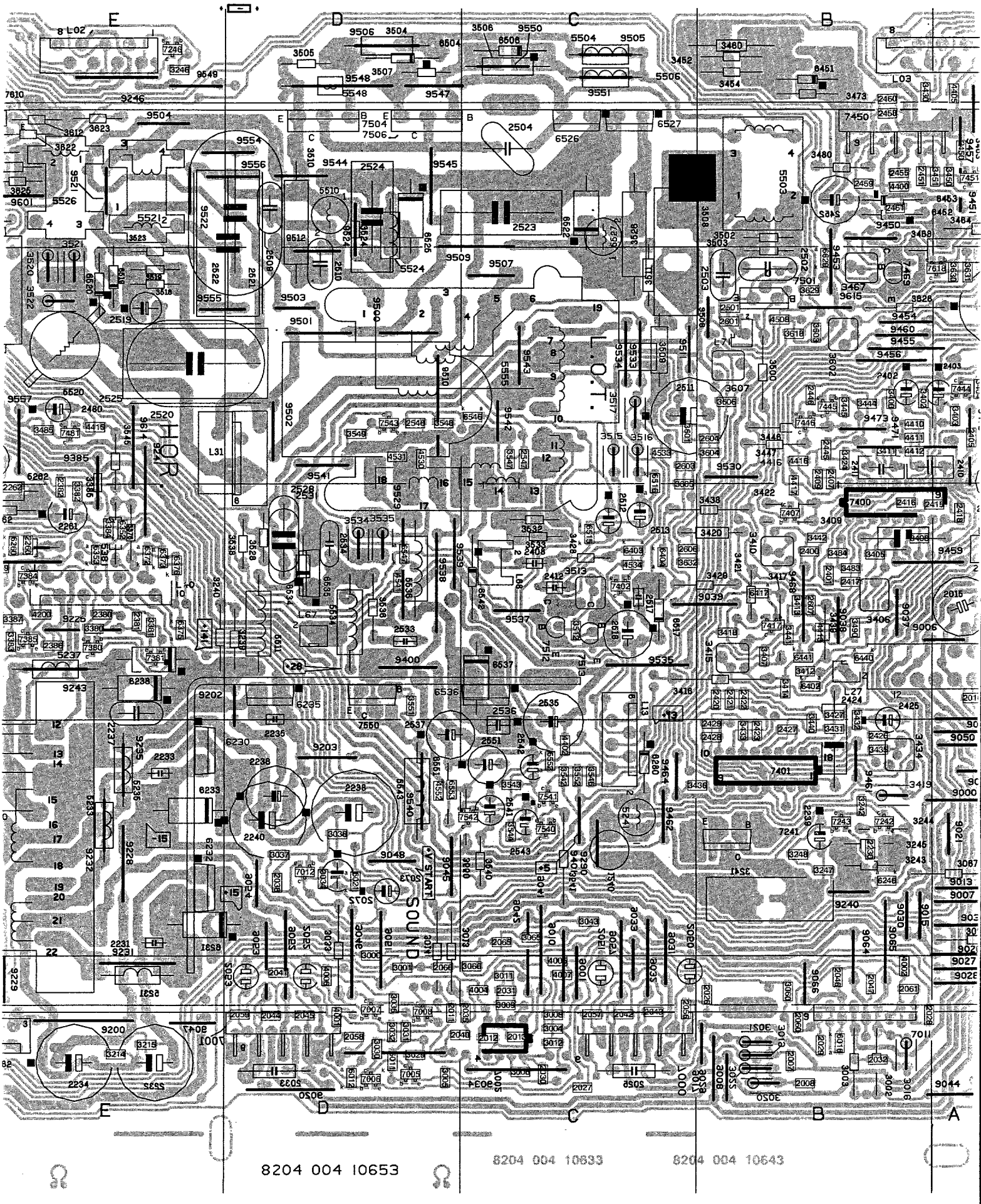
2170 F3	2388 D5	2734 C5	3185 F3	3303 E4	3483 E4	4129 A5	6165 B1	7600 D1	9171 E2	9326 D5	9659 C2	

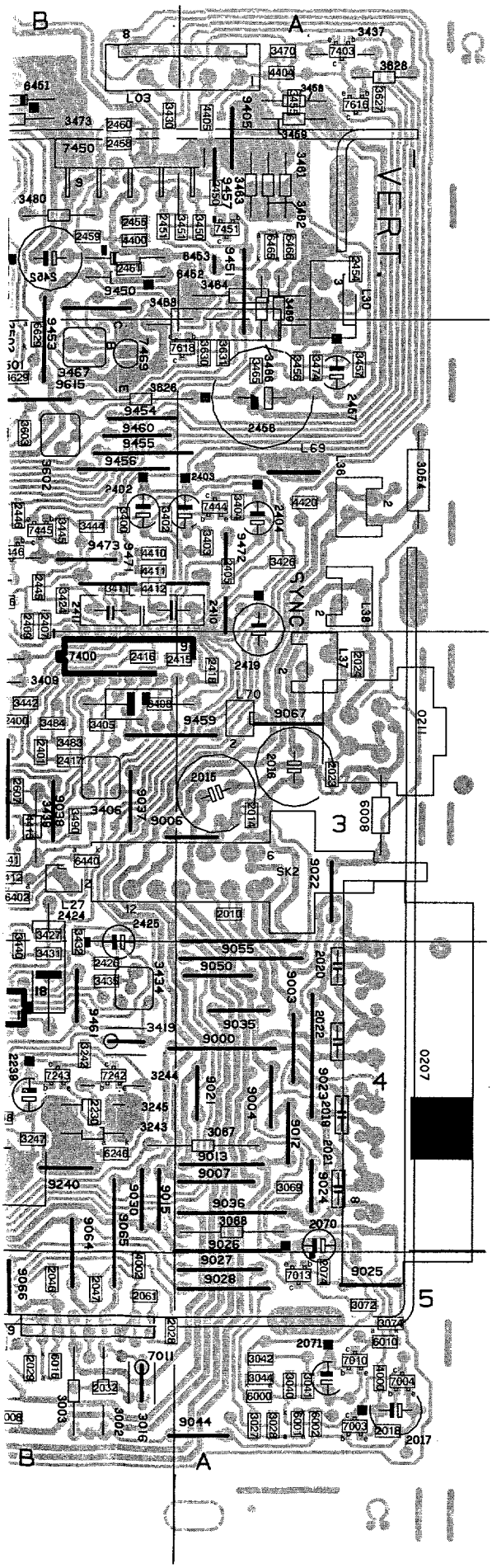
Large signal panel

Groß-signal Platine



Platine forts signaux





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L02 E1	2232 E5	2536 C4	3270 F2	3455 A1	3629 B2	6318 H5	7445 B2	9229 E5
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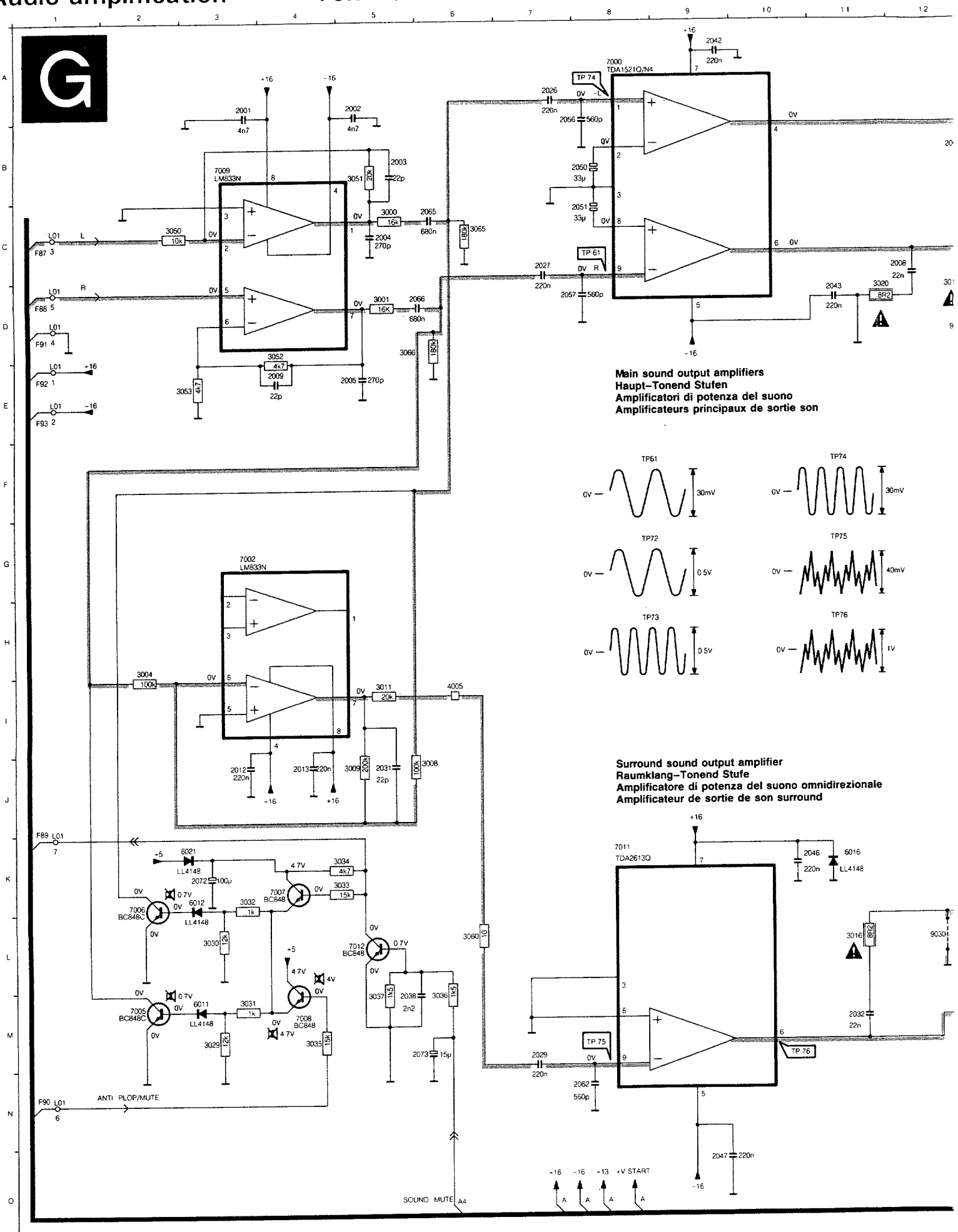
Audio amplification Ton Verstärker

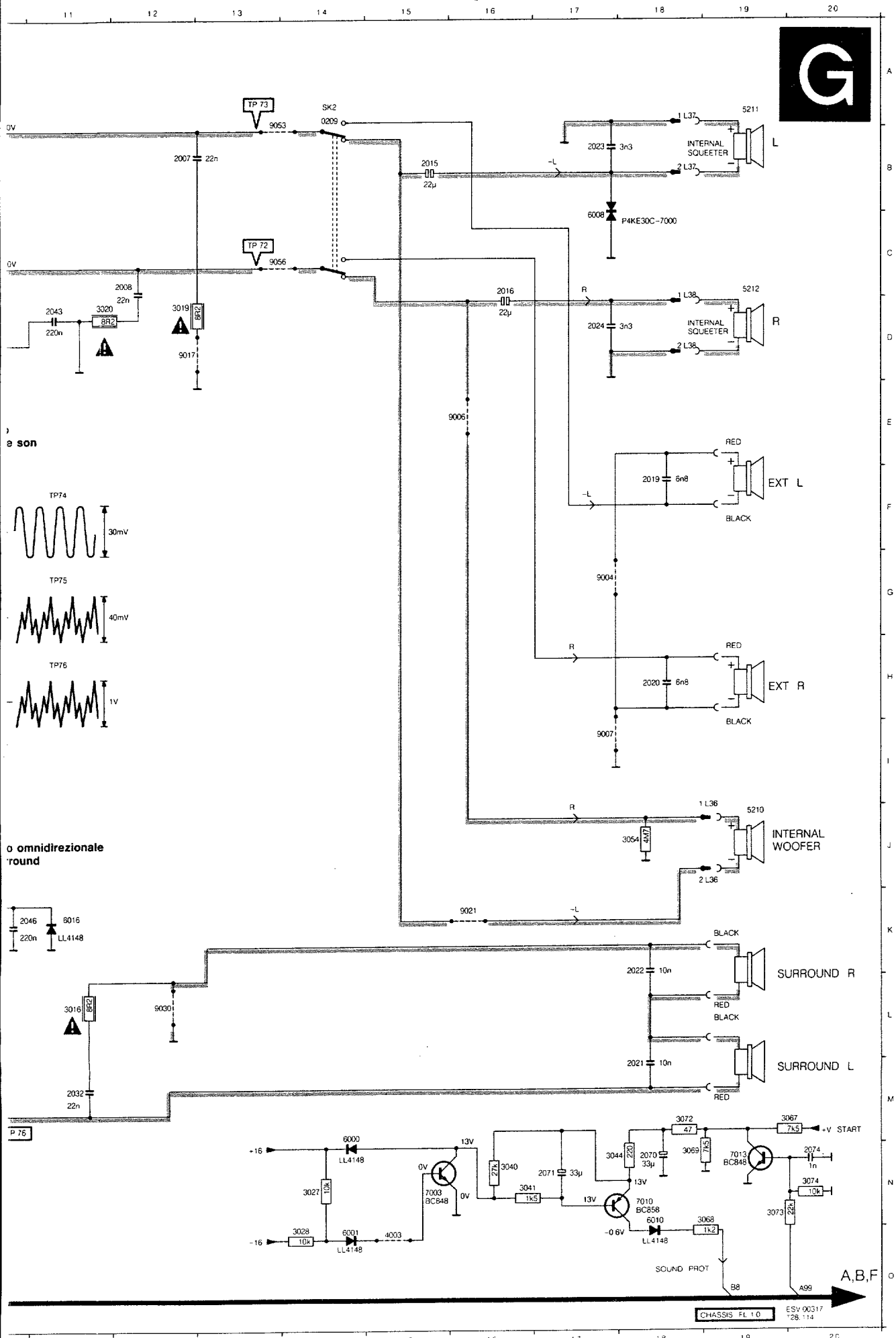
G



Main sound output amplifiers
Haupt–Tonend Stufen
Amplificatori di potenza del suono
Amplificateurs principaux de sortie son

Surround sound output amplifier
Raumklang–Tonend Stufe
Amplificatore di potenza del suono omnidirezionale
Amplificateur de sortie de son surround

Amplification final audio



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2019 F18
2020 H18
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2029 M7
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2074 N20
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3019 D12
3020 D11
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3066 D5
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6000 M14
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6008 C17
6010 N18
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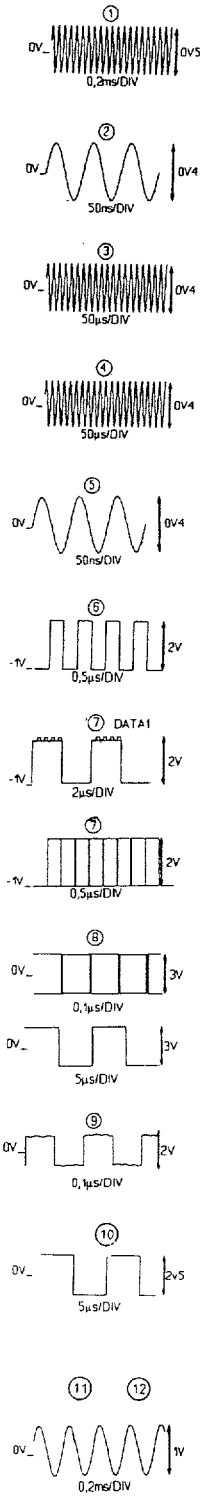
ECO NICAM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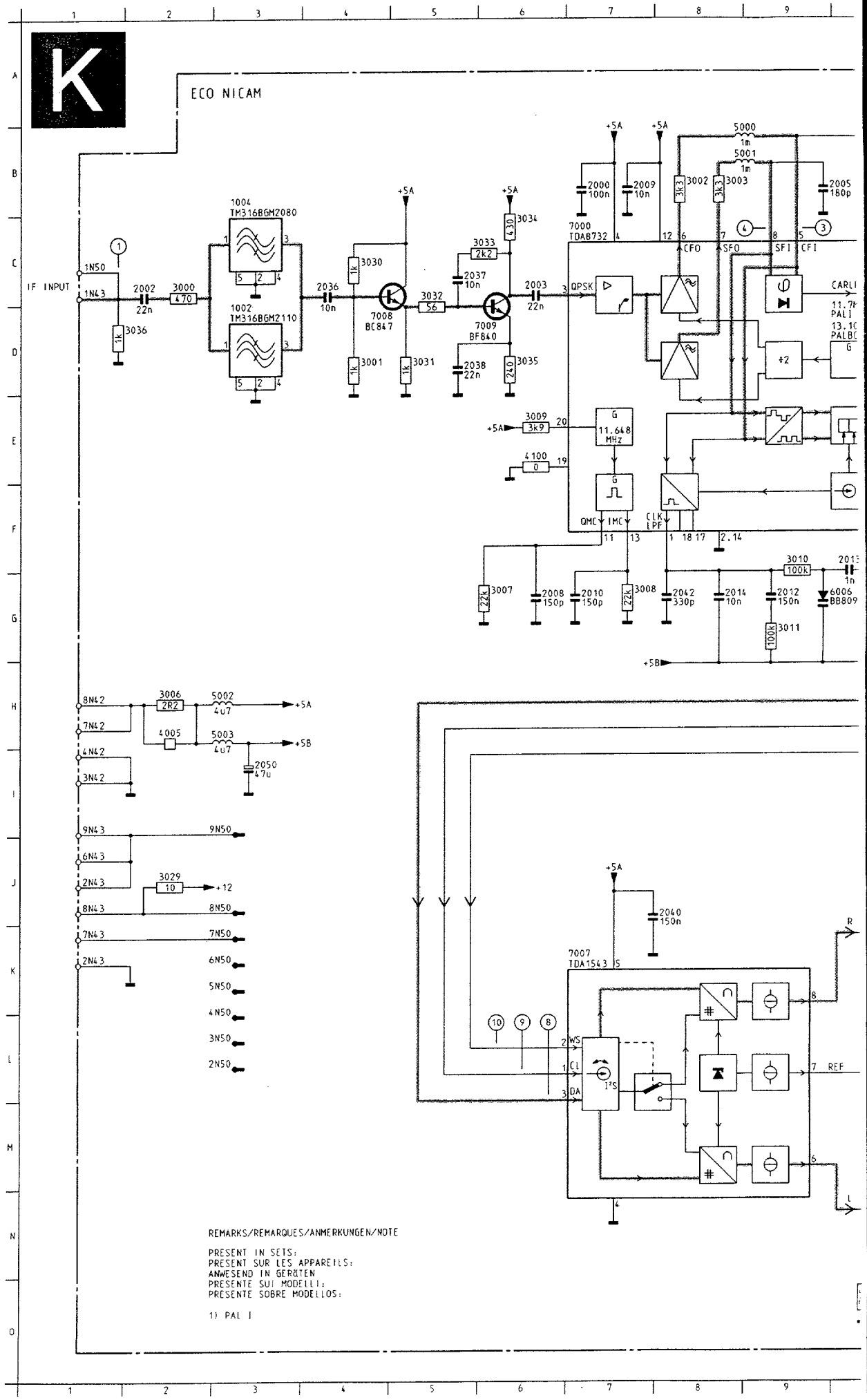
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1002 TM316BGM2110
2036 10n
3030 1k
3001 1k
3031 1k
7008 BC847
3032 56
3033 2k2
3034 430
2037 10n
2038 22n
3035 240
7009 BF840
2003 22n
QPSK
7000 TDA8732
2000 100n
2009 10n
3002 3k3
3003 3k3
5000 1m
5001 1m
2005 180p
CFO SFO SFI CFI
CARLI
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13.1C PALBG
÷2
3009 3k9
4100 0
G 11.648 MHz
QMC IMC CLK LPF
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2008 150p
2010 150p
3008 22k
2042 330p
2014 10n
2012 150n
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3011 100k
2013 1n
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8N42
7N42
4N42
3N42
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2N50
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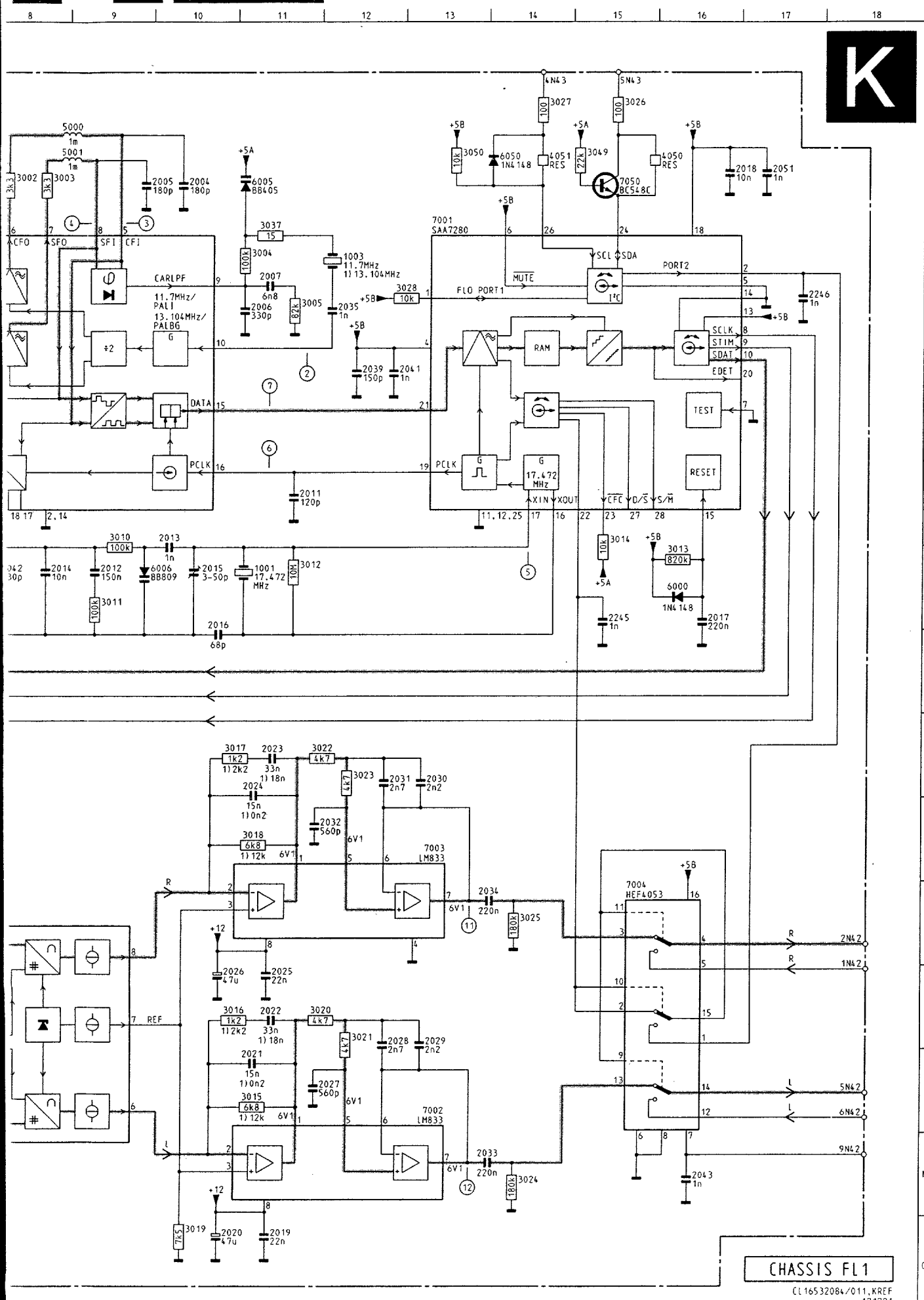
WS CL DA I²S
REF
REMARKS/REMARQUES/ANMERKUNGEN/NOTE
PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:
1) PAL I



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	1003	C12
	1004	B 3
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	2002	C 2
	2003	C 6
	2004	B10
	2005	B 9
	2006	D11
	2007	C11
	2008	G 6
B	2009	B 7
	2010	G 7
	2011	F11
	2012	G 9
	2013	F10
	2014	G 8
	2015	G10
	2016	G10
C	2017	G16
	2018	B16
	2019	O11
	2020	O10
	2021	M11
	2022	L11
	2023	I11
D	2024	I11
	2025	L11
	2026	L10
	2027	M12
	2028	L12
	2029	L13
	2030	I13
	2031	I12
E	2032	J12
	2033	N14
	2034	K14
	2035	D12
	2036	C 4
	2037	C 5
	2038	D 5
F	2039	D12
	2040	J 8
	2041	D12
	2042	G 8
	2043	N16
	2050	I 3
	2051	B17
	2245	G15
G	2246	D17
	3000	C 2
	3001	D 4
	3002	B 8
	3003	B 8
	3004	C11
	3005	D11
H	3006	H 2
	3007	G 6
	3008	G 7
	3009	E 6
	3010	F 9
	3011	G 9
	3012	G11
	3013	G16
I	3014	F15
	3015	M11
	3016	L10
	3017	I10
	3018	J11
	3019	O10
	3020	L12
J	3021	L12
	3022	I12
	3023	I12
	3024	N14
	3025	K14
	3026	A15
	3027	A14
	3028	C13
K	3029	J 2
	3030	C 4
	3031	D 5
	3032	C 5
	3033	C 6
	3034	C 6
	3035	D 6
	3036	D 1
L	3037	C11
	3049	B15
	3050	B13
	4005	H 2
	4050	B16
	4051	B14
	4100	E 6
M	5000	B 9
	5001	B 9
	5002	H 3
	5003	H 3
	6000	G16
	6005	B11
	6006	G 9
	6050	B14
N	7000	C 7
	7001	C13
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	7008	D 5
	7009	D 6
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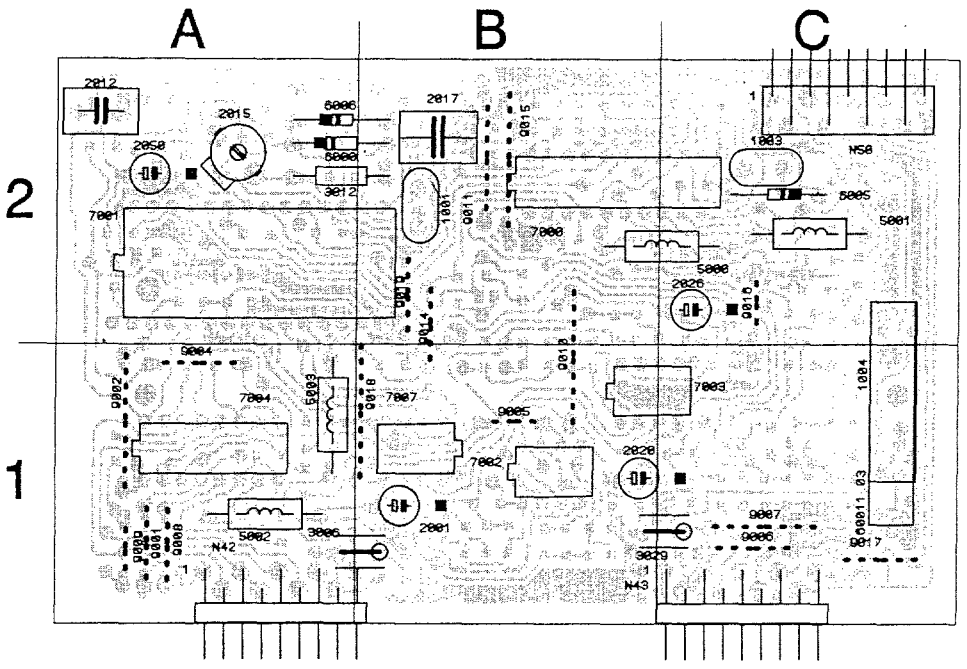

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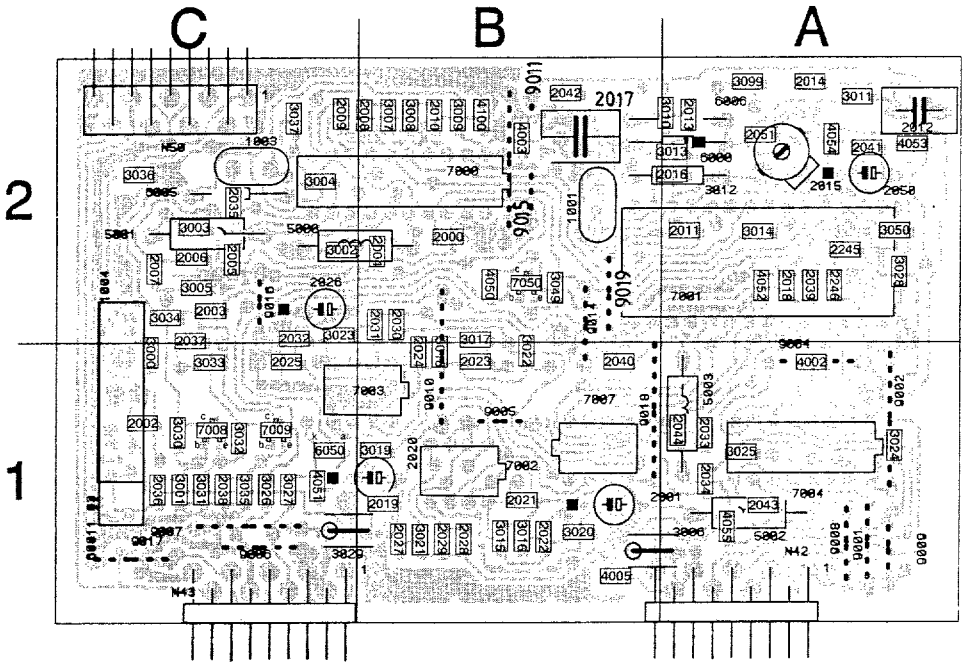
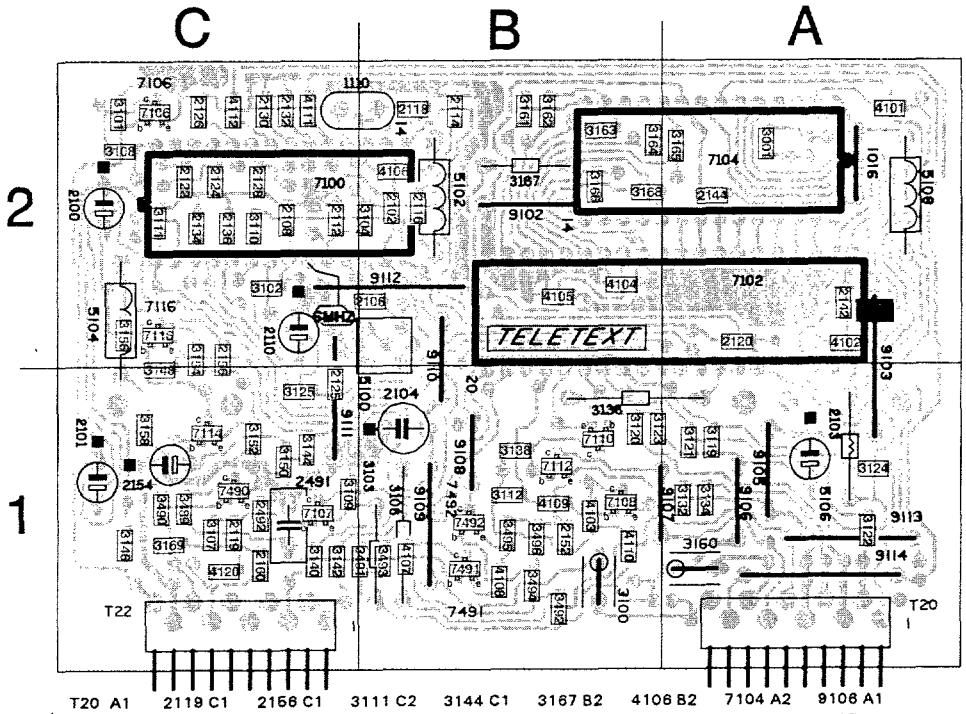
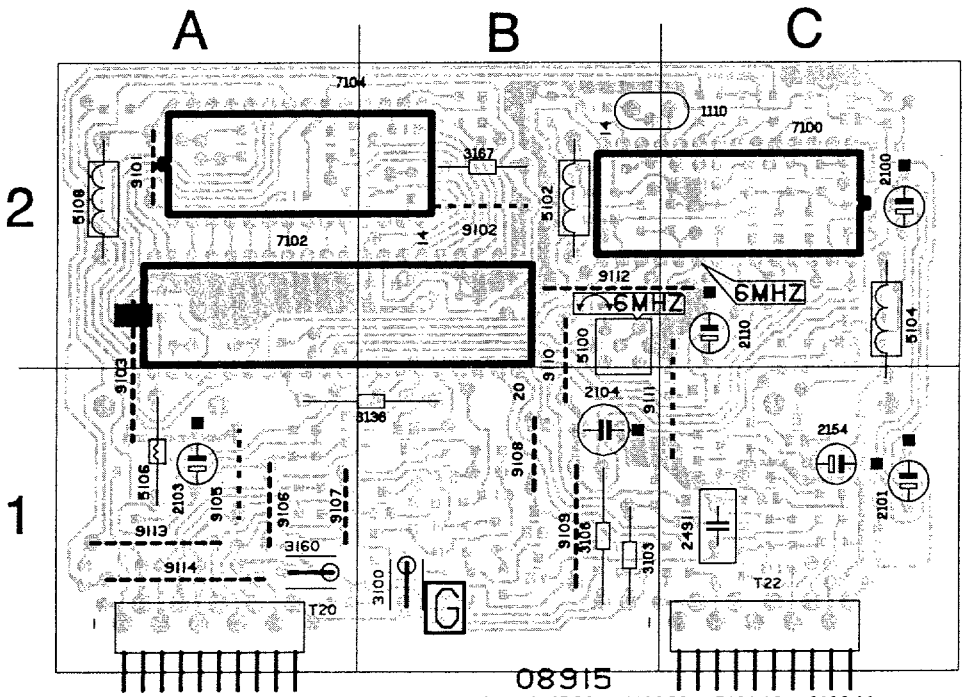
N50 C2	2012 A2	2028 B1	2044 A1	3010 A2	3026 C1	4003 B2	6005 C2	9006 C1
1001 B2	2013 A2	2029 B1	2050 A2	3011 A2	3027 C1	4005 B1	6006 A2	9007 C1
1003 C2	2014 A2	2030 B2	2051 A2	3012 A2	3028 A2	4050 B2	6050 C1	9008 A1
1004 C1	2015 A2	2031 B2	2245 A2	3013 A2	3029 C1	4051 C1	7000 B2	9009 A1
2000 B2	2016 A2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



N42 A1	2010 B2	2026 C2	2042 B2	3009 B2	3024 A1	3099 A2	6000 A2	9004 A1
N43 C1	2011 A2	2027 B1	2043 A1	3009 B2	3025 A1	4002 A1	6001 C1	9005 B1
N50 C2	2012 A2	2028 B1	2044 A1	3010 A2	3026 C1	4003 B2	6005 C2	9006 C1
1001 B2	2013 A2	2029 B1	2050 A2	3011 A2	3027 C1	4005 B1	6006 A2	9007 C1
1003 C2	2014 A2	2030 B2	2051 A2	3012 A2	3028 A2	4050 B2	6050 C1	9008 A1
1004 C1	2015 A2	2031 B2	2245 A2	3013 A2	3029 C1	4051 C1	7000 B2	9009 A1
2000 B2	2016 A2	2032 C2	2246 A2	3014 A2	3030 C1	4052 A2	7001 A2	9010 B1
2001 B1	2017 B2	2033 A1	3000 C1	3015 B1	3031 C1	4053 A2	7002 B1	9011 B2
2002 C1	2018 A2	2034 A1	3001 C1	3016 B1	3032 C1	4054 A2	7003 B1	9014 B2
2003 C2	2019 B1	2035 C2	3002 C2	3017 B1	3033 C1	4055 A1	7004 A1	9015 B2
2004 B2	2020 B1	2036 C1	3003 C2	3018 B1	3034 C2	4100 B2	7007 B1	9016 C2
2005 C2	2021 B1	2037 C1	3004 C2	3019 B1	3035 C1	4100 B2	7008 C1	9017 C1
2006 C2	2022 B1	2038 C1	3005 C2	3020 B1	3036 C2	5000 C2	7009 C1	9018 B1
2007 C2	2023 B1	2039 A2	3006 B1	3021 B1	3037 C2	5001 C2	7050 B2	9019 B2
2008 B2	2024 B1	2040 B1	3007 B2	3022 B1	3049 B2	5002 A1	9001 A1	
2009 C2	2025 C1	2041 A2	3008 B2	3023 C2	3050 A2	5003 A1	9002 A1	



T20 A1	2119 C1	2156 C1	3111 C2	3144 C1	3167 B2	4106 B2	7104 A2	9106 A1
T22 C1	2120 A1	2160 C1	3112 B1	3146 C1	3168 B2	4107 B1	7106 C2	9107 A1
1110 C2	2122 C2	2491 C1	3119 A1	3148 C1	3169 C1	4108 B1	7107 C1	9108 B1
2100 C2	2124 C2	2492 C1	3120 B1	3150 C1	3489 C1	4109 B1	7108 B1	9109 B1
2101 C1	2125 C1	3001 A2	3121 A1	3152 C1	3490 C1	4110 B1	7110 B1	9110 B1
2102 B2	2126 C2	3100 B1	3122 A1	3154 C1	3491 B1	4111 C2	7112 B1	9111 C1
2103 A1	2128 C2	3101 C2	3123 B1	3156 C2	3493 B1	4112 C2	7114 C1	9112 B2
2104 B1	2130 C2	3102 C2	3124 A1	3158 C1	3494 B1	4120 C1	7116 C2	9113 A1
2106 B2	2132 C2	3103 B1	3125 C1	3160 A1	3495 B1	5100 B2	7490 C1	9114 A1
2108 C2	2134 C2	3104 B2	3132 A1	3161 B2	3496 B1	5102 B2	7491 B1	
2110 C2	2136 C2	3106 B1	3134 A1	3162 B2	4101 A2	5104 C2	7492 B1	
2112 C2	2142 A2	3107 C1	3136 B1	3163 B2	4102 A1	5106 A1	9101 A2	
2114 B2	2144 A2	3108 C2	3138 B1	3164 B2	4103 B1	5108 A2	9102 B2	
2116 B2	2152 B1	3109 C1	3140 C1	3165 A2	4104 B2	7100 C2	9103 A1	
2118 B2	2154 C1	3110 C2	3142 C1	3166 B2	4105 B2	7102 A1	9105 A1	



T20 A1	2119 C1	2156 C1	3111 C2	3144 C1	3167 B2	4106 B2	7104 A2	9106 A1
T22 C1	2120 A1	2160 C1	3112 B1	3146 C1	3168 B2	4107 B1	7106 C2	9107 A1
1110 C2	2122 C2	2491 C1	3119 A1	3148 C1	3169 C1	4108 B1	7107 C1	9108 B1
2100 C2	2124 C2	2492 C1	3120 B1	3150 C1	3489 C1	4109 B1	7108 B1	9109 B1
2101 C1	2125 C1	3001 A2	3121 A1	3152 C1	3490 C1	4110 B1	7110 B1	9110 B1
2102 B2	2126 C2	3100 B1	3122 A1	3154 C1	3491 B1	4111 C2	7112 B1	9111 C1
2103 A1	2128 C2	3101 C2	3123 B1	3156 C2	3493 B1	4112 C2	7114 C1	9112 B2
2104 B1	2130 C2	3102 C2	3124 A1	3158 C1	3494 B1	4120 C1	7116 C2	9113 A1
2106 B2	2132 C2	3103 B1	3125 C1	3160 A1	3495 B1	5100 B2	7490 C1	9114 A1
2108 C2	2134 C2	3104 B2	3132 A1	3161 B2	3496 B1	5102 B2	7491 B1	
2110 C2	2136 C2	3106 B1	3134 A1	3162 B2	4101 A2	5104 C2	7492 B1	
2112 C2	2142 A2	3107 C1	3136 B1	3163 B2	4102 A1	5106 A1	9101 A2	
2114 B2	2144 A2	3108 C2	3138 B1	3164 B2	4103 B1	5108 A2	9102 B2	
2116 B2	2152 B1	3109 C1	3140 C1	3165 A2	4104 B2	7100 C2	9103 A1	
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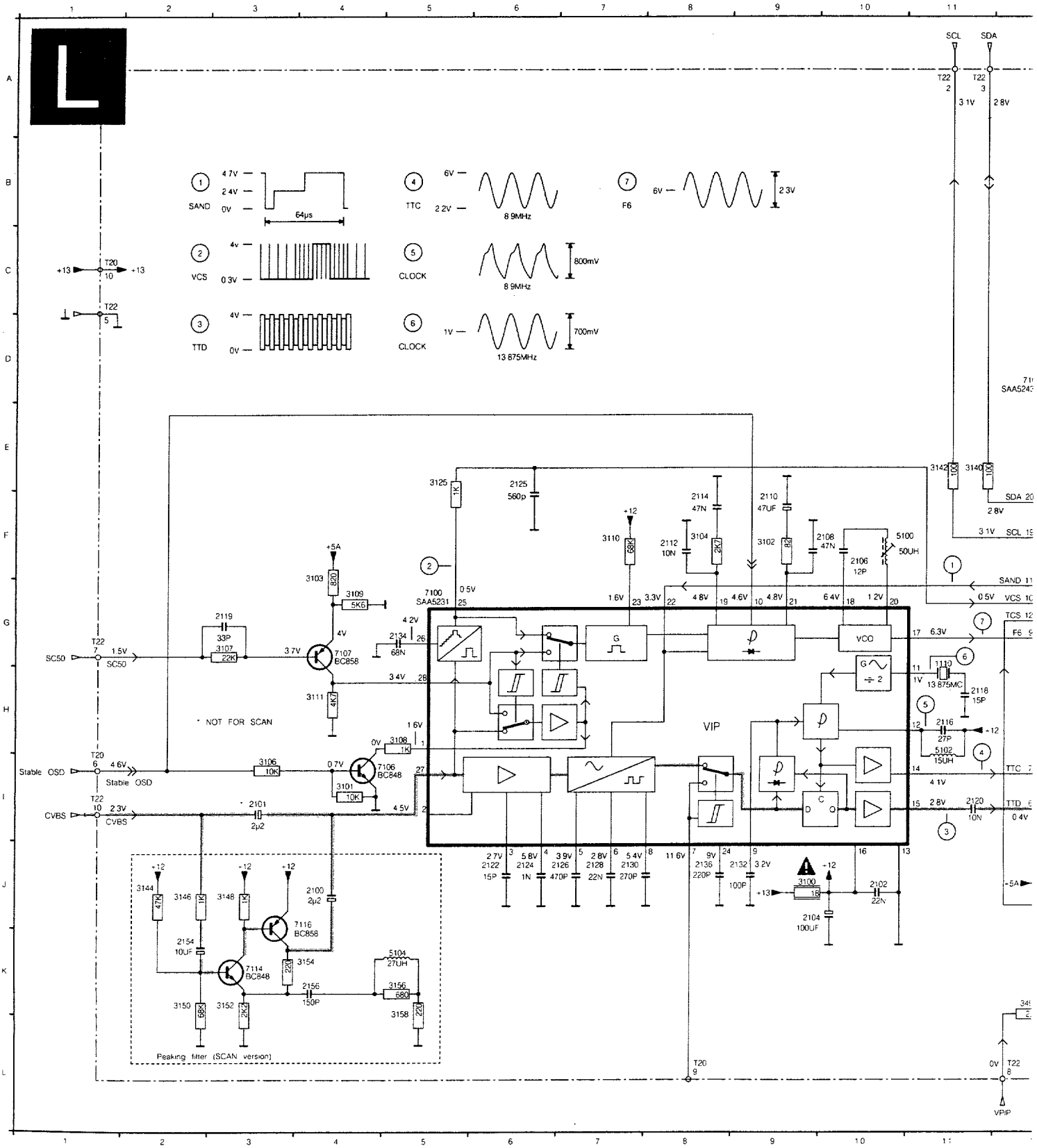
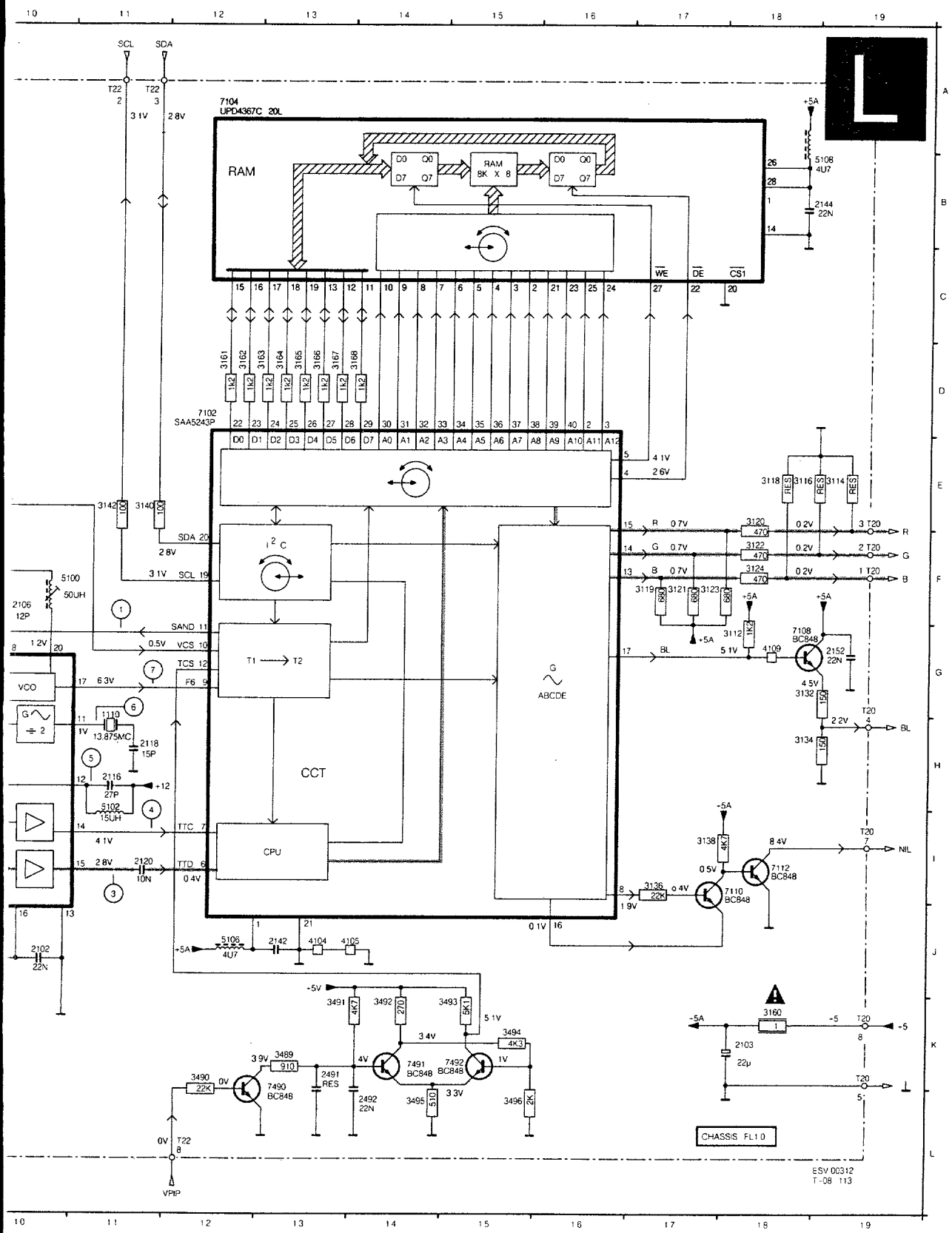

SAND
TTC
F6
VCS
CLOCK
CLOCK
TTD
64µs
8.9MHz
8.9MHz
13.875MHz
800mV
700mV
23V
SCL
SDA
7100
SAA5231
VIP
VCO
* NOT FOR SCAN
Stable OSD
CVBS
SC50
Peaking filter (SCAN version)
7106
BC848
7107
BC858
7114
BC848
7116
BC858
13.875MC
VPIP



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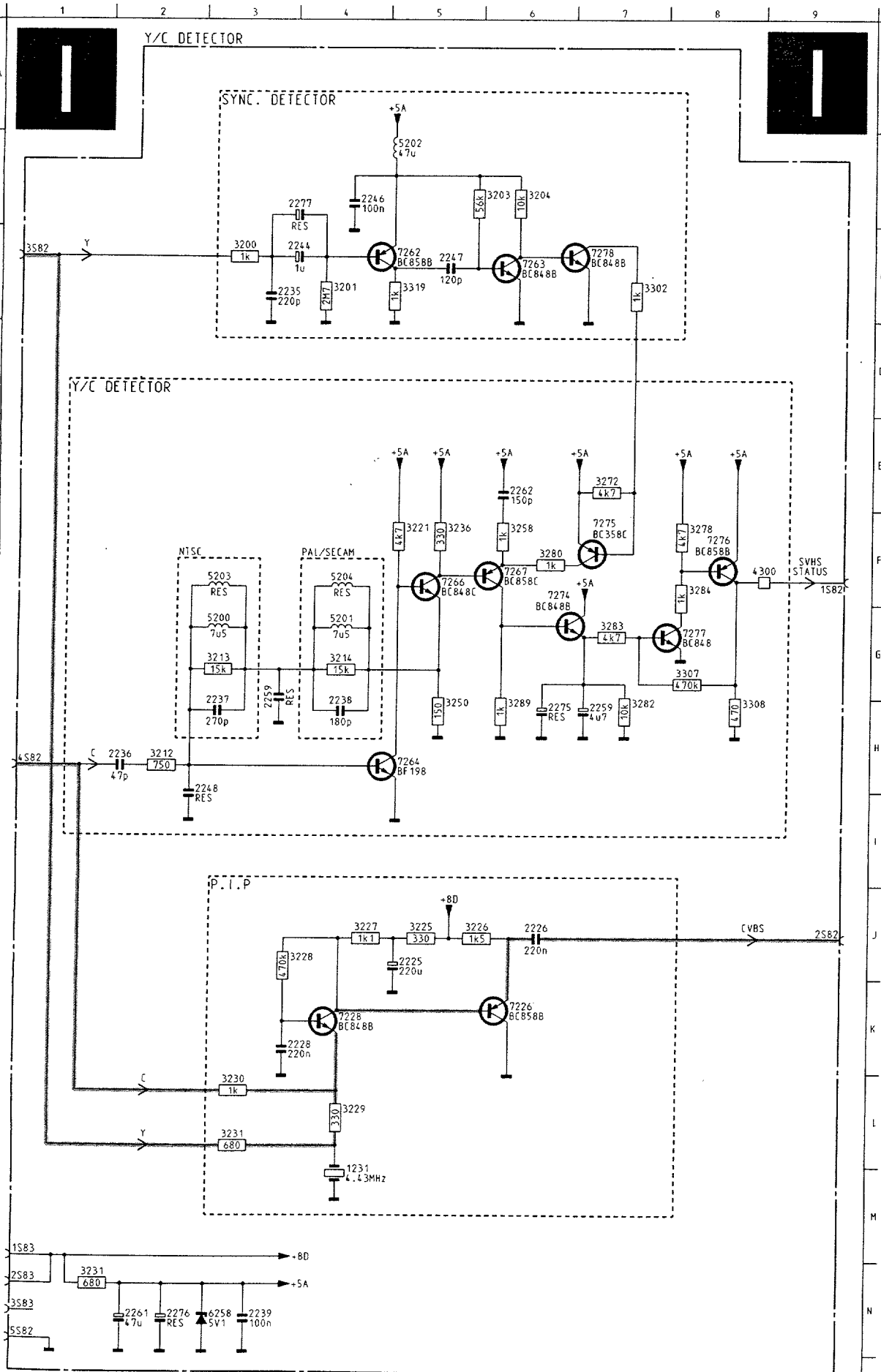
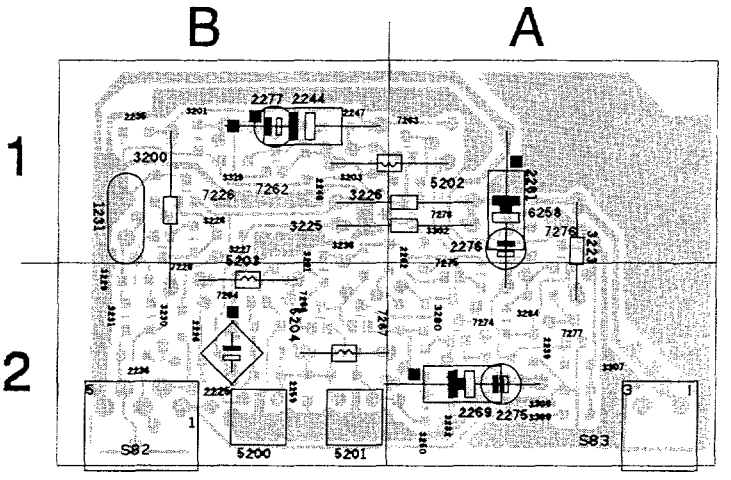
2100 J4
2101 I3
2102 J10
2103 K18
2104 J9
2106 F10
2108 F10
2110 F9
2112 F8
2114 F8
2116 H11
2118 H11
2119 G3
2120 I11
2122 J6
2124 J6
2125 E6
2126 J7
2128 J7
2130 J7
2132 J9
2134 G5
2136 J8
2142 J13
2144 B19
2152 G19
2154 K2
2156 K4
2491 K13
2492 L14
3100 J9
3101 I4
3102 F9
3103 F4
3104 F8
3106 I3
3107 G3
3108 H5
3109 G4
3110 F7
3111 H4
3112 G18
3114 E19
3116 E18
3118 E18
3119 F17
3120 E18
3121 F17
3122 F18
3123 F17
3124 F18
3125 E5
3132 G18
3134 H18
3136 I17
3138 I17
3140 E11
3142 E11
3144 J2
3146 J2
3148 J3
3150 K2
3152 K3
3154 K4
3156 K5
3158 L5
3160 K18
3161 D12
3162 D12
3163 D13
3164 D13
3165 D13
3166 D13
3167 D13
3168 D14
3489 K13
3490 K12
3491 K13
3492 K14
3493 K15
3494 K15
3495 L14
3496 L15
4104 J13
4105 J14
4109 G18
5100 F10
5102 I11
5104 K5
5106 J12
5108 A19
7100 G5
7102 D12
7104 A12
7106 I4
7107 G4
7108 G18
7110 I18
7112 I18
7114 K3
7116 J4
7490 K13
7491 K14
7492 K15



1231 M 4
2225 J 5
2226 J 6
2228 K 3
2235 C 3
2236 H 2
2237 H 3
2238 H 4
2239 N 3
2244 C 4
2246 B 4
2247 C 5
2248 I 2
2259 G 3
2259 H 7
2261 N 2
2262 E 6
2275 H 6
2276 N 2
2277 B 4
3200 C 3
3201 C 4
3203 B 5
3204 B 6
3212 H 2
3213 G 3
3214 G 4
3221 F 5
3225 J 5
3226 J 5
3227 J 4
3228 J 4
3229 L 4
3230 L 3
3231 L 3
3231 N 1
3236 F 5
3250 G 5
3258 F 6
3272 E 7
3278 F 8
3280 F 6
3282 G 7
3283 G 7
3284 F 8
3289 G 6
3302 C 7
3307 G 8
3308 G 8
3319 C 5
4300 F 9
5200 G 3
5201 G 4
5202 B 5
5203 F 3
5204 F 4
6258 N 3
7226 K 6
7228 K 4
7262 C 5
7263 C 6
7264 H 5
7266 F 5
7267 F 6
7274 F 6
7275 F 7
7276 F 8
7277 G 8
7278 C 7

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



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

Electrical adjustments

Setting conditions

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

1 Electrical settings on the large signal panel

1.1 +141V supply voltage
Supply the mains voltage; this must be isolated from the mains.
Connect a voltmeter over C2238.
Using R3371, on the SOPS DRIVE CIRCUIT (fig. 7.2) set the supply voltage to + 141V ± 0.5V.

1.2 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 ± 2V.

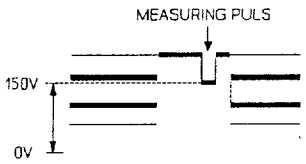


Fig. 7.1

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 ± 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.

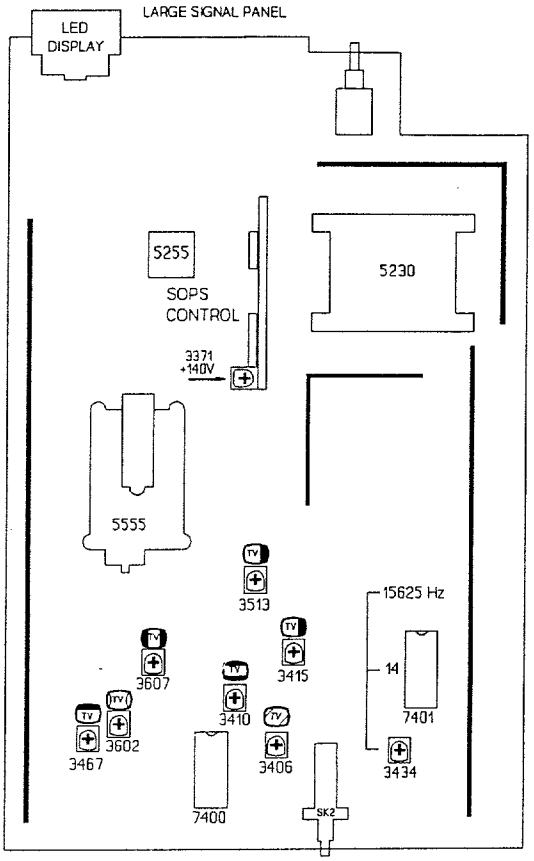


Fig. 7.2

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.

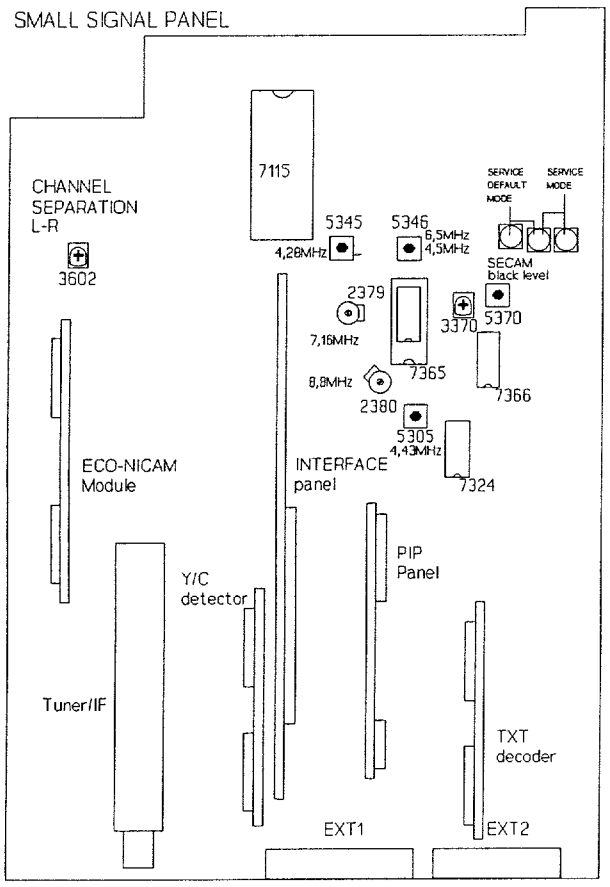


Fig. 7.3

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.

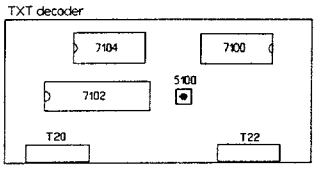


Fig. 7.4

4 Electrical settings on the ECO-NICAM decoder panel

4.1 Neutral frequency adjustment
Connect a frequency counter via a probe (Ci ≤15pF) to pin 19 of IC7001 (SAA 7280) and pin 15 (GND). Adjust C2015 in such a manner that the clock frequency is set at 728.025 kHz. (± 5Hz)

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 Hz ± 25 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 MHz/0.2Vpp.
Connect an oscilloscope to pin 9-IC7126.
Set L5118 to maximum amplitude.

a-2 PAL chroma auxiliary oscillator
Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 11-IC7126 (TDA4510) to earth.
Set C2202 so that the colour of the PIP picture is practically still.
Remove the interconnection.

a-3 The delayline
Connect a pattern generator and supply a PAL colour bar signal. Connect the X-input of the oscilloscope to pin 1-IC7126 (TDA4510). Connect the Y-input of the oscilloscope to 2-IC7126 (TDA4510). Set the oscilloscope to the X-Y position.
Set L5155 and L5157 so that the vectors lie in one line (points which are furthest from the origin).
Set the pattern generator to the "DEM" mode.
Set R3157 so that the vectors lie on top of one another in the origin.

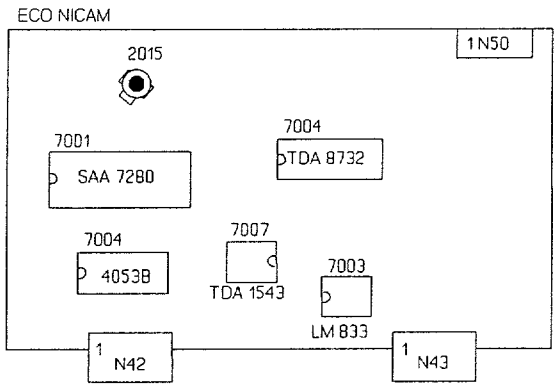


Fig. 7.6

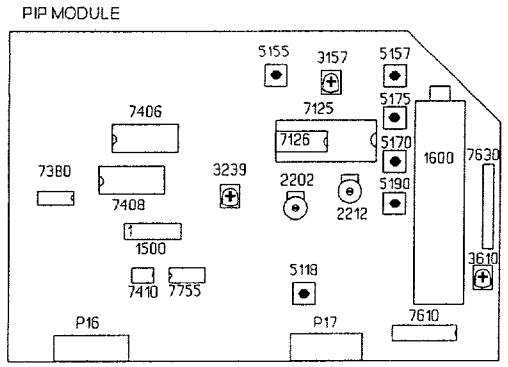


Fig. 7.7

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 MHz/0.2 Vpp.
Connect pin 27-IC7125 to 13-IC7125. Connect an oscilloscope to pin 15-IC7125.
Set L5118 to maximum amplitude.
Remove the interconnection.

b-2 PAL chroma auxiliary oscillator
Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 17-IC7125 (TDA4554) to earth.
Set C2202 so that the colour of the PIP picture is practically still.
Remove the interconnection.

b-3 NTSC chroma auxiliary oscillator
Connect a pattern generator and supply an NTSC M colour bar pattern. Connect pin 17-IC7125 to earth.
Set C2212 so that the colour of the PIP picture is practically still.
Remove the interconnection.

b-4 The delay line
Connect a pattern generator and supply a PAL colour bar signal. Connect the X-input of the oscilloscope to pin 1-IC7125 (TDA4554). Connect the Y-input of the oscilloscope to pin 3-IC7125 (TDA4554). Set the oscilloscope to the X-Y position.
Set L5155 and L5157 so that the vectors lie in one line (points which are furthest from the origin).
Set the pattern generator to the "DEM" mode.
Set R3157 so that the vectors lie on top of one another in the origin.

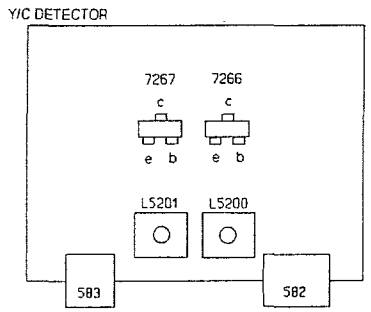
b-5 SECAM identification
Connect a pattern generator and supply a SECAM colour bar signal.
Connect pin 27-IC7125 to pin 13-IC7125.
Connect an oscilloscope to pin 21-IC7125.
Adjust L5190 to maximum DC level.
Remove the interconnection.

b-6 SECAM demodulators
Connect a pattern generator and supply a SECAM signal without contents (black). Connect pin 27-IC7125 to pin 13-IC7125. Connect an oscilloscope to pin 1-IC7125. Using L5175, set the DC level during the scan equal to the DC level during the flyback.
In the same way set L5170, but now measure at pin 3-IC7125.
Remove the interconnection.

6 Y/C detector adjustment

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

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



7 Adjustments in the service menu

Switch in the service menu by connecting pins S23 and S24 on the small-signal panel briefly with each other (see section 9).
In the Service Mode the following menu appears in the picture:

	Service 1	
a	option 1	xxx
b	option 2	xxx
c	green amplifier	xx
d	blue amplifier	xx
e	service 2	

In this menu "YY-MM-DD" is the release date of the software which is present in the set. The desired adjustment can be selected with the aid of menu keys a, b or c on the remote control.
When the "PP store" key on the local keyboard is pressed, the adjusted values are stored in the memory and the Service Mode is left.

7.1 White balance

Connect a pattern generator and choose a white picture.
- Select 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.

7.2 Options

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

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

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

For example, a set has:

Function	*Number*
Front-end 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	32
	--- +
Option code 2 now becomes	**32**

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.

Optioncoc	
Nbr.	**Fun**
0	Fro A r BG
1	Fro Onl pos
2	Fro Rec nov usu
4	Fro Rec nov pos
8	PIP This Pict
16	NTS This fror
32	SEC In t DK
64	NIC In t trar opti
128	Sec In c sec disp

Optioncod	
Nbr.	**Fur**
1	IC7 Apj pre FL1
32	NIC In t NIC (se

n prepared
e with this
control unit
ated in the
code.

he possible
numbers in

the table
forms the

r

table have
forms the

r

store" key

the set has
y hardware

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 (number 32 of option code 2 must also be counted).
128	**Second front end for PIP present** In case this second front-end is present a second channel can be viewed in the PIP display.

Optioncode 2	
Nbr.	**Function**
1	**IC7175 present on SSP** Applicable in case IC7175 (PCF8574) is present on the SSP (this is the case in all FL1.0 AD sets).
32	**NICAM module present** In this case the digital sound broadcast in NICAM transmissions can also be received (see further the number 64 of option code 1).

Optioncode 3	
Nbr.	**Function**
2	**Tuner on SAT box is: SF916** In this case it is possible to tune the SAT box to 2 GHz.
4	**SAT box present** In this case satellite transmitters can be received.
8	**Cable-MAC IF present** In this case, besides satellite transmitters, MAC transmitters can also be received via the cable.
16	**PAL-SECAM transcoder present** In this case signals from satellite transmitters are converted to SECAM for the benefit of SECAM video recorders.
32	**Cable-MAC reception only in hyperband** In this case the reception of MAC-transmitters via the cable is limited to the hyperband.

Repair tips

1 The Service Default Mode

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

1.1 Definition state

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

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

1.2 Switch on and off

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

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

If the set switches to stand-by immediately after switching-on, the set cannot be operated and also cannot be switched to the service default mode. The child-proof lock has already been activated.
To deactivate the child-proof lock the following series of commands has to be given using the remote control (see also Section 9):
<MENU>-<BLUE>-<RED>-<MENU+>-<MENU OFF>

1.3 Fault signals

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

SERVICE 00 00 05 06 05

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

1.4 Operation

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

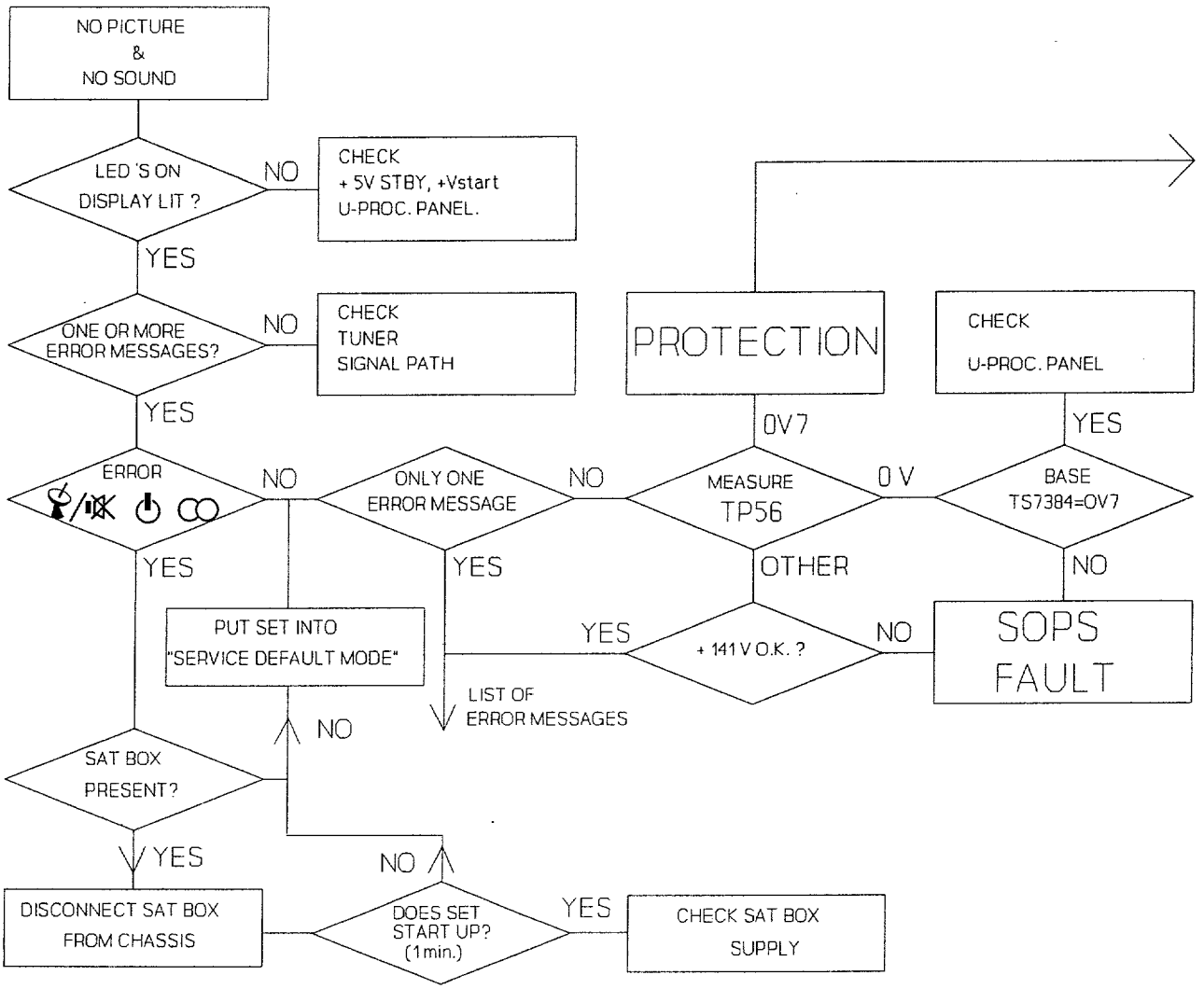
2 Software protection

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

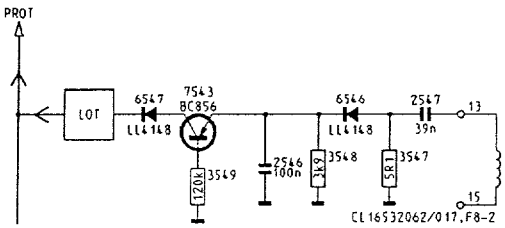
If, during a repair, the EEPROM has to be replaced, the microprocessor will detect that the EEPROM is empty. A fault signal (No. 21) will then be displayed. If the service mode is now activated (see section 7), the microprocessor will load the EEPROM with a number of standard values for the white balance 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.

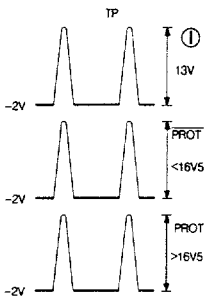
Faultfindingtree

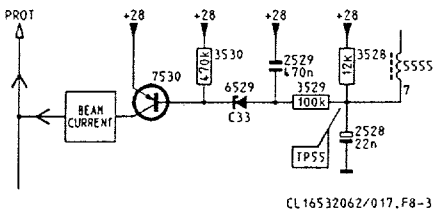


Protection

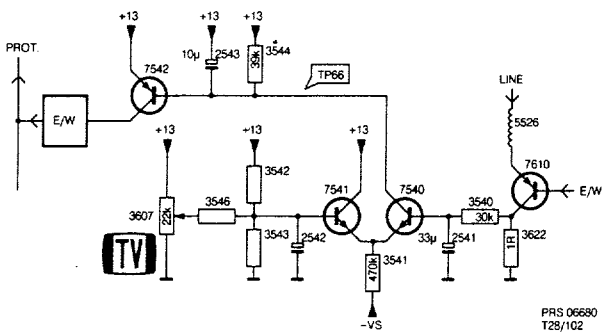
EHT

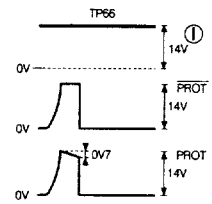




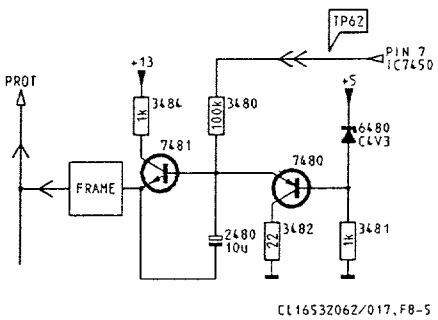


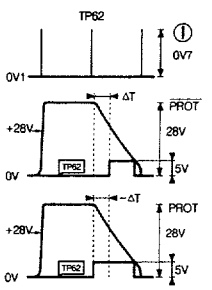
TV



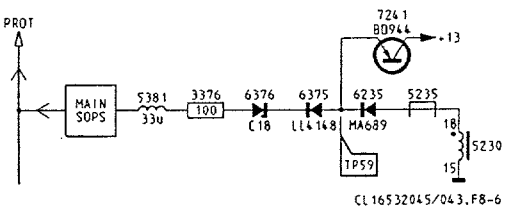


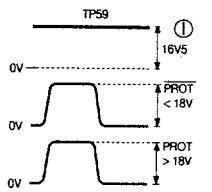
—





+V





List of error messages

Error number on screen	Flashing LED						Description of error
	🔇	∞	⏻	⏻	I	II	
1		X		X	X		I²C, IC7108, SSP [H] (MSM6307)
3				X	X		I²C, IC7102, TXT [L] (SAA5243)
5			X			X	I²C, IC7408, PIP [J] (SDA9088)
6			X	X	X		I²C, IC7600, SSP [F] (TDA8417)
7						X	I²C, IC7680, SSP [F] (TDA8425)
9		X	X		X		I²C, IC7430, SSP [D] (TDA4680)
11			X	X			I²C, front end, SSP [C] (FQ 816)
12					X		I²C, IC7137, SSP [H] (X24C04)
13		X					I²C bus on chassis blocked
14		X	X				I²C, IC7258, SSP [C] (HEF4094)
15		X	X	X			I²C, IC7219, SSP [C] (TEA6414)
16[1)]		X			X		I²C, IC7040, SAT Interface [P] (TEA6414)
17		X		X			IR-receiver on SSP [H] blocked (1100)
18			X		X	X	7115, SSP, μ proc. [H]
19[1)]		X	X	X	X		UART bus blocked, IC7250, TUNER/CONTROL [Q]
20			X	X	X	X	7115, SSP, μ proc [H]
21			X				EAROM X24C04 empty, IC7137, SSP [H] (§ 8.3)
30		X		X		X	I²C, IC7175, SSP [C] (PCF8574)
31		X		X	X	X	I²C, IC7001, NICAM-panel [K] (SAA7280)
34[1)]	X	X				X	LNC supply on SAT box [Q,R] not correct.
35[1)]	X	X		X		X	IM-bus on SAT box [Q,S] blocked.
36[1)]	X	X	X			X	I²C bus on SAT box blocked.
37[1)]	X	X	X	X		X	D2-MAC [S]
38[1)]	X	X			X	X	I²C, SAT Tuner [Q] (SF914; SF916)
39[1)]	X	X		X	X	X	HEF STROBE 1, IC7925, FSS [T] (HEF4094)
40[1)]	X	X	X		X	X	D2-MAC [S]
41[1)]	X	X	X	X	X	X	D2-MAC [S]
42[1)]	X			X		X	IC7250, TUNER/CONTROL [Q]
43[1)]	X		X			X	IC7250, TUNER/CONTROL [Q]
44[1)]	X		X	X		X	SAT Tuner [Q] (SF 914/916)
45[1)]	X				X	X	IC7250, TUNER/CONTROL [Q]
46[1)]	X			X	X	X	IC7250, TUNER/CONTROL [Q]
47[1)]	X		X		X	X	IC7262, TUNER/CONTROL [Q]
48[1)]	X		X	X	X	X	D2-MAC [S]
49[1)]	X		X		X		EAROM X24C02 empty, 7450, D2-MAC [S] (§17)
51[1)]				X	X	X	IC7250, TUNER/CONTROL [Q]
52[1)]		X				X	D2B bus EXT, SSP [H] blocked.
99	X	X		X			Protection

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

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).

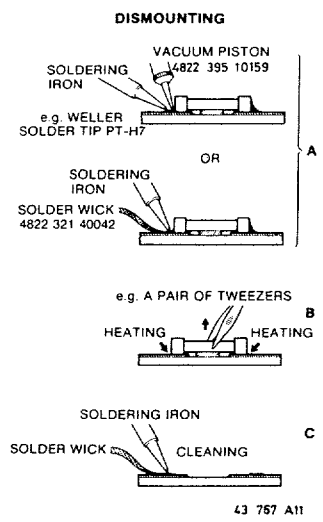


Fig. 8.1

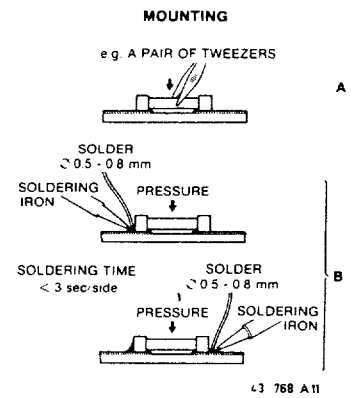


Fig. 8.2

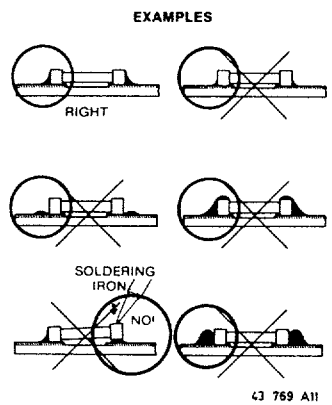
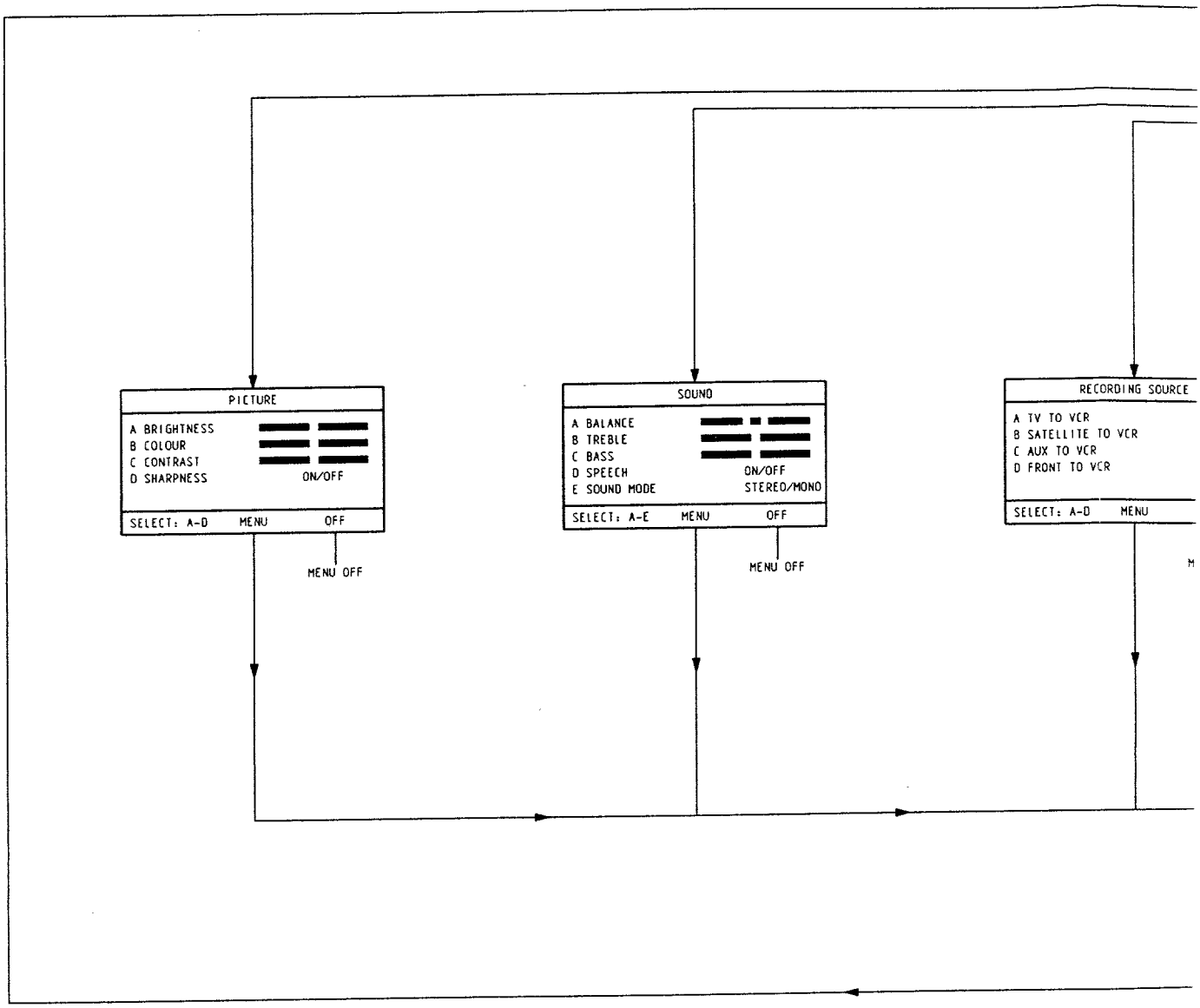
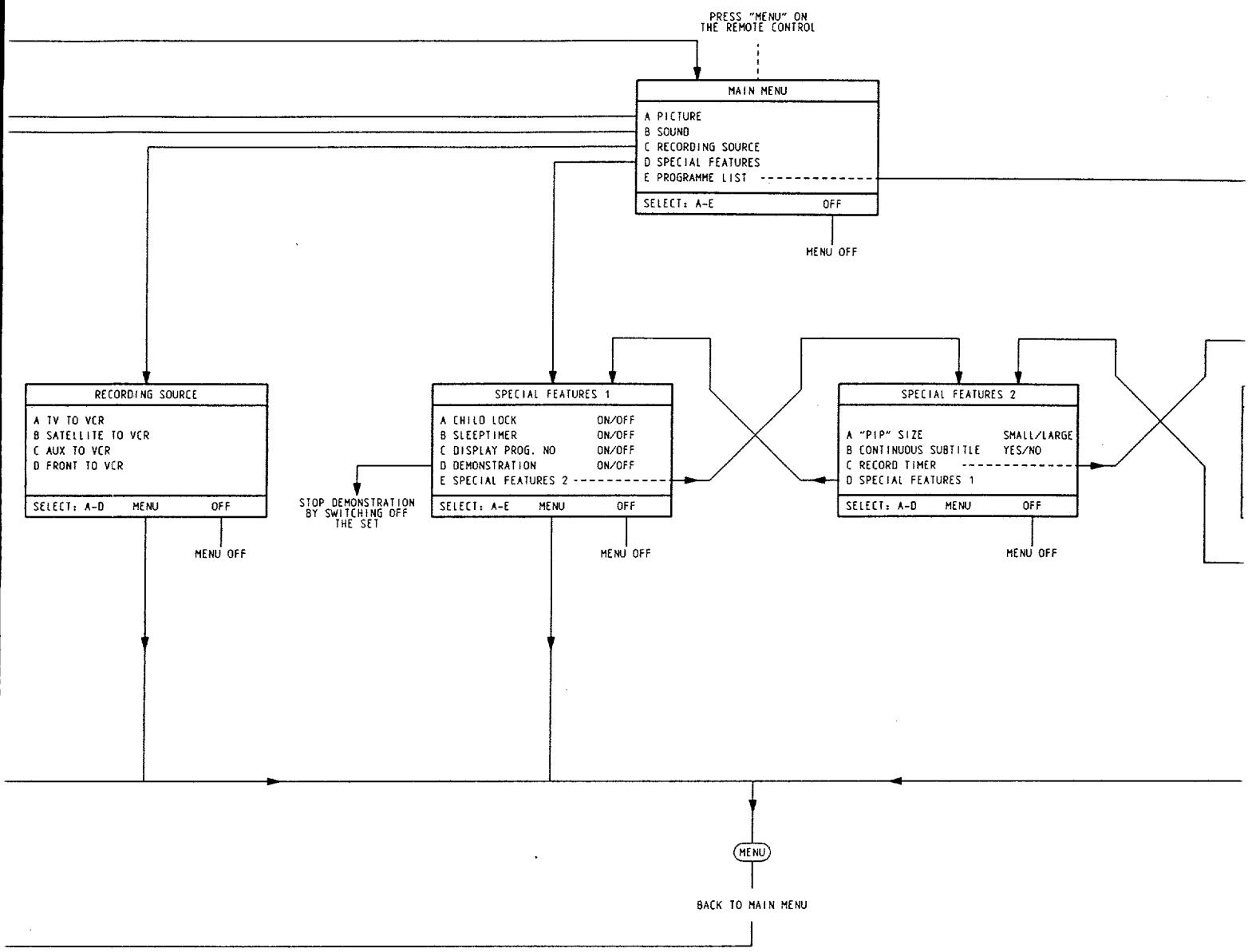


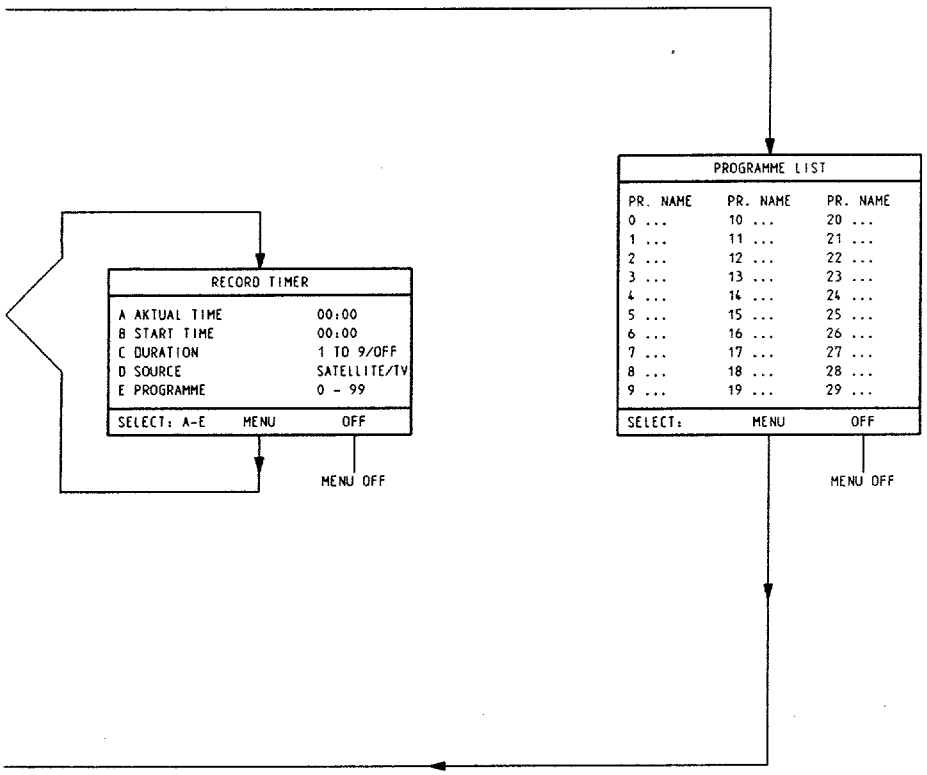
Fig. 8.3

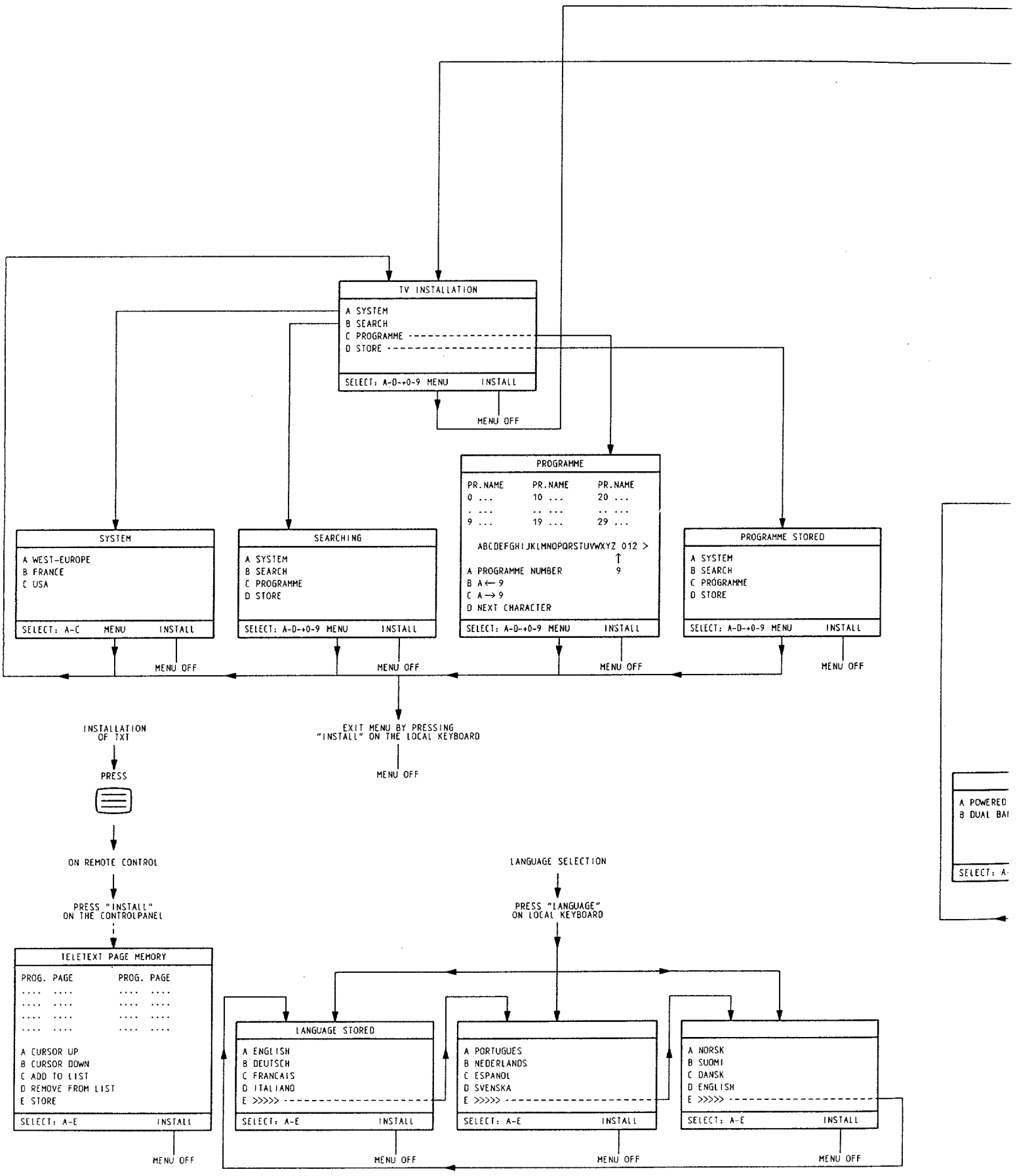
Survey of menus



MAIN MENU

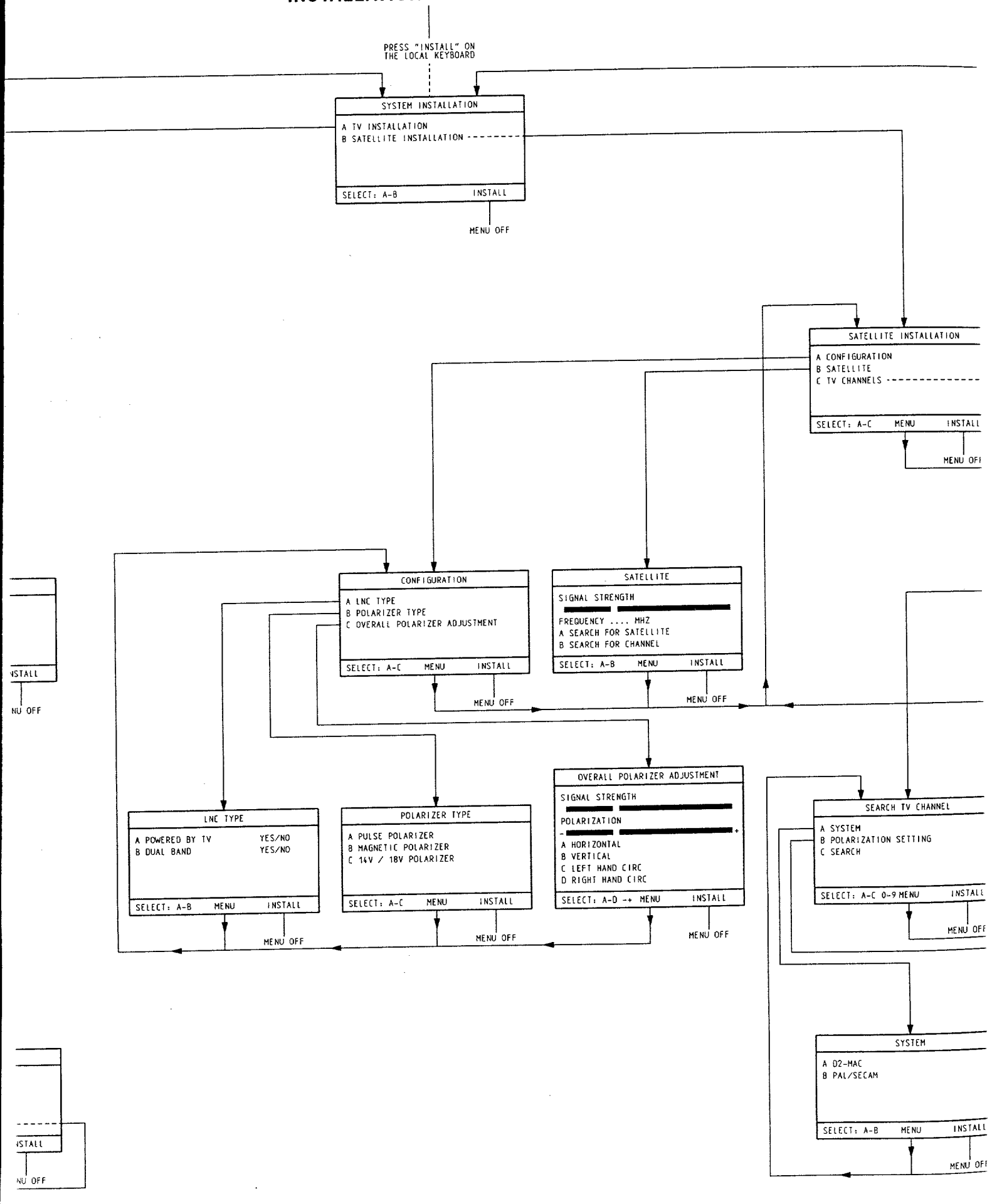

PRESS "MENU" ON THE REMOTE CONTROL
MAIN MENU
A PICTURE
B SOUND
C RECORDING SOURCE
D SPECIAL FEATURES
E PROGRAMME LIST
SELECT: A-E
OFF
MENU OFF
RECORDING SOURCE
A TV TO VCR
B SATELLITE TO VCR
C AUX TO VCR
D FRONT TO VCR
SELECT: A-D
MENU
OFF
MENU OFF
STOP DEMONSTRATION BY SWITCHING OFF THE SET
SPECIAL FEATURES 1
A CHILD LOCK ON/OFF
B SLEEPTIMER ON/OFF
C DISPLAY PROG. NO ON/OFF
D DEMONSTRATION ON/OFF
E SPECIAL FEATURES 2
SELECT: A-E
MENU
OFF
MENU OFF
SPECIAL FEATURES 2
A "PIP" SIZE SMALL/LARGE
B CONTINUOUS SUBTITLE YES/NO
C RECORD TIMER
D SPECIAL FEATURES 1
SELECT: A-D
MENU
OFF
MENU OFF
MENU
BACK TO MAIN MENU

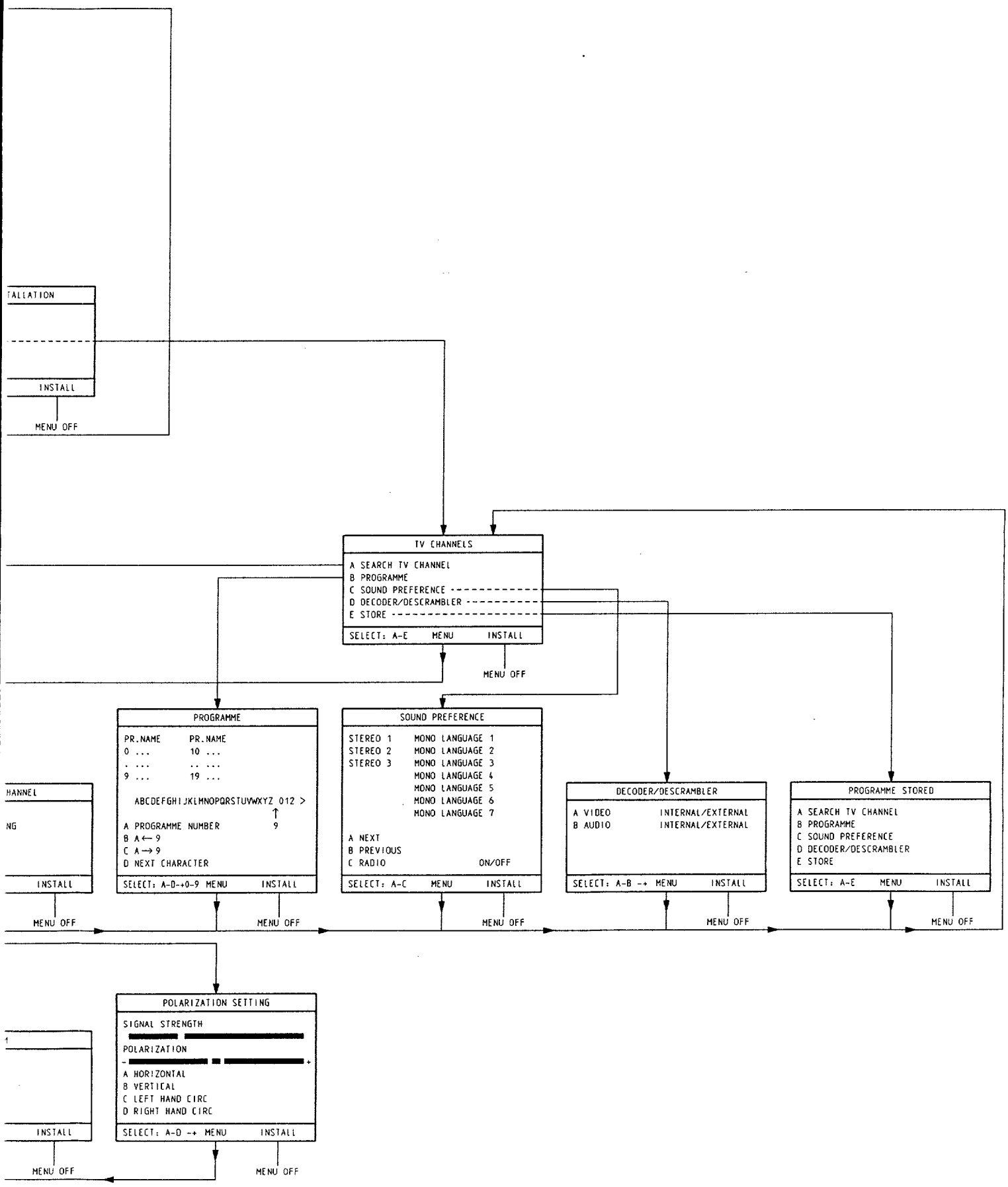

PROGRAMME LIST
PR. NAME PR. NAME PR. NAME
0 ... 10 ... 20 ...
1 ... 11 ... 21 ...
2 ... 12 ... 22 ...
3 ... 13 ... 23 ...
4 ... 14 ... 24 ...
5 ... 15 ... 25 ...
6 ... 16 ... 26 ...
7 ... 17 ... 27 ...
8 ... 18 ... 28 ...
9 ... 19 ... 29 ...
SELECT: MENU OFF
MENU OFF
RECORD TIMER
A AKTUAL TIME 00:00
B START TIME 00:00
C DURATION 1 TO 9/OFF
D SOURCE SATELLITE/TV
E PROGRAMME 0 - 99
SELECT: A-E MENU OFF
MENU OFF


TV INSTALLATION
A SYSTEM
B SEARCH
C PROGRAMME
D STORE
SELECT: A-D-+0-9 MENU INSTALL
MENU OFF
SYSTEM
A WEST-EUROPE
B FRANCE
C USA
SELECT: A-C MENU INSTALL
MENU OFF
SEARCHING
A SYSTEM
B SEARCH
C PROGRAMME
D STORE
SELECT: A-D-+0-9 MENU INSTALL
MENU OFF
PROGRAMME
PR.NAME PR.NAME PR.NAME
0 ... 10 ... 20 ...
. ...
9 ... 19 ... 29 ...
ABCDEFGHIJKLMNOPQRSTUVWXYZ 012 >
A PROGRAMME NUMBER 9
B A← 9
C A→ 9
D NEXT CHARACTER
SELECT: A-D-+0-9 MENU INSTALL
MENU OFF
PROGRAMME STORED
A SYSTEM
B SEARCH
C PROGRAMME
D STORE
SELECT: A-D-+0-9 MENU INSTALL
MENU OFF
INSTALLATION OF TXT
PRESS
ON REMOTE CONTROL
PRESS "INSTALL" ON THE CONTROLPANEL
EXIT MENU BY PRESSING "INSTALL" ON THE LOCAL KEYBOARD
MENU OFF
LANGUAGE SELECTION
PRESS "LANGUAGE" ON LOCAL KEYBOARD
TELETEXT PAGE MEMORY
PROG. PAGE PROG. PAGE
A CURSOR UP
B CURSOR DOWN
C ADD TO LIST
D REMOVE FROM LIST
E STORE
SELECT: A-E INSTALL
MENU OFF
LANGUAGE STORED
A ENGLISH
B DEUTSCH
C FRANCAIS
D ITALIANO
E >>>>>
SELECT: A-E INSTALL
MENU OFF
A PORTUGUES
B NEDERLANDS
C ESPANOL
D SVENSKA
E >>>>>
SELECT: A-E INSTALL
MENU OFF
A NORSK
B SUOMI
C DANSK
D ENGLISH
E >>>>>
SELECT: A-E INSTALL
MENU OFF

Operation instructions

INSTALLATION OF STATIONS




TALLATION
INSTALL
MENU OFF
TV CHANNELS
A SEARCH TV CHANNEL
B PROGRAMME
C SOUND PREFERENCE
D DECODER/DESCRAMBLER
E STORE
SELECT: A-E MENU INSTALL
MENU OFF
PROGRAMME
PR.NAME PR.NAME
0 ... 10 ...
. ...
9 ... 19 ...
ABCDEFGHIJKLMNOPQRSTUVWXYZ 012 >
A PROGRAMME NUMBER 9
B A← 9
C A→ 9
D NEXT CHARACTER
SELECT: A-D-+0-9 MENU INSTALL
SOUND PREFERENCE
STEREO 1 MONO LANGUAGE 1
STEREO 2 MONO LANGUAGE 2
STEREO 3 MONO LANGUAGE 3
MONO LANGUAGE 4
MONO LANGUAGE 5
MONO LANGUAGE 6
MONO LANGUAGE 7
A NEXT
B PREVIOUS
C RADIO ON/OFF
SELECT: A-C MENU INSTALL
DECODER/DESCRAMBLER
A VIDEO INTERNAL/EXTERNAL
B AUDIO INTERNAL/EXTERNAL
SELECT: A-B -+ MENU INSTALL
PROGRAMME STORED
A SEARCH TV CHANNEL
B PROGRAMME
C SOUND PREFERENCE
D DECODER/DESCRAMBLER
E STORE
SELECT: A-E MENU INSTALL
HANNEL
NG
INSTALL
MENU OFF
MENU OFF
MENU OFF
MENU OFF
MENU OFF
POLARIZATION SETTING
SIGNAL STRENGTH
POLARIZATION
A HORIZONTAL
B VERTICAL
C LEFT HAND CIRC
D RIGHT HAND CIRC
SELECT: A-D -+ MENU INSTALL
1
INSTALL
MENU OFF
MENU OFF

Large signal panel A B G

Connectors

	4822 265 40469	6P female gold plated
	4822 265 40472	10P female gold plated
	4822 290 40295	7P male
	4822 265 30525	2P male
	4822 265 20541	2P male
	4822 265 40818	8P male
	4822 267 40985	6P male
	4822 265 30525	2P male
	4822 264 40207	3P male
	4822 265 40421	6P male
	4822 265 30389	2P male degaussing
	4822 265 40596	2P male
	4822 265 20509	2P male grey
	4822 265 20512	2P male green
	4822 265 20511	2P male blue
	4822 267 50591	6P male gold plated
	4822 264 50149	10P male gold plated
	4822 265 30389	2P male

Various parts

	4822 492 70143	spring 10 X 33MM
	4822 492 62076	spring fix transistor
	4822 492 70788	spring fix IC
	4822 492 70789	spring fix transistor
	4822 276 12998	mains switch
	4822 256 30274	fuse holder
	4822 290 60812	socket for ext. loudspeakers
	4822 276 13014	switch loudsp. ON/OFF
	4822 320 11086	focus cable
	4822 320 20162	EHT cable
	4822 320 20177	EHT cable 21"
	4822 310 20492	SOPS repair kit <AG04
	4822 310 31921	SOPS repair kit ≥AG04
1010	4822 212 23892	NTSC ASSY
1200	4822 070 32502	fuse T2,5A
1250	4822 071 52501	fuse T0,25

2001	4822 122 31784	4,7nF 10% 50V
2002	4822 122 31784	4,7nF 10% 50V
2003	4822 126 11175	22pF 5% 50V
2004	4822 122 32142	270pF 5% 63V
2005	4822 122 32142	270pF 5% 63V
2007	4822 122 31797	22nF 10% 63V
2008	4822 122 31797	22nF 10% 63V
2009	4822 126 11175	22pF 5% 50V
2010	4822 122 32597	6,8nF 10% 63V
2012	4822 122 32927	220nF
2013	4822 122 32927	220nF
2014	4822 122 32597	6,8nF 10% 63V
2015	4822 124 42109	22µF 10% 50V
2016	4822 124 42109	22µF 10% 50V
2018	4822 122 31797	22nF 10% 63V
2019	4822 122 31414	10nF 100V
2020	4822 122 31414	10nF 100V
2021	4822 122 31414	10nF 100V
2022	4822 122 31414	10nF 100V
2023	5322 122 33446	3,3nF 10% 63V

2024	5322 122 33446	3,3nF 10% 63V
2026	4822 122 32927	220nF
2027	4822 122 32927	220nF
2029	4822 122 32927	220nF
2031	4822 126 11175	22pF 5% 50V
2032	4822 122 31797	22nF 10% 63V
2038	4822 122 31644	2,2nF 10% 63V
2042	4822 122 32927	220nF
2043	4822 122 32927	220nF
2046	4822 122 32927	220nF
2047	4822 122 32927	220nF
2050	4822 124 42362	33µF 20% 16V
2051	4822 124 42362	33µF 20% 16V
2056	4822 122 31773	560pF 5% 50V
2057	4822 122 31773	560pF 5% 50V
2060	4822 122 31773	560pF 5% 50V
2065	4822 126 11156	684nF 20%
2066	4822 126 11156	684nF 20%
2070	4822 124 40272	33µF 20% 16V
2071	4822 124 42184	33µF 20% 25V
2072	4822 124 40178	100µF 20% 10V
2073	4822 124 21212	15µF 20% 40V
2074	5322 122 31647	1nF 10% 63V
2200	4822 121 43819	680nF 10% 250V
2203	4822 121 40487	100nF 10% 400V
2210	4822 122 33802	2,2nF 10% 1kV
2211	4822 122 33802	2,2nF 10% 1kV
2214	4822 124 23492	220µF 50% 385V
2215	4822 122 33665	3,3nF 20% 125V
2216	4822 126 10202	1,5nF 10% 2kV
2230	4822 122 31784	4,7nF 10% 50V
2231	4822 126 11157	470pF 10% 500V
2232	4822 124 21511	2200µF 20% 25V
2233	4822 126 11157	470pF 10% 500V
2234	4822 124 21511	2200µF 20% 25V
2235	4822 126 11157	470pF 10% 500V
2236	4822 124 23488	1000µF 20% 35V
2237	4822 122 33708	2,2nF 10% 1kV
2238	4822 124 22583	47µF 160V
2239	4822 124 40193	68µF 20% 16V
2240	4822 124 42183	1000µF 20% 63V
2254	4822 126 11496	120pF 5% 2kV
2255	4822 122 32142	270pF 5% 63V
2258	5322 121 42502	390nF 5% 63V
2260	4822 122 31727	470pF 5% 63V
2261	5322 124 21189	100µF 20% 40V
2262	4822 122 31727	470pF 5% 63V
2263	4822 124 40849	330µF 20% 16V
2270	4822 124 40178	100µF 20% 10V
2272	4822 122 33496	100nF 10% 63V
2302	4822 122 31965	220pF 5% 63V
2303	4822 122 31808	150pF 10% 50V
2308	4822 122 32891	68nF 10% 63V
2321	4822 121 43047	1µF 10% 63V
2331	4822 122 32891	68nF 10% 63V
2351	4822 121 41854	150nF 5% 63V
2360	4822 122 31981	33nF ±0,5pF 50V
2361	4822 121 42589	82nF 5% 63V
2365	5322 122 32838	82nF 10% 63V
2372	5322 121 42502	390nF 5% 63V
2376	4822 124 40272	33µF 20% 16V
2380	4822 122 33496	100nF 10% 63V
2381	4822 122 33496	100nF 10% 63V
2382	4822 122 33496	100nF 10% 63V
2386	5322 122 31647	1nF 10% 63V
2400	4822 122 31772	47pF 5% 50V
2401	4822 122 33496	100nF 10% 63V
2402	4822 124 41576	2,2µF 20% 50V

2403	4822 124 41678	22µF 20% 25V
2404	4822 124 40435	10µF 20% 50V
2405	4822 122 33496	100nF 10% 63V
2406	4822 121 42937	2,7nF 1% 250V
2407	5322 122 33446	3,3nF 10% 63V
2408	4822 122 30091	390pF 10% 100V
2409	4822 122 31797	22nF 10% 63V
2410	4822 121 51244	330nF 5% 50V
2411	4822 121 51244	330nF 5% 50V
2415	4822 122 33496	100nF 10% 63V
2416	4822 122 33496	100nF 10% 63V
2417	4822 122 32808	1,2nF 10% 63V
2418	4822 122 31797	22nF 10% 63V
2419	4822 124 40849	330µF 20% 16V
2420	4822 122 31772	47pF 5% 50V
2421	4822 122 33496	100nF 10% 63V
2422	4822 122 33496	100nF 10% 63V
2423	4822 122 32442	10nF 50V
2424	4822 121 51565	4,7nF 1% 250V
2425	4822 124 41577	4,7µF 20% 50V
2426	4822 122 32442	10nF 10% 50V
2427	4822 122 31797	22nF 10% 63V
2428	4822 122 33496	100nF 10% 63V
2429	4822 122 33496	100nF 10% 63V
2445	4822 122 31974	820pF 10% 63V
2446	4822 122 32999	2,2nF 5% 63V
2450	4822 122 32442	10nF 10% 50V
2451	4822 122 31746	1000pF 5% 50V
2452	4822 124 41716	220µF 20% 35V
2455	4822 122 31771	390pF 5% 50V
2456	5322 124 41743	1500µF 20% 35V
2457	4822 124 42249	1µF 10% 50V
2457	4822 124 42252	2,2µF 10% 50V
2458	4822 122 31797	22nF 10% 63V
2459	4822 122 32891	68nF 10% 63V
2460	4822 122 33496	100nF 10% 63V
2480	4822 124 23495	10µF 20% 25V
2502	4822 121 41689	100nF 10% 250V
2503	4822 126 11501	1,5nF 10% 500V
2503	4822 122 31169	1,5nF 10% 500V
2504	4822 126 11254	330pF 10% 2kV
2509	4822 122 30057	2,7nF 10% 100V
2511	4822 124 41739	47µF 20% 160V
2512	4822 124 40435	10µF 20% 50V
2513	4822 124 40435	10µF 20% 50V
2517	4822 126 11157	470pF 10% 500V
2517	4822 122 32585	470pF 10% 500V
2518	4822 124 22449	4,7µF 30% 350V
2519	4822 124 41831	1µF 20% 160V
2520	4822 121 51527	390nF 5% 250V
2520	4822 121 43844	300nF 5% 250V
2521	4822 121 51563	560nF 5% 250V
2521	4822 121 51528	470nF 5% 250V
2521	4822 121 43397	680nF 5% 250V
2523	5322 121 41603	10nF 5% 2kV
2523	4822 122 33382	9,1nF 5% 2kV
2524	4822 121 51564	24nF 5% 400V
2524	4822 121 43845	18nF 5% 400V
2528	4822 121 40336	47nF 10% 250V
2529	4822 124 23491	0,47µF 20% 50V
2530	5322 122 33446	3,3nF 10% 63V
2530	4822 122 31797	22nF 10% 63V
2533	5322 122 32818	2,2nF 10% 100V
2534	4822 126 11494	2,2nF 10% 500V
2535	4822 124 23488	1000µF 20% 35V
2536	4822 122 32585	470pF 10% 500V
2536	4822 126 11502	470pF 10% 500V
2537	4822 124 40184	1000µF 20% 10V

Larg

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Large signal panel (continued)

2541	4822 124 42184	33µF 20% 25V	3204	4822 116 40215	PTC	3380	4822 051 10152	1k5 2% 0,25W
2542	4822 124 22466	1µF 20% 50V	3209	4822 113 80384	1Ω5 10% 7W	3381	4822 051 10152	1k5 2% 0,25W
2543	4822 124 23495	10µF 20% 25V	3210	4822 116 52239	120k 5% 0,5W	3382	4822 051 10103	10k 2% 0,25W
2546	4822 122 33496	100nF 10% 63V	3211	4822 116 52239	120k 5% 0,5W	3383	4822 051 10103	10k 2% 0,25W
2547	4822 122 33608	39nF 10% 63V	3212	4822 116 52234	100k 5% 0,5W	3387	4822 051 10223	22k 2% 0,25W
2551	4822 124 40195	150µF 20% 16V	3213	4822 051 10823	82k 2% 0,25W	3400	4822 051 10332	3k3 2% 0,25W
2600	4822 124 22427	47µF 20% 35V	3215	4822 051 10272	2k7 2% 0,25W	3402	4822 051 10562	5k6 2% 0,25W
2601	4822 122 33608	39nF 10% 63V	3216	4822 115 90309	56Ω 10% 5W	3403	4822 051 10229	22Ω 2% 0,25W
2604	4822 122 32765	820pF 10% 63V	3240	4822 116 52234	100k 5% 0,5W	3404	4822 051 10821	820Ω 2% 0,25W
2604	4822 122 31773	560pF 5% 50V	3241	4822 113 80583	4,7Ω 10% 5W	3405	4822 051 10303	30k 2% 0,25W
2604	4822 122 31965	220pF 5% 63V	3241	4822 113 80591	3,9Ω 10% 5W	3406	4822 100 11483	10k 30% LIN
2604	4822 122 31765	100pF 5% 50V	3242	4822 051 10122	1k2 2% 0,25W	3407	4822 051 10331	330Ω 2% 0,25W
2605	4822 122 32442	10nF 10% 50V	3243	4822 116 52226	560Ω 5% 0,5W	3408	4822 051 10333	33k 2% 0,25W
2605	4822 122 32856	8,2nF 10% 63V	3244	4822 116 52211	150Ω 5% 0,5W	3409	4822 116 52268	300k 5% 0,5W
2605	4822 122 31916	5,6nF 10% 63V	3245	4822 116 52226	560Ω 5% 0,5W	3409	4822 116 52275	360k 5% 0,5W
2605	4822 122 31784	4,7nF 10% 50V	3247	4822 051 20222	2k2 5% 0,1W	3409	4822 116 52278	390k 5% 0,5W
2606	4822 122 33498	2,7nF 10% 63V	3248	4822 051 20222	2k2 5% 0,1W	3410	4822 100 11731	150k 30% LIN
2606	5322 122 33446	3,3nF 10% 63V	3249	4822 116 52258	220k 5% 0,5W	3411	4822 051 10683	68k 2% 0,25W
2606	4822 122 32597	6,8nF 10% 63V	3250	4822 116 52198	62Ω 5% 0,5W	3411	4822 116 81202	62k 1% 0,125W
2609	4822 121 41854	150nF 5% 63V	3251	4822 051 10102	1k 2% 0,25W	3411	4822 051 10823	82k 2% 0,25W
2610	4822 124 41576	2,2µF 20% 50V	3252	4822 116 52258	220k 5% 0,5W	3412	4822 051 10474	470k 2% 0,25W
2611	4822 124 41576	2,2µF 20% 50V	3253	4822 116 82738	10k 10%	3412	4822 051 10471	470Ω 2% 0,25W
2613	5322 122 33446	3,3nF 10% 63V	3255	4822 116 52243	1k5 5% 0,5W	3413	4822 051 10101	100Ω 2% 0,25W
2613	4822 122 31784	4,7nF 10% 50V	3266	4822 051 10151	150Ω 2% 0,25W	3414	4822 051 10154	150k 2% 0,25W
2614	5322 122 32838	82nF 10% 63V	3267	4822 051 10101	100Ω 2% 0,25W	3415	4822 100 11392	47k 30% LIN
			3268	4822 053 11689	68Ω 5% 2W	3416	4822 116 52278	390k 5% 0,5W
			3270	4822 051 10118	1Ω1 5% 0,25W	3417	4822 116 52256	2k2 5% 0,5W
			3271	4822 053 10399	39Ω 5% 1W	3418	4822 051 10221	220Ω 2% 0,25W
			3272	4822 116 90536	120Ω 1% 0,125W	3419	4822 052 10159	15Ω 5% 0,33W
			3273	4822 051 10472	4k7 2% 0,25W	3420	4822 116 83006	2M7 5% 0,5W
			3274	4822 051 10102	1k 2% 0,25W	3420	4822 050 23905	3M9 1% 0,6W
			3275	4822 116 52208	120Ω 5% 0,5W	3421	4822 116 52233	10k 5% 0,5W
			3300	4822 053 10753	75k 5% 1W	3422	4822 116 83029	1M3 5% 0,5W
			3304	4822 051 10473	47k 2% 0,25W	3424	4822 051 10221	220Ω 2% 0,25W
			3305	4822 051 10392	3k9 2% 0,25W	3427	4822 051 10332	3k3 2% 0,25W
			3306	4822 051 10823	82k 2% 0,25W	3428	4822 116 52271	33k 5% 0,5W
			3308	4822 053 12151	150Ω 5% 3W	3429	4822 116 52276	3k9 5% 0,5W
			3309	4822 051 10103	10k 2% 0,25W	3430	4822 051 10471	470Ω 2% 0,25W
			3310	4822 050 11109	11Ω 1% 0,4W	3431	4822 051 10563	56k 2% 0,25W
			3311	4822 051 10471	470Ω 2% 0,25W	3432	4822 051 10122	1k2 2% 0,25W
			3312	4822 051 10101	100Ω 2% 0,25W	3434	4822 100 11642	47k 30% LIN
			3313	4822 050 11109	11Ω 1% 0,4W	3435	4822 051 10124	120k 2% 0,25W
			3314	4822 116 52223	430Ω 5% 0,5W	3437	4822 051 10122	1k2 2% 0,25W
			3315	4822 116 52223	430Ω 5% 0,5W	3438	4822 116 52249	1k8 5% 0,5W
			3317	4822 051 10682	6k8 2% 0,25W	3440	4822 051 10123	12k 2% 0,25W
			3320	4822 051 10471	470Ω 2% 0,25W	3441	4822 051 10822	8k2 2% 0,25W
			3321	4822 051 10471	470Ω 2% 0,25W	3445	4822 051 10105	1M 5% 0,25W
			3322	4822 051 10471	470Ω 2% 0,25W	3446	4822 116 52251	18k 5% 0,5W
			3331	4822 116 52267	30k 5% 0,5W	3447	4822 116 52233	10k 5% 0,5W
			3332	4822 116 52233	10k 5% 0,5W	3450	4822 051 10432	4k3 2% 0,25W
			3351	4822 052 11279	27Ω 5% 0,5W	3451	4822 051 10432	4k3 2% 0,25W
			3356	4822 051 10102	1k 2% 0,25W	3452	4822 116 52227	620Ω 5% 0,5W
			3357	4822 050 11102	1k1 1% 0,4W	3454	4822 116 52227	620Ω 5% 0,5W
			3358	4822 116 52182	15Ω 5% 0,5W	3455	4822 051 10472	4k7 2% 0,25W
			3360	4822 051 10122	1k2 2% 0,25W	3455	4822 051 10392	3k9 2% 0,25W
			3362	4822 051 10151	150Ω 2% 0,25W	3456	4822 051 10184	180k 2% 0,25W
			3364	4822 051 10471	470Ω 2% 0,25W	3456	4822 051 10104	100k 2% 0,25W
			3365	4822 051 10221	220Ω 2% 0,25W	3456	4822 051 10114	110k 2% 0,25W
			3366	4822 051 10221	220Ω 2% 0,25W	3457	4822 051 10153	15k 2% 0,25W
			3368	4822 116 52226	560Ω 5% 0,5W	3457	4822 051 10822	8k2 2% 0,25W
			3369	4822 116 52226	560Ω 5% 0,5W	3458	4822 116 80176	1Ω 5% 0,5W
			3370	4822 051 10332	3k3 2% 0,25W	3459	4822 116 80176	1Ω 5% 0,5W
			3371	4822 100 11348	1k 30% LIN	3461	5322 116 82222	1Ω2 5% 0,5W
			3372	4822 051 10561	560Ω 2% 0,25W	3462	5322 116 82222	1Ω2 5% 0,5W
			3374	4822 116 52301	75k 5% 0,5W	3463	4822 116 82739	1Ω3 5% 0,5W
			3375	4822 051 10242	2k4 2% 0,25W	3465	4822 051 10681	680Ω 2% 0,25W
			3376	4822 116 52175	100Ω 5% 0,5W	3466	4822 050 11002	1k 1% 0,4W
			3378	4822 051 10101	100Ω 2% 0,25W	3467	4822 100 20166	10k 30% LIN

3000	4822 051 10163	16k 2% 0,25W
3001	4822 051 10163	16k 2% 0,25W
3004	4822 051 10104	100k 2% 0,25W
3008	4822 051 10104	100k 2% 0,25W
3009	4822 051 10204	200k 2% 0,25W
3011	4822 051 10203	20k 2% 0,25W
3016	4822 052 10828	8Ω2 5% 0,33W
3019	4822 052 10828	8Ω2 5% 0,33W
3020	4822 052 10828	8Ω2 5% 0,33W
3027	4822 051 10103	10k 2% 0,25W
3028	4822 051 10103	10k 2% 0,25W
3029	4822 051 10123	12k 2% 0,25W
3030	4822 051 10123	12k 2% 0,25W
3031	4822 051 10102	1k 2% 0,25W
3032	4822 051 10102	1k 2% 0,25W
3033	4822 116 52244	15k 5% 0,5W
3034	4822 051 10472	4k7 2% 0,25W
3035	4822 051 10153	15k 2% 0,25W
3036	4822 051 10152	1k5 2% 0,25W
3037	4822 051 10152	1k5 2% 0,25W
3040	4822 051 10273	27k 2% 0,25W
3041	4822 051 10152	1k5 2% 0,25W
3044	4822 051 10221	220Ω 2% 0,25W
3049	4822 051 10102	1k 2% 0,25W
3050	4822 051 10103	10k 2% 0,25W
3051	4822 051 10203	20k 2% 0,25W
3052	4822 051 10472	4k7 2% 0,25W
3053	4822 051 10472	4k7 2% 0,25W
3054	4822 110 42205	4M7 5% 0,5W
3060	4822 051 10109	10Ω 2% 0,25W
3065	4822 051 10184	180k 2% 0,25W
3066	4822 051 10184	180k 2% 0,25W
3067	4822 116 52296	6k8 5% 0,5W
3068	4822 116 52207	1k2 5% 0,5W
3069	4822 051 10752	7k5 2% 0,25W
3072	4822 051 10479	47Ω 2% 0,25W
3073	4822 116 52257	22k 5% 0,5W
3074	4822 051 10103	10k 2% 0,25W
3201	4822 110 42205	4M7 5% 0,5W
3202	4822 110 42205	4M7 5% 0,5W
3204	4822 116 40033	NTC/PTC

Large signal panel (continued)

3468	4822 053 12221	220Ω 5% 3W
3468	4822 053 12331	330Ω 5% 3W
3469	4822 116 52283	4k7 5% 0,5W
3469	4822 051 10153	15k 2% 0,25W
3469	4822 116 52229	750Ω 5% 0,5W
3469	4822 050 11002	1k 1% 0,4W
3473	4822 116 52253	2k 5% 0,5W
3474	4822 051 10683	68k 2% 0,25W
3480	4822 116 52234	100k 5% 0,5W
3481	4822 051 10102	1k 2% 0,25W
3482	4822 051 10229	22Ω 2% 0,25W
3485	4822 051 10102	1k 2% 0,25W
3500	4822 116 80176	1Ω 5% 0,5W
3502	4822 116 52238	12k 5% 0,5W
3503	4822 116 52238	12k 5% 0,5W
3507	4822 116 52193	39Ω 5% 0,5W
3508	4822 116 60523	2k2 10% 5W
3508	4822 116 82379	3k9 10% 5W
3508	4822 116 53418	2k7 10% 5W
3509	4822 053 21104	100k 5% 0,5W
3510	4822 053 12151	150Ω 5% 3W
3510	4822 053 12221	220Ω 5% 3W
3511	4822 116 52176	10Ω 5% 0,5W
3512	4822 051 10331	330Ω 2% 0,25W
3513	4822 100 11319	4k7 30% LIN
3514	4822 116 52206	120Ω 5% 0,5W
3515	4822 052 10108	1Ω 5% 0,33W
3515	4822 052 10278	2Ω7 5% 0,5W
3516	4822 052 10108	1Ω 5% 0,33W
3516	4822 052 10278	2Ω7 5% 0,5W
3517	4822 052 11688	6Ω8 5% 0,5W
3518	4822 116 52267	30k 5% 0,5W
3519	4822 116 52267	30k 5% 0,5W
3520	4822 052 11152	1k5 5% 0,5W
3521	4822 052 11152	1k5 5% 0,5W
3523	4822 116 52233	10k 5% 0,5W
3527	4822 051 10102	1k 2% 0,25W
3528	4822 116 52224	470Ω 5% 0,5W
3528	4822 050 11002	1k 1% 0,4W
3528	4822 116 52303	8k2 5% 0,5W
3529	4822 051 10104	100k 2% 0,25W
3530	4822 051 10474	470k 2% 0,25W
3532	4822 116 52211	150Ω 5% 0,5W
3533	4822 116 52211	150Ω 5% 0,5W
3534	4822 052 10278	2Ω7 5% 0,5W
3535	4822 052 10278	2Ω7 5% 0,5W
3536	4822 116 52215	220Ω 5% 0,5W
3537	4822 116 52206	120Ω 5% 0,5W
3538	4822 116 52241	13k 5% 0,5W
3538	4822 116 52238	12k 5% 0,5W
3540	4822 116 52267	30k 5% 0,5W
3541	4822 116 52285	470k 5% 0,5W
3542	4822 051 10104	100k 2% 0,25W
3542	4822 051 10913	91k 2% 0,25W
3543	5322 111 90282	2k4 5% 0,25W
3543	4822 051 10242	2k4 2% 0,25W
3544	4822 051 10393	39k 2% 0,25W
3545	4822 116 52208	130Ω 5% 0,5W
3546	4822 051 10184	180k 2% 0,25W
3547	4822 051 10518	5Ω1 5% 0,25W
3548	4822 051 10392	3k9 2% 0,25W
3549	4822 051 10124	120k 2% 0,25W
3550	4822 116 52226	560Ω 5% 0,5W
3551	4822 051 10569	56Ω 2% 0,25W
3601	4822 051 10104	100k 2% 0,25W
3602	4822 100 20166	10k 30% LIN
3603	4822 051 20183	18k 5% 0,1W
3603	4822 051 10822	8k2 2% 0,25W

3603	4822 051 10103	10k 2% 0,25W
3603	4822 051 10472	4k7 2% 0,25W
3604	4822 051 10754	750k 2% 0,25W
3604	4822 051 10434	430k 2% 0,25W
3604	4822 051 10105	1M 5% 0,25W
3605	4822 116 81202	62k 1% 0,125W
3605	4822 051 10513	51k 2% 0,25W
3605	4822 051 10203	20k 2% 0,25W
3606	4822 051 10333	33k 2% 0,25W
3606	4822 051 10223	22k 2% 0,25W
3607	4822 100 11213	22k 30% LIN
3608	4822 051 10102	1k 2% 0,25W
3609	4822 051 10473	47k 2% 0,25W
3610	4822 051 10472	4k7 2% 0,25W
3611	4822 051 20222	2k2 5% 0,1W
3612	4822 116 52286	5k1 5% 0,5W
3614	4822 051 10151	150Ω 2% 0,25W
3615	4822 116 52224	470Ω 5% 0,5W
3616	4822 051 10332	3k3 2% 0,25W
3617	4822 051 20222	2k2 5% 0,1W
3618	4822 051 10104	100k 2% 0,25W
3619	4822 051 20222	2k2 5% 0,1W
3620	4822 051 10622	6k2 2% 0,25W
3621	4822 051 10114	110k 2% 0,25W
3621	4822 051 10104	100k 2% 0,25W
3622	4822 116 80176	1Ω 5% 0,5W
3624	4822 116 52215	220Ω 5% 0,5W
3625	4822 116 52215	220Ω 5% 0,5W
3626	4822 116 52297	68k 5% 0,5W
3626	4822 116 52304	82k 5% 0,5W
3626	4822 116 52239	120k 5% 0,5W
3626	4822 116 52272	330k 5% 0,5W
3627	4822 051 10103	10k 2% 0,25W
3628	4822 116 52234	100k 5% 0,5W
3629	4822 051 10154	150k 2% 0,25W
3629	4822 051 10823	82k 2% 0,25W
3630	4822 051 10104	100k 2% 0,25W
3631	4822 051 10182	1k8 2% 0,25W

Jumpers

4000	4822 051 10008	0Ω 5% 0,25W
4001	4822 051 10008	0Ω 5% 0,25W
4002	4822 051 10008	0Ω 5% 0,25W
4003	4822 051 10008	0Ω 5% 0,25W
4005	4822 051 10008	0Ω 5% 0,25W
4006	4822 051 10008	0Ω 5% 0,25W
4014	4822 051 10008	0Ω 5% 0,25W
4019	4822 051 10008	0Ω 5% 0,25W
4400	4822 051 10008	0Ω 5% 0,25W
4402	4822 051 10008	0Ω 5% 0,25W
4404	4822 051 10008	0Ω 5% 0,25W
4405	4822 051 10271	270Ω 2% 0,25W
4410	4822 051 10008	0Ω 5% 0,25W
4412	4822 051 10008	0Ω 5% 0,25W
4413	4822 051 10008	0Ω 5% 0,25W
4415	4822 051 10008	0Ω 5% 0,25W
4416	4822 051 10008	0Ω 5% 0,25W
4417	4822 051 10008	0Ω 5% 0,25W
4508	4822 051 10008	0Ω 5% 0,25W
4508	4822 051 10272	2k7 2% 0,25W
4533	4822 051 10008	0Ω 5% 0,25W
4534	4822 051 10008	0Ω 5% 0,25W
4541	4822 051 10008	0Ω 5% 0,25W
4552	4822 051 10008	0Ω 5% 0,25W

5202	4822 158 30224	filter CU20D3
5202	4822 212 23611	filter CU20D3
5205	4822 212 23611	filter CU20D3
5230	4822 146 30957	SOPS
5231	4822 526 10494	ferrite bead
5233	4822 526 10494	ferrite bead
5235	4822 526 10494	ferrite bead
5237	4822 526 10494	ferrite bead
5241	4822 157 63249	33µH 10%
5255	4822 148 81225	µOPS
5260	4822 526 10494	ferrite bead
5262	4822 526 10494	ferrite bead
5308	4822 157 62826	270µH 10%
5310	4822 157 51216	5,6µH 10%
5381	4822 157 52265	100µH 10%
5503	4822 142 40328	LINE DRIVER
5510	4822 157 62825	82µH 10%
5511	4822 157 52407	39µH 7,5%
5514	4822 157 53861	coil CU15
5520	4822 157 52688	AT4042/92
5520	4822 157 63286	coil HT 21"
5520	4822 156 50086	AT4042/92B 33"
5521	4822 157 62827	LINEARITY
5521	4822 157 62938	LINEARITY 21"
5526	4822 157 62828	EAST-EST
5534	4822 158 10551	27µH 7,5%
5543	4822 158 10551	27µH 7,5%
5548	4822 526 10494	ferrite bead
5555	4822 140 10408	L.O.T.
5555	4822 140 10412	L.O.T. 21"

6000	4822 130 80446	LL4148
6001	4822 130 80446	LL4148
6008	4822 209 73095	P4KE30C-7000
6010	4822 130 80446	LL4148
6011	4822 130 80446	LL4148
6012	4822 130 80446	LL4148
6016	4822 130 80446	LL4148
6021	4822 130 80446	LL4148
6201	4822 130 80446	LL4148
6210	4822 130 33887	GP15J-16
6211	4822 130 33887	GP15J-16
6212	4822 130 33887	GP15J-16
6213	4822 130 33887	GP15J-16
6216	4822 130 42606	BYD33J
6231	4822 130 80791	BYV28-200/20
6233	4822 130 80791	BYV28-200/20
6235	4822 130 81104	MA689
6237	4822 130 80572	RGP30J-L7004
6238	4822 130 80572	RGP30J-L7004
6246	4822 130 82347	LLZ-F6V8
6251	4822 130 80954	LLZ-C5V6
6260	4822 130 80446	LL4148
6262	4822 130 42488	BYD33D
6266	4822 130 34278	BZX79-F6V8
6272	4822 130 34173	BZX55-B5V6
6280	4822 130 30621	1N4148
6302	4822 130 80446	LL4148
6303	4822 130 80446	LL4148
6304	4822 130 80446	LL4148
6306	5322 130 31504	BZX79-B3V3
6306	4822 130 34499	BZX79-C20
6308	4822 130 42488	BYD33D
6312	4822 130 42488	BYD33D
6315	4822 130 80446	LL4148
6318	4822 130 80446	LL4148
6319	4822 130 34173	BZX79-C5V6
6331	4822 130 30621	1N4148
6349	4822 130 80446	LL4148

Large

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Large signal panel (continued)

6350	4822 130 80446	LL4148
6351	4822 130 30621	1N4148
6352	4822 130 80446	LL4148
6353	4822 130 80446	LL4148
6355	4822 130 80446	LL4148
6356	4822 130 80886	LLZ-F22
6357	4822 130 80446	LL4148
6370	4822 130 81512	LLZ-C6V2
6371	4822 130 80446	LL4148
6372	4822 130 80446	LL4148
6373	4822 130 82583	LLZ-C9V1
6375	4822 130 80446	LL4148
6376	4822 130 80922	LLZ-C18
6402	4822 130 80446	LL4148
6403	4822 130 80446	LL4148
6404	4822 130 80446	LL4148
6417	4822 130 81223	LLZ-C2V4
6451	4822 130 34382	BZX79-C8V2
6452	4822 130 42488	BYD33D
6465	4822 130 80446	LL4148
6466	4822 130 80446	LL4148
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	LL4148
6547	4822 130 80446	LL4148
6551	4822 130 34278	BZX79-B6V8
6553	4822 130 82334	BAS85
6601	4822 130 42488	BYD33D
6629	4822 130 80446	LL4148

7000	4822 209 73311	TDA1521Q/N4
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 42756	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 42756	BC857C
7369	5322 130 42755	BC847C
7370	5322 130 42755	BC847C
7371	4822 130 42513	BC858C
7380	4822 130 42513	BC858C
7381	5322 130 42136	BC848C
7384	5322 130 42755	BC847C
7385	5322 130 42136	BC848C
7400	4822 209 63423	TDA2579B/N2
7401	4822 209 63299	TDA2595/V9
7402	5322 130 42136	BC848C
7403	4822 130 42513	BC858C
7407	4822 130 61207	BC848
7417	4822 130 42513	BC858C
7445	5322 130 42136	BC848C
7446	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 60068	BC558C
7530	4822 130 61233	BC857
7540	5322 130 42755	BC847C
7541	5322 130 42755	BC847C
7542	5322 130 42756	BC857C
7543	4822 130 60136	BC856
7550	4822 130 80669	BD643F
7601	4822 130 61207	BC848
7602	5322 130 42012	BC858
7603	5322 130 42012	BC858
7608	4822 130 44503	BC547C
7610	4822 130 60111	2SA1359
7616	4822 130 61207	BC848
7618	4822 130 61207	BC848

Spare parts list / Stückliste / Liste

Small signal panel C D F H

Connectors

	4822 265 40252	7P male
	4822 265 40253	8P
	4822 265 41113	7P male
	4822 265 41086	9P male grey
	4822 265 41082	10P
	4822 290 40295	7P male grey
	4822 265 30378	4P male grey
	4822 265 30351	5P male grey
	4822 265 30828	5P male
	4822 267 40696	3P male grey
	4822 267 40648	5P male gold plated
	4822 264 50149	10P male gold plated
	4822 265 30437	3P male
	4822 267 40648	5P male gold plated

Various parts

	4822 267 51112	socket D2B
	4822 267 20411	socket SCART + 2xCINCH
	4822 267 20427	socket SCART + 4xCINCH
	4822 267 51058	socket SCART
	4822 267 20409	socket 2XCINCH + SVHS
	4822 267 41005	socket 2xCINCH + 2xSVHS
	4822 267 20408	SOCKET HEADPH. + CINCH + SVHS
	4822 218 21016	keyboard
	4822 267 50887	IC socket 8P
	4822 255 40901	socket 40 POLE
1100	4822 212 23281	IR receiver
1107	4822 242 71711	filter 6,0MHz
1160	4822 210 10415	FQ816/IF
1160	4822 210 10409	FQ816ME/IF
1160	4822 210 10416	FQ816MF/IF
1379	4822 242 70736	crystal 7,159 090 MHz
1380	4822 242 70304	crystal 8,867 238 MHz
1602	4822 242 80276	crystal 10MHz

⊣⊢

2100	4822 124 40684	150µF 20% 6,3V
2107	4822 122 32863	22nF 80% 50V
2111	4822 122 32863	22nF 80% 50V
2114	4822 124 22606	68µF 20% 16V
2118	4822 122 31797	22nF 10% 63V
2119	4822 122 31797	22nF 10% 63V
2120	4822 122 32863	22nF 80% 50V
2121	5322 122 31647	1nF 10% 63V
2122	4822 122 32442	10nF 50V
2123	4822 126 11804	330nF
2130	4822 122 31797	22nF 10% 63V
2131	4822 124 22606	68µF 20% 16V
2132	4822 122 31797	22nF 10% 63V
2137	4822 122 32442	10nF 50V
2138	4822 124 40193	68µF 20% 16V
2160	4822 124 40849	330µF 20% 16V
2161	4822 122 33496	100nF 10% 63V
2163	4822 122 33496	100nF 10% 63V
2164	4822 122 33496	100nF 10% 63V
2166	4822 124 40684	150µF 20% 6,3V
2168	4822 122 32927	220nF
2169	4822 122 32442	10nF 50V

⊣⊢

2170	4822 124 40195	150µF 20% 16V
2171	4822 122 32862	10nF 80% 50V
2172	4822 124 41506	47µF 20% 16V
2188	4822 122 32863	22nF 80% 50V
2189	4822 122 32863	22nF 80% 50V
2190	4822 122 32863	22nF 80% 50V
2191	4822 122 32863	22nF 80% 50V
2193	4822 122 32153	1,8nF 10% 63V
2194	4822 122 32153	1,8nF 10% 63V
2196	4822 124 22606	68µF 20% 16V
2197	4822 124 22606	68µF 20% 16V
2216	4822 122 32927	220nF
2219	4822 122 32927	220nF
2234	4822 122 32927	220nF
2240	4822 122 32927	220nF
2241	4822 121 42408	220nF 5% 63V
2250	4822 122 31947	100nF 20% 63V
2251	4822 122 31947	100nF 20% 63V
2253	4822 126 11492	220nF 10% 50V
2254	4822 122 32927	220nF
2255	4822 124 41643	100µF 20% 16V
2257	4822 122 31947	100nF 20% 63V
2258	4822 122 31765	100pF 5% 50V
2260	4822 122 31947	100nF 20% 63V
2261	4822 122 31947	100nF 20% 63V
2268	4822 122 31947	100nF 20% 63V
2269	4822 122 32482	22pF 5% 63V
2274	4822 122 32862	10nF 80% 50V
2301	5322 122 31647	1nF 10% 63V
2305	4822 122 32444	33pF 5% 50V
2306	4822 122 31772	47pF 5% 50V
2310	4822 122 31774	56pF 5% 50V
2311	4822 122 31765	100pF 5% 50V
2311	4822 122 31808	150pF 10% 50V
2312	4822 122 32863	22nF 80% 50V
2318	4822 121 42408	220nF 5% 63V
2320	4822 121 51412	560nF 10% 63V
2322	4822 121 51412	560nF 10% 63V
2324	4822 122 32863	22nF 80% 50V
2326	4822 122 31765	100pF 5% 50V
2327	4822 122 31765	100pF 5% 50V
2328	4822 122 31765	100pF 5% 50V
2330	5322 122 31842	330pF 5% 63V
2331	5322 122 31842	330pF 5% 63V
2338	4822 122 31972	39pF 5% 50V
2338	4822 122 31772	47pF 5% 50V
2339	4822 122 31772	47pF 5% 50V
2342	4822 122 31972	39pF 5% 50V
2343	4822 122 31727	470pF 5% 63V
2344	4822 122 31775	680pF 5% 50V
2345	4822 122 31807	1200pF 5% 50V
2347	5322 122 31647	1nF 10% 63V
2353	4822 122 32862	10nF 80% 50V
2360	4822 124 40272	33µF 20% 16V
2361	4822 124 40849	330µF 20% 16V
2365	4822 122 31352	180pF 2% 100V
2366	4822 122 32863	22nF 80% 50V
2367	4822 122 32862	10nF 80% 50V
2368	4822 122 32862	10nF 80% 50V
2369	4822 122 31825	27pF 10% 50V
2371	4822 122 31825	27pF 10% 50V
2372	4822 122 31965	220pF 5% 63V
2373	4822 122 31965	220pF 5% 63V
2374	4822 122 32863	22nF 80% 50V
2374	4822 051 10008	0Ω 5% 0,25W
2375	4822 122 32863	22nF 80% 50V
2376	5322 122 31641	47nF 50V
2377	5322 121 42661	330nF 5% 63V

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2378	4822 122 31947	100nF 20% 63V
2379	4822 125 50207	33pF trim.
2380	4822 125 50207	33pF trim.
2381	5322 121 42661	330nF 5% 63V
2382	5322 122 31647	1nF 10% 63V
2383	4822 122 32442	10nF 50V
2384	5322 122 31647	1nF 10% 63V
2385	4822 122 32442	10nF 50V
2386	4822 122 32862	10nF 80% 50V
2387	4822 124 40435	10µF 20% 50V
2388	5322 122 33446	3,3nF 10% 63V
2390	4822 122 32863	22nF 80% 50V
2391	4822 122 32863	22nF 80% 50V
2392	4822 122 32863	22nF 80% 50V
2433	4822 122 32863	22nF 80% 50V
2434	4822 122 32863	22nF 80% 50V
2435	4822 122 32863	22nF 80% 50V
2436	4822 122 31772	47pF 5% 50V
2438	4822 122 32863	22nF 80% 50V
2440	4822 122 32863	22nF 80% 50V
2442	4822 122 32863	22nF 80% 50V
2445	4822 122 31947	100nF 20% 63V
2446	4822 122 31947	100nF 20% 63V
2447	4822 122 31947	100nF 20% 63V
2451	5322 121 42661	330nF 5% 63V
2452	4822 124 40242	1µF 20% 63V
2453	4822 122 31774	56pF 5% 50V
2454	4822 122 32444	33pF 5% 50V
2455	4822 122 32444	33pF 5% 50V
2456	4822 122 32444	33pF 5% 50V
2476	4822 124 40435	10µF 20% 50V
2479	4822 122 33105	56nF 10% 63V
2480	4822 124 40272	33µF 20% 16V
2600	4822 122 31947	100nF 20% 63V
2602	4822 122 31947	100nF 20% 63V
2604	4822 122 31947	100nF 20% 63V
2606	4822 122 31947	100nF 20% 63V
2608	4822 122 32927	220nF
2620	4822 122 32927	220nF
2622	4822 122 32927	220nF
2624	5322 122 31842	330pF 5% 63V
2626	4822 121 42408	220nF 5% 63V
2627	4822 124 41678	22µF 20% 25V
2628	5322 122 31842	330pF 5% 63V
2630	4822 122 32927	220nF
2632	5322 122 31842	330pF 5% 63V
2634	4822 121 42408	220nF 5% 63V
2636	5322 122 31842	330pF 5% 63V
2638	4822 121 42408	220nF 5% 63V
2640	5322 122 31842	330pF 5% 63V
2642	4822 122 32927	220nF
2644	5322 122 31842	330pF 5% 63V
2646	4822 122 32927	220nF
2658	4822 122 31961	68pF 5% 63V
2659	4822 122 31961	68pF 5% 63V
2660	5322 122 31647	1nF 10% 63V
2662	5322 122 31647	1nF 10% 63V
2664	4822 122 32153	1,8nF 10% 63V
2666	4822 122 32153	1,8nF 10% 63V
2680	4822 122 31947	100nF 20% 63V
2681	4822 122 32542	47nF 10% 63V
2682	4822 124 40195	150µF 20% 16V
2684	4822 121 51252	470nF 5% 63V
2686	4822 121 51252	470nF 5% 63V
2688	4822 122 31782	15nF 10% 50V
2690	4822 122 31782	15nF 10% 50V
2692	4822 122 31981	33nF ±0,5pF 50V
2694	4822 122 31916	5,6nF 10% 63V

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Small signal panel (continued)

2696	4822 122 31981	33nF ±0,5pF 50V
2697	4822 122 31965	220pF 5% 63V
2698	4822 122 31916	5,6nF 10% 63V
2699	4822 122 31965	220pF 5% 63V
2700	4822 124 40242	1µF 20% 63V
2702	4822 124 40242	1µF 20% 63V
2704	4822 122 31644	2,2nF 10% 63V
2706	4822 124 41678	22µF 20% 25V
2707	4822 122 31784	4,7nF 10% 50V
2714	4822 122 32863	22nF 80% 50V
2716	4822 122 32597	6,8nF 10% 63V
2720	4822 124 41678	22µF 20% 25V
2721	4822 122 31784	4,7nF 10% 50V
2726	4822 122 31644	2,2nF 10% 63V
2727	4822 124 42362	33µF 20% 16V
2728	4822 124 42362	33µF 20% 16V
2734	4822 122 32863	22nF 80% 50V
2736	4822 122 32597	6,8nF 10% 63V

3100	4822 051 10102	1k 2% 0,25W
3101	4822 116 52175	100Ω 5% 0,5W
3102	4822 051 10101	100Ω 2% 0,25W
3103	4822 051 10101	100Ω 2% 0,25W
3104	4822 116 52175	100Ω 5% 0,5W
3105	4822 051 10101	100Ω 2% 0,25W
3106	4822 051 10101	100Ω 2% 0,25W
3107	4822 051 10103	10k 2% 0,25W
3108	4822 051 10104	100k 2% 0,25W
3109	4822 116 52217	270Ω 5% 0,5W
3110	4822 051 10101	100Ω 2% 0,25W
3111	4822 051 10101	100Ω 2% 0,25W
3113	4822 116 52175	100Ω 5% 0,5W
3114	4822 116 52175	100Ω 5% 0,5W
3115	4822 116 52175	100Ω 5% 0,5W
3117	4822 051 20222	2k2 5% 0,1W
3119	4822 051 20222	2k2 5% 0,1W
3120	4822 051 20222	2k2 5% 0,1W
3121	4822 051 10123	12k 2% 0,25W
3122	4822 051 10822	8k2 2% 0,25W
3123	4822 051 10822	8k2 2% 0,25W
3124	4822 051 10101	100Ω 2% 0,25W
3125	4822 051 10101	100Ω 2% 0,25W
3126	4822 051 10101	100Ω 2% 0,25W
3127	4822 051 10101	100Ω 2% 0,25W
3128	4822 051 10471	470Ω 2% 0,25W
3129	4822 116 52175	100Ω 5% 0,5W
3130	4822 051 10101	100Ω 2% 0,25W
3131	4822 116 52175	100Ω 5% 0,5W
3132	4822 116 52175	100Ω 5% 0,5W
3133	4822 051 10151	150Ω 2% 0,25W
3134	4822 116 52175	100Ω 5% 0,5W
3135	4822 051 10101	100Ω 2% 0,25W
3136	4822 051 10101	100Ω 2% 0,25W
3137	4822 116 52183	16Ω 5% 0,5W
3138	4822 116 52175	100Ω 5% 0,5W
3139	4822 116 52175	100Ω 5% 0,5W
3140	4822 050 11002	1k 1% 0,4W
3141	4822 050 11002	1k 1% 0,4W
3142	4822 050 11002	1k 1% 0,4W
3143	4822 050 11002	1k 1% 0,4W
3144	4822 050 11002	1k 1% 0,4W
3145	4822 050 11002	1k 1% 0,4W
3146	4822 050 11002	1k 1% 0,4W
3147	4822 116 52283	4k7 5% 0,5W
3148	4822 051 10473	47k 2% 0,25W
3149	4822 051 10473	47k 2% 0,25W
3150	4822 051 10473	47k 2% 0,25W
3151	4822 051 10562	5k6 2% 0,25W
3152	4822 051 10103	10k 2% 0,25W
3153	4822 051 10103	10k 2% 0,25W
3154	4822 051 10152	1k5 2% 0,25W
3155	4822 051 10104	100k 2% 0,25W
3156	4822 051 10562	5k6 2% 0,25W
3157	4822 050 11002	1k 1% 0,4W
3158	4822 050 11002	1k 1% 0,4W
3159	4822 051 10103	10k 2% 0,25W
3160	4822 052 10758	7Ω5 5% 0,33W
3160	4822 052 10109	10Ω 5% 0,33W
3161	4822 051 10103	10k 2% 0,25W
3162	4822 052 10758	7Ω5 5% 0,33W
3163	4822 051 10223	22k 2% 0,25W
3164	4822 051 10101	100Ω 2% 0,25W
3165	4822 051 10101	100Ω 2% 0,25W
3166	4822 052 10228	2Ω2 5% 0,33W
3167	4822 051 10122	1k2 2% 0,25W
3168	4822 051 10242	2k4 2% 0,25W
3169	4822 050 11002	1k 1% 0,4W
3170	4822 116 82772	3Ω9 55 0,33W
3171	4822 052 11511	510Ω 5% 0,5W
3172	4822 111 41424	22Ω 5% 0,3W
3172	4822 052 10229	22Ω 5% 0,33W
3175	4822 051 10153	15k 2% 0,25W
3176	4822 051 10103	10k 2% 0,25W
3177	4822 051 10103	10k 2% 0,25W
3178	4822 051 10223	22k 2% 0,25W
3180	4822 116 52224	470Ω 5% 0,5W
3181	4822 051 10822	8k2 2% 0,25W
3182	4822 116 52214	200Ω 5% 0,5W
3183	4822 116 52233	10k 5% 0,5W
3184	4822 116 90536	120Ω 1% 0,125W
3185	4822 051 10471	470Ω 2% 0,25W
3186	4822 116 52256	2k2 5% 0,5W
3187	4822 051 10759	75Ω 2% 0,25W
3188	4822 051 20222	2k2 5% 0,1W
3189	4822 051 10223	22k 2% 0,25W
3190	4822 051 10823	82k 2% 0,25W
3191	4822 116 81202	62k 1% 0,125W
3192	4822 051 10153	15k 2% 0,25W
3193	4822 051 10331	330Ω 2% 0,25W
3194	4822 051 10331	330Ω 2% 0,25W
3196	4822 051 10473	47k 2% 0,25W
3197	4822 051 10473	47k 2% 0,25W
3200	4822 051 10472	4k7 2% 0,25W
3201	4822 051 10472	4k7 2% 0,25W
3205	4822 051 10759	75Ω 2% 0,25W
3206	4822 051 10759	75Ω 2% 0,25W
3207	4822 051 10759	75Ω 2% 0,25W
3208	4822 051 10101	100Ω 2% 0,25W
3209	4822 051 10101	100Ω 2% 0,25W
3210	4822 051 10101	100Ω 2% 0,25W
3211	4822 116 52217	270Ω 5% 0,5W
3215	4822 051 10689	68Ω 2% 0,25W
3216	4822 116 81193	15Ω 5% 0,3W
3216	4822 052 10159	15Ω 5% 0,33W
3217	4822 116 52224	470Ω 5% 0,5W
3218	4822 051 10471	470Ω 2% 0,25W
3219	4822 051 10471	470Ω 2% 0,25W
3220	4822 051 10471	470Ω 2% 0,25W
3222	4822 116 52217	270Ω 5% 0,5W
3224	4822 051 10759	75Ω 2% 0,25W
3225	4822 051 10471	470Ω 2% 0,25W
3232	4822 051 10102	1k 2% 0,25W
3233	4822 051 10102	1k 2% 0,25W
3234	4822 051 10759	75Ω 2% 0,25W
3235	4822 051 10759	75Ω 2% 0,25W
3237	4822 116 52217	270Ω 5% 0,5W
3238	4822 116 52222	390Ω 5% 0,5W
3239	4822 051 10271	270Ω 2% 0,25W
3240	4822 051 10759	75Ω 2% 0,25W
3241	4822 051 10759	75Ω 2% 0,25W
3253	4822 051 10331	330Ω 2% 0,25W
3254	4822 116 81193	15Ω 5% 0,3W
3254	4822 052 10159	15Ω 5% 0,33W
3255	4822 051 10101	100Ω 2% 0,25W
3255	4822 051 10821	820Ω 2% 0,25W
3259	4822 051 10103	10k 2% 0,25W
3260	4822 116 81193	15Ω 5% 0,3W
3260	4822 052 10159	15Ω 5% 0,33W
3261	4822 051 10471	470Ω 2% 0,25W
3262	4822 051 10103	10k 2% 0,25W
3263	4822 051 10689	68Ω 2% 0,25W
3264	4822 051 10471	470Ω 2% 0,25W
3265	4822 051 10103	10k 2% 0,25W
3266	4822 051 10103	10k 2% 0,25W
3267	4822 051 10103	10k 2% 0,25W
3268	4822 051 10101	100Ω 2% 0,25W
3269	4822 051 10561	560Ω 2% 0,25W
3270	4822 051 10472	4k7 2% 0,25W
3271	4822 051 10471	470Ω 2% 0,25W
3272	4822 116 52228	680Ω 5% 0,5W
3273	4822 051 10471	470Ω 2% 0,25W
3274	4822 051 10103	10k 2% 0,25W
3275	4822 051 10689	68Ω 2% 0,25W
3276	4822 051 10471	470Ω 2% 0,25W
3277	4822 051 10271	270Ω 2% 0,25W
3278	4822 051 10273	27k 2% 0,25W
3279	4822 051 10689	68Ω 2% 0,25W
3280	4822 051 10273	27k 2% 0,25W
3281	4822 116 52201	75Ω 5% 0,5W
3285	4822 051 10103	10k 2% 0,25W
3286	4822 051 10103	10k 2% 0,25W
3287	4822 051 10103	10k 2% 0,25W
3288	4822 051 10103	10k 2% 0,25W
3300	4822 051 10103	10k 2% 0,25W
3301	4822 051 10332	3k3 2% 0,25W
3303	4822 051 10201	200Ω 2% 0,25W
3304	4822 051 10241	240Ω 2% 0,25W
3305	4822 051 10104	100k 2% 0,25W
3306	4822 051 10241	240Ω 2% 0,25W
3310	4822 116 52207	1k2 5% 0,5W
3311	4822 051 10182	1k8 2% 0,25W
3312	4822 051 10511	510Ω 2% 0,25W
3313	4822 051 10362	3k6 2% 0,25W
3314	4822 051 10102	1k 2% 0,25W
3315	4822 051 10103	10k 2% 0,25W
3316	4822 051 10112	1k1 2% 0,25W
3317	4822 116 52233	10k 5% 0,5W
3324	4822 051 10223	22k 2% 0,25W
3325	4822 051 10682	6k8 2% 0,25W
3326	4822 051 10103	10k 2% 0,25W
3327	4822 051 10122	1k2 2% 0,25W
3328	4822 051 10271	270Ω 2% 0,25W
3329	4822 051 10108	1Ω 5% 0,25W
3329	4822 051 10392	3k9 2% 0,25W
3330	4822 051 10108	1Ω 5% 0,25W
3331	4822 051 10108	1Ω 5% 0,25W
3336	4822 051 10472	4k7 2% 0,25W
3338	4822 051 10391	390Ω 2% 0,25W
3339	4822 051 10153	15k 2% 0,25W
3339	4822 051 10391	390Ω 2% 0,25W
3342	4822 051 20222	2k2 5% 0,1W
3344	4822 051 10273	27k 2% 0,25W
3345	4822 051 10102	1k 2% 0,25W

Small signal panel (continued)

3350	4822 116 90536	120Ω 1% 0,125W
3351	4822 051 10472	4k7 2% 0,25W
3353	4822 051 10332	3k3 2% 0,25W
3360	4822 052 10278	2Ω7 5% 0,33W
3361	4822 051 10102	1k 2% 0,25W
3369	4822 051 10331	330Ω 2% 0,25W
3370	4822 100 11391	330 30% LIN
3371	4822 051 10431	430Ω 2% 0,25W
3372	4822 051 10331	330Ω 2% 0,25W
3375	4822 051 10008	0Ω 5% 0,25W
3376	4822 116 52286	5k1 5% 0,5W
3377	4822 051 10332	3k3 2% 0,25W
3377	4822 051 10103	10k 2% 0,25W
3380	4822 050 11002	1k 1% 0,4W
3383	4822 051 10103	10k 2% 0,25W
3385	4822 051 10105	1M 5% 0,25W
3387	4822 050 11002	1k 1% 0,4W
3389	4822 051 10182	1k8 2% 0,25W
3390	4822 051 10911	910Ω 2% 0,25W
3399	4822 116 80176	1Ω 5% 0,5W
3410	4822 116 52224	470Ω 5% 0,5W
3414	4822 116 52175	100Ω 5% 0,5W
3425	4822 116 52224	470Ω 5% 0,5W
3426	4822 116 52224	470Ω 5% 0,5W
3439	4822 051 10181	180Ω 2% 0,25W
3441	4822 051 10181	180Ω 2% 0,25W
3443	4822 051 10181	180Ω 2% 0,25W
3450	4822 051 20222	2k2 5% 0,1W
3451	4822 051 10432	4k3 2% 0,25W
3453	4822 051 10511	510Ω 2% 0,25W
3454	4822 051 10101	100Ω 2% 0,25W
3455	4822 051 10101	100Ω 2% 0,25W
3456	4822 051 10101	100Ω 2% 0,25W
3465	4822 116 52283	4k7 5% 0,5W
3471	4822 116 52233	10k 5% 0,5W
3472	4822 051 10682	6k8 2% 0,25W
3473	4822 051 10362	3k6 2% 0,25W
3475	4822 051 10124	120k 2% 0,25W
3476	4822 051 10154	150k 2% 0,25W
3477	4822 116 52286	5k1 5% 0,5W
3478	4822 116 52224	470Ω 5% 0,5W
3479	4822 051 10223	22k 2% 0,25W
3480	4822 052 10278	2Ω7 5% 0,33W
3481	4822 052 10278	2Ω7 5% 0,33W
3482	4822 116 52223	430Ω 5% 0,5W
3483	4822 116 52175	100Ω 5% 0,5W
3492	4822 051 10471	470Ω 2% 0,25W
3600	4822 051 10362	3k6 2% 0,25W
3600	4822 051 10472	4k7 2% 0,25W
3602	4822 100 11212	2k2 30% LIN
3603	4822 051 10332	3k3 2% 0,25W
3604	4822 051 10182	1k8 2% 0,25W
3605	4822 051 10472	4k7 2% 0,25W
3606	4822 052 10279	27Ω 5% 0,33W
3607	4822 051 10302	3k 2% 0,25W
3608	4822 051 10101	100Ω 2% 0,25W
3610	4822 051 10101	100Ω 2% 0,25W
3612	4822 051 10102	1k 2% 0,25W
3620	4822 051 10184	180k 2% 0,25W
3622	4822 051 10184	180k 2% 0,25W
3624	4822 051 10102	1k 2% 0,25W
3626	4822 051 10184	180k 2% 0,25W
3628	4822 051 10102	1k 2% 0,25W
3630	4822 051 10184	180k 2% 0,25W
3632	4822 051 10102	1k 2% 0,25W
3634	4822 051 10184	180k 2% 0,25W
3636	4822 051 10102	1k 2% 0,25W
3638	4822 051 10184	180k 2% 0,25W

3640	4822 051 10102	1k 2% 0,25W
3642	4822 051 10184	180k 2% 0,25W
3644	4822 051 10102	1k 2% 0,25W
3646	4822 051 10184	180k 2% 0,25W
3650	4822 051 10392	3k9 2% 0,25W
3651	4822 051 10123	12k 2% 0,25W
3652	4822 051 10392	3k9 2% 0,25W
3653	4822 051 10123	12k 2% 0,25W
3654	4822 116 52244	15k 5% 0,5W
3660	4822 051 10331	330Ω 2% 0,25W
3662	4822 051 10151	150Ω 2% 0,25W
3664	4822 051 10331	330Ω 2% 0,25W
3665	4822 116 81193	15Ω 5% 0,33W
3666	4822 051 10151	150Ω 2% 0,25W
3668	4822 051 10331	330Ω 2% 0,25W
3672	4822 051 10331	330Ω 2% 0,25W
3680	4822 052 10279	27Ω 5% 0,33W
3682	4822 051 10568	5Ω6 2% 0,25W
3684	4822 116 52175	100Ω 5% 0,5W
3686	4822 116 52175	100Ω 5% 0,5W
3700	4822 116 52263	2k7 5% 0,5W
3702	4822 051 10223	22k 2% 0,25W
3704	4822 051 10102	1k 2% 0,25W
3706	4822 116 81203	10Ω 5% 0,3W
3706	4822 052 10109	10Ω 5% 0,33W
3708	4822 051 10101	100Ω 2% 0,25W
3710	4822 051 20183	18k 5% 0,1W
3712	4822 116 52203	91Ω 5% 0,5W
3713	4822 116 52203	91Ω 5% 0,5W
3714	4822 051 10828	8Ω2 5% 0,25W
3720	4822 116 81203	10Ω 5% 0,3W
3720	4822 052 10109	10Ω 5% 0,33W
3722	4822 116 52263	2k7 5% 0,5W
3724	4822 051 10223	22k 2% 0,25W
3726	4822 051 10102	1k 2% 0,25W
3728	4822 051 10101	100Ω 2% 0,25W
3730	4822 051 20183	18k 5% 0,1W
3732	4822 116 52203	91Ω 5% 0,5W
3733	4822 116 52203	91Ω 5% 0,5W
3734	4822 051 10828	8Ω2 5% 0,25W

Jumpers

4066	4822 051 10008	0Ω 5% 0,25W
4103	4822 051 10008	0Ω 5% 0,25W
4105	4822 051 10008	0Ω 5% 0,25W
4106	4822 051 10008	0Ω 5% 0,25W
4107	4822 051 10008	0Ω 5% 0,25W
4108	4822 051 10008	0Ω 5% 0,25W
4109	4822 051 10008	0Ω 5% 0,25W
4110	4822 051 10008	0Ω 5% 0,25W
4111	4822 051 10008	0Ω 5% 0,25W
4112	4822 051 10008	0Ω 5% 0,25W
4116	4822 051 10008	0Ω 5% 0,25W
4117	4822 051 10008	0Ω 5% 0,25W
4120	4822 051 10008	0Ω 5% 0,25W
4127	4822 051 10008	0Ω 5% 0,25W
4130	4822 051 10008	0Ω 5% 0,25W
4148	4822 051 10008	0Ω 5% 0,25W
4161	4822 051 10008	0Ω 5% 0,25W
4162	4822 051 10008	0Ω 5% 0,25W
4164	4822 051 10008	0Ω 5% 0,25W
4166	4822 051 10008	0Ω 5% 0,25W
4170	4822 051 10008	0Ω 5% 0,25W
4171	4822 051 10008	0Ω 5% 0,25W
4184	4822 051 10008	0Ω 5% 0,25W
4200	4822 051 10008	0Ω 5% 0,25W
4201	4822 051 10008	0Ω 5% 0,25W
4203	4822 051 10008	0Ω 5% 0,25W

Jumpers

4205	4822 051 10008	0Ω 5% 0,25W
4209	4822 051 10008	0Ω 5% 0,25W
4220	4822 051 10008	0Ω 5% 0,25W
4234	4822 051 10008	0Ω 5% 0,25W
4235	4822 051 10008	0Ω 5% 0,25W
4236	4822 051 10008	0Ω 5% 0,25W
4237	4822 051 10008	0Ω 5% 0,25W
4241	4822 051 10008	0Ω 5% 0,25W
4246	4822 051 10008	0Ω 5% 0,25W
4280	4822 051 10008	0Ω 5% 0,25W
4300	4822 051 10008	0Ω 5% 0,25W
4319	4822 051 10008	0Ω 5% 0,25W
4320	4822 051 10008	0Ω 5% 0,25W
4321	4822 051 10008	0Ω 5% 0,25W
4330	4822 051 10008	0Ω 5% 0,25W
4331	4822 051 10008	0Ω 5% 0,25W
4346	4822 051 10008	0Ω 5% 0,25W
4350	4822 051 10008	0Ω 5% 0,25W
4360	4822 051 10008	0Ω 5% 0,25W
4361	4822 051 10008	0Ω 5% 0,25W
4376	4822 051 10008	0Ω 5% 0,25W
4386	4822 051 10008	0Ω 5% 0,25W
4420	4822 051 10008	0Ω 5% 0,25W
4440	4822 051 10008	0Ω 5% 0,25W
4452	4822 051 10008	0Ω 5% 0,25W
4453	4822 051 10008	0Ω 5% 0,25W
4454	4822 051 10008	0Ω 5% 0,25W
4460	4822 051 10008	0Ω 5% 0,25W
4497	4822 051 10008	0Ω 5% 0,25W
4498	4822 051 10008	0Ω 5% 0,25W
4500	4822 051 10008	0Ω 5% 0,25W
4591	4822 051 10008	0Ω 5% 0,25W
4600	4822 051 10008	0Ω 5% 0,25W
4610	4822 051 10008	0Ω 5% 0,25W
4672	4822 051 10008	0Ω 5% 0,25W
4673	4822 051 10008	0Ω 5% 0,25W
9091	4822 051 10008	0R00 5% 0,25W

5100	4822 157 53906	47µH 10%
5107	4822 157 51462	10µH 10%
5115	4822 152 20677	10µH 10%
5270	4822 157 52983	22µH 10%
5305	4822 157 62823	26µH 6%
5310	4822 157 63245	82µH 10%
5345	4822 157 62822	4,5µH 6%
5346	4822 157 62823	26µH 6%
5370	4822 157 62824	7,5µH 6%
5454	4822 157 63065	0,68µH 20%
5455	4822 157 63065	0,68µH 20%
5456	4822 157 63065	0,68µH 20%

6117	4822 130 80906	LLZ-F7V5
6120	4822 130 80446	LL4148
6121	4822 130 80446	LL4148
6130	4822 130 80446	LL4148
6163	4822 130 81226	LLZ-F33
6165	4822 130 80446	LL4148
6166	4822 130 80446	LL4148
6168	4822 130 80446	LL4148
6172	4822 130 80906	LLZ-C7V5
6173	4822 130 80446	LL4148
6178	4822 130 81222	LLZ-C15
6205	4822 130 80446	LL4148
6206	4822 130 80446	LL4148
6207	4822 130 80446	LL4148

Small

6256	
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7451	
7471	

Small signal panel (continued)

6256	4822 130 80446	LL4148
6257	4822 130 80446	LL4148
6280	4822 130 80446	LL4148
6281	4822 130 80446	LL4148
6342	4822 130 80888	BA682
6343	4822 130 80888	BA682
6386	4822 130 80446	LL4148
6387	4822 130 80954	LLZ-C5V6
6450	4822 130 81512	LLZ-C6V2
6465	4822 130 80446	LL4148
6478	4822 130 82345	LLZ-C22
6479	4822 130 80877	BAV103
6480	4822 130 82348	LLZ-F9V1
6660	4822 130 80446	LL4148
6661	4822 130 81223	LLZ-C2V4
6662	4822 130 80446	LL4148
6663	4822 130 81223	LLZ-C2V4
6664	4822 130 80446	LL4148
6665	4822 130 80446	LL4148

7107	5322 130 41982	BC848B
7108	4822 209 61887	MSM6307RS
7119	5322 130 41982	BC848B
7120	5322 130 41982	BC848B
7121	4822 130 42513	BC858C
7130	5322 130 42136	BC848C
7137	4822 209 62524	X24C16P
7137	4822 209 71521	X2404
7175	5322 209 10883	PCF8574P
7176	4822 130 42513	BC858C
7177	4822 130 42513	BC858C
7178	5322 130 41982	BC848B
7182	5322 130 44743	BSR12
7183	5322 130 41982	BC848B
7186	4822 209 73852	PMBT2369
7188	4822 130 60511	BC847B
7193	4822 209 83163	LM833N
7193	4822 209 61115	LF353N
7216	4822 130 42615	BC817-40
7219	4822 209 63292	TEA6414
7258	5322 209 10421	HEF4094BP
7260	4822 130 42615	BC817-40
7261	5322 130 42136	BC848C
7265	5322 130 41982	BC848B
7268	4822 130 42615	BC817-40
7270	5322 130 41982	BC848B
7273	4822 130 42615	BC817-40
7305	5322 130 41983	BC858B
7311	5322 130 41982	BC848B
7312	5322 130 42136	BC848C
7313	4822 130 42513	BC858C
7314	5322 130 42136	BC848C
7315	5322 130 42136	BC848C
7324	4822 209 71512	TDA4565/V6
7326	5322 130 42136	BC848C
7338	5322 130 41982	BC848B
7350	5322 130 41982	BC848B
7360	4822 130 42615	BC817-40
7364	4822 209 30389	TDA4510/V8
7365	4822 209 30837	TDA4650/V4/S1
7366	4822 209 63108	TDA4660/V2S2
7410	4822 209 73852	PMBT2369
7430	4822 209 63733	TDA4680/V5
7450	5322 130 42755	BC847C
7451	5322 130 42755	BC847C
7471	5322 130 42136	BC848C

7480	5322 130 44921	BD943
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

Spare parts list / Stückliste / Liste

PIP panel J

Connectors

	4822 265 40503	5P female gold plated
	4822 265 40472	10P female gold plated
	4822 265 30828	5P male

Various parts

1023	4822 212 23909	PIP panel MULTI
1023	4822 212 23911	PIP panel PAL
1155	4822 320 40051	DL711
1201	4822 242 70304	crystal 8,867 238 MHz
1212	4822 242 70736	crystal 7,159 090 MHz
1610	4822 242 80275	filter OFWG3962

Capacitors

2103	4822 122 32444	33pF 5% 50V
2105	4822 122 31766	120pF 5% 50V
2118	4822 122 31775	680pF 5% 50V
2119	4822 122 31808	150pF 10% 50V
2120	4822 122 31807	1200pF 5% 50V
2125	4822 122 32863	22nF 80% 50V
2155	4822 122 32862	10nF 80% 50V
2158	4822 122 32862	10nF 80% 50V
2160	4822 121 42408	220nF 5% 63V
2161	4822 121 41854	150nF 5% 63V
2162	4822 122 31947	100nF 20% 63V
2171	4822 122 31961	68pF 5% 63V
2172	4822 126 11175	22pF 5% 50V
2176	4822 126 11175	22pF 5% 50V
2177	4822 122 31961	68pF 5% 63V
2180	4822 122 31768	180pF 5% 50V
2181	4822 122 31768	180pF 5% 50V
2185	4822 122 32863	22nF 80% 50V
2187	4822 122 32863	22nF 80% 50V
2189	4822 122 31746	1000pF 5% 50V
2196	4822 122 33105	56nF 10% 63V
2197	4822 122 31385	22pF 50V
2201	4822 122 31746	1000pF 5% 50V
2202	4822 125 50045	20pF trim.
2211	4822 122 31746	1000pF 5% 50V
2212	4822 125 50045	20pF trim.
2220	5322 121 42661	330nF 5% 63V
2222	4822 122 32542	47nF 10% 63V
2227	5322 122 31842	330pF 5% 63V
2230	4822 124 41578	6,8µF 20% 50V
2232	4822 124 41678	22µF 20% 25V
2234	4822 122 33496	100nF 10% 63V
2235	4822 124 41578	6,8µF 20% 50V
2238	4822 121 42937	2,7nF 1% 250V
2239	4822 122 31947	100nF 20% 63V
2250	4822 121 51115	270nF 10% 63V
2251	5322 122 31647	1nF 10% 63V
2255	4822 122 31766	120pF 5% 50V
2260	4822 122 31947	100nF 20% 63V
2270	4822 122 31947	100nF 20% 63V
2340	4822 124 41506	47µF 20% 16V
2345	4822 124 41506	47µF 20% 16V
2350	4822 124 40849	330µF 20% 16V
2351	4822 124 41643	100µF 20% 16V
2380	4822 122 32927	220nF
2381	4822 122 32927	220nF
2382	4822 122 32927	220nF
2383	4822 122 32927	220nF
2384	4822 122 32927	220nF
2385	4822 122 32927	220nF
2390	4822 122 31947	100nF 20% 63V
2399	4822 122 31746	1000pF 5% 50V
2404	4822 122 31965	220pF 5% 63V
2405	4822 122 32862	10nF 80% 50V
2409	4822 122 31965	220pF 5% 63V
2410	4822 122 32862	10nF 80% 50V
2413	4822 122 31839	82pF 10% 50V
2414	4822 122 32862	10nF 80% 50V
2415	4822 122 32765	820pF 10% 63V
2430	4822 122 31947	100nF 20% 63V
2432	4822 122 31947	100nF 20% 63V
2434	4822 122 31947	100nF 20% 63V
2438	4822 121 42472	10nF 10% 50V
2439	4822 121 41856	22nF 5% 250V
2440	4822 122 31965	220pF 5% 63V
2441	4822 122 31727	470pF 5% 63V
2442	4822 124 40242	1µF 20% 63V
2446	4822 122 31947	100nF 20% 63V
2448	4822 122 31947	100nF 20% 63V
2449	4822 122 31947	100nF 20% 50V
2450	4822 122 32856	8,2nF 10% 63V
2455	4822 122 31972	39pF 5% 50V
2459	4822 124 41997	TWSS
2466	4822 122 31947	100nF 20% 63V
2470	4822 124 40435	10µF 20% 50V
2619	4822 124 40849	330µF 20% 16V
2627	4822 122 32927	220nF

Resistors

3100	4822 051 10008	0Ω 5% 0,25W
3103	4822 051 10821	820Ω 2% 0,25W
3104	4822 051 10821	820Ω 2% 0,25W
3105	4822 051 10362	3k6 2% 0,25W
3106	4822 051 10103	10k 2% 0,25W
3107	4822 051 10103	10k 2% 0,25W
3108	4822 051 10103	10k 2% 0,25W
3155	4822 051 10391	390Ω 2% 0,25W
3156	4822 051 10122	1k2 2% 0,25W
3157	4822 100 11391	330Ω 30% LIN
3158	4822 051 10759	75Ω 2% 0,25W
3170	4822 051 10112	1k1 2% 0,25W
3175	4822 051 10621	620Ω 2% 0,25W
3196	4822 050 11002	1k 1% 0,4W
3200	4822 051 10103	10k 2% 0,25W
3201	4822 051 10103	10k 2% 0,25W
3202	4822 051 10103	10k 2% 0,25W
3211	4822 051 10103	10k 2% 0,25W
3212	4822 051 10103	10k 2% 0,25W
3214	4822 051 10102	1k 2% 0,25W
3220	4822 051 10512	5k1 2% 0,25W
3221	4822 116 52233	10k 5% 0,5W
3222	4822 051 10008	0Ω 5% 0,25W
3227	4822 116 52299	7k5 5% 0,5W
3228	4822 051 10472	4k7 2% 0,25W
3231	4822 051 10302	3k 2% 0,25W
3232	4822 051 10229	22Ω 2% 0,25W
3233	4822 051 10821	820Ω 2% 0,25W
3234	4822 051 10202	2k 2% 0,25W
3235	4822 051 10122	1k2 2% 0,25W
3236	4822 051 10511	510Ω 2% 0,25W
3237	4822 051 10153	15k 2% 0,25W
3238	4822 051 10333	33k 2% 0,25W
3239	4822 100 11319	4k7 30% LIN
3241	4822 051 10302	3k 2% 0,25W
3242	4822 050 11002	1k 1% 0,4W
3250	4822 051 10911	910Ω 2% 0,25W
3265	4822 051 10104	100k 2% 0,25W
3270	4822 051 10103	10k 2% 0,25W
3275	4822 051 10103	10k 2% 0,25W
3276	4822 051 10102	1k 2% 0,25W
3335	4822 051 10271	270Ω 2% 0,25W
3336	4822 051 10432	4k3 2% 0,25W
3337	4822 116 52207	1k2 5% 0,5W
3338	4822 051 10332	3k3 2% 0,25W
3340	4822 116 52253	2k 5% 0,5W
3341	4822 111 41424	22Ω 5% 0,33W
3345	4822 111 41424	22Ω 5% 0,33W
3353	4822 052 10568	5Ω6 5% 0,33W
3354	4822 051 10271	270Ω 2% 0,25W
3376	4822 051 10102	1k 2% 0,25W
3377	4822 051 10102	1k 2% 0,25W
3378	4822 051 10102	1k 2% 0,25W
3390	4822 051 10151	150Ω 2% 0,25W
3391	4822 051 10181	180Ω 2% 0,25W
3394	4822 051 10151	150Ω 2% 0,25W
3395	4822 051 10181	180Ω 2% 0,25W
3398	4822 051 10151	150Ω 2% 0,25W
3399	4822 051 10181	180Ω 2% 0,25W
3404	4822 051 10431	430Ω 2% 0,25W
3405	4822 051 10271	270Ω 2% 0,25W
3410	4822 051 10391	390Ω 2% 0,25W
3411	4822 051 10361	360Ω 2% 0,25W
3412	4822 051 10361	360Ω 2% 0,25W
3414	4822 116 90536	120Ω 1% 0,125W
3416	4822 051 10182	1k8 2% 0,25W
3434	4822 051 10473	47k 2% 0,25W
3436	4822 051 10473	47k 2% 0,25W
3437	4822 051 10101	100Ω 2% 0,25W
3438	4822 051 10513	51k 2% 0,25W
3440	4822 116 52222	390Ω 5% 0,5W
3441	4822 051 10519	51Ω 2% 0,25W
3442	4822 051 10919	91Ω 2% 0,25W
3444	4822 116 52175	100Ω 5% 0,5W
3446	4822 116 52175	100Ω 5% 0,5W
3448	4822 051 10392	3k9 2% 0,25W
3450	4822 051 10621	620Ω 2% 0,25W
3452	4822 051 10621	620Ω 2% 0,25W
3454	4822 051 10621	620Ω 2% 0,25W
3460	4822 116 52224	470Ω 5% 0,5W
3460	4822 116 52226	560Ω 5% 0,5W
3461	4822 116 52288	510k 5% 0,5W
3462	4822 051 10333	33k 2% 0,25W
3463	4822 116 52299	7k5 5% 0,5W
3464	4822 051 10472	4k7 2% 0,25W
3466	4822 051 10102	1k 2% 0,25W
3467	4822 051 10103	10k 2% 0,25W
3471	4822 051 10103	10k 2% 0,25W
3472	4822 051 10224	220k 2% 0,25W
3473	4822 051 10008	0Ω 5% 0,25W
3618	4822 052 10568	5Ω6 5% 0,33W
3621	4822 051 10105	1M 5% 0,25W
3633	4822 051 10104	100k 2% 0,25W
3634	4822 051 10104	100k 2% 0,25W
3637	4822 051 20183	18k 5% 0,1W
3638	4822 051 10362	3k6 2% 0,25W
3997	4822 051 10339	33Ω 2% 0,25W
3997	4822 051 10399	39Ω 2% 0,25W

Jumpers

4001	4822 051 10008	0Ω 5% 0,25W
4002	4822 051 10008	0Ω 5% 0,25W
4003	4822 051 10008	0Ω 5% 0,25W
4005	4822 051 10008	0Ω 5% 0,25W
4007	4822 051 10008	0Ω 5% 0,25W
4008	4822 051 10008	0Ω 5% 0,25W
4009	4822 051 10008	0Ω 5% 0,25W
4012	4822 051 10008	0Ω 5% 0,25W

PIP p

Jumper

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7400
7402
7404

PIP panel (continued)

Jumpers

4013	4822 051 10008	0Ω 5% 0,25W
4014	4822 051 10008	0Ω 5% 0,25W
4015	4822 051 10008	0Ω 5% 0,25W
4016	4822 051 10008	0Ω 5% 0,25W
4017	4822 051 10008	0Ω 5% 0,25W
4018	4822 051 10008	0Ω 5% 0,25W
4019	4822 051 10008	0Ω 5% 0,25W
4021	4822 051 10008	0Ω 5% 0,25W
4022	4822 051 10008	0Ω 5% 0,25W
4024	4822 051 10008	0Ω 5% 0,25W
4025	4822 051 10008	0Ω 5% 0,25W
4026	4822 051 10008	0Ω 5% 0,25W
4027	4822 051 10008	0Ω 5% 0,25W
4028	4822 051 10008	0Ω 5% 0,25W
4029	4822 051 10008	0Ω 5% 0,25W
4046	4822 051 10008	0Ω 5% 0,25W
4048	4822 051 10008	0Ω 5% 0,25W
4300	4822 051 10008	0Ω 5% 0,25W
4403	4822 051 10008	0Ω 5% 0,25W
4404	4822 051 10008	0Ω 5% 0,25W
4415	4822 051 10008	0Ω 5% 0,25W
4417	4822 051 10008	0Ω 5% 0,25W
4418	4822 051 10008	0Ω 5% 0,25W
4419	4822 051 10008	0Ω 5% 0,25W
4420	4822 051 10008	0Ω 5% 0,25W
4421	4822 051 10008	0Ω 5% 0,25W
4631	4822 051 10008	0Ω 5% 0,25W
4632	4822 051 10008	0Ω 5% 0,25W
4633	4822 051 10008	0Ω 5% 0,25W

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

6300	4822 130 80906	LLZ-C7V5
6301	4822 130 80446	LL4148
6461	4822 130 80879	BZV55-C3V0

7103	5322 130 41982	BC848B
7105	5322 130 41982	BC848B
7125	4822 209 63927	TDA4554/V1
7126	4822 209 30389	TDA4510/V8
7200	5322 130 41982	BC848B
7210	5322 130 41982	BC848B
7233	5322 130 41982	BC848B
7234	5322 130 41982	BC848B
7335	5322 130 41982	BC848B
7337	5322 130 41982	BC848B
7338	5322 130 41982	BC848B
7350	4822 130 42616	BC818-40
7380	4822 209 60479	TEA5114A
7400	5322 130 41983	BC858B
7402	5322 130 41983	BC858B
7404	5322 130 41983	BC858B
7406	4822 209 62473	SDA9087
7408	4822 209 63291	SDA9088/2R
7410	4822 209 63644	SDA9086-3
7466	5322 130 41982	BC848B
7755	4822 209 72363	TDA2579A/N8
7755	4822 209 63423	TDA2579B/N2

NICAM sound module K

Connectors

	4822 265 41087	9P male

Various parts

1001	4822 242 81128	crystal 17.470 000 MHz
1002	4822 242 72301	filter TH316BOM - 20800DAF
1002	4822 242 72303	filter TH316BQM
1003	4822 242 81126	crystal 11.170 000 MHz
1003	4822 242 81127	crystal 13.100 000 MHz
1106	4822 242 72303	filter TH316BQM
1600	4822 212 23907	NICAM PAL BG
1600	4822 212 23908	NICAM PAL I

2000	4822 122 31947	100nF 20% 63V
2001	4822 124 40433	47µF 20% 25V
2002	4822 122 31797	22nF 10% 63V
2003	4822 122 31797	22nF 10% 63V
2004	4822 122 31768	180pF 5% 50V
2005	4822 122 31768	180pF 5% 50V
2006	5322 122 31842	330pF 5% 63V
2007	4822 122 32597	6,8nF 10% 63V
2008	4822 122 31808	150pF 10% 50V
2009	4822 122 32442	10nF 50V
2010	4822 122 31808	150pF 10% 50V
2011	4822 122 31766	120pF 5% 50V
2012	4822 121 41854	150nF 5% 63V
2013	4822 122 31746	1000pF 5% 50V
2014	4822 122 32442	10nF 50V
2015	4822 125 50045	20pF trim.
2016	4822 122 31961	68pF 5% 63V
2017	4822 121 42408	220nF 5% 63V
2018	4822 122 32442	10nF 50V
2019	4822 122 31797	22nF 10% 63V
2020	4822 124 40433	47µF 20% 25V
2021	4822 122 31782	15nF 10% 50V
2021	4822 122 32856	8,2nF 10% 63V
2022	4822 122 31981	33nF ±0,5pF 50V
2022	4822 122 31759	18nF
2023	4822 122 31981	33nF ±0,5pF 50V
2023	4822 122 31759	18nF
2024	4822 122 31782	15nF 10% 50V
2024	4822 122 32856	8,2nF 10% 63V
2025	4822 122 31797	22nF 10% 63V
2026	4822 124 40433	47µF 20% 25V
2027	4822 122 31773	560pF 5% 50V
2028	4822 126 10171	2,7nF 5% 50V
2029	4822 122 32999	2,2nF 5% 50V
2030	4822 122 32999	2,2nF 5% 50V
2031	4822 126 10171	2,7nF 5% 50V
2032	4822 122 31773	560pF 5% 50V
2033	4822 126 11492	220nF 10% 63V
2034	4822 126 11492	220nF 10% 63V
2035	4822 122 31746	1000pF 5% 50V
2036	4822 122 32442	10nF 50V
2037	4822 122 32442	10nF 50V
2038	4822 122 31797	22nF 10% 63V
2039	4822 126 11691	150nF 10% 63V
2040	4822 122 33669	150nF 20% 50V
2041	5322 122 31647	1nF 10% 63V
2042	4822 126 10183	330pF 10% 63V
2043	5322 122 31647	1nF 10% 63V
2044	5322 122 31647	1nF 10% 63V
2050	4822 124 40433	47µF 20% 25V
2051	5322 122 31647	1nF 10% 63V
2245	5322 122 31647	1nF 10% 63V
2246	5322 122 31647	1nF 10% 63V

3000	4822 051 10471	470Ω 2% 0,25W
3002	4822 051 10332	3k3 2% 0,25W
3003	4822 051 10332	3k3 2% 0,25W
3004	4822 051 10104	100k 2% 0,25W
3005	4822 051 10823	82k 2% 0,25W
3007	4822 051 10223	22k 2% 0,25W
3008	4822 051 10223	22k 2% 0,25W
3009	4822 051 10392	3k9 2% 0,25W
3010	4822 051 10104	100k 2% 0,25W
3011	4822 051 10104	100k 2% 0,25W
3012	4822 053 20106	10M 5% 0,25W
3013	4822 051 10824	820k 2% 0,25W
3014	4822 051 10103	10k 2% 0,25W
3015	4822 051 10682	6k8 2% 0,25W
3015	4822 051 10123	12k 2% 0,25W
3016	4822 051 10122	1k2 2% 0,25W
3016	4822 051 20222	2k2 5% 0,1W
3017	4822 051 10122	1k2 2% 0,25W
3017	4822 051 20222	2k2 5% 0,1W
3018	4822 051 10682	6k8 2% 0,25W
3018	4822 051 10123	12k 2% 0,25W
3019	4822 051 10752	7k5 2% 0,25W
3019	4822 051 10562	5k6 2% 0,25W
3020	4822 051 10472	4k7 2% 0,25W
3021	4822 051 10472	4k7 2% 0,25W
3022	4822 051 10472	4k7 2% 0,25W
3023	4822 051 10472	4k7 2% 0,25W
3024	4822 051 10184	180k 2% 0,25W
3025	4822 051 10184	180k 2% 0,25W
3026	4822 051 10101	100Ω 2% 0,25W
3027	4822 051 10101	100Ω 2% 0,25W
3028	4822 051 10103	10k 2% 0,25W
3029	4822 052 10109	10Ω 5% 0,33W
3030	4822 051 10102	1k 2% 0,25W
3031	4822 051 10102	1k 2% 0,25W
3032	4822 051 10569	56Ω 2% 0,25W
3033	4822 051 20222	2k2 5% 0,1W
3034	4822 051 10431	430Ω 2% 0,25W
3035	4822 051 10241	240Ω 2% 0,25W
3036	4822 051 10102	1k 2% 0,25W
3037	4822 051 10159	15Ω 2% 0,25W
3049	4822 051 10223	22k 2% 0,25W
3050	4822 051 10103	10k 2% 0,25W
3099	4822 051 10101	100Ω 2% 0,25W
3099	4822 116 90536	120Ω 1% 0,125W

Jumpers

4002	4822 051 10008	0Ω 5% 0,25W
4003	4822 051 10008	0Ω 5% 0,25W
4005	4822 051 10008	0Ω 5% 0,25W
4052	4822 051 10008	0Ω 5% 0,25W
4053	4822 051 10008	0Ω 5% 0,25W
4054	4822 051 10008	0Ω 5% 0,25W
4055	4822 051 10008	0Ω 5% 0,25W
4100	4822 051 10008	0Ω 5% 0,25W

5000	4822 157 50975	1mH 10%
5001	4822 157 50975	1mH 10%
5002	4822 157 51235	4,7µH 10%
5003	4822 157 51235	4,7µH 10%

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

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

Picture tube panel E

Connectors

	4822 265 20509	2P male grey
	4822 265 40596	2P male
	4822 255 70261	picture tube socket
	4822 255 70262	picture tube socket 21"
	4822 267 40985	6P male
	4822 290 40295	7P male

Various parts

1030	4822 212 23716	PTP 25"-28"
1030	4822 212 23762	PTP 21"
1030	4822 212 23888	PTP 33"

Capacitors

2700	4822 122 33496	100nF 10% 63V
2701	4822 126 11549	5,6pF 10% 50V
2701	4822 122 32506	5,6pF 5% 50V
2703	4822 122 33125	180pF 10% 63V
2704	4822 124 42182	3,3µF 20% 250V
2705	4822 124 40272	33µF 20% 16V
2706	4822 122 31797	22nF 10% 63V
2707	4822 121 51562	33nF 10% 1600V
2708	4822 122 31773	560pF 5% 50V
2709	4822 122 31825	27pF 10% 50V
2710	4822 122 31774	56pF 5% 50V
2711	4822 126 11549	5,6pF 10% 50V
2711	4822 122 32506	5,6pF 5% 50V
2712	4822 126 11175	22pF 5% 50V
2713	4822 121 42066	27nF 10% 400V
2715	4822 121 42066	27nF 10% 400V
2716	4822 122 31797	22nF 10% 63V
2717	4822 121 42066	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

Resistors

3537	4822 053 11128	1Ω2 5% 2W
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
3704	4822 051 10272	2k7 2% 0,25W
3705	4822 051 10242	2k4 2% 0,25W
3705	4822 051 10332	3k3 2% 0,25W
3706	4822 050 21204	120k 1% 0,6W
3706	4822 050 21504	150k 1% 0,6W
3708	4822 111 50518	1k5 5% 0,5W
3709	4822 051 10124	120k 2% 0,25W
3710	4822 051 10008	0Ω 5% 0,25W
3710	4822 051 10333	33k 2% 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
3714	4822 051 10272	2k7 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
3716	4822 050 21504	150k 1% 0,6W
3718	4822 111 50518	1k5 5% 0,5W
3718	4822 111 50579	680Ω 10% 0,5W
3719	4822 051 10008	0Ω 5% 0,25W
3719	4822 051 10333	33k 2% 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
3724	4822 051 10272	2k7 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
3726	4822 050 21504	150k 1% 0,6W
3727	4822 111 50518	1k5 5% 0,5W
3728	4822 111 50518	1k5 5% 0,5W
3728	4822 111 50579	680Ω 10% 0,5W
3730	4822 111 50518	1k5 5% 0,5W
3731	4822 052 10279	27Ω 5% 0,33W
3733	4822 052 11101	100Ω 5% 0,5W
3734	4822 051 10114	110k 2% 0,25W
3735	4822 051 10103	10k 2% 0,25W
3736	4822 051 10333	33k 2% 0,25W
3737	4822 051 10203	20k 2% 0,25W
3738	4822 116 52304	82k 5% 0,5W
3739	4822 116 52186	22Ω 5% 0,5W
3739	4822 116 52195	47Ω 5% 0,5W
3739	4822 116 52191	33Ω 5% 0,5W
3740	4822 051 10114	110k 2% 0,25W
3741	4822 051 10124	120k 2% 0,25W
3742	4822 051 10333	33k 2% 0,25W
3743	4822 051 10333	33k 2% 0,25W
3748	4822 111 50579	680Ω 10% 0,5W
3761	4822 051 10102	1k 2% 0,25W
3761	4822 051 10472	4k7 2% 0,25W
3761	4822 051 20222	2k2 5% 0,1W

Jumpers

4701	4822 051 10008	0Ω 5% 0,25W
4702	4822 051 10008	0Ω 5% 0,25W
4703	4822 051 10008	0Ω 5% 0,25W
4709	4822 051 10008	0Ω 5% 0,25W
4714	4822 051 10008	0Ω 5% 0,25W
4743	4822 051 10008	0Ω 5% 0,25W

Coils

5700	4822 157 52506	12µH 7,5%
5700	4822 158 10551	27µH 7,5%
5700	4822 157 63509	15µH 7,5%
5701	4822 157 52407	39µH 7,5%

Diodes

6700	4822 130 80879	LLZ-C3V0
6701	4822 130 80877	BAV103
6702	4822 130 80877	BAV103
6703	4822 130 80877	BAV103
6704	4822 130 80877	BAV103
6705	4822 130 80877	BAV103
6706	4822 130 80877	BAV103
6707	4822 130 82345	LLZ-C22
6707	4822 130 81143	BZV55-C20
6708	4822 130 30842	BAV21
6709	4822 130 30842	BAV21
6711	4822 130 30842	BAV21
6712	4822 130 80877	BAV103
6713	4822 130 80877	BAV103
6714	4822 130 42606	BYD33J
6715	4822 130 34379	BZX79-B27

Transistors

7704	4822 130 60373	BC856B
7705	4822 209 30007	TDA6101Q/N1
7705	4822 209 63295	TDA6100Q/N2
7706	4822 209 30007	TDA6101Q/N1
7706	4822 209 63295	TDA6100Q/N2
7707	4822 209 30007	TDA6101Q/N1
7707	4822 209 63295	TDA6100Q/N2
7708	4822 130 41646	BF423
7709	4822 130 41646	BF423
7710	4822 130 41646	BF423

Burst detector

Connectors

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

Various parts

1231	4822 242 80364	filter 4,43MHz

2225	4822 124 40196	220µF 20% 16V
2226	4822 122 32927	220nF
2228	4822 122 32927	220nF
2235	4822 122 31965	220pF 5% 63V
2236	4822 122 31772	47pF 5% 50V
2237	4822 122 32142	270pF 5% 63V
2238	4822 122 31768	180pF 5% 50V
2239	4822 122 31947	100nF 20% 63V
2244	4822 124 20722	1µF 10% 63V
2246	4822 122 31947	100nF 20% 63V
2247	4822 122 31766	120pF 5% 50V
2261	4822 124 20678	47µF 10% 10V
2262	4822 122 31808	150pF 10% 50V
2269	4822 124 20726	4,7µF 10% 63V

3200	4822 050 11002	1k 1% 0,4W
3201	4822 116 83006	2M7 5% 0,5W
3203	4822 051 10563	56k 2% 0,25W
3204	4822 051 10103	10k 2% 0,25W
3212	4822 051 10751	750Ω 2% 0,25W
3213	4822 051 10008	0Ω 5% 0,25W
3213	4822 051 10153	15k 2% 0,25W
3214	4822 051 10153	15k 2% 0,25W
3221	4822 051 10472	4k7 2% 0,25W
3223	4822 116 52203	91Ω 5% 0,5W
3225	4822 116 52219	330Ω 5% 0,5W
3226	4822 116 52243	1k5 5% 0,5W
3227	4822 051 10112	1k1 2% 0,25W
3228	4822 051 10474	470k 2% 0,25W
3229	4822 051 10331	330Ω 2% 0,25W
3230	4822 051 10102	1k 2% 0,25W
3231	4822 051 10681	680Ω 2% 0,25W
3236	4822 051 10331	330Ω 2% 0,25W
3250	4822 051 10151	150Ω 2% 0,25W
3258	4822 051 10102	1k 2% 0,25W
3272	4822 051 10471	470Ω 2% 0,25W
3278	4822 051 10472	4k7 2% 0,25W
3280	4822 051 10102	1k 2% 0,25W
3282	4822 051 10103	10k 2% 0,25W
3283	4822 051 10472	4k7 2% 0,25W
3284	4822 051 10102	1k 2% 0,25W
3289	4822 051 10102	1k 2% 0,25W
3302	4822 051 10102	1k 2% 0,25W
3307	4822 051 10474	470k 2% 0,25W
3308	4822 051 10471	470Ω 2% 0,25W
3309	4822 051 10008	0Ω 5% 0,25W
3319	4822 051 10102	1k 2% 0,25W

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

6258	4822 130 80905	LLZ-F5V1

7226	5322 130 41983	BC858B
7228	5322 130 41982	BC848B
7262	5322 130 41983	BC858B
7263	5322 130 41982	BC848B
7264	4822 130 42353	BFS19
7266	5322 130 42136	BC848C
7267	4822 130 42513	BC858C
7274	5322 130 42136	BC848C
7275	4822 130 42513	BC858C
7276	5322 130 41983	BC858B
7277	5322 130 41982	BC848B
7278	5322 130 41982	BC848B

TXT

Connec

Various

1400		
1400		
1110		

2100		
2101		
2102		
2103		
2104		
2106		
2108		
2110		
2112		
2114		
2116		
2118		
2119		
2120		
2122		
2124		
2125		
2126		
2128		
2130		
2132		
2134		
2136		
2142		
2144		
2152		
2154		
2156		
2492		

3001		
3001		
3100		
3101		
3102		
3103		
3104		
3106		
3107		
3108		
3109		
3110		
3111		
3112		
3119		
3120		
3121		
3122		
3123		
3124		
3125		
3132		
3134		
3136		
3138		
3140		
3142		

TXT module L

Connectors

	4822 265 41083	10P

Various parts

1400	4822 212 23601	TXT SCAN
1400	4822 212 23599	TXT EUR
1110	4822 242 71417	crystal 13,875 000 MHz

2100	4822 124 41576	2,2µF 20% 50V
2101	4822 124 41576	2,2µF 20% 50V
2102	4822 122 31797	22nF 10% 63V
2103	4822 124 41678	22µF 20% 25V
2104	4822 124 41643	100µF 20% 16V
2106	4822 122 33205	12pF 10% 63V
2108	4822 122 32542	47nF 10% 63V
2110	4822 124 41506	47µF 20% 16V
2112	4822 122 32442	10nF 50V
2114	4822 122 32542	47nF 10% 63V
2116	4822 122 31825	27pF 10% 50V
2118	4822 122 32504	15pF 5% 50V
2119	4822 122 32444	33pF 5% 50V
2120	4822 122 32442	10nF 50V
2122	4822 122 32504	15pF 5% 50V
2124	5322 122 31647	1nF 10% 63V
2125	4822 122 31773	560pF 5% 50V
2126	4822 122 31727	470pF 5% 63V
2128	4822 122 31797	22nF 10% 63V
2130	4822 122 32142	270pF 5% 63V
2132	4822 122 31765	100pF 5% 50V
2134	4822 122 32891	68nF 10% 63V
2136	4822 122 31965	220pF 5% 63V
2142	4822 122 31797	22nF 10% 63V
2144	4822 122 33496	100nF 10% 63V
2152	4822 122 31797	22nF 10% 63V
2154	4822 124 40435	10µF 20% 50V
2156	4822 122 32142	270pF 5% 63V
2492	4822 122 31797	22nF 10% 63V

3001	4822 051 10279	27Ω 2% 0,25W
3001	4822 051 10229	22Ω 2% 0,25W
3100	4822 052 10189	18Ω 5% 0,33W
3101	4822 051 10103	10k 2% 0,25W
3102	4822 051 10829	82Ω 2% 0,25W
3103	4822 116 52231	820Ω 5% 0,5W
3104	4822 051 10272	2k7 2% 0,25W
3106	4822 116 52233	10k 5% 0,5W
3107	4822 051 10223	22k 2% 0,25W
3108	4822 051 10102	1k 2% 0,25W
3109	4822 051 10562	5k6 2% 0,25W
3110	4822 051 10683	68k 2% 0,25W
3111	4822 051 10472	4k7 2% 0,25W
3112	4822 051 10122	1k2 2% 0,25W
3119	4822 051 10681	680Ω 2% 0,25W
3120	4822 051 10471	470Ω 2% 0,25W
3121	4822 051 10681	680Ω 2% 0,25W
3122	4822 051 10471	470Ω 2% 0,25W
3123	4822 051 10681	680Ω 2% 0,25W
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
3146	4822 051 10102	1k 2% 0,25W
3148	4822 051 10102	1k 2% 0,25W
3150	4822 051 10683	68k 2% 0,25W
3152	4822 051 20222	2k2 5% 0,1W
3154	4822 051 10221	220Ω 2% 0,25W
3156	4822 051 10681	680Ω 2% 0,25W
3158	4822 051 10221	220Ω 2% 0,25W
3160	4822 052 10108	1Ω 5% 0,33W
3161	4822 051 10122	1k2 2% 0,25W
3162	4822 051 10122	1k2 2% 0,25W
3163	4822 051 10122	1k2 2% 0,25W
3164	4822 051 10122	1k2 2% 0,25W
3165	4822 051 10122	1k2 2% 0,25W
3166	4822 051 10122	1k2 2% 0,25W
3167	4822 051 10122	1k2 2% 0,25W
3168	4822 051 10122	1k2 2% 0,25W
3489	4822 051 10911	910Ω 2% 0,25W
3490	4822 051 10223	22k 2% 0,25W
3491	4822 051 10472	4k7 2% 0,25W
3492	4822 051 10271	270Ω 2% 0,25W
3493	4822 051 10512	5k1 2% 0,25W
3494	4822 051 10432	4k3 2% 0,25W
3495	4822 051 10511	510Ω 2% 0,25W
3496	4822 051 10202	2k 2% 0,25W

Jumpers

4101	4822 051 10008	0Ω 5% 0,25W
4102	4822 051 10008	0Ω 5% 0,25W
4103	4822 051 10008	0Ω 5% 0,25W
4104	4822 051 10008	0Ω 5% 0,25W
4105	4822 051 10008	0Ω 5% 0,25W
4106	4822 051 10008	0Ω 5% 0,25W
4107	4822 051 10008	0Ω 5% 0,25W
4108	4822 051 10008	0Ω 5% 0,25W
4109	4822 051 10008	0Ω 5% 0,25W
4110	4822 051 10008	0Ω 5% 0,25W
4111	4822 051 10008	0Ω 5% 0,25W
4112	4822 051 10008	0Ω 5% 0,25W
4120	4822 051 10008	0Ω 5% 0,25W

5100	4822 157 62821	50µH
5102	4822 157 50965	15µH 10%
5104	4822 157 52392	27µH 10%
5106	4822 157 60122	4,7µH 10%
5108	4822 157 51235	4.7µH 10%

7100	4822 209 63645	SAA5231/V7
7102	4822 209 73879	SAA5243P/E/M2
7104	4822 209 30006	FCB61C65-70P/Z
7106	4822 130 61207	BC848
7107	4822 130 42513	BC858C
7108	4822 130 61207	BC848
7110	4822 130 61207	BC848
7112	4822 130 61207	BC848
7114	4822 130 61207	BC848
7116	5322 130 42012	BC858
7490	4822 130 61207	BC848
7491	4822 130 61207	BC848
7492	4822 130 61207	BC848

Technical Specifications SAT box

GENERAL:

Power supply voltage SAT box	: 285-300V DC (from FL1 LSP)
Power supply voltage interface	: +13, +5, -8V (from FL1 SSP)

SATELLITE FRONT-END

Antenna input impedance	: 75Ω (coax)
Frequency range	: 950-1750MHz (SF 914)
Minimum antenna input voltage	: 158μV
Maximum antenna input voltage	: 8.9mV
LNC power supply	: 0.14 or 18V, max. 350mA
Satellite transmission systems	: D2-MAC and PAL/SECAM

D2-MAC:

Audio:

Stereo mixed mode is possible	: 1 of 2 possibilities
Stereo mixed mode is possible	: 1 of 8 possibilities

If a radio channel is chosen, the video signal can (if required) be blanked.
Headphone sound is independent of "head" sound selected.

Teletext:
The D2-MAC teletext signal is also present in the PAL-CVBS/SVHS signal.

Descrambling:
Eurocrypt M and optional Eurocrypt S

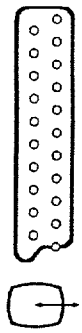
Conversion 16:9 and 4:3 aspect ratio:
Conversion is possible, using the "panning" vector.

PAL
Audio:

MONO audio carriers	: 6.50MHz; 6.60MHz; 6,65MHz 50μs de-emphasis. Telecom sound is optional.
STEREO audio carriers	: stereo 1: 7.02MHz + 7.20MHz stereo 2: 7.38MHz + 7.56MHz stereo 3: 7.74MHz + 7.92MHz

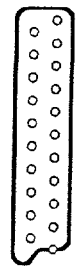
LANGUAGE SELECTION: All the preceding sound carriers
BLANKING VIDEO: If a radio channel is chosen, the video signal can be blanked (if required).

SCART I



Connection facilities

SCART DECODER



1 - Audio ⊖→ R (0.5V RMS ≤ 1kΩ)
2 - Audio →⊖ R (0.2 - 2V RMS ≥ 10kΩ)
3 - Audio ⊖→ L (0.5V RMS ≤ 1kΩ)
4 - Audio ⊥
5 - Bleu ⊥
6 - Audio →⊖ L (0.2 - 2V RMS ≥ 10kΩ)
7 - -
8 - 0 - 2V: Low level (≥ 10kΩ)
9.5 - 12V: High level
9 - Green ⊥

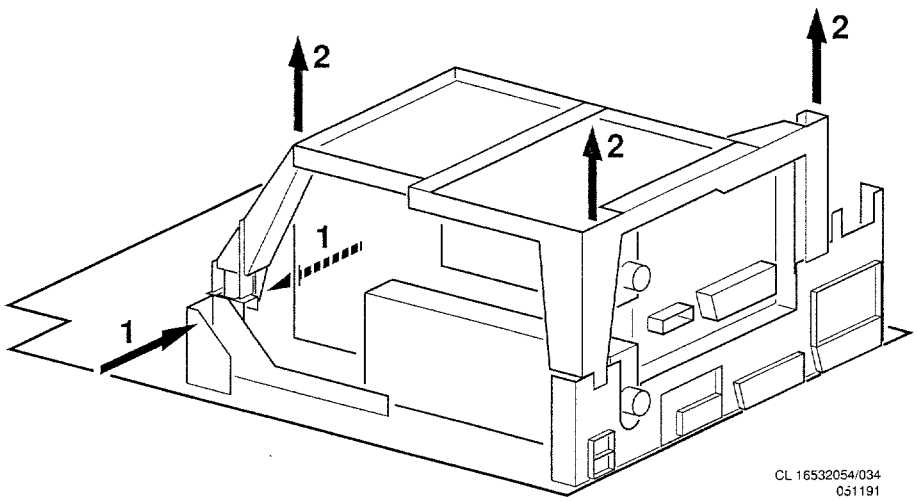
10 - -
11 - -
12 - -
13 - Red ⊥
14 - -
15 - -
16 - -
17 - Base band signal ⊥
18 - Base band signal ⊥
19 - Base band signal ⊖→ ($1V_{pp}$/75Ω)
20 - Base band signal →⊖ ($1V_{pp}$/75Ω)
21 - Earth screen

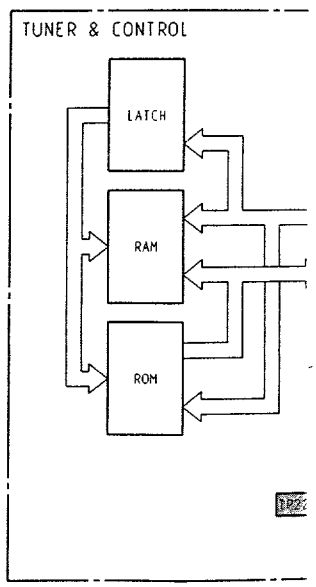
Polariser connection:
1 - 5V6
2 - Skew pulse
3 - Earth
4 - +80mA to -40mA current source
Rload ≤ 90Ω

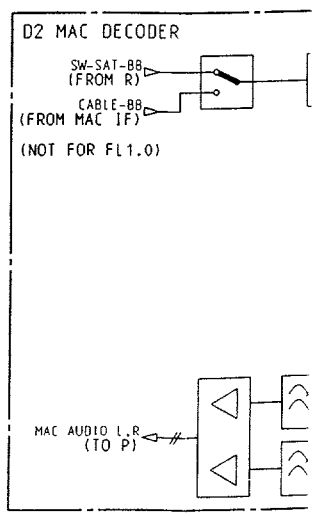
ptional.

Digital bus connector for the connection of Smart Card Reader SCC409.

Mechanical instructions SAT box
Mechanische Anweisungen SAT box
Instructions d'ordre mecánique SAT box







Block diagram Blockschaltbild

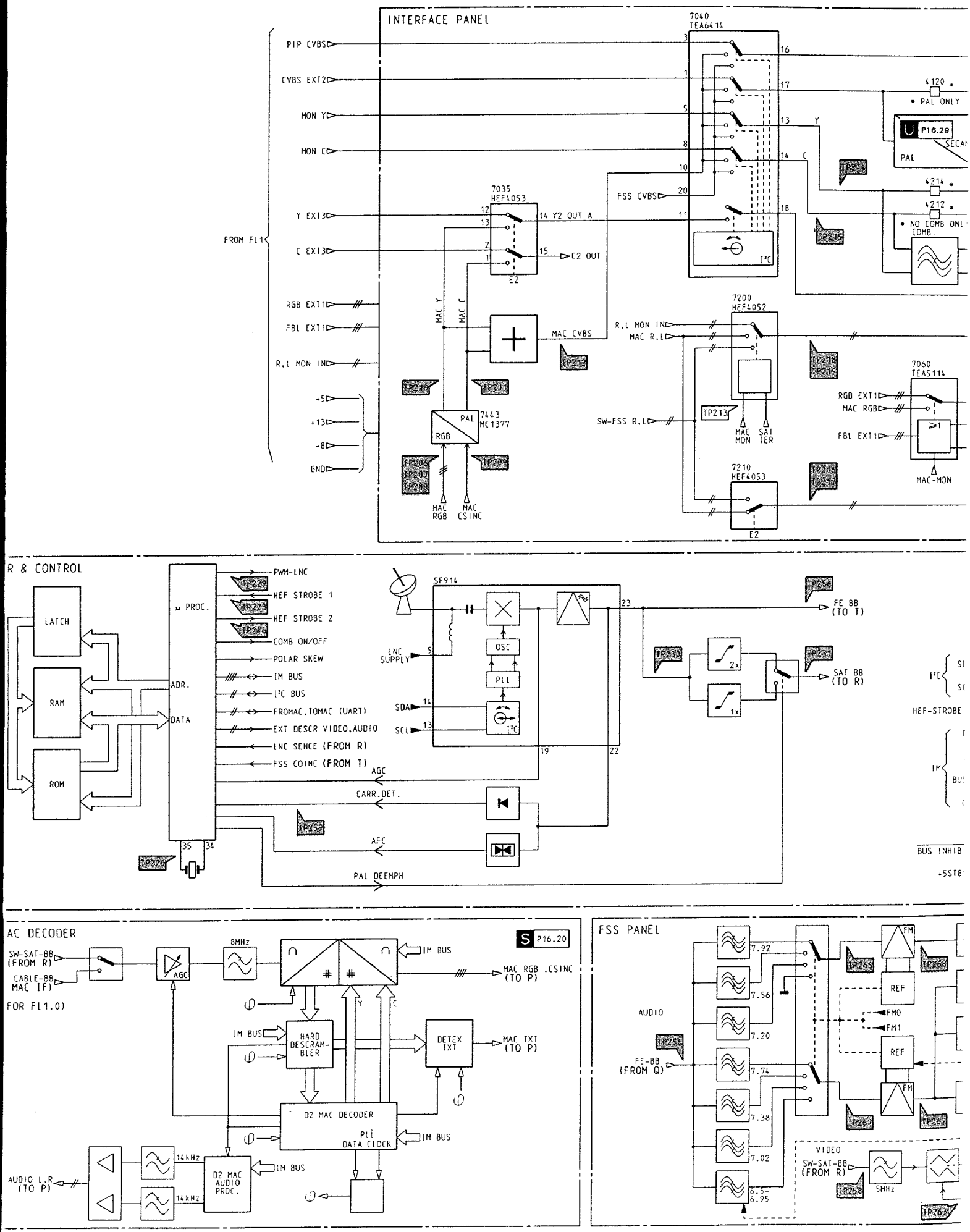
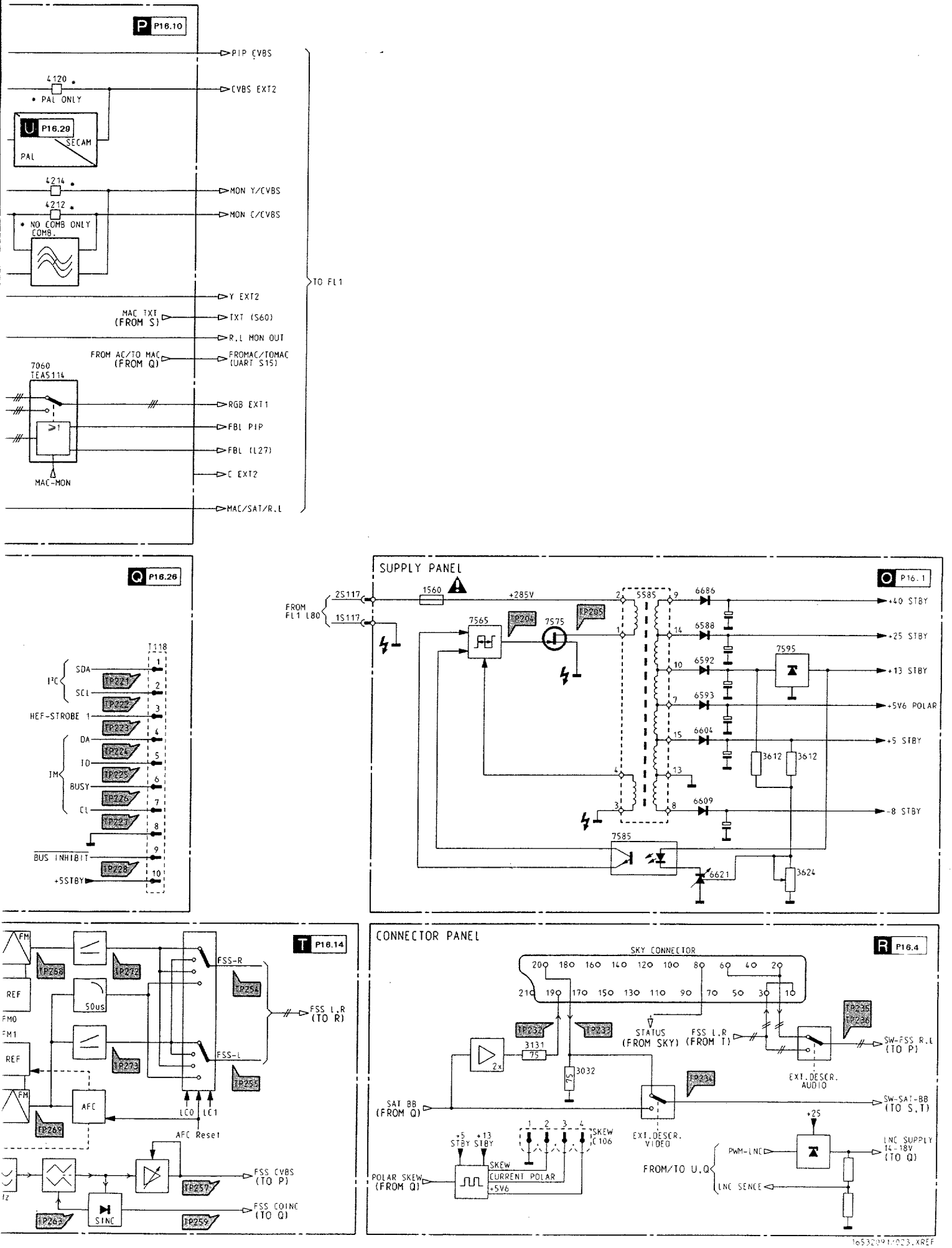
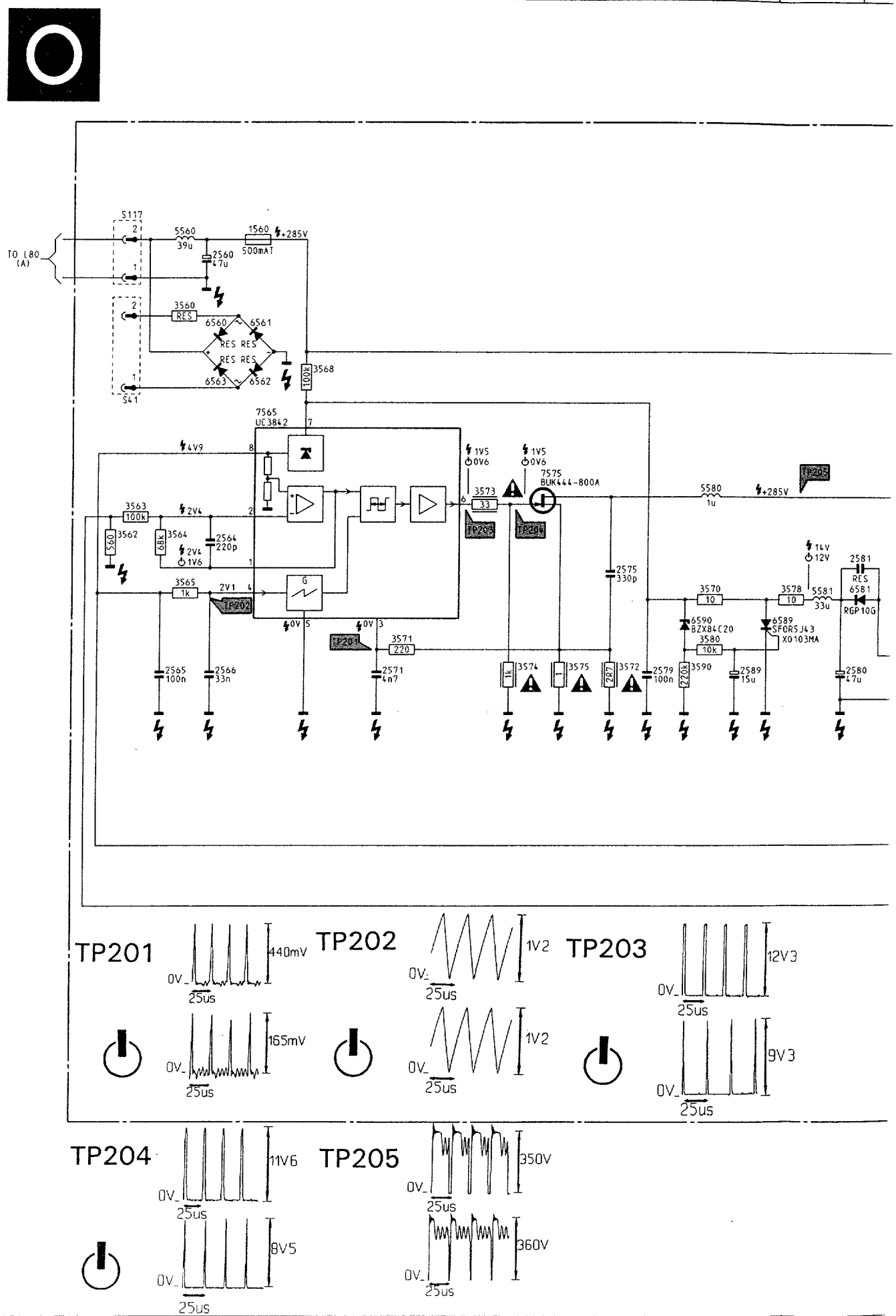


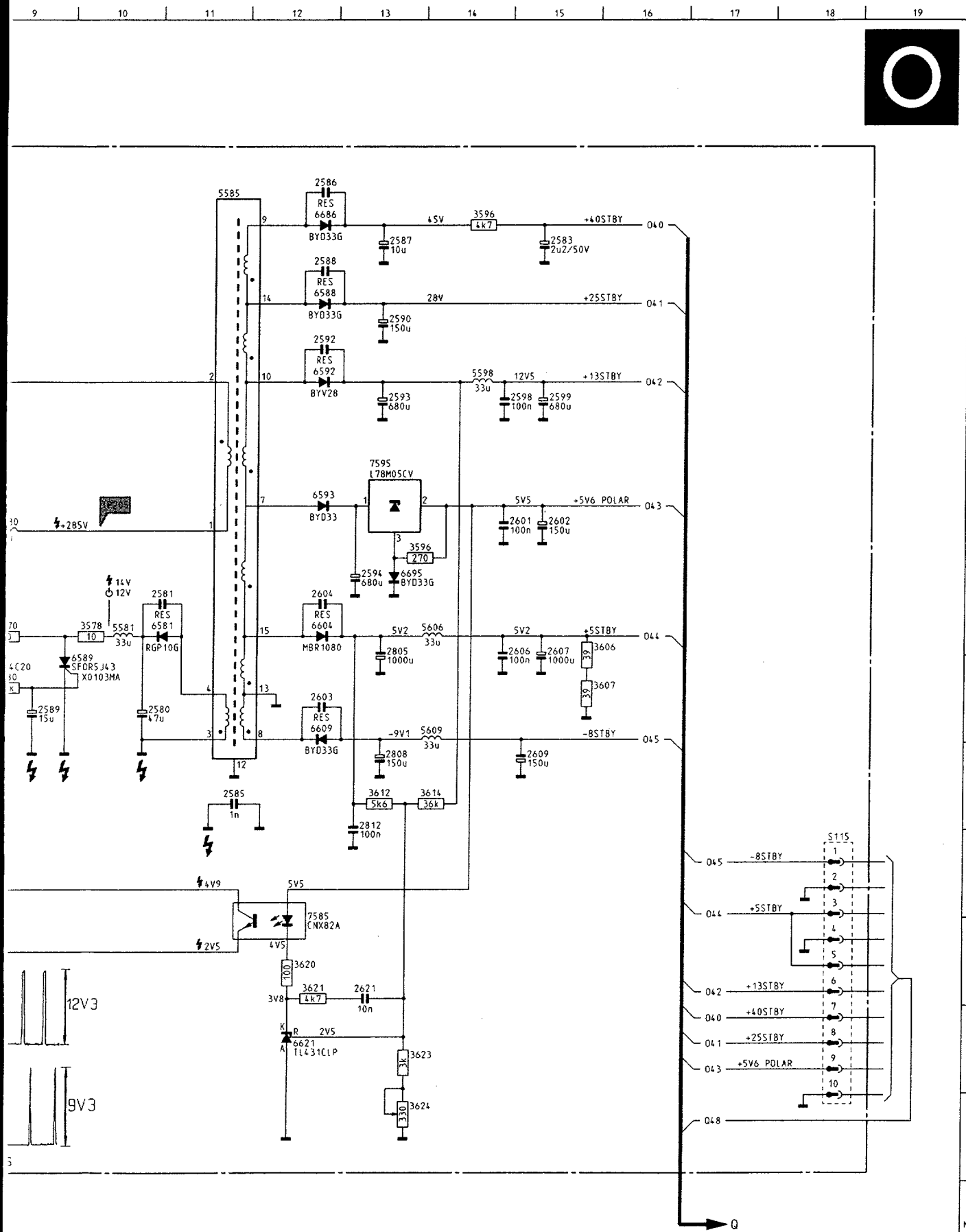
Diagramme schématique




S117
TO L80 (A)
5560 39u
1560 500mAT
+285V
2560 47u
3560 RES
6560
6561
RES RES
RES RES
6563
6562
S41
3568 100k
7565 UC3842
4V9
1V5 0V6
7575 BUK444-800A
3573 33
5580 1u
+285V
TP205
TP203
TP204
3563 100k
2V4
3562 560
3564 68k
2564 220p
2V4 1V6
3565 1k
2V1
TP202
0V
TP201
3571 220
2571 4n7
2565 100n
2566 33n
2575 330p
14V 12V
2581 RES 6581 RGP10G
3570 10
3578 10
5581 33u
6590 BZX84C20
6589 SFOR5J43 X0103MA
3580 10k
2589 15u
2580 47u
3574 1k
3575 1
3572 2R7
2579 100n
3590 220k

TP201
0V
25us
440mV
165mV
TP202
1V2
TP203
12V3
9V3

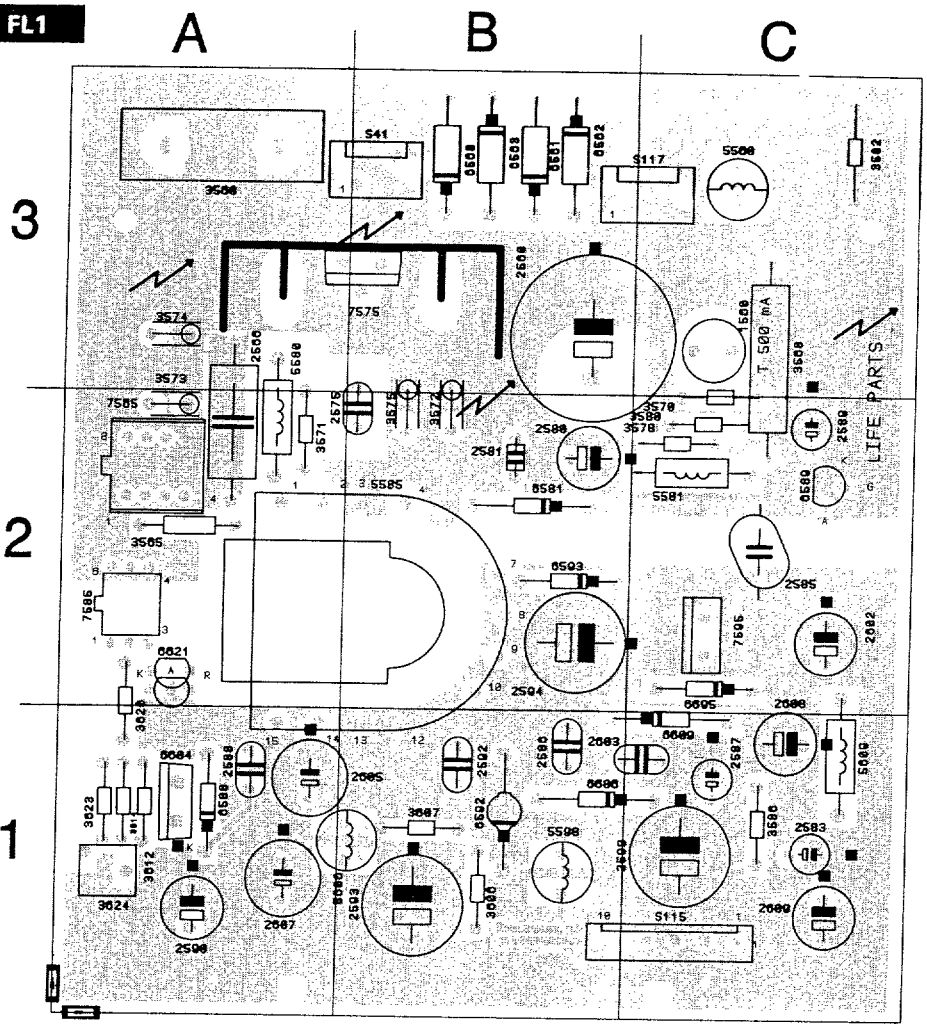
TP204
0V
25us
11V6
8V5
TP205
350V
360V

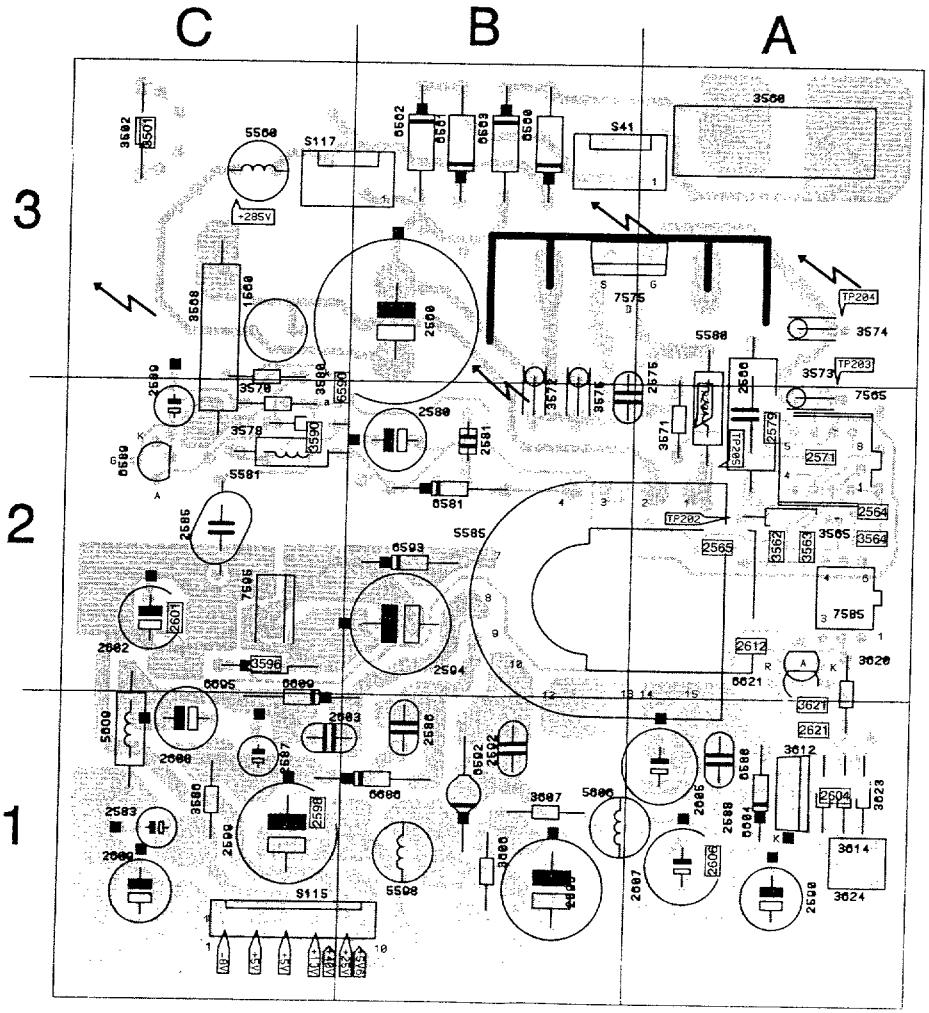


1560 C 3
2560 C 3
2564 G 3
2565 H 2
2566 H 3
2571 H 5
2575 G 8
2579 H 8
2580 H10
2581 G11
2583 C15
2585 I 11
2586 B12
2587 C13
2588 C12
2589 H 9
2590 D13
2592 D12
2593 E13
2594 G13
2598 E14
2599 E15
2601 F14
2602 F15
2603 H12
2604 G12
2606 H14
2607 H15
2609 I 15
2621 K13
2805 H13
2808 I 13
2812 I 13
3560 D 3
3562 F 2
3563 F 2
3564 F 2
3565 G 3
3568 E 4
3570 G 9
3571 H 5
3572 H 8
3573 F 6
3574 H 6
3575 H 7
3578 G10
3580 H 9
3590 H 9
3596 F13
3596 C14
3606 G15
3607 H15
3612 I 13
3614 I 14
3620 K12
3621 K12
3623 L13
3624 M13
5560 C 3
5580 F 9
5581 G10
5585 B11
5598 D14
5606 G14
5609 H14
6560 D 3
6561 D 3
6562 E 3
6563 E 3
6581 G11
6588 C12
6589 H 9
6590 H 9
6592 D12
6593 F12
6604 G12
6609 H12
6621 L12
6686 C12
6695 G13
7565 E 3
7575 F 7
7585 K12
7595 E13

CHASSIS FL1

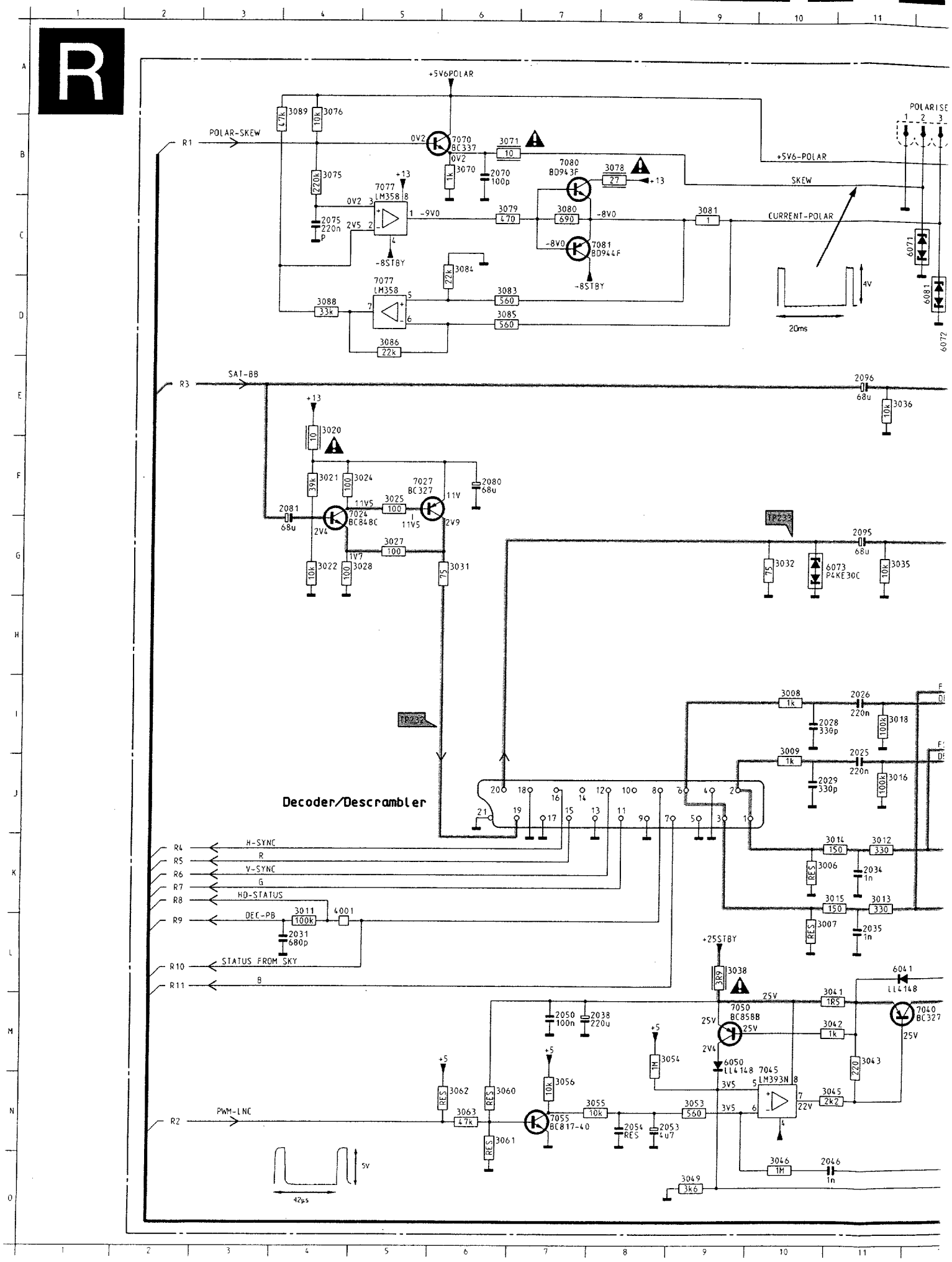
CL16S32054/011,OREF
121291



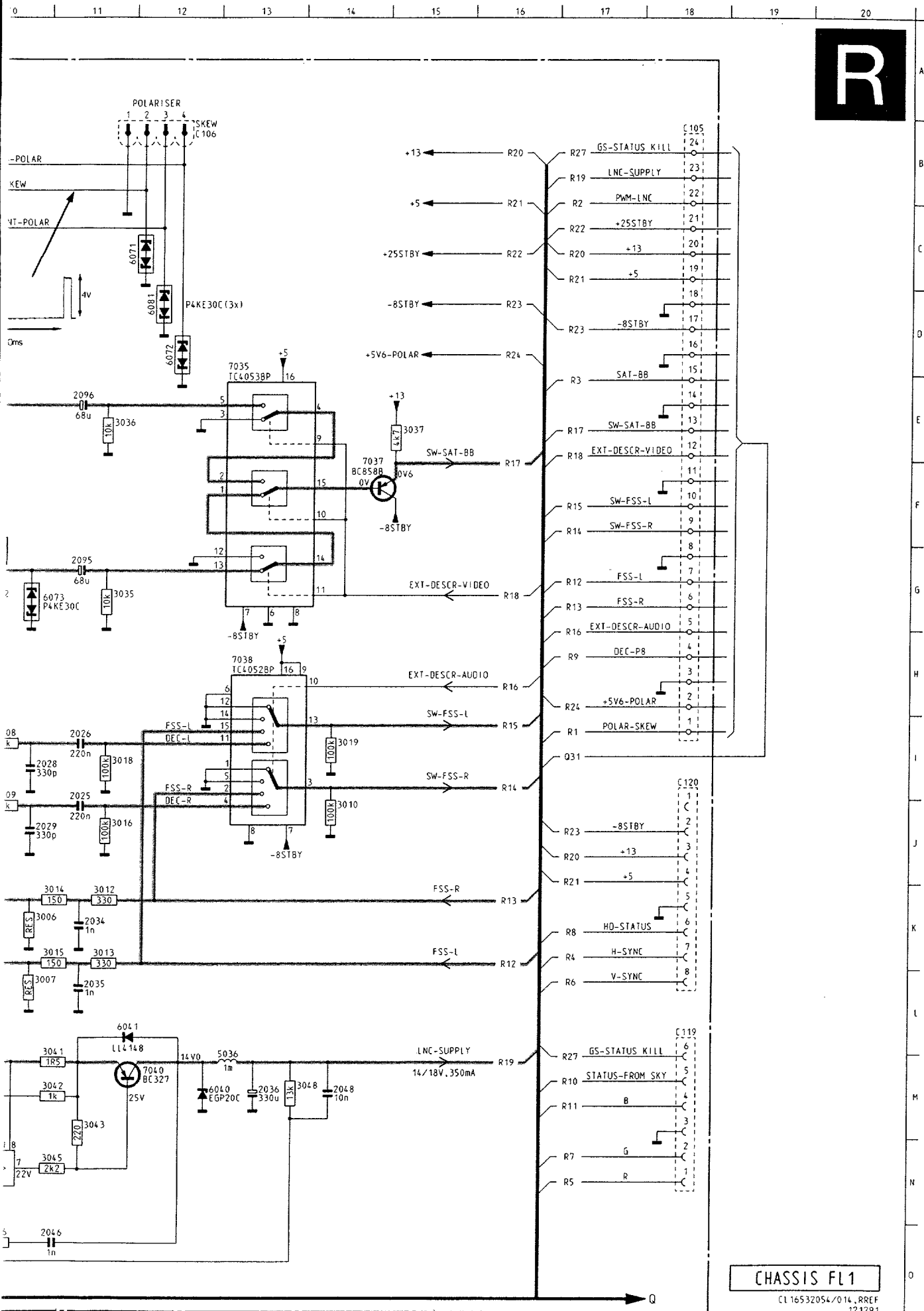


S41 B3
S116 C1
S117 C3
1560 C3
2560 B3
2564 A2
2565 A2
2566 A2
2571 A2
2575 B2
2579 A2
2580 B2
2581 B2
2583 C1
2586 B1
2587 C1
2588 A1
2589 C2
2590 A1
2592 B1
2593 B1
2594 B2
2598 C1
2599 C1
2601 C2
2602 C2
2603 C1
2604 A1
2605 A1
2606 A1
2607 A1
2608 C1
2609 C1
2612 A2
2621 A1
3501 C3
3502 C3
3560 A3
3562 A2
3563 A2
3564 A2
3565 A2
3568 C3
3570 C2
3571 A2
3572 B2
3573 A2
3574 A3
3575 B2
3578 C2
3580 C2
3586 C1
3590 C2
3596 C2
3606 B1
3607 B1
3612 A1
3614 A1
3620 A1
3621 A1
3623 A1
3624 A1
5560 C3
5580 A2
5581 C2
5585 B2
5598 B1
5606 B1
5609 C1
6560 B3
6561 B3
6562 B3
6563 B3
6581 B2
6588 A1
6589 C2
6590 C2
6592 B1
6593 B2
6604 A1
6609 C1
6621 A2
6686 B1
6695 C2
7565 A2
7575 B3
7585 A2
7596 C2

5560 C 3
5560 C 3
5564 G 3
5565 H 2
5566 H 3
5571 H 5
5575 G 8
5579 H 8
5580 H10
5581 G11
5583 C15
5585 I 11
5586 B12
5587 C13
5588 C12
5589 H 9
5590 D13
5592 D12
5593 E13
5594 G13
5598 E14
5599 E15
6501 F14
6502 F15
6503 H12
6504 G12
6506 H14
6507 H15
6509 I 15
6521 K13
6305 H13
6308 I 13
6312 I 13
6560 D 3
6562 F 2
6563 F 2
6564 F 2
6565 G 3
6568 E 4
6570 G 9
6571 H 5
6572 H 8
6573 F 6
6574 H 6
6575 H 7
6578 G10
6580 H 9
6590 H 9
6596 F13
7506 C14
7506 G15
7507 H15
7512 I 13
7514 I 14
7520 K12
7521 K12
7523 L13
7524 M13
8560 C 3
8580 F 9
8581 G10
8585 B11
8598 D14
8606 G14
8609 H14
8660 D 3
8661 D 3
8662 E 3
8663 E 3
8681 G11
8688 C12
8689 H 9
8690 H 9
8692 D12
8693 F12
8704 G12
8709 H12
8721 L12
8736 C12
8795 G13
8855 E 3
8875 F 7
8885 K12
8895 E13

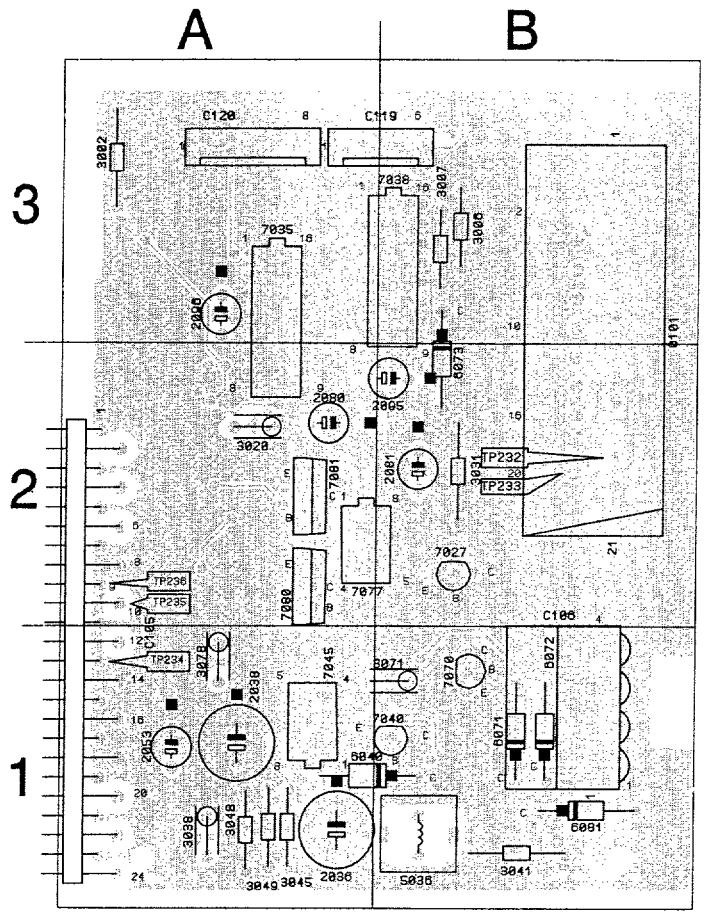

R
+5V6POLAR
POLAR-SKEW
R1
POLARISE
+5V6-POLAR
SKEW
CURRENT-POLAR
-8STBY
20ms
4V
SAT-BB
R3
2096
68u
3036
2095
3035
6073
P4KE30C
Decoder/Descrambler
H-SYNC
R
V-SYNC
G
HD-STATUS
DEC-PB
STATUS FROM SKY
B
R4
R5
R6
R7
R8
R9
R10
R11
+25STBY
PWM-LNC
R2
42µs
5V

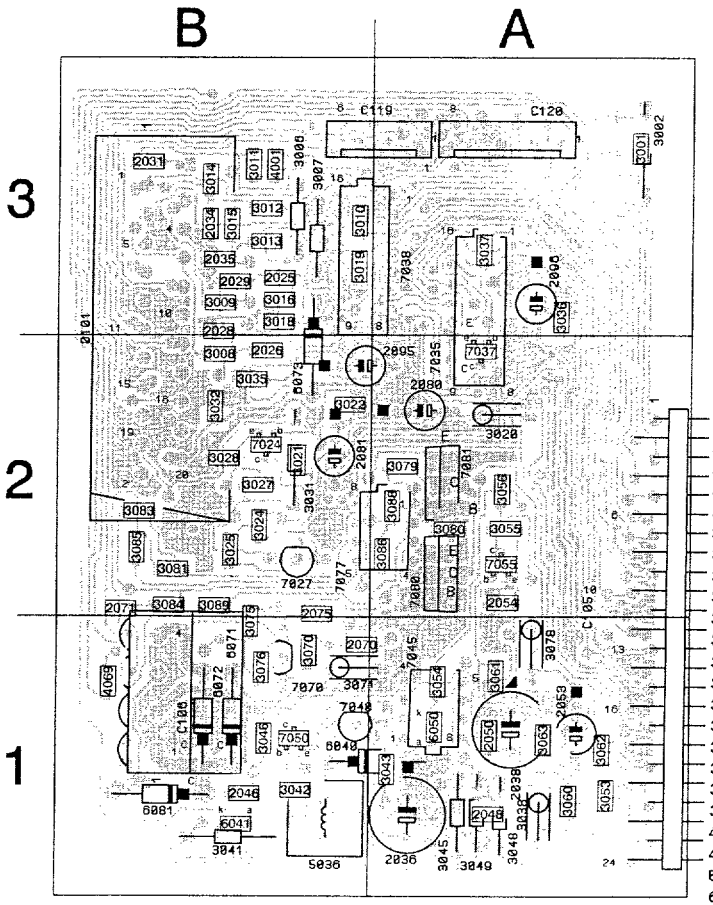
Branchement/LNC/Polariseur



A	2025	J 11
	2026	I 11
	2028	I 10
	2029	J 10
	2031	L 3
	2034	K 11
	2035	L 11
	2036	M 13
	2038	M 8
B	2046	O 11
	2048	M 14
	2050	M 7
	2053	N 8
	2054	N 8
	2070	B 6
	2075	C 4
	2080	F 6
	2081	F 4
	2095	G 11
	2096	E 11
C	3006	K 10
	3007	L 10
	3008	I 10
	3009	I 10
	3010	I 14
	3011	L 4
	3012	K 11
D	3013	K 11
	3014	K 11
	3015	K 11
	3016	J 11
	3018	I 11
	3019	I 14
	3020	E 4
	3021	F 4
E	3022	G 4
	3024	F 4
	3025	F 5
	3027	G 5
	3028	G 4
	3031	G 6
	3032	G 10
F	3035	G 11
	3036	E 11
	3037	E 15
	3038	L 9
	3041	M 11
	3042	M 11
	3043	M 11
	3045	N 11
G	3046	O 10
	3048	M 13
	3049	O 9
	3053	N 9
	3054	M 8
	3055	N 8
	3056	N 7
	3060	N 6
H	3061	N 6
	3062	N 6
	3063	N 6
	3070	B 6
	3071	B 6
	3075	B 4
	3076	A 4
I	3078	B 8
	3079	C 6
	3080	C 7
	3081	C 9
	3083	D 6
	3084	C 6
	3085	D 6
	3086	D 5
J	3088	D 4
	3089	A 4
	4001	L 4
	5036	M 13
	6040	M 12
	6041	L 11
	6050	M 9
K	6071	C 11
	6072	D 12
	6073	G 10
	6081	D 12
	7024	G 4
	7027	F 5
	7035	D 13
L	7037	F 14
	7038	H 13
	7040	M 12
	7045	N 10
	7050	M 9
	7055	N 7
	7070	B 6
	7077	B 5
M	7077	D 5
	7080	B 7
	7081	C 7
N		
O		

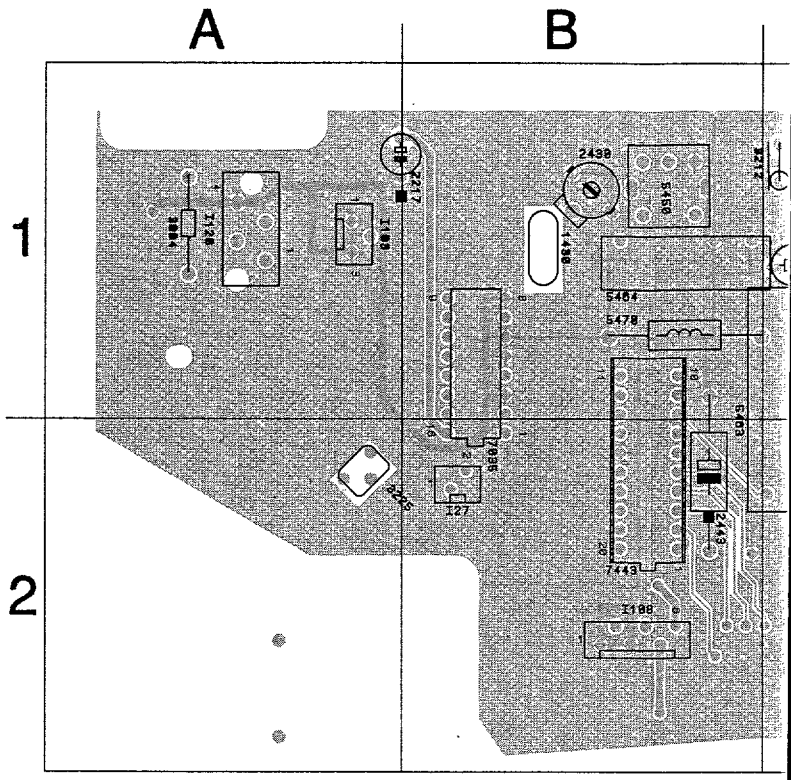
J11
I 11
I 10
J10
L 3
K11
L11
M13
M 8
O11
M14
M 7
N 8
N 8
B 6
C 4
F 6
F 4
G11
E11
K10
L10
I 10
J10
I 14
L 4
K11
K11
K11
K11
J11
I 11
I 14
E 4
F 4
G 4
F 4
F 5
G 5
G 4
G 6
G10
G11
E11
E15
L 9
M11
M11
M11
N11
O10
M13
O 9
N 9
M 8
N 8
N 7
N 6
N 6
N 6
N 6
B 6
B 6
B 4
A 4
B 8
C 6
C 7
C 9
D 6
C 6
D 6
D 5
D 4
A 4
L 4
M13
M12
L11
M 9
C11
D12
G10
D12
G 4
F 5
D13
F14
H13
M12
N10
M 9
N 7
B 6
B 5
D 5
B 7
C 7

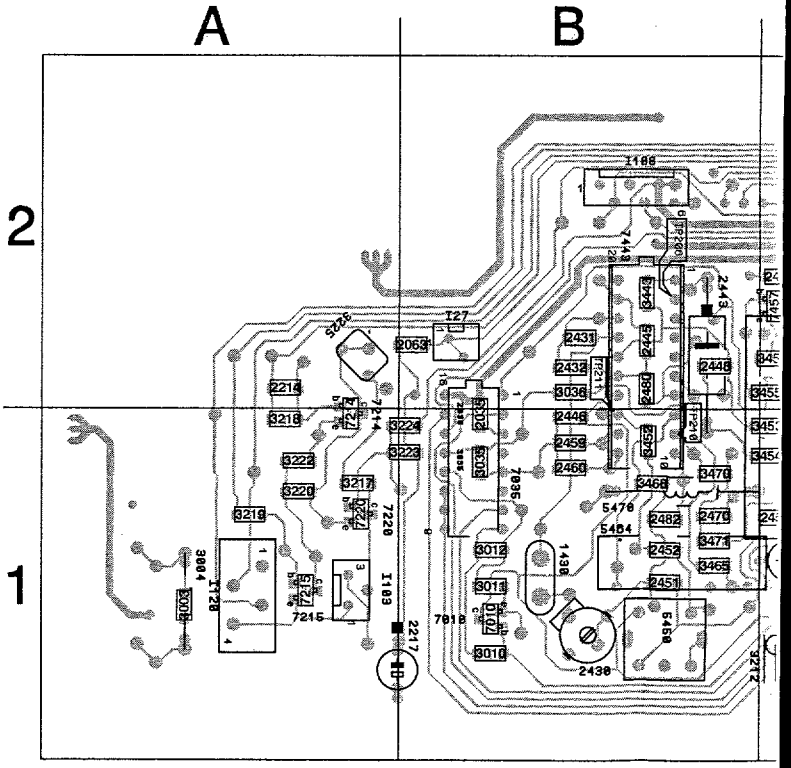


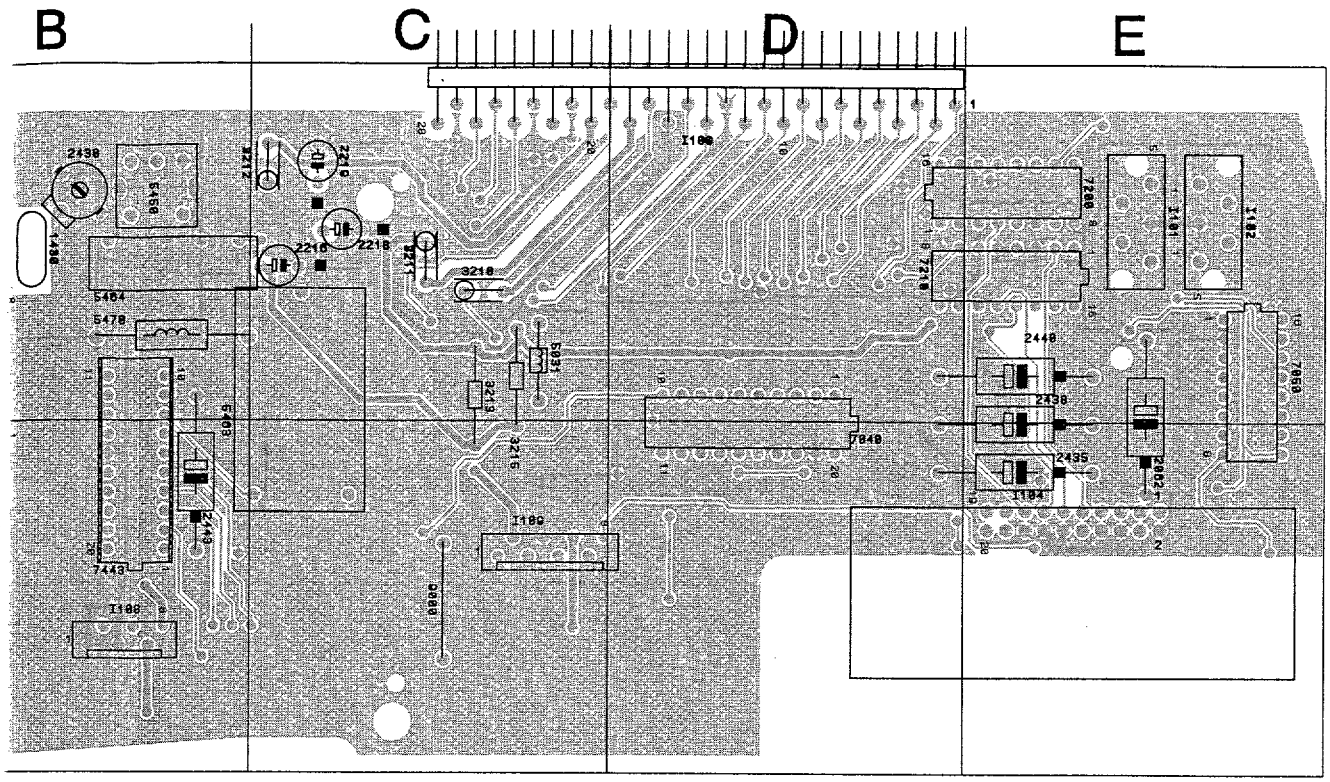


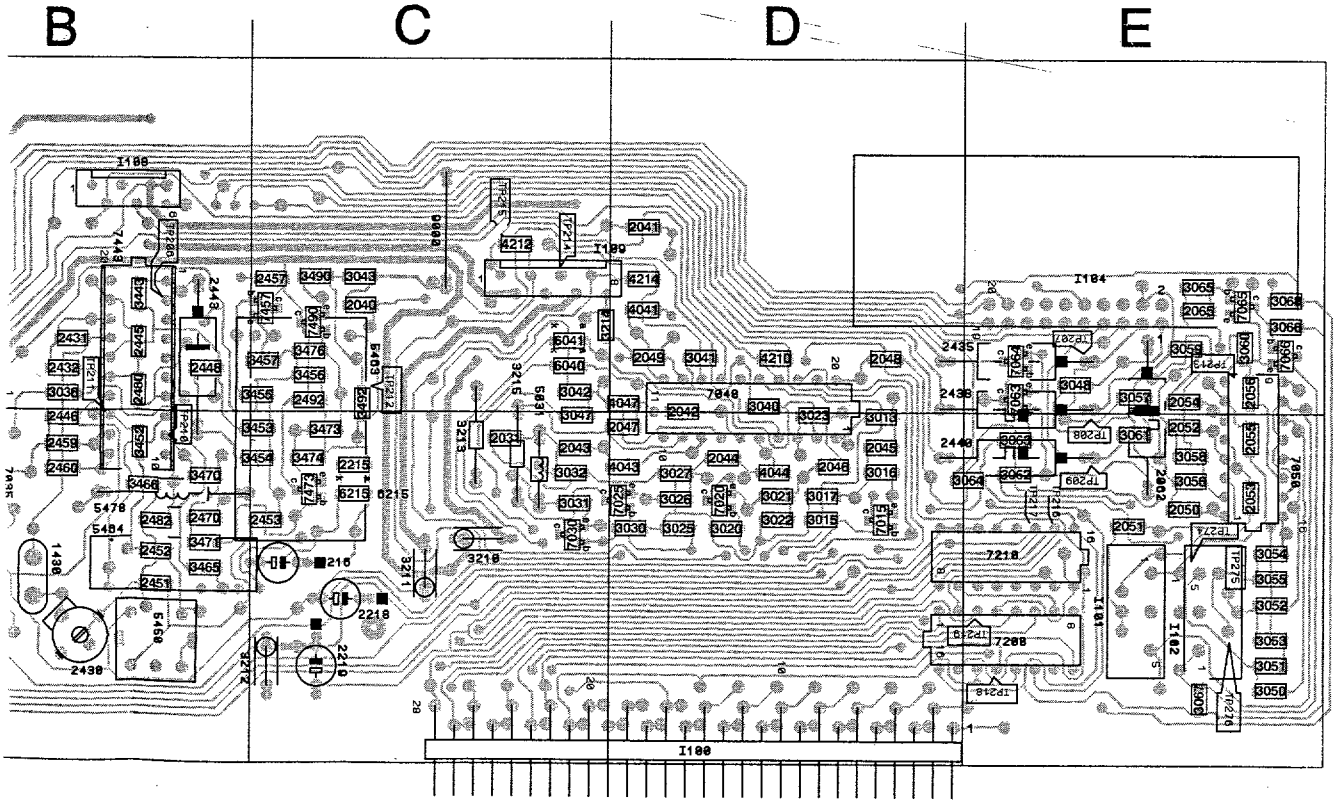
C105 A1
C106 B1
C119 A3
C120 A3
0101 B3
2025 B3
2026 B2
2028 B2
2029 B3
2031 B3
2034 B3
2035 B3
2036 A1
2038 A1
2046 B1
2048 A1
2050 A1
2053 A1
2054 A2
2070 A1
2071 B2
2075 B1
2080 A2
2081 B2
2095 A2
2096 A3
3001 A3
3002 A3
3006 B3
3007 B3
3008 B2
3009 B3
3010 B3
3011 B3
3012 B3
3013 B3
3014 B3
3015 B3
3016 B3
3018 B3
3019 B3
3020 A2
3021 B2
3022 B2
3024 B2
3025 B2
3027 B2
3028 B2
3031 B2
3032 B2
3035 B2
3036 A3
3037 A3
3038 A1
3041 B1
3042 B1
3043 A1
3045 A1
3046 B1
3048 A1
3049 A1
3053 A1
3054 A1
3055 A2
3056 A2
3060 A1
3061 A1
3062 A1
3063 A1
3070 B1
3071 A1
3075 B1
3076 B1
3078 A1
3079 A2
3080 A2
3081 B2
3083 B2
3084 B2
3085 B2
3086 A2
3088 A2
3089 B2
4001 B3
4069 B1
5036 B1
6040 A1
6041 B1
6050 A1
6071 B1
6072 B1
6073 B2
6081 B1
7024 B2
7027 B2
7035 A3
7037 A2
7038 A3
7040 A1
7045 A1
7050 B1
7055 A2
7070 B1
7077 A2
7080 A2
7081 A2

Interface panel
Interface platine
Platine interface









I27 B1
I100 D1
I101 E1
I102 E1
I103 A1
I104 E2
I108 B2
I109 C2
I120 A1
1430 B1
2031 C1
2035 B1
2040 C2
2041 D2
2042 D1
2043 D1
2044 D1
2045 D1
2046 D1
2047 D1
2048 D1
2049 D1
2050 E1
2051 E1
2052 E1
2053 E1
2054 E1
2055 E1
2056 E1
2062 E1
2063 B1
2065 E2
2214 A1
2215 C1
2216 C1
2217 B1
2218 C1
2219 C1
2430 B1
2431 B1
2432 B1
2435 E1
2438 E1
2440 E1
2443 B1
2445 B1
2446 B1
2448 B1
2451 B1
2452 B1
2453 C1
2457 C2
2459 B1
2460 B1
2470 B1
2480 B1
2482 B1
2492 C1
3001 A2
3002 A2
3003 A1
3004 A1
3010 B1
3011 B1
3012 B1
3013 D1
3015 D1
3016 D1
3017 D1
3020 D1
3021 D1
3022 D1
3023 D1
3025 D1
3026 D1
3027 D1
3030 D1
3031 D1
3032 D1
3035 B1
3036 B1
3040 D1
3041 D1
3042 D1
3043 C2
3047 D1
3048 E1
3050 F1
3051 F1
3052 F1
3053 F1
3054 F1
3055 F1
3056 E1
3057 E1
3058 E1
3059 E1
3060 E1
3061 E1
3062 E1
3063 E1
3064 E1
3065 E2
3066 F2
3067 E1
3068 F2
3210 C1
3211 C1
3212 C1
3213 C1
3214 D2
3215 C1
3217 A1
3218 A1
3219 A1
3220 A1
3222 A1
3223 B1
3224 B1
3225 A1
3443 B2
3452 B1
3453 C1
3454 C1
3455 C1
3456 C1
3457 C1
3465 B1
3466 B1
3470 B1
3471 B1
3473 C1
3474 C1
3476 C1
3490 C2
3492 C1
4041 D2
4043 D1
4044 D1
4047 D1
4210 D1
4212 C2
4214 D2
5450 B1
5463 C1
5464 B1
5470 B1
6040 C1
6041 C1
6215 C1
7010 B1
7015 D1
7020 D1
7025 D1
7030 D1
7035 B1
7040 D1
7050 E1
7063 E1
7064 E1
7065 E2
7066 F1
7200 E1
7210 E1
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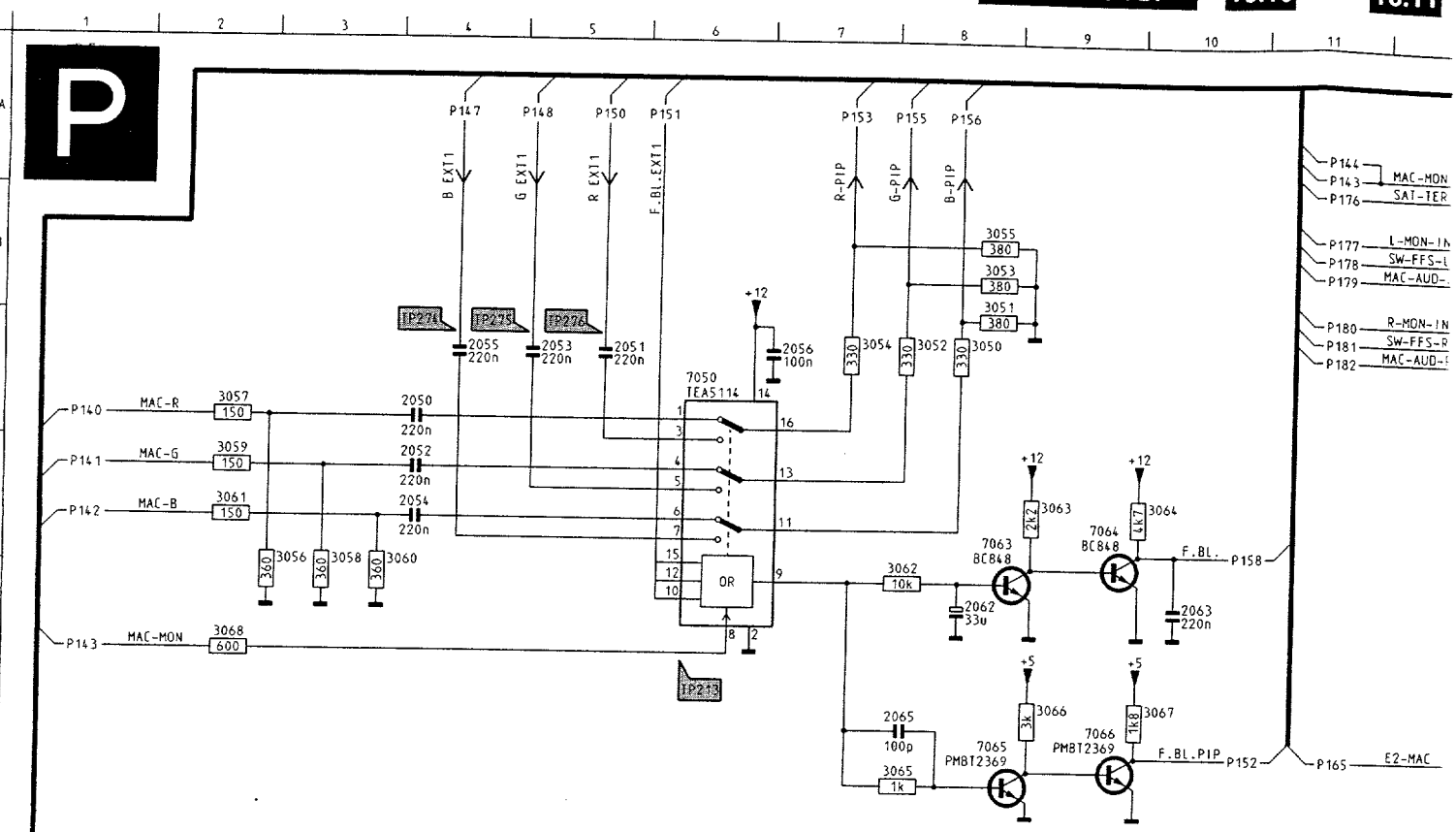
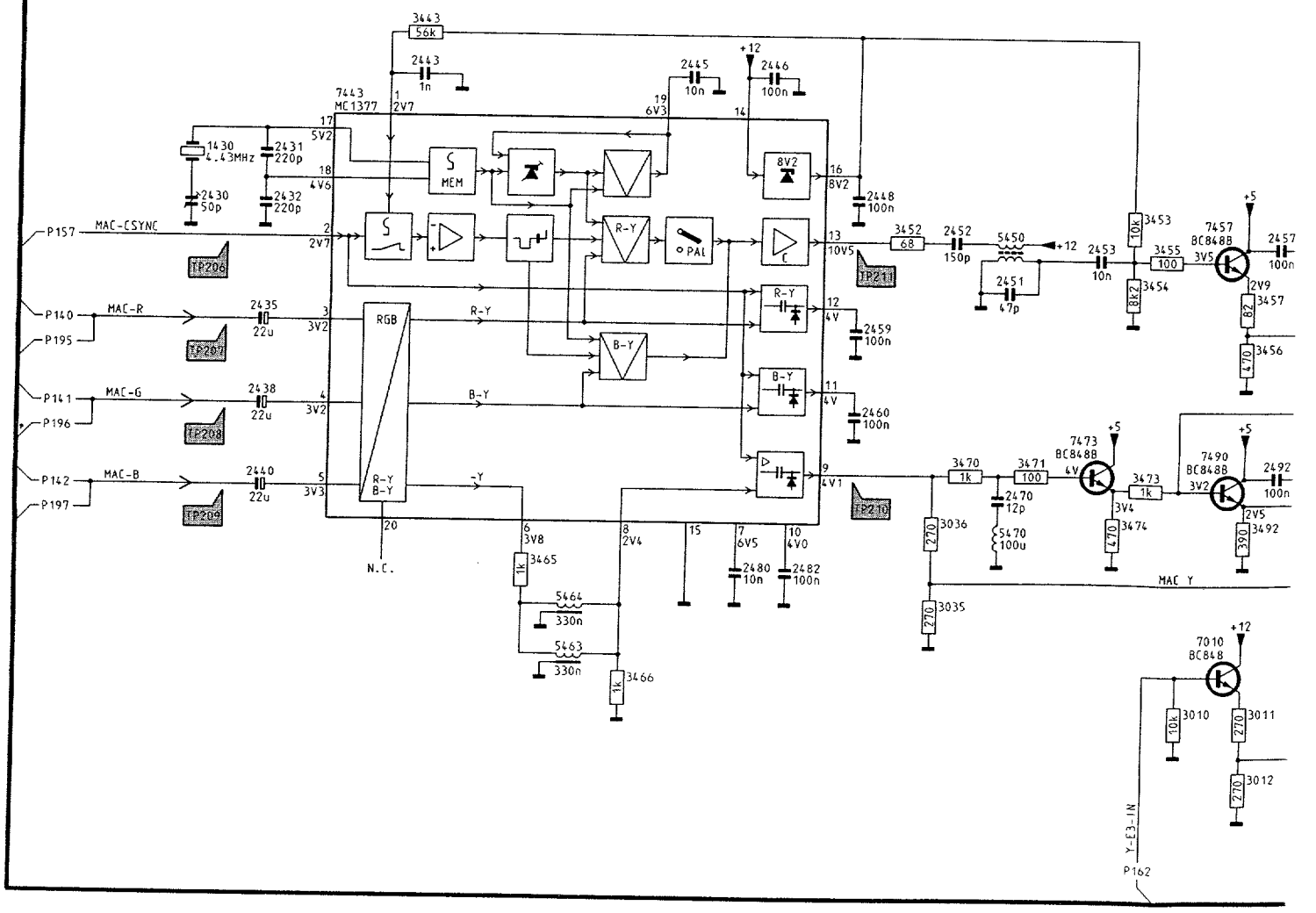
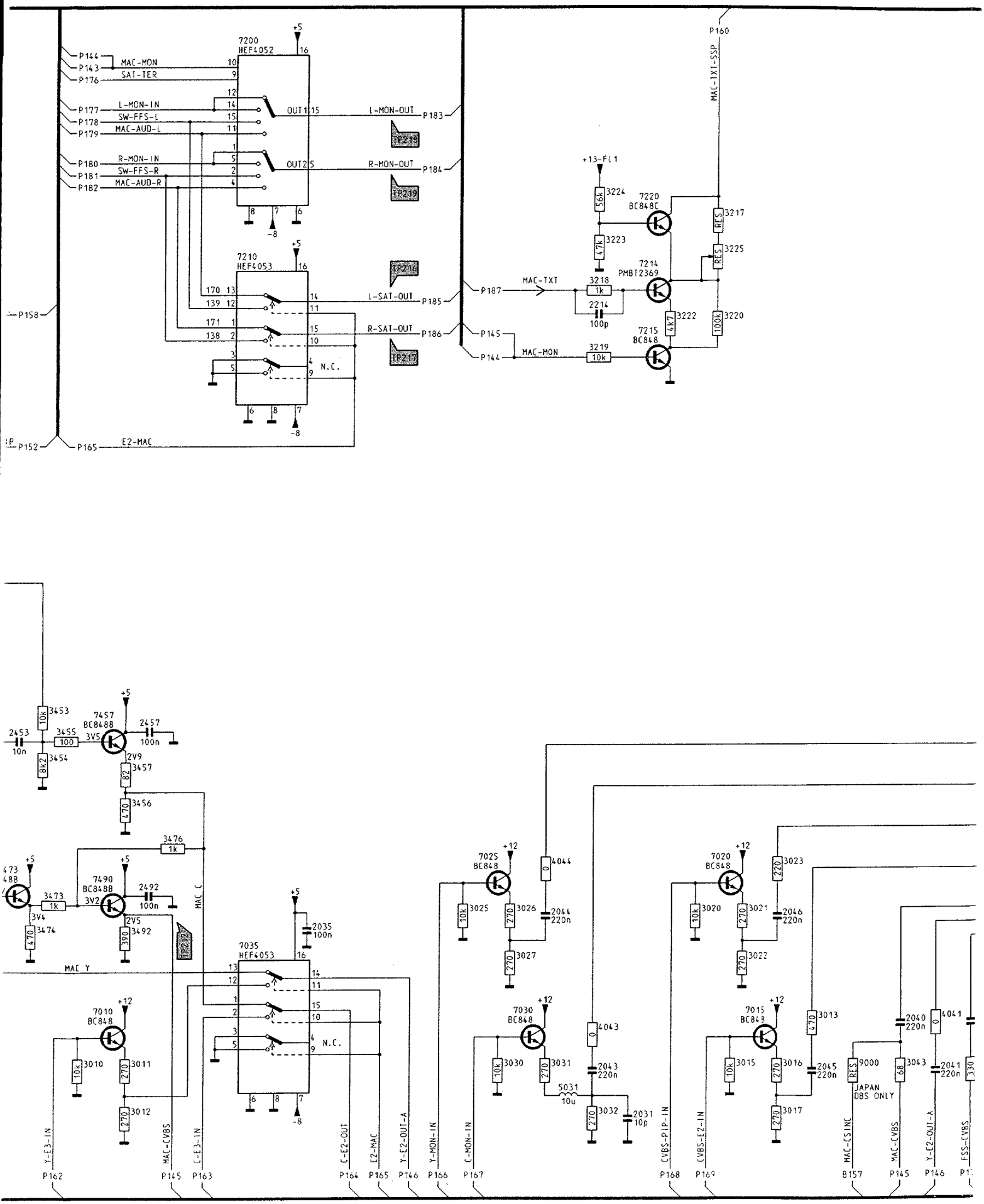
7215 A1
7220 A1
7443 B1
7457 C2
7473 C1
7490 C2
9000 C2

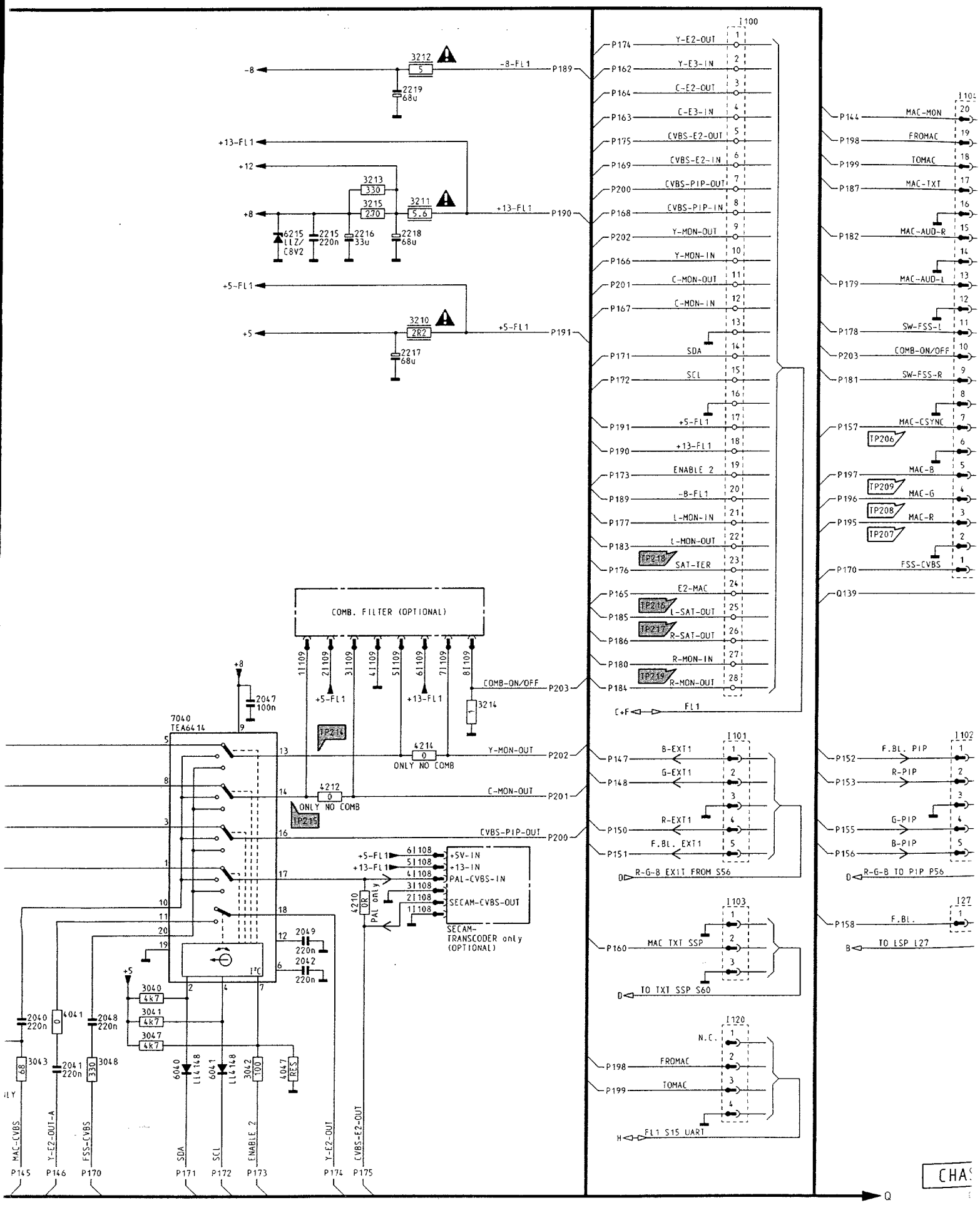
P



PAL ENCODER
DECIFRATORE PAL

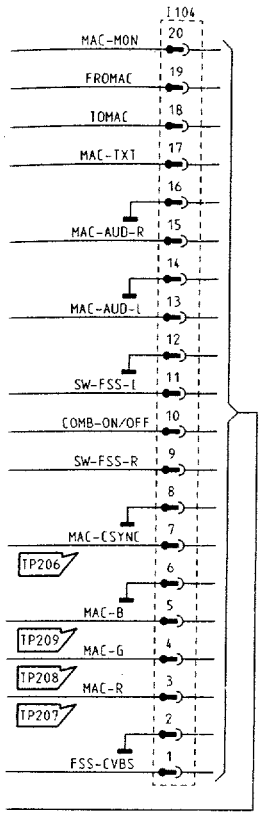


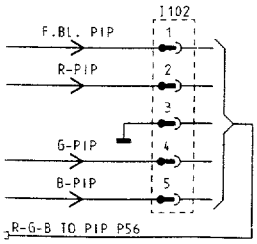

11 12 13 14 15 16 17 18 19 20 21 22
7200 HEF4052
7210 HEF4053
7035 HEF4053
MAC-MON
SAT-TER
L-MON-IN
SW-FFS-L
MAC-AUD-L
R-MON-IN
SW-FFS-R
MAC-AUD-R
L-MON-OUT
R-MON-OUT
L-SAT-OUT
R-SAT-OUT
N.C.
P144
P143
P176
P177
P178
P179
P180
P181
P182
P183
P184
P185
P186
P158
P152
P165
E2-MAC
P160
MAC-IXI-SSP
+13-FL1
7220 BC848C
7214 PMBT2369
7215 BC848
MAC-TXT
MAC-MON
P187
P145
3224 56k
3223 47k
3218 1k
2214 100p
3219 10k
3217 RES
3225 RES
3222 4k7
3220 100k
7457 BC848B
7490 BC848B
3453 10k
2453 10n
3455 100
3454 8k2
2457 100n
3457 82
3456 470
3476 1k
3473 1k
3474 470
2492 100n
3492 390
2035 100n
MAC C
MAC Y
7010 BC848
3010 10k
3011 270
3012 270
7025 BC848
3025 10k
3026 270
3027 270
4044 0
2044 220n
7030 BC848
3030 10k
3031 270
4043 0
2043 220n
5031 10u
3032 270
2031 10p
7020 BC848
3020 10k
3021 270
3022 270
3023 220
2046 220n
7015 BC848
3015 10k
3016 270
3017 270
3013 470
2045 220n
9000 RES
JAPAN DBS ONLY
2040 220n
3043 68
4041 0
2041 220n
330
Y-E3-IN
MAC-CVBS
C-E3-IN
C-E2-OUT
E2-MAC
Y-E2-OUT-A
Y-MON-IN
C-MON-IN
CVBS-PIP-IN
CVBS-E2-IN
MAC-CS INC
MAC-CVBS
Y-E2-OUT-A
FSS-CVBS
P162
P145
P163
P164
P165
P146
P166
P167
P168
P169
B157
P145
P146
TP210
TP214
TP215
TP216
TP217
TP218
TP219

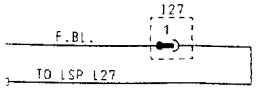

-8
3212
5
-8-FL1
P189
2219
68u
+13-FL1
+12
3213
330
3215
270
3211
5.6
+8
+13-FL1
P190
6215
LLZ/
C8V2
2215
220n
2216
33u
2218
68u
+5-FL1
+5
3210
2R2
+5-FL1
P191
2217
68u
I100
P174
Y-E2-OUT
P162
Y-E3-IN
P164
C-E2-OUT
P163
C-E3-IN
P175
CVBS-E2-OUT
P169
CVBS-E2-IN
P200
CVBS-PIP-OUT
P168
CVBS-PIP-IN
P202
Y-MON-OUT
P166
Y-MON-IN
P201
C-MON-OUT
P167
C-MON-IN
P171
SDA
P172
SCL
P191
+5-FL1
P190
+13-FL1
P173
ENABLE 2
P189
-8-FL1
P177
L-MON-IN
P183
L-MON-OUT
TP218
P176
SAT-IER
P165
E2-MAC
TP216
P185
L-SAT-OUT
TP217
P186
R-SAT-OUT
P180
R-MON-IN
TP219
P184
R-MON-OUT
C+F
FL1
I105
P144
MAC-MON
P198
FROMAC
P199
TOMAC
P187
MAC-TXT
P182
MAC-AUD-R
P179
MAC-AUD-L
P178
SW-FSS-L
P203
COMB-ON/OFF
P181
SW-FSS-R
P157
MAC-CSYNC
TP206
P197
MAC-B
TP209
P196
MAC-G
TP208
P195
MAC-R
TP207
P170
FSS-CVBS
Q139
COMB. FILTER (OPTIONAL)
11109
21109
31109
41109
51109
61109
71109
81109
+5-FL1
+13-FL1
COMB-ON/OFF
P203
3214
+8
2047
100n
7040
TEA6414
TP214
4214
0
ONLY NO COMB
Y-MON-OUT
P202
4212
0
ONLY NO COMB
C-MON-OUT
P201
TP215
CVBS-PIP-OUT
P200
+5-FL1
+13-FL1
61108
51108
41108
31108
21108
11108
+5V-IN
+13-IN
PAL-CVBS-IN
SECAM-CVBS-OUT
4210
0R
PAL only
SECAM-
TRANSCODER only
(OPTIONAL)
2049
220n
2042
220n
I²C
+5
3040
4K7
3041
4K7
3047
4K7
2040
220n
6041
0
2048
220n
3043
68
2041
220n
3048
330
6040
LL4148
6041
LL4148
3042
100
4047
RES
MAC-CVBS
Y-E2-OUT-A
FSS-CVBS
SDA
SCL
ENABLE 2
Y-E2-OUT
CVBS-E2-OUT
P145
P146
P170
P171
P172
P173
P174
P175
I101
P147
B-EXT1
P148
G-EXT1
P150
R-EXT1
P151
F.BL. EXT1
D
R-G-B EXIT FROM S56
I102
P152
F.BL. PIP
P153
R-PIP
P155
G-PIP
P156
B-PIP
D
R-G-B TO PIP P56
I103
P160
MAC TXT SSP
D
TO TXT SSP S60
I127
P158
F.BL.
B
TO LSP L27
I120
N.C.
P198
FROMAC
P199
TOMAC
H
FL1 S15 UART
Q

32 33 34

P







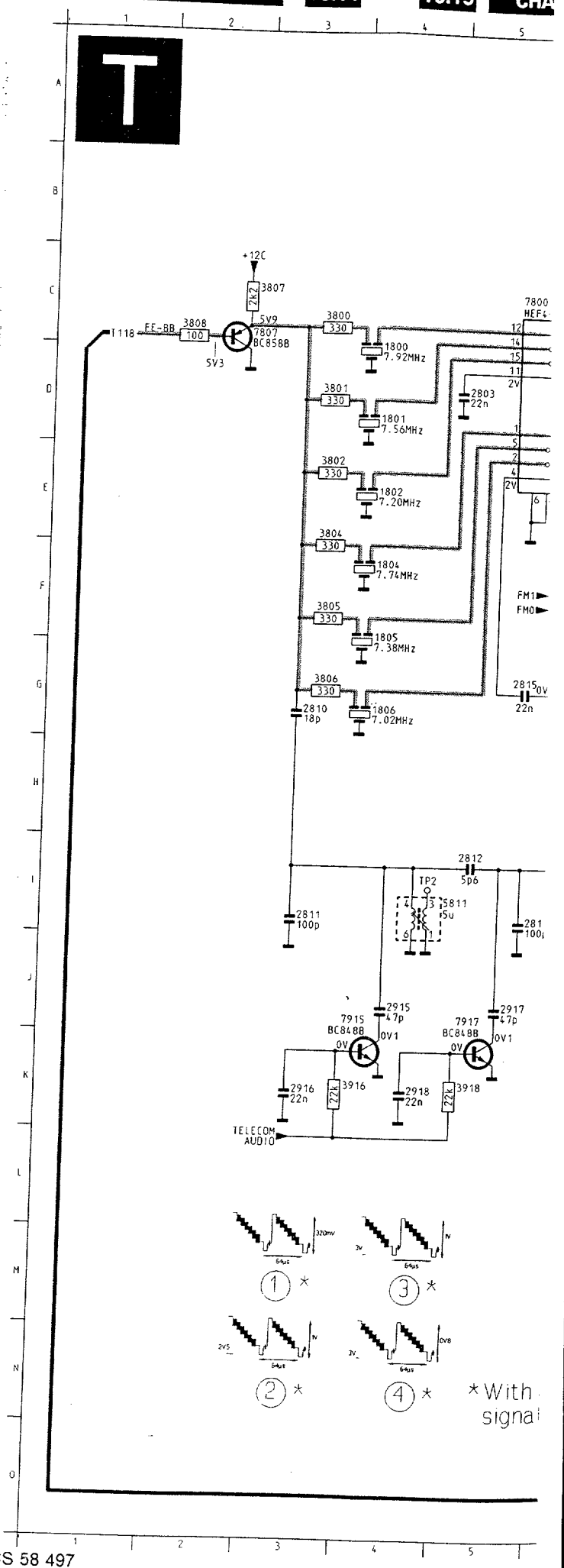
CHASSIS FL1

Q

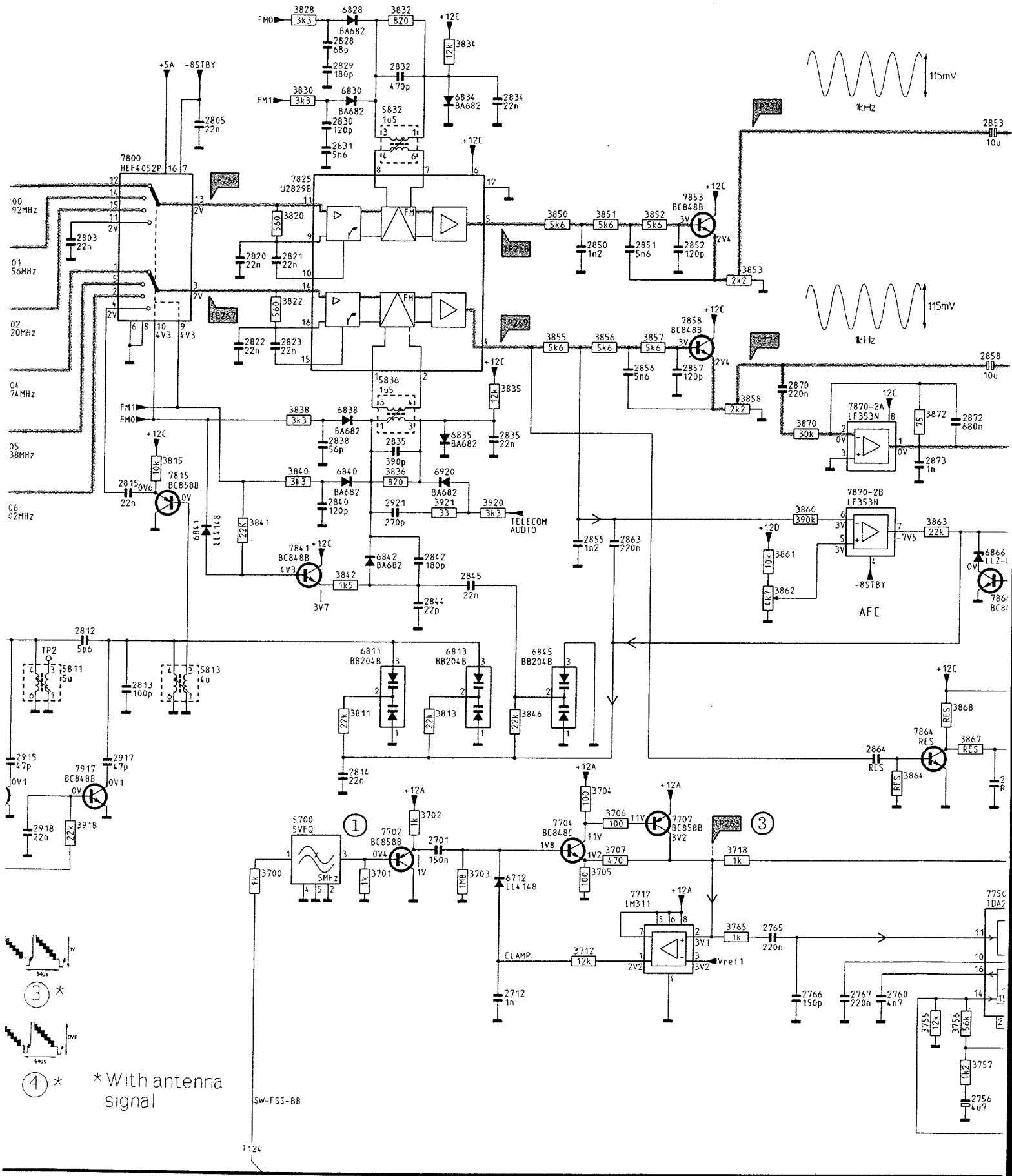
CL16532054/012.PREF
121291

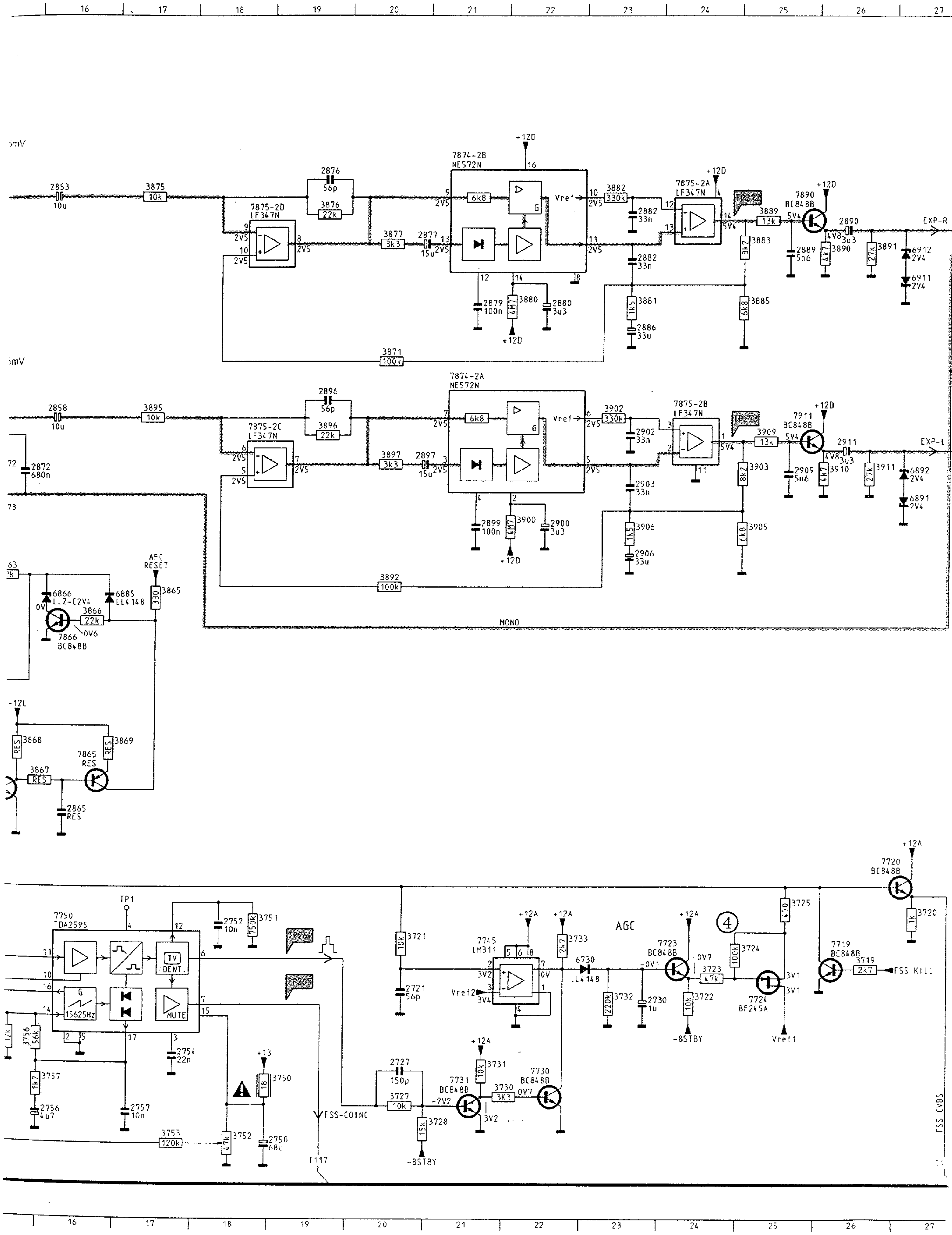
32 33 34

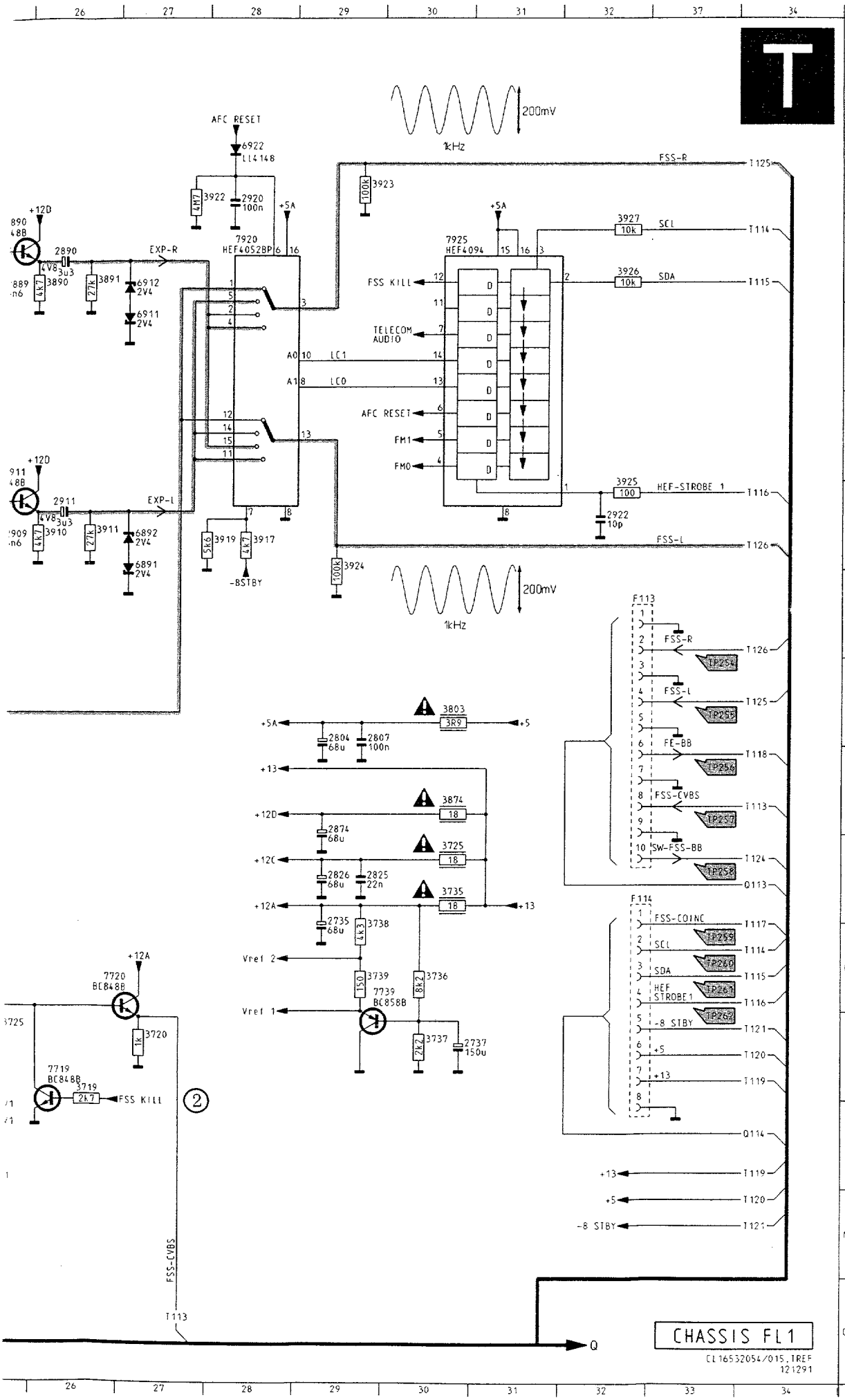
	1430	I 2	3470	L 9
	2031	N18	3471	L10
	2035	L14	3473	L11
	2040	M21	3474	L11
A	2041	N22	3476	K12
	2042	L25	3492	L12
	2043	N18	4041	M22
	2044	L17	4043	M18
	2045	N20	4044	K17
	2046	L20	4047	N25
	2047	I24	4210	L26
	2048	M22	4212	J25
B	2049	L25	4214	J26
	2050	C 4	5031	N17
	2051	C 5	5450	J 9
	2052	D 4	5463	M 6
	2053	C 5	5464	M 6
	2054	D 4	5470	L 9
	2055	C 4	6040	N23
	2056	C 7	6041	N24
C	2062	E 8	6215	C25
	2063	E10	7010	M11
	2065	F 8	7015	M20
	2214	D17	7020	K19
	2215	C25	7025	K16
	2216	C25	7030	M17
	2217	E26	7035	L13
D	2218	C26	7040	I23
	2219	B26	7050	C 6
	2430	I 2	7063	D 8
	2431	I 3	7064	D 9
	2432	I 3	7065	F 8
	2435	J 3	7066	F 9
	2438	K 3	7200	A13
	2440	L 3	7210	D13
E	2443	H 4	7214	D18
	2445	H 7	7215	E18
	2446	H 7	7220	C18
	2448	I 8	7443	H 3
	2451	J 9	7457	I11
	2452	I 9	7473	K10
	2453	J10	7490	K11
	2457	I12	9000	N21
F	2459	J 8		
	2460	K 8		
	2470	L 9		
	2480	L 7		
	2482	L 8		
	2492	L12		
	3010	N11		
G	3011	N12		
	3012	N12		
	3013	M20		
	3015	N19		
	3016	N20		
	3017	N20		
	3020	L19		
H	3021	L19		
	3022	L19		
	3023	K20		
	3025	L16		
	3026	L16		
	3027	L16		
	3030	N16		
	3031	N17		
I	3032	N18		
	3035	M 9		
	3036	L 9		
	3040	M23		
	3041	M23		
	3042	N24		
	3043	N21		
J	3047	M23		
	3048	N22		
	3050	C 8		
	3051	B 8		
	3052	C 8		
	3053	B 8		
	3054	C 7		
	3055	B 8		
K	3056	D 3		
	3057	C 2		
	3058	D 3		
	3059	D 2		
	3060	D 3		
	3061	D 2		
	3062	E 8		
	3063	D 9		
L	3064	D10		
	3065	F 8		
	3066	F 9		
	3067	F10		
	3068	E 2		
	3210	E26		
	3211	C26		
M	3212	A26		
	3213	C26		
	3214	I27		
	3215	C26		
	3217	C19		
	3218	D17		
	3219	E17		
	3220	D19		
N	3222	D18		
	3223	C18		
	3224	C18		
	3225	D19		
	3443	H 4		
	3452	I 9		
	3453	I11		
	3454	J11		
O	3455	J11		
	3456	J12		
	3457	J12		
	3465	L 5		
	3466	M 6		


T
+12C
3807
2k2
5V9
7807
BC858B
5V3
T118
EE-BB
3808
100
3800
330
1800
7.92MHz
3801
330
1801
7.56MHz
3802
330
1802
7.20MHz
3804
330
1804
7.74MHz
3805
330
1805
7.38MHz
3806
330
1806
7.02MHz
2803
22n
2810
18p
2815
22n
7800
HEF4
FM1
FM0
2812
5p6
TP2
5811
5u
2811
100p
2915
47p
2917
47p
7915
BC848B
7917
BC848B
0V1
2916
22n
3916
22k
2918
22n
3918
22k
TELECOM
AUDIO
320mV
64µs
1 *
3 *
2 *
4 *
*With
signal

FSS Audio / Video

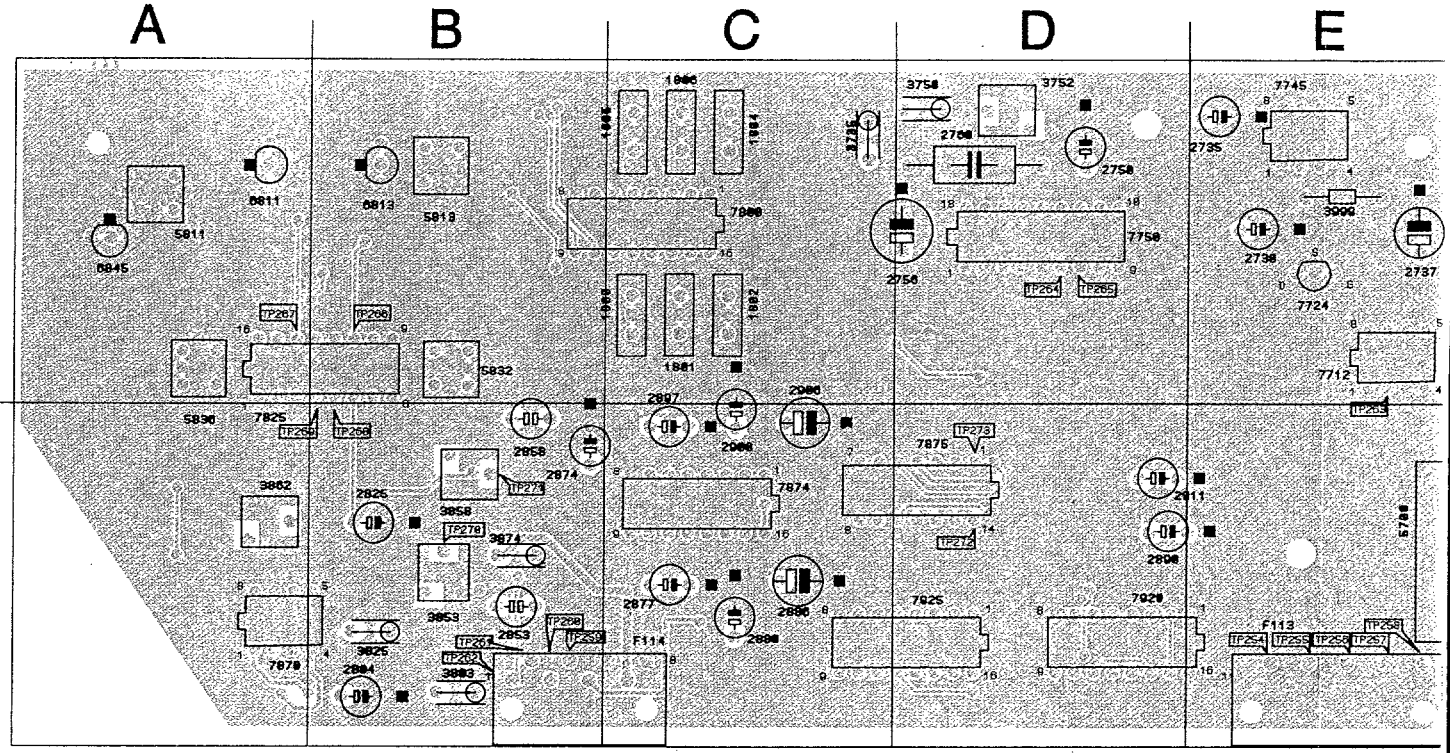


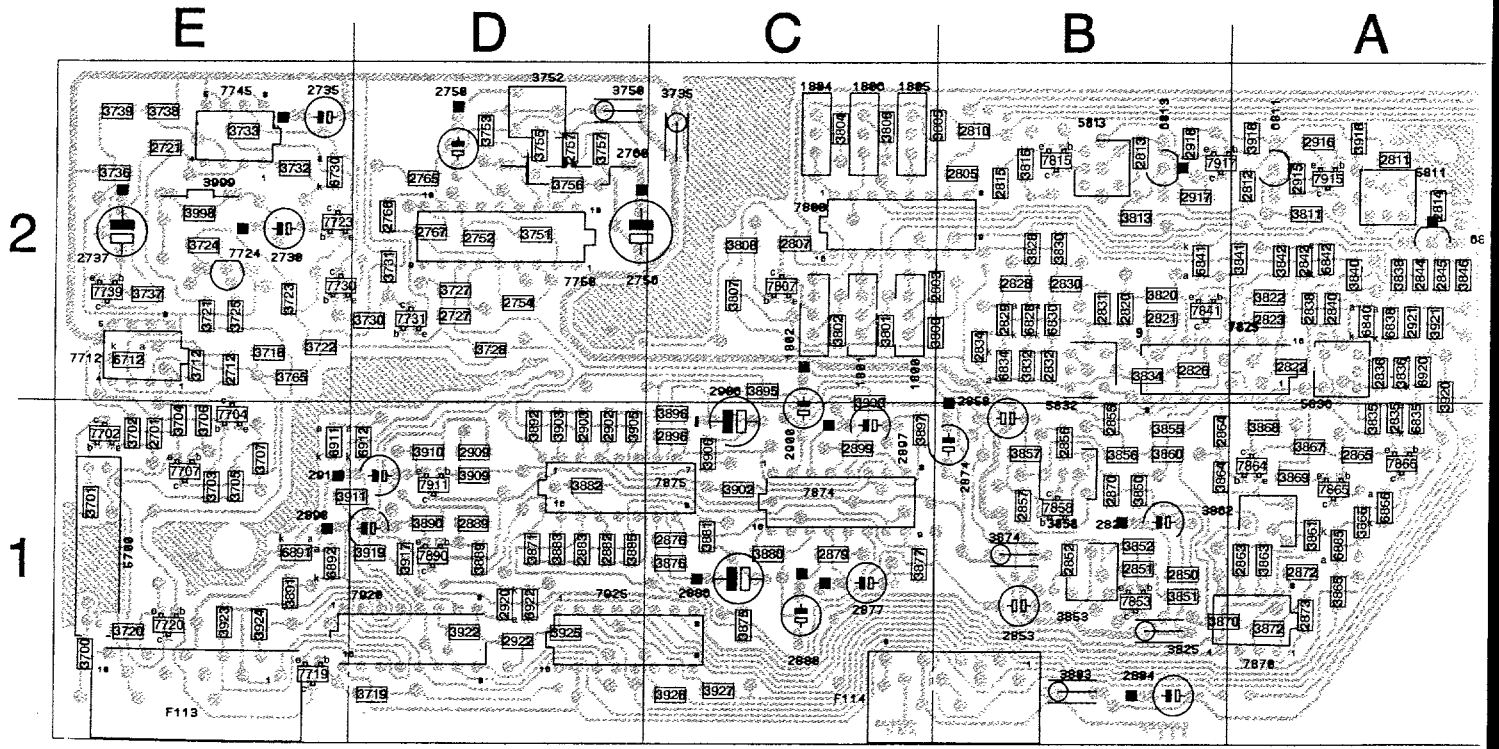

7874-2B
NE572N
7874-2A
NE572N
7875-2D
LF347N
7875-2C
LF347N
7875-2A
LF347N
7875-2B
LF347N
7890
BC848B
7911
BC848B
EXP-R
EXP-L
MONO
AFC
RESET
7866
BC848B
7865
RES
7750
TDA2595
15625Hz
TV
IDENT.
MUTE
TP1
FSS-COINC
7745
LM311
AGC
7723
BC848B
7724
BF245A
7719
BC848B
FSS KILL
7720
BC848B
7731
BC848B
7730
BC848B
-8STBY
Vref1
Vref2
FSS-CVBS
TP264
TP265
TP272
TP273

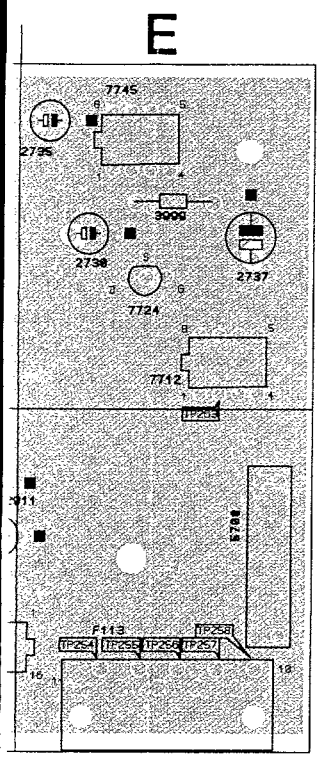


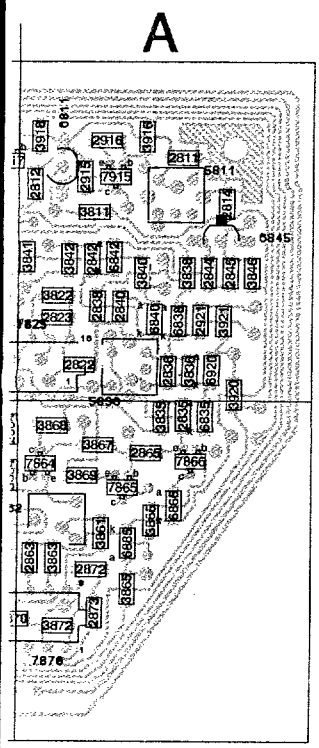
1800	D 4	3736	K30	6911	D27
1801	D 4	3737	L30	6912	C27
1802	E 4	3738	J29	6920	G 9
1804	F 4	3739	K29	6922	B28
1805	F 4	3750	N19	7702	K 9
1806	G 4	3751	L18	7704	K11
2701	K 9	3752	O18	7707	K12
2712	M10	3753	O17	7712	L12
2721	M20	3755	M15	7719	L26
2727	N20	3756	M15	7720	K27
2730	M23	3757	N16	7723	L24
2735	K29	3765	L13	7724	M25
2737	L30	3800	C 3	7730	N22
2750	O19	3801	D 3	7731	N21
2752	L18	3802	E 3	7739	K29
2754	N17	3803	H30	7745	L21
2756	N16	3804	E 3	7750	L16
2757	N17	3805	F 3	7800	C 5
2760	M15	3806	G 3	7807	C 2
2765	L13	3807	C 2	7815	G 6
2766	M14	3808	C 2	7825	C 7
2767	M14	3811	J 8	7841	H 7
2803	D 5	3813	J 9	7853	C12
2804	H29	3815	G 6	7858	E12
2805	C 6	3820	D 7	7864	J15
2807	H29	3822	E 7	7865	J16
2810	G 3	3828	A 7	7866	H16
2811	I 3	3830	B 7	7870	G14
2812	I 5	3832	A 9	7870	F14
2813	I 5	3834	B 9	7874	E21
2814	J 8	3835	F10	7874	B21
2815	G 5	3836	G 9	7875	C18
2820	D 7	3838	F 7	7875	B24
2821	D 7	3840	G 7	7875	F18
2822	E 7	3841	G 7	7875	E24
2823	E 7	3842	H 8	7890	C25
2825	J29	3846	J10	7911	E25
2826	J29	3850	D10	7915	J 4
2828	B 8	3851	D11	7917	J 5
2829	B 8	3852	D12	7920	C28
2830	C 8	3853	D13	7925	C30
2831	C 8	3855	E10		
2832	B 9	3856	E11		
2834	B10	3857	E12		
2835	F 9	3858	F13		
2835	F10	3860	G13		
2838	F 8	3861	H13		
2840	G 8	3862	H13		
2842	H 9	3863	G15		
2844	H 9	3864	J15		
2845	H 9	3865	H17		
2850	D11	3866	H16		
2851	D11	3867	J16		
2852	D12	3868	J15		
2853	C16	3869	J16		
2855	H11	3870	F13		
2856	F11	3871	E20		
2857	F12	3872	F15		
2858	E16	3874	I30		
2863	H11	3875	C17		
2864	J14	3876	C19		
2865	J16	3877	C20		
2870	F13	3880	D22		
2872	F15	3881	D23		
2873	G15	3882	C23		
2874	I29	3883	C25		
2876	B19	3885	D25		
2877	C20	3889	C25		
2879	D21	3890	C26		
2880	D22	3891	C26		
2882	C23	3892	H20		
2882	C23	3895	E17		
2886	D23	3896	F19		
2889	C25	3897	F20		
2890	C26	3900	G22		
2896	E19	3902	E23		
2897	F20	3903	F25		
2899	G21	3905	G25		
2900	G22	3906	G23		
2902	F23	3909	F25		
2903	F23	3910	F26		
2906	G23	3911	F26		
2909	F25	3916	K 3		
2911	F26	3917	F28		
2915	J 4	3918	K 5		
2916	K 3	3919	F28		
2917	J 5	3920	G10		
2918	K 4	3921	G 9		
2920	B28	3922	B27		
2921	G 9	3923	B29		
2922	F32	3924	F29		
3700	L 7	3925	F32		
3701	L 8	3926	C32		
3702	K 9	3927	C32		
3703	L 9	5700	K 7		
3704	K11	5811	I 4		
3705	L11	5813	I 6		
3706	K11	5832	B 8		
3707	K11	5836	F 8		
3712	M11	6712	L10		
3718	K13	6730	L23		
3719	L26	6811	I 8		
3720	L27	6813	I 9		
3721	L20	6828	A 8		
3722	M24	6830	B 8		
3723	M24	6834	B 9		
3724	L25	6835	F 9		
3725	L25	6838	F 8		
3725	J30	6840	G 8		
3727	N20	6841	G 6		
3728	N21	6842	H 8		
3730	N22	6845	I10		
3731	N21	6866	H16		
3732	M23	6885	H16		
3733	L22	6891	F27		
3735	J30	6892	F27		

FSS panel
FSS Platine
Platine FSS









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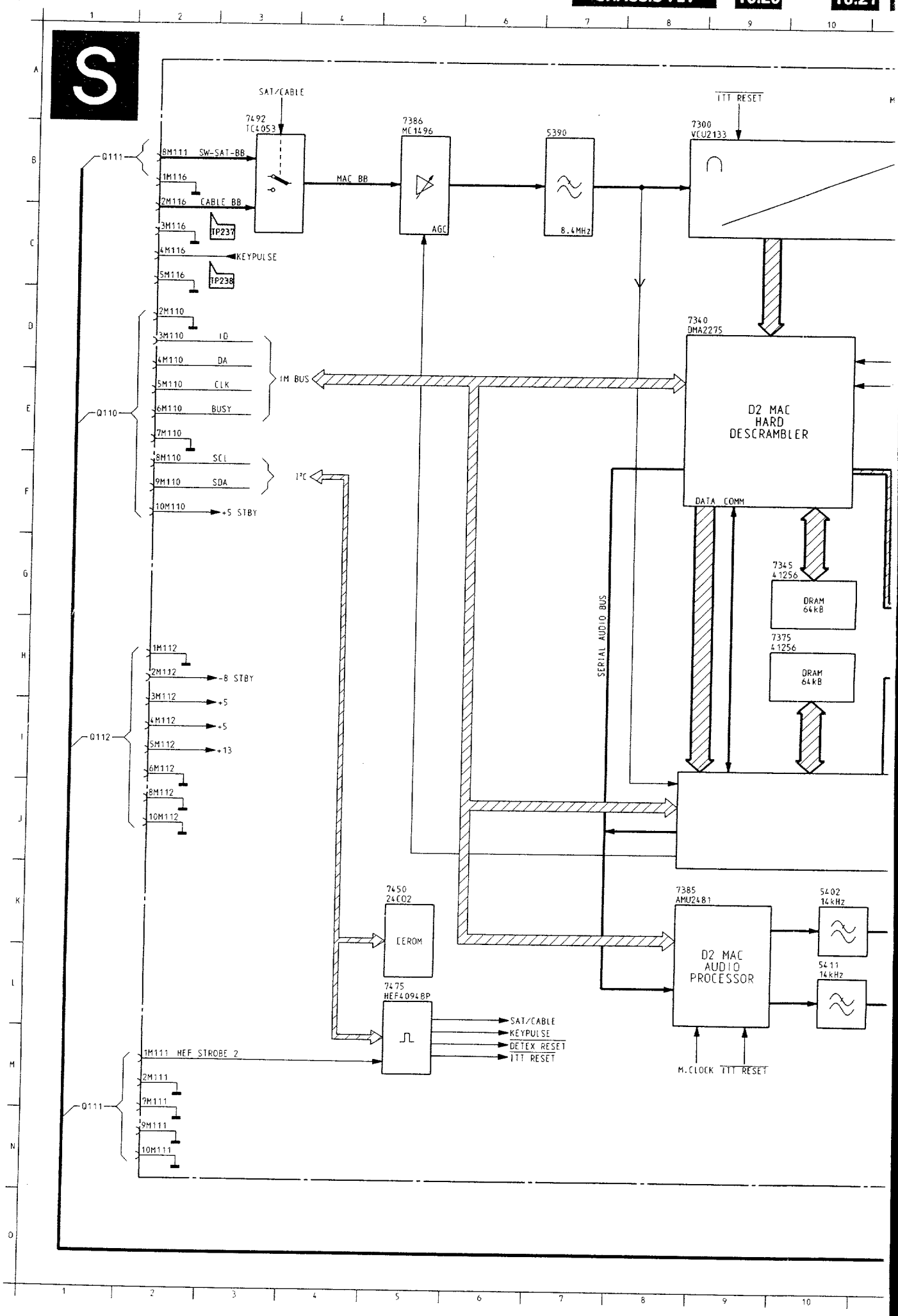
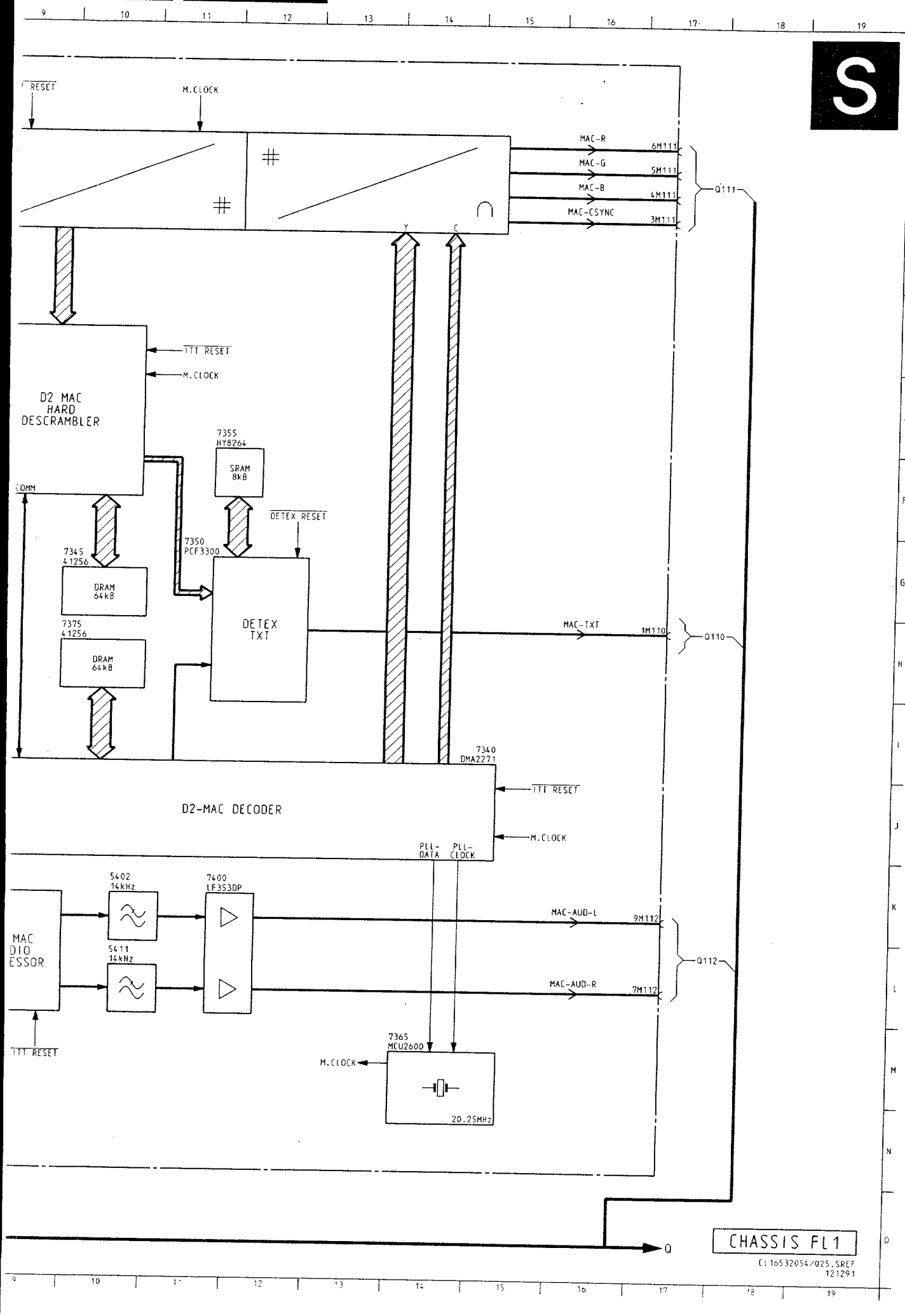
1802 C2	2921 A2	3876 C1	7875 D1
1804 C2	2922 D1	3877 C1	7890 D1
1805 C2	3700 E1	3880 C1	7911 D1
1806 C2	3701 E1	3881 C1	7915 A2
2701 E1	3702 E1	3882 D1	7917 B2
2712 E2	3703 E1	3883 D1	7920 D1
2721 E2	3704 E1	3885 D1	7925 D1
2727 D2	3705 E1	3889 D1	
2730 E2	3706 E1	3890 D1	
2735 E2	3707 E1	3891 E1	
2737 E2	3712 E2	3892 D1	
2750 D2	3718 E2	3895 C2	
2752 D2	3719 D1	3896 C1	
2754 D2	3720 E1	3897 C1	
2756 D2	3721 E2	3900 C1	
2757 D2	3722 E2	3902 C1	
2760 D2	3723 E2	3903 D1	
2765 D2	3724 E2	3905 D1	
2766 D2	3725 E2	3906 C1	
2767 D2	3727 D2	3909 D1	
2803 C2	3728 D2	3910 D1	
2804 B1	3730 D2	3911 D1	
2805 B2	3731 D2	3916 A2	
2807 C2	3732 E2	3917 D1	
2810 B2	3733 E2	3918 A2	
2811 A2	3735 C2	3919 D1	
2812 A2	3736 E2	3920 A1	
2813 B2	3737 E2	3921 A2	
2814 A2	3738 E2	3922 D1	
2815 B2	3739 E2	3923 E1	
2820 B2	3750 D2	3924 E1	
2821 B2	3751 D2	3925 D1	
2822 A2	3752 D2	3926 C1	
2823 A2	3753 D2	3927 C1	
2825 B1	3755 D2	3998 E2	
2826 B2	3756 D2	3999 E2	
2828 B2	3757 D2	5700 E1	
2829 B2	3765 E2	5811 A2	
2830 B2	3800 C2	5813 B2	
2831 B2	3801 C2	5832 B2	
2832 B2	3802 C2	5836 A2	
2834 B2	3803 B1	6712 E2	
2835 A1	3804 C2	6730 E2	
2836 A2	3805 C2	6811 A2	
2838 A2	3806 C2	6813 B2	
2840 A2	3807 C2	6828 B2	
2842 A2	3808 C2	6830 B2	
2844 A2	3811 A2	6834 B2	
2845 A2	3813 B2	6835 A1	
2850 B1	3815 B2	6838 A2	
2851 B1	3820 B2	6840 A2	
2852 B1	3822 A2	6841 B2	
2853 B1	3825 B1	6842 A2	
2855 B1	3828 B2	6845 A2	
2856 B1	3830 B2	6866 A1	
2857 B1	3832 B2	6885 A1	
2858 B1	3834 B2	6891 E1	
2863 A1	3835 A1	6892 E1	
2864 B1	3836 A2	6911 E1	
2865 A1	3838 A2	6912 D1	
2870 B1	3840 A2	6920 A2	
2872 A1	3841 A2	6922 D1	
2873 A1	3842 A2	7702 E1	
2874 B1	3846 A2	7704 E1	
2876 C1	3850 B1	7707 E1	
2877 C1	3851 B1	7712 E2	
2879 C1	3852 B1	7719 E1	
2880 C1	3853 B1	7720 E1	
2882 D1	3856 B1	7723 E2	
2883 D1	3856 B1	7724 E2	
2886 C1	3857 B1	7730 E2	
2889 D1	3858 B1	7731 D2	
2890 D1	3860 B1	7739 E2	
2896 C1	3861 A1	7745 E2	
2897 C1	3862 A1	7750 D2	
2899 C1	3863 A1	7800 C2	
2900 C1	3864 B1	7807 C2	
2902 D1	3865 A1	7815 B2	
2903 D1	3866 A1	7825 B2	
2906 C1	3867 A1	7841 B2	
2909 D1	3868 A1	7853 B1	
2911 D1	3869 A1	7858 B1	
2915 A2	3870 B1	7864 A1	

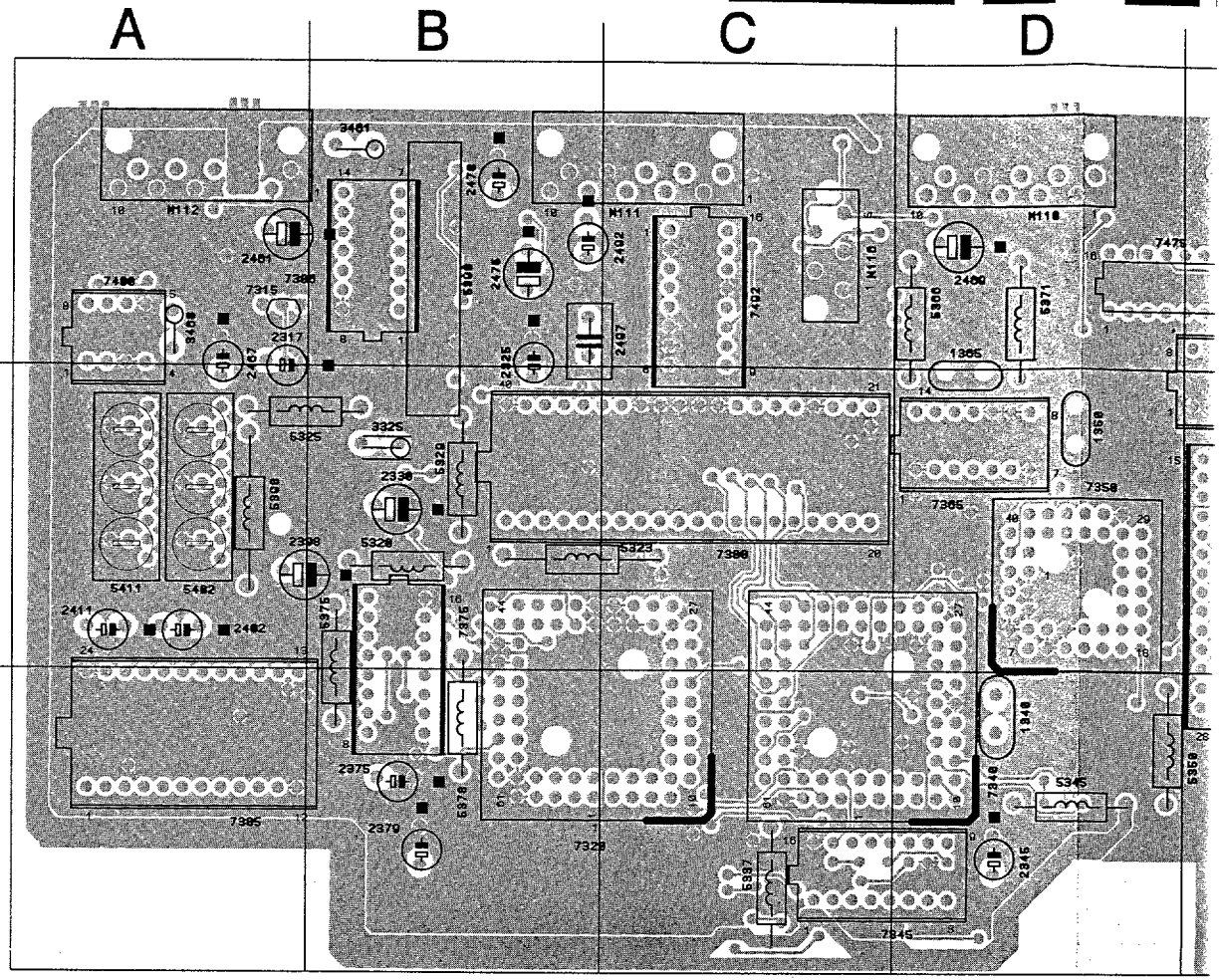

S
SAT/CABLE
7492
TC4053
7386
MC1496
5390
ITT RESET
7300
VCU2133
Q111
8M111 SW-SAT-BB
1M116
2M116 CABLE BB
3M116
4M116
5M116
TP237
TP238
KEYPULSE
MAC BB
AGC
8.4MHz
2M110
3M110 ID
4M110 DA
5M110 CLK
6M110 BUSY
7M110
8M110 SCL
9M110 SDA
10M110 +5 STBY
Q110
IM BUS
I²C
7340
DMA2275
D2 MAC
HARD
DESCRAMBLER
DATA COMM
7345
41256
DRAM
64kB
7375
41256
DRAM
64kB
SERIAL AUDIO BUS
1M112
2M112 -8 STBY
3M112 +5
4M112 +5
5M112 +13
6M112
8M112
10M112
Q112
7450
24C02
EEROM
7475
HEF4094BP
SAT/CABLE
KEYPULSE
DETEX RESET
ITT RESET
1M111 HEF STROBE 2
2M111
7M111
9M111
10M111
Q111
7385
AMU2481
D2 MAC
AUDIO
PROCESSOR
5402
14kHz
5411
14kHz
M.CLOCK
ITT RESET

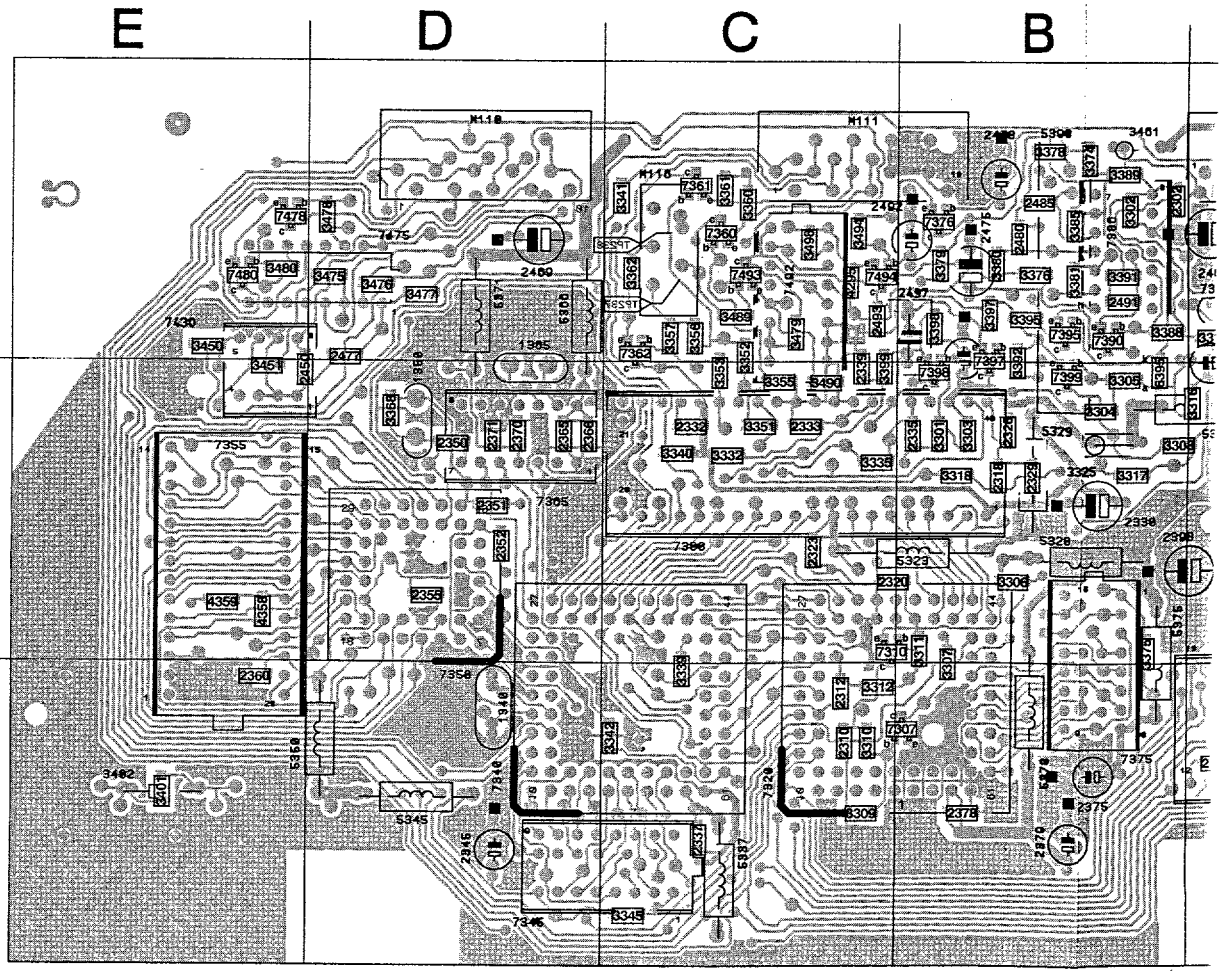
S

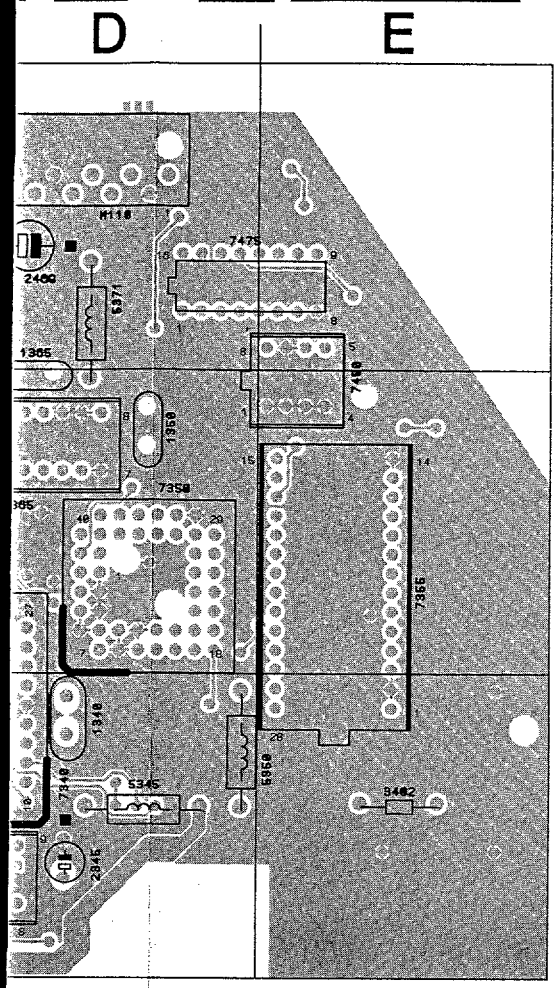
5390	B 7
5402	K10
5411	L10
7300	B 8
7340	D 8
7340	I 15
7345	G 9
7350	G11
7355	F11
7365	M14
7375	H 9
7385	K 8
7386	B 5
7400	K11
7450	K 5
7475	L 5
7492	B 3

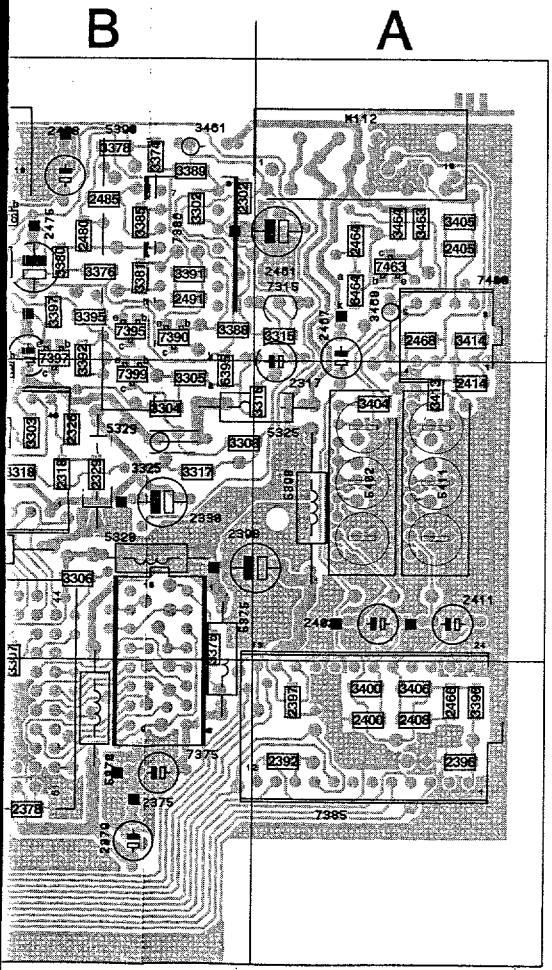


D2-MAC Panel
D2-MAC Platine
Platine D2-MAC



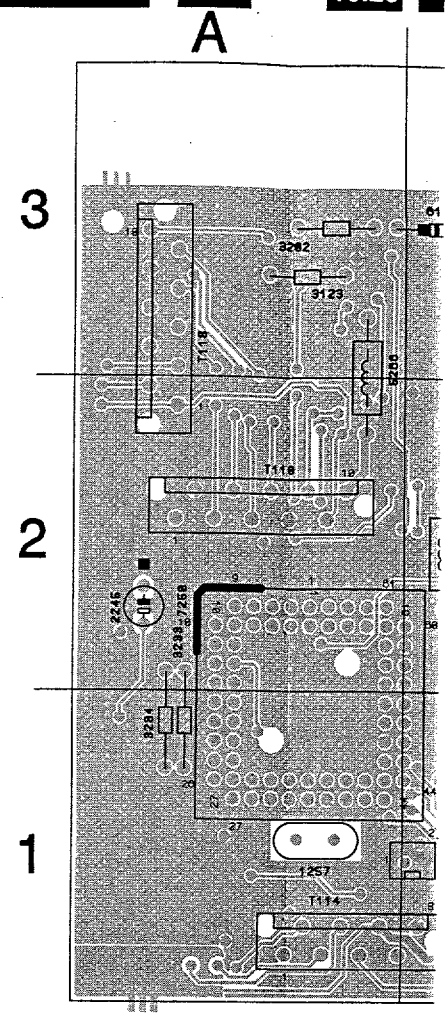


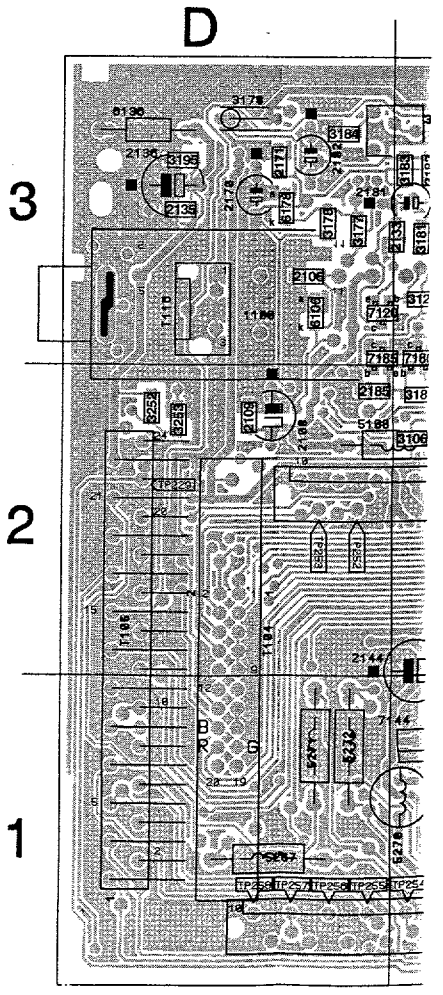


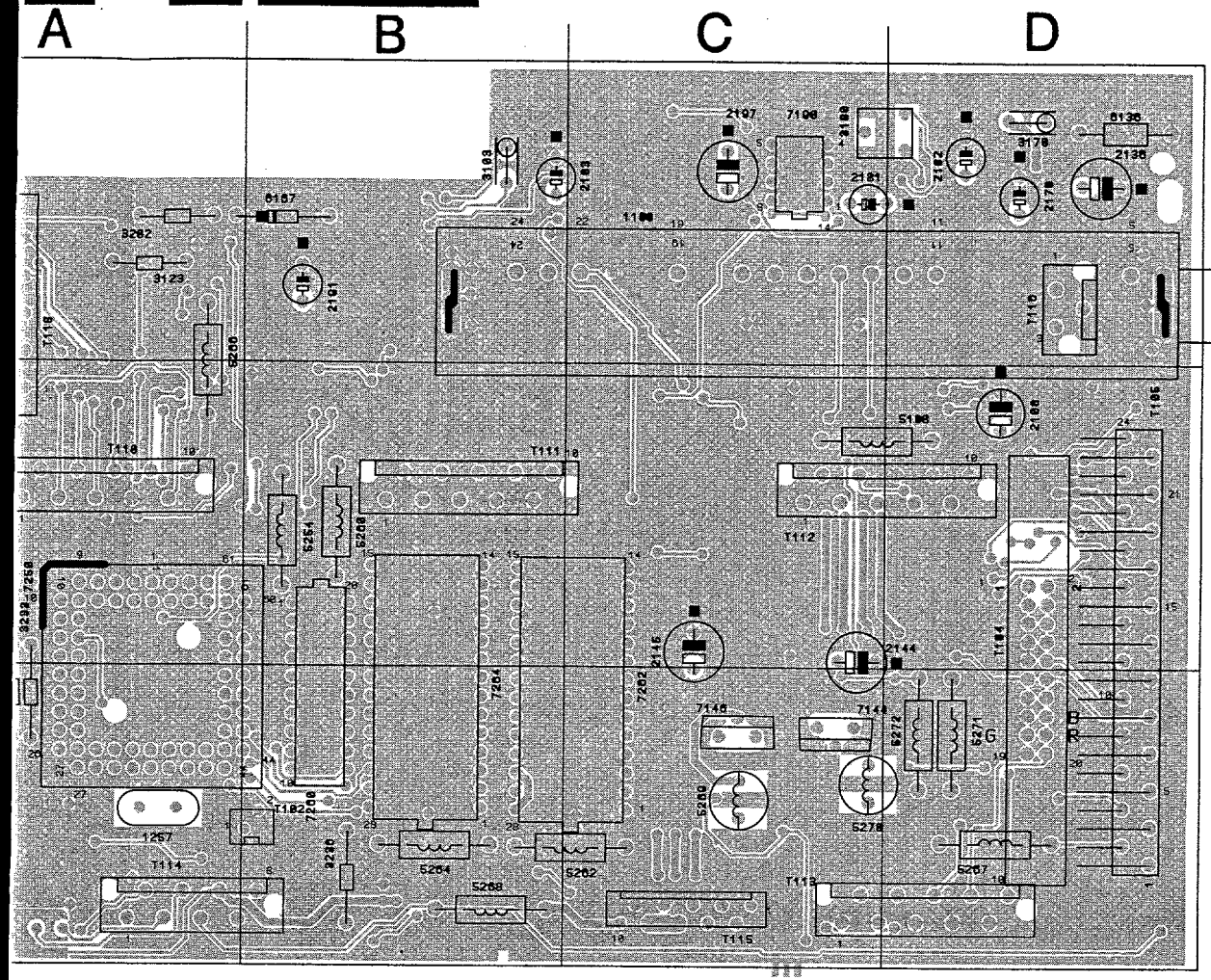


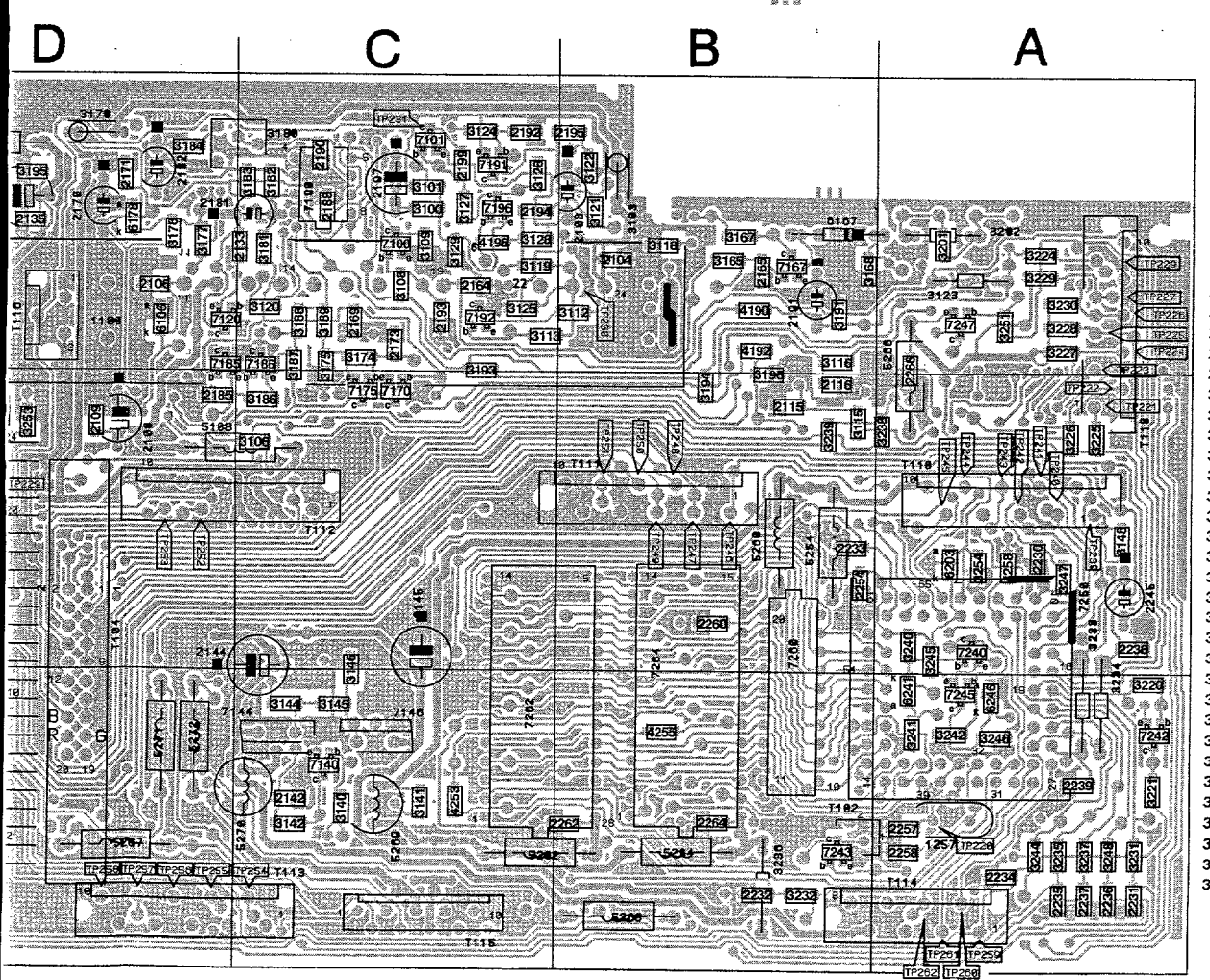
M110 D3	3352 C3	7390 B3
M111 C3	3353 C3	7395 B3
M112 A3	3355 C2	7397 B3
M116 C3	3356 C3	7398 B3
1340 D1	3357 C3	7399 B3
1350 D2	3360 C3	7400 A3
1365 D3	3361 C3	7450 E3
2302 A3	3362 C3	7463 A3
2310 C1	3368 D2	7475 D3
2312 C1	3374 B3	7478 E3
2317 A3	3375 B2	7480 E3
2318 B2	3376 B3	7492 C3
2320 B2	3378 B3	7493 C3
2323 C2	3379 B3	7494 C3
2325 B3	3380 B3	
2326 B2	3381 B3	
2329 B2	3385 B3	
2330 B2	3388 B3	
2332 C2	3389 B3	
2333 C2	3391 B3	
2335 B2	3392 B3	
2337 C1	3395 B3	
2339 C3	3396 A1	
2345 D1	3397 B3	
2350 D2	3398 B3	
2351 D2	3399 C3	
2352 D2	3400 A1	
2355 D2	3401 E1	
2360 E2	3402 E1	
2365 D2	3404 A2	
2366 D2	3405 A3	
2370 D2	3406 A1	
2371 D2	3413 A2	
2375 B1	3414 A3	
2378 B1	3450 E3	
2379 B1	3451 E3	
2392 A1	3461 B3	
2396 A1	3463 A3	
2397 A1	3464 A3	
2398 A2	3468 A3	
2400 A1	3475 D3	
2402 A2	3476 D3	
2405 A3	3477 D3	
2408 A1	3478 D3	
2411 A2	3479 C3	
2414 A2	3480 E3	
2450 D3	3489 C3	
2461 A3	3490 C2	
2464 A3	3494 C3	
2466 A1	3498 C3	
2467 A3	4295 C3	
2468 A3	4358 E2	
2469 D3	4359 E2	
2475 B3	5320 B2	
2477 D3	5323 B2	
2478 B3	5325 A2	
2480 B3	5329 B2	
2485 B3	5337 C1	
2491 B3	5345 D1	
2492 B3	5350 D1	
2493 C3	5366 D3	
2497 B3	5371 D3	
3301 B2	5375 B2	
3302 B3	5378 B1	
3303 B2	5390 B3	
3304 B2	5398 A2	
3305 B3	5402 A2	
3306 B2	5411 A2	
3307 B2	6395 B3	
3308 A2	6464 A3	
3309 C1	7300 C2	
3310 C1	7307 B1	
3311 B2	7310 B2	
3312 C1	7315 A3	
3315 A3	7320 B1	
3316 A2	7340 C1	
3317 B2	7345 C1	
3318 B2	7350 D2	
3325 B2	7355 E2	
3332 C2	7360 C3	
3335 C2	7361 C3	
3339 C2	7362 C3	
3340 C2	7365 D2	
3341 C3	7375 B2	
3342 C1	7376 B3	
3345 C1	7385 A1	
3361 C2	7386 B3	

Tuner / control panel
Tuner / Bedienung Platine
Platine Tuner / Commande









T102 B1
T104 D2
T105 D2
T110 A2
T111 B2
T112 D2
T113 D1
T114 A1
T115 C1
T116 D3
T118 A3
1100 C3
1257 A1
2103 B3
2104 B3
2106 D3
2108 D2
2109 D2
2115 B2
2116 B2
2133 C3
2135 D3
2136 D3
2142 C1
2144 C2
2145 C2
2164 C3
2165 B3
2169 C3
2170 D3
2171 D3
2173 C3
2181 C3
2182 D3
2185 D2
2188 C3
2190 C3
2191 B3
2192 C3
2193 C3
2194 C3
2196 B3
2197 C3
2199 C3
2230 A2
2231 A1
2232 B1
2233 B2
2234 A1
2235 A1
2236 A1
2237 A1
2238 A2
2239 A1
2245 A2
2254 B2
2257 A1
2258 A1
2260 B2
2262 B1
2264 B1
2266 A3
3100 C3
3101 C3
3103 B3
3106 C2
3108 C3
3109 C3
3112 B3
3113 C3
3115 B2
3116 B3
3118 B3
3119 C3
3120 C3
3121 B3
3122 B3
3123 A3
3124 C3
3125 C3
3126 C3
3127 C3
3128 C3
3129 C3
3140 C1
3141 C1
3142 C1
3144 C1
3145 C1
3146 C2
3148 A2
3165 B3
3167 B3
3168 B3
3170 D3
3174 C3
3175 C3
3177 D3
3178 D3
3180 C3
3181 C3
3182 C3
3183 C3
3184 D3
3186 C2
3187 C3
3188 C3
3189 C3
3191 B3
3193 C3
3194 B2
3195 D3
3196 B3
3201 A3
3202 A3
3220 A1
3221 A1
3224 A3
3225 A2
3226 A2
3227 A3
3228 A3
3229 A3
3230 A3
3231 A1
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3233 A1
3234 A1
3235 A1
3236 B1
3237 A1
3238 A2
3239 B2
3240 A2
3241 A1
3242 A1
3244 A1
3245 A2
3246 A1
3247 A2
3248 A1
3251 A3
3252 D2
3253 D2
3254 A2
4190 B3
4192 B3
4196 C3
4253 C1
4255 B1
4258 A2
5108 C2
5254 B2
5260 B2
5262 C1
5264 B1
5266 A3
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5268 B1
5269 C1
5270 C1
5271 D1
5272 D1
6106 D3
6136 D3
6167 B3
6178 D3
6203 A2
6241 A1
6246 A1
7100 C3
7101 C3
7120 D3
7140 C1
7144 C1
7146 C1
7167 B3
7170 C2
7175 C2
7185 D3
7186 C3
7190 C3
7191 C3
7192 C3
7196 C3
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7243 B1
7245 A1
7247 A3
7250 A1
7260 B1
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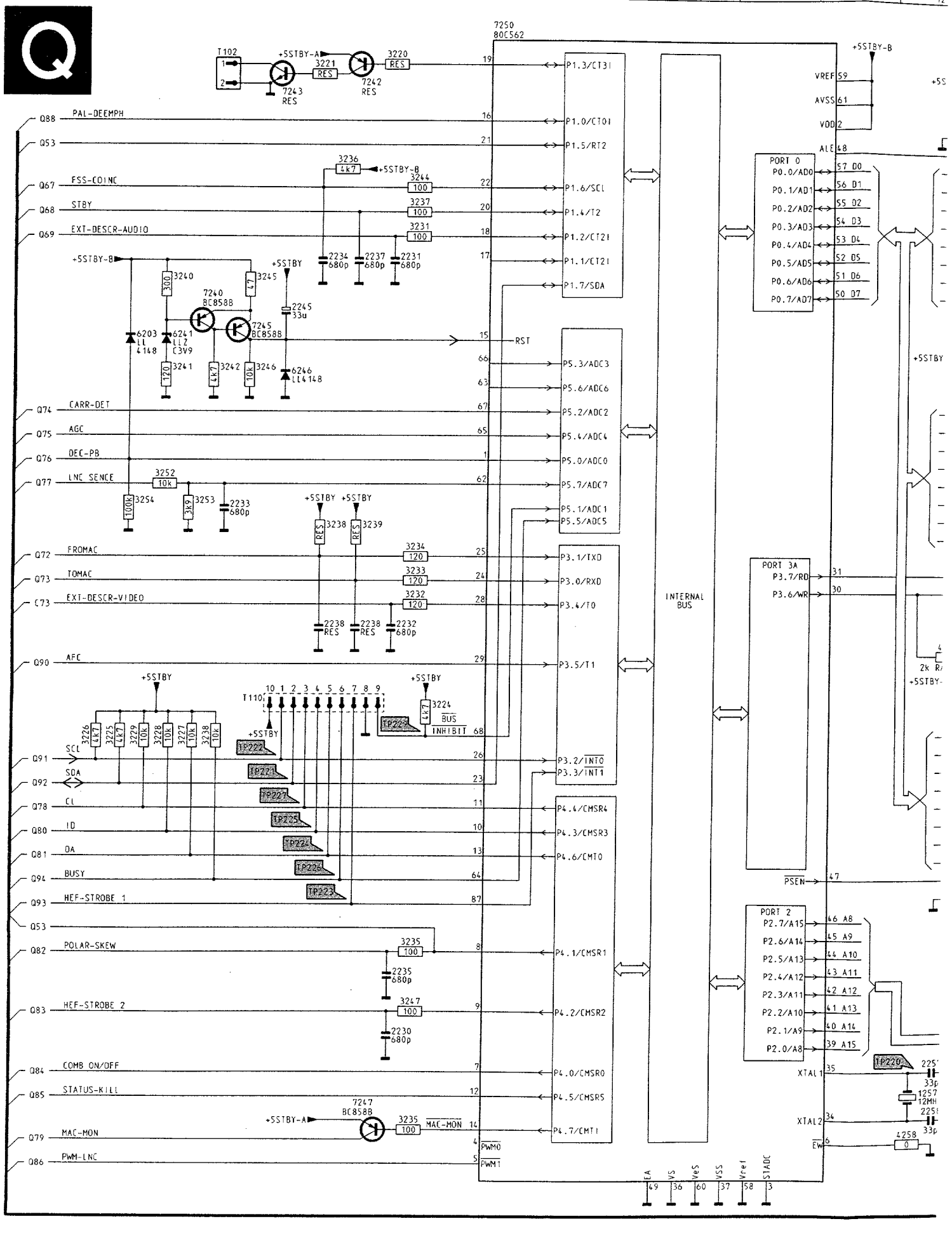
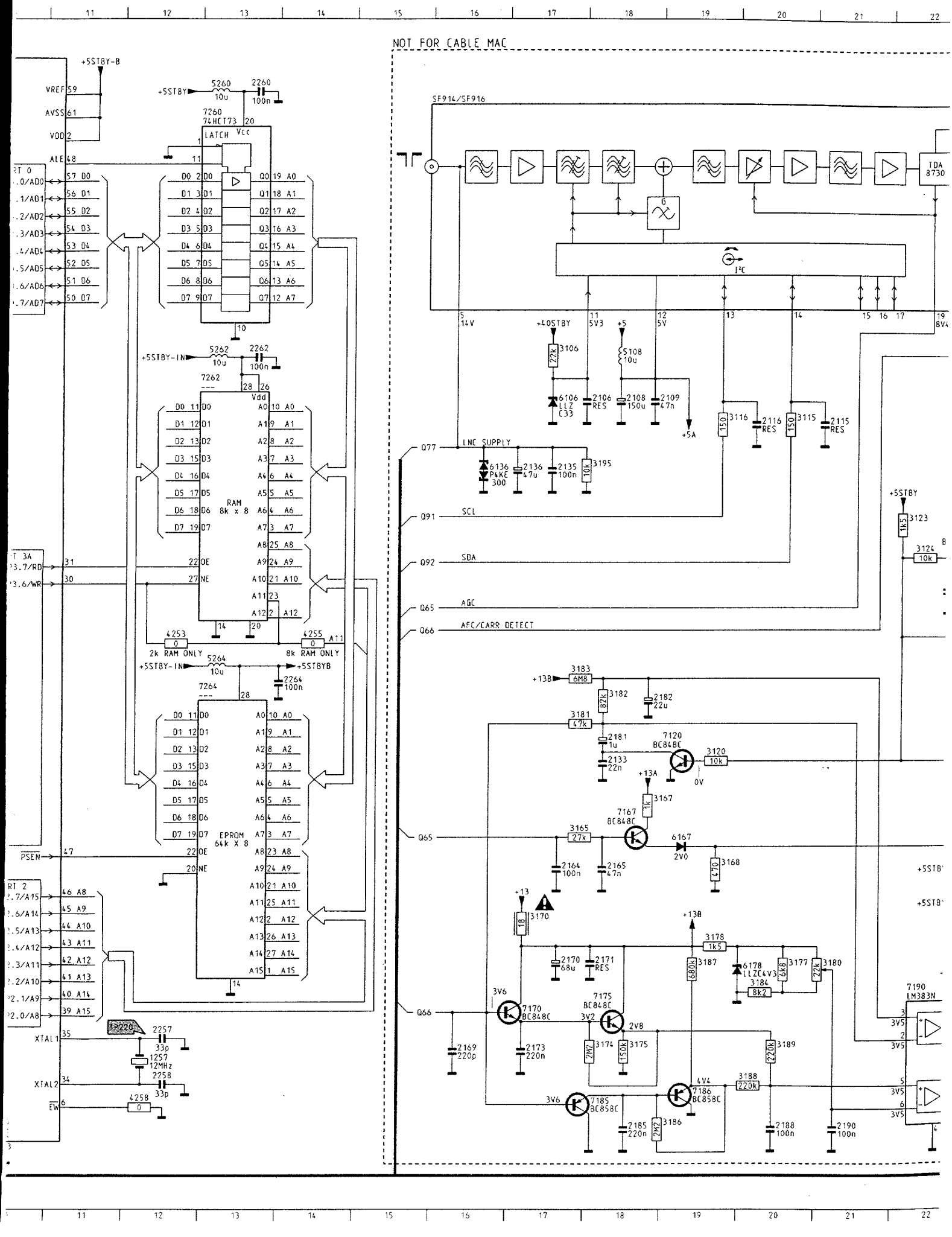
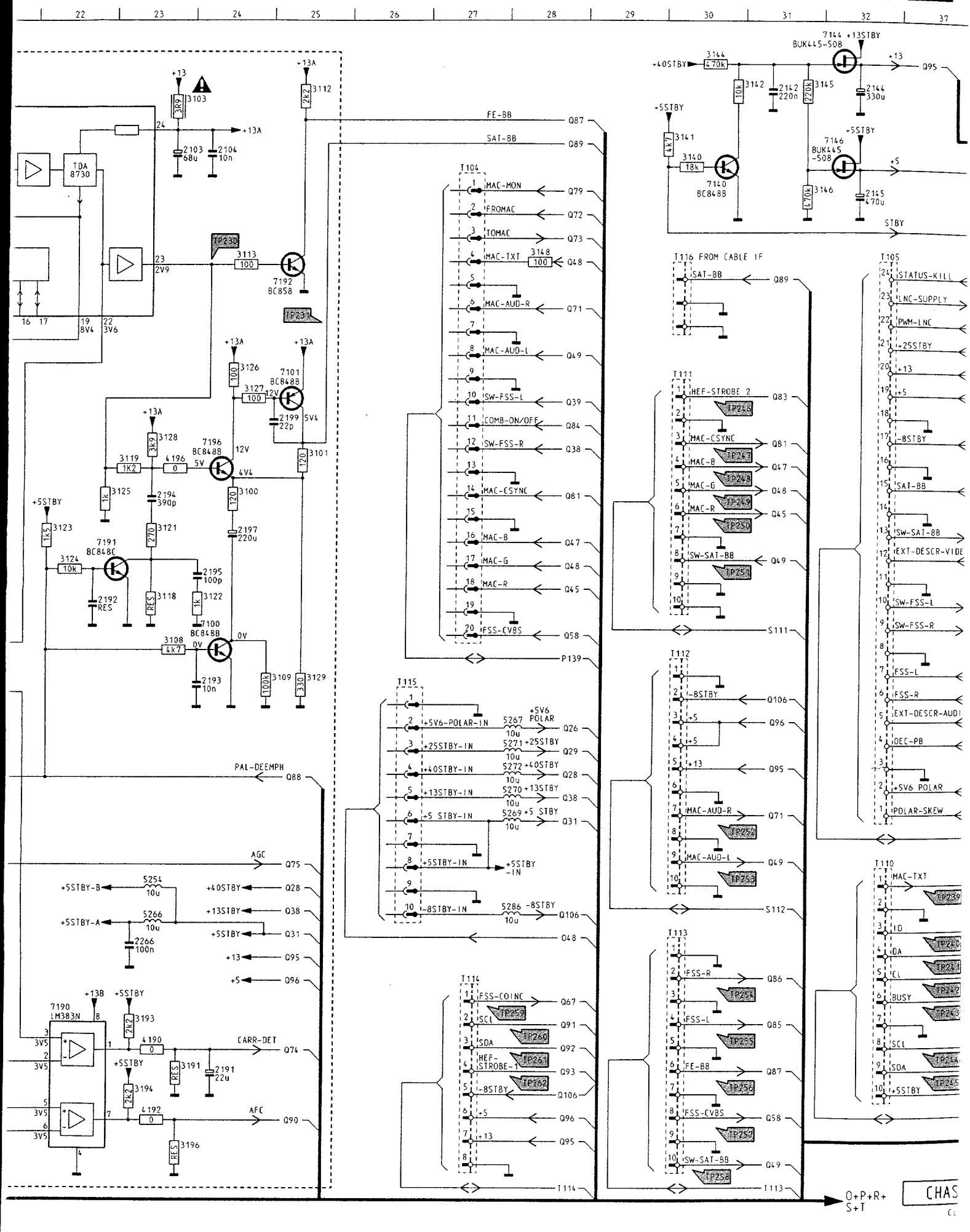
7264 B1


Q
7250
80C562
T102
+5STBY-A
3221 RES
3220 RES
7243 RES
7242 RES
Q88 PAL-DEEMPH
Q53
Q67 FSS-COINC
Q68 STBY
Q69 EXT-DESCR-AUDIO
3236 4k7
+5STBY-B
3244 100
3237 100
3231 100
2234 680p
2237 680p
2231 680p
+5STBY-B
3240 300
3245 47
+5STBY
7240 BC858B
7245 BC858B
2245 33u
6203 LL 4148
6241 LLZ C3V9
3241 120
3242 4k7
3246 10k
6246 LL4148
RST
Q74 CARR-DET
Q75 AGC
Q76 DEC-PB
Q77 LNC SENCE
3252 10k
3254 100k
3253 3k9
2233 680p
+5STBY +5STBY
3238 RES
3239 RES
Q72 FROMAC
Q73 TOMAC
C73 EXT-DESCR-VIDEO
3234 120
3233 120
3232 120
2238 RES
2238 RES
2232 680p
Q90 AFC
+5STBY
3226 4k7
3225 4k7
3229 10k
3228 10k
3227 10k
3238 10k
T110
TP222
TP221
TP227
TP225
TP224
TP226
TP223
+5STBY
3224 4k7
BUS INHIBIT
Q91 SCL
Q92 SDA
Q78 CL
Q80 ID
Q81 DA
Q94 BUSY
Q93 HEF-STROBE 1
Q53
Q82 POLAR-SKEW
3235 100
2235 680p
Q83 HEF-STROBE 2
3247 100
2230 680p
Q84 COMB ON/OFF
Q85 STATUS-KILL
7247 BC858B
+5STBY-A
3235 100
MAC-MON
Q79 MAC-MON
Q86 PWM-LNC
P1.3/CT3I
P1.0/CT0I
P1.5/RT2
P1.6/SCL
P1.4/T2
P1.2/CT2I
P1.1/CT2I
P1.7/SDA
P5.3/ADC3
P5.6/ADC6
P5.2/ADC2
P5.4/ADC4
P5.0/ADC0
P5.7/ADC7
P5.1/ADC1
P5.5/ADC5
P3.1/TXD
P3.0/RXD
P3.4/T0
P3.5/T1
P3.2/INT0
P3.3/INT1
P4.4/CMSR4
P4.3/CMSR3
P4.6/CMT0
P4.1/CMSR1
P4.2/CMSR2
P4.0/CMSR0
P4.5/CMSR5
P4.7/CMT1
PWM0
PWM1
INTERNAL BUS
+5STBY-B
VREF
AVSS
VDD
ALE
PORT 0
P0.0/AD0
P0.1/AD1
P0.2/AD2
P0.3/AD3
P0.4/AD4
P0.5/AD5
P0.6/AD6
P0.7/AD7
+5STBY
PORT 3A
P3.7/RD
P3.6/WR
PSEN
PORT 2
P2.7/A15
P2.6/A14
P2.5/A13
P2.4/A12
P2.3/A11
P2.2/A10
P2.1/A9
P2.0/A8
TP220
XTAL1
XTAL2
EW
EA
VS
VeS
VSS
Vref
STADC

Tuner / Commande




+13
+13A
+40STBY
+5STBY
STBY
TDA 8730
7144 +13STBY BUK445-508
7146 BUK445 -508
7140 BC848B
FE-BB
SAT-BB
T104
MAC-MON
FROMAC
TOMAC
MAC-TXT
MAC-AUD-R
MAC-AUD-L
SW-FSS-L
COMB-ON/OFF
SW-FSS-R
MAC-CSYNC
MAC-B
MAC-G
MAC-R
SW-SAT-BB
FSS-CVBS
T116 FROM CABLE IF
T111
HEF-STROBE 2
T105
STATUS-KILL
LNC-SUPPLY
PWM-LNC
+25STBY
-8STBY
EXT-DESCR-VIDE
FSS-L
FSS-R
EXT-DESCR-AUDI
DEC-PB
+5V6 POLAR
POLAR-SKEW
T112
T110
MAC-TXT
T113
T114
T115
+5V6-POLAR-IN
+25STBY-IN
+40STBY-IN
+13STBY-IN
+5 STBY-IN
+5STBY-IN
-8STBY-IN
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AGC
CARR-DET
AFC
7190 LM383N
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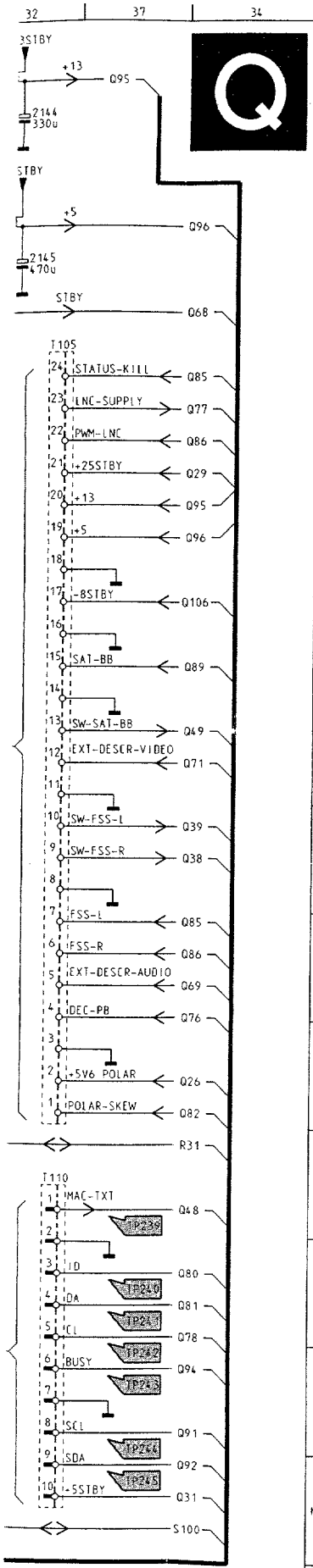
S112
P139
Q48
O+P+R+ S+T
CHAS



	1257	N12	3238	I 3
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	2104	B24	3240	D 3
	2106	E18	3241	E 3
A	2108	E18	3242	E 3
	2109	E18	3244	C 6
	2115	F21	3245	D 4
	2116	F20	3246	E 4
	2133	J18	3247	M 6
	2135	F17	3252	F 2
	2136	F17	3253	F 3
	2142	A31	3254	F 2
B	2144	A32	4190	M23
	2145	C32	4192	N23
	2164	K17	4196	F23
	2165	K18	4253	H12
	2169	N16	4255	H14
	2170	M17	4258	N12
	2171	M18	5108	E18
	2173	N17	5254	K23
C	2181	J18	5260	A13
	2182	I18	5262	E13
	2185	O18	5264	I13
	2188	O20	5266	L23
	2190	O21	5267	I28
	2191	N24	5269	J28
	2192	H22	5270	J28
D	2193	I24	5271	I28
	2194	F23	5272	J28
	2195	G24	5286	L28
	2197	G24	6106	E17
	2199	E25	6136	F16
	2230	M 5	6167	K19
	2231	C 5	6178	M20
	2232	H 5	6203	D 2
E	2233	G 3	6241	D 3
	2234	C 4	6246	E 4
	2235	L 5	7100	H24
	2237	C 5	7101	E25
	2238	H 5	7120	J19
	2238	H 4	7140	B30
	2245	D 4	7144	A32
F	2257	M12	7146	B32
	2258	N12	7167	K18
	2260	A13	7170	M17
	2262	E13	7175	M18
	2264	I14	7185	N18
	2266	L23	7186	N19
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	3101	F25	7191	G23
G	3103	A23	7192	D25
	3106	D17	7196	F24
	3108	H23	7240	D 3
	3109	I25	7242	A 5
	3112	A25	7243	A 4
	3113	C24	7245	D 4
	3115	E20	7247	N 5
H	3116	E19	7250	A 6
	3118	H23	7260	B12
	3119	F23	7262	E12
	3120	J19	7264	I12
	3121	G23		
	3122	H24		
	3123	G22		
	3124	G22		
I	3125	F22		
	3126	E24		
	3127	E24		
	3128	F23		
	3129	I25		
	3140	B30		
	3141	B30		
J	3142	A30		
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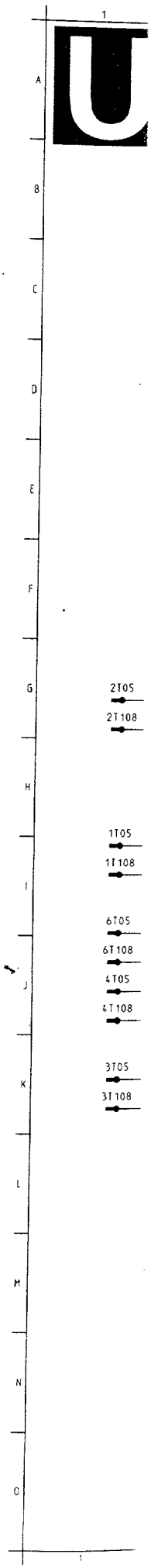
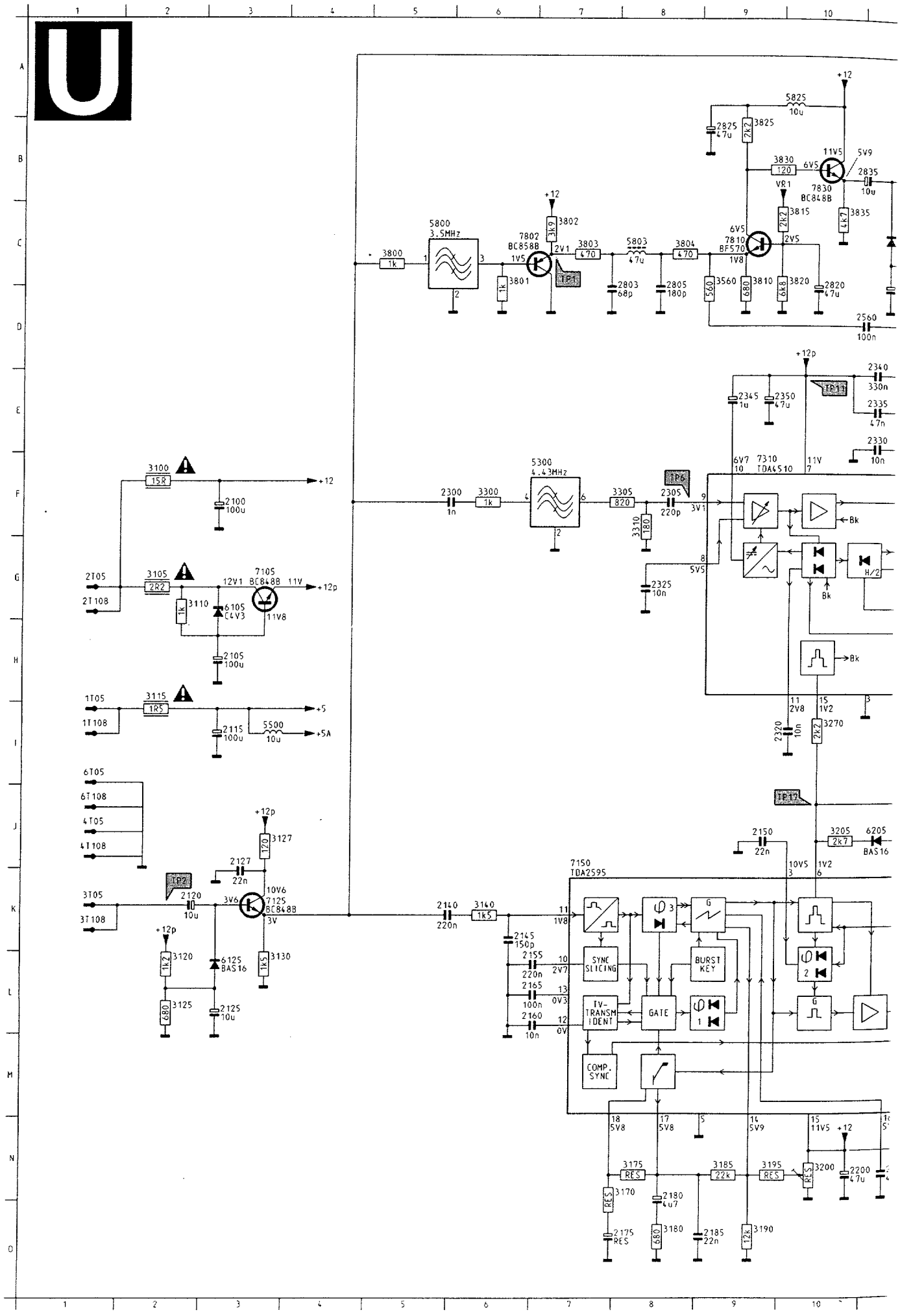
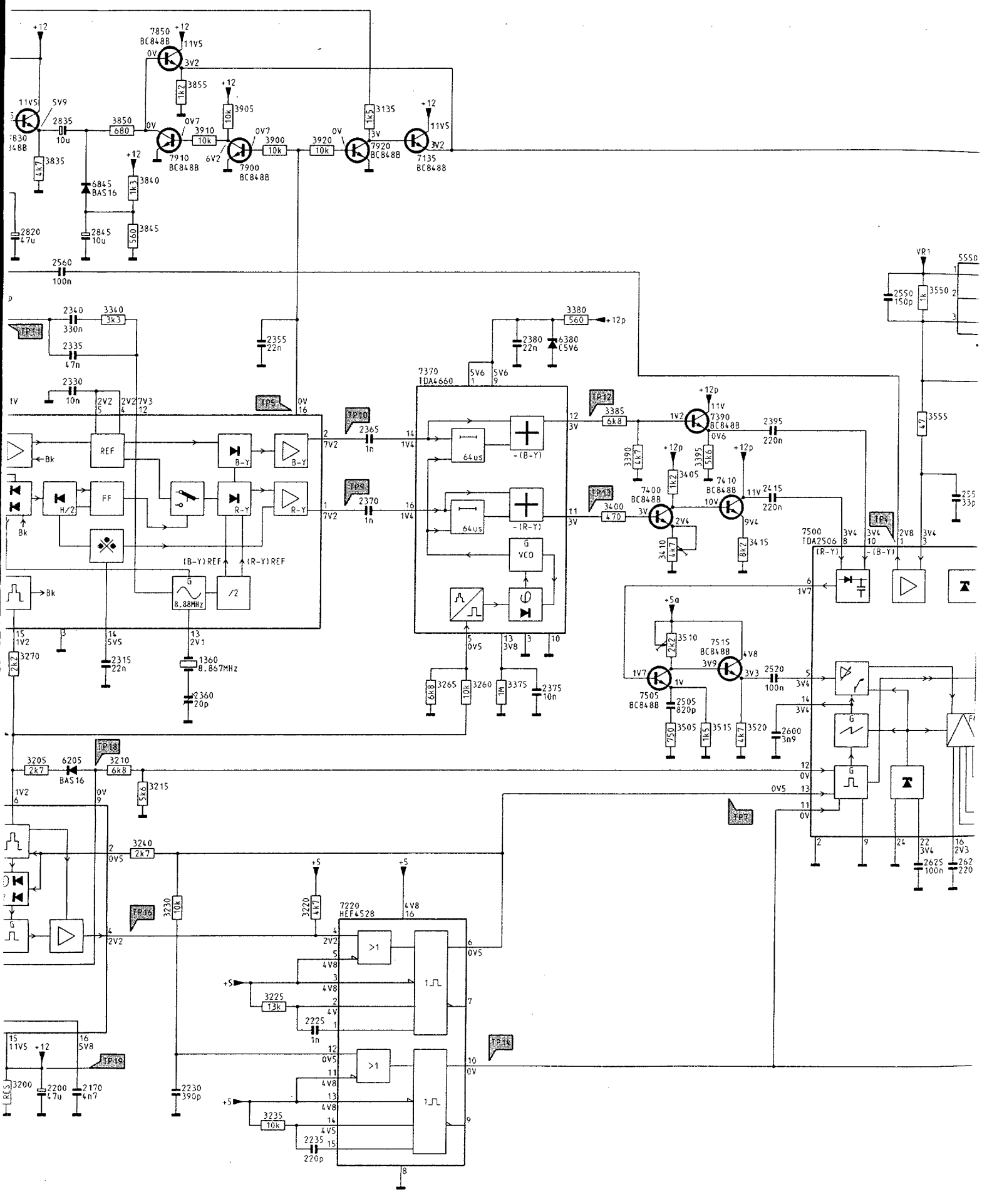
	3148	C28		
	3165	K17		
	3167	J18		
	3168	K19		
K	3170	L17		
	3174	M18		
	3175	M18		
	3177	L20		
	3178	L19		
	3180	L21		
	3181	I17		
L	3182	I18		
	3183	I17		
	3184	M20		
	3186	N19		
	3187	L19		
	3188	N20		
	3189	M20		
	3191	M23		
M	3193	M23		
	3194	N23		
	3195	F18		
	3196	N23		
	3220	A 5		
	3221	A 4		
	3224	F 6		
	3225	I 2		
N	3226	I 2		
	3227	I 3		
	3228	I 2		
	3229	I 2		
	3231	C 6		
	3232	H 6		
	3233	G 6		
	3234	G 6		
O	3235	L 6		
	3235	N 6		
	3236	B 5		
	3237	C 6		
	3238	G 4		

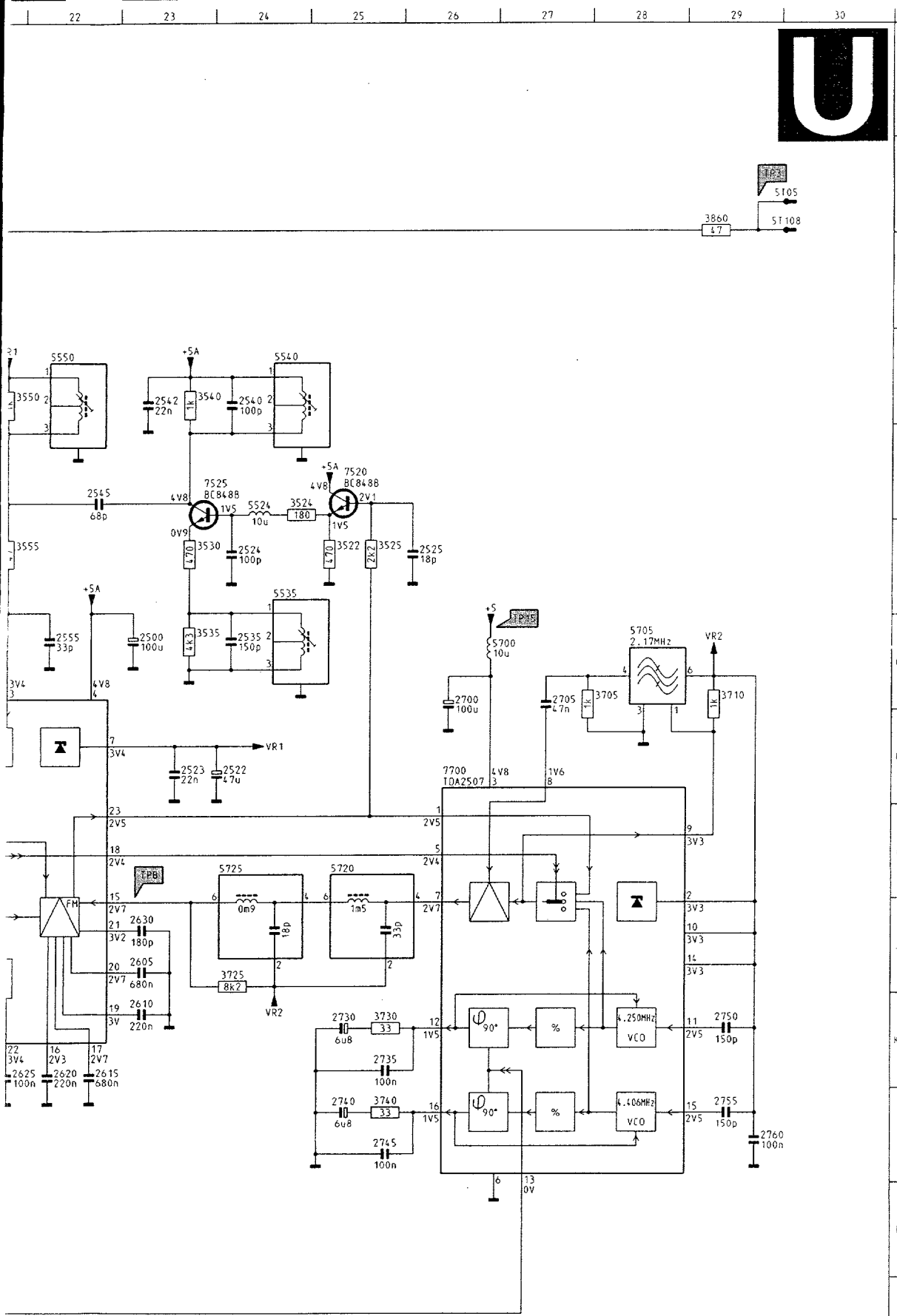

1
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
1
2T05
2T108
1T05
1T108
6T05
6T108
4T05
4T108
3T05
3T108

PAL / SECAM Transcoder



Transcodeur PAL / SECAM





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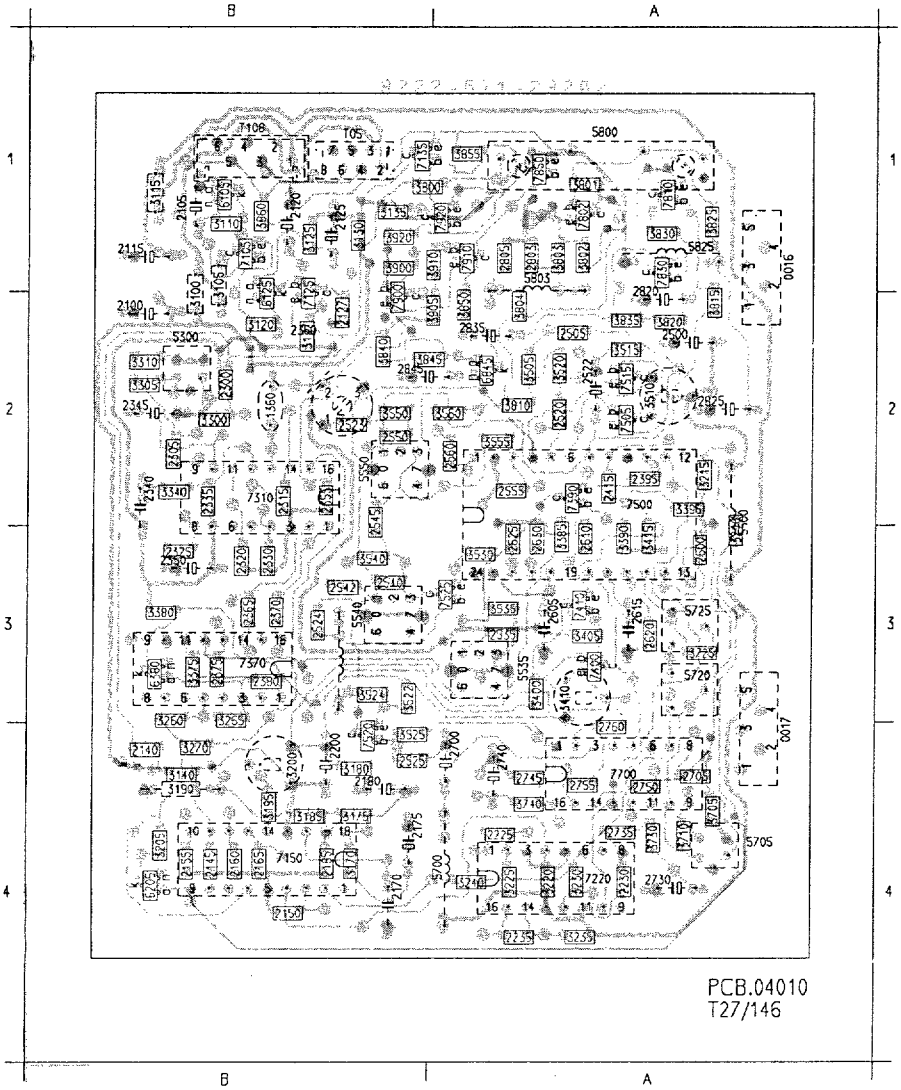
	2115	I 3	3520	J19
A	2120	K 2	3522	F25
	2125	L 3	3524	E24
	2127	J 3	3525	F25
	2140	K 5	3530	F23
	2145	K 6	3535	G23
	2150	J 9	3540	D23
	2155	L 7	3550	D21
	2160	L 7	3555	F21
B	2165	L 7	3560	C 9
	2170	N11	3705	G28
	2175	O 8	3710	G29
	2180	N 8	3725	J24
	2185	O 9	3730	K25
	2200	N10	3740	L25
	2225	M14	3800	C 5
	2230	N12	3801	C 6
C	2235	O14	3802	C 7
	2300	F 5	3803	C 7
	2305	F 8	3804	C 8
	2315	I 11	3810	C 9
	2320	I 10	3815	C10
	2325	G 8	3820	C10
	2330	E11	3825	B 9
D	2335	E11	3830	B 9
	2340	E11	3835	C10
	2345	E 9	3840	C11
	2350	E 9	3845	C11
	2355	E13	3850	B11
	2360	I 12	3855	B12
	2365	F14	3860	B29
	2370	G14	3900	B13
E	2375	I 17	3905	B13
	2380	E16	3910	B12
	2395	F19	3920	B14
	2415	G19	5300	F 6
	2500	G23	5500	I 3
	2505	I 18	5524	E24
	2520	I 19	5535	F24
F	2522	H24	5540	D24
	2523	H23	5550	D22
	2524	F24	5700	G26
	2525	F26	5705	G28
	2535	G24	5720	I25
	2540	D24	5725	I24
	2542	D23	5800	C 5
	2545	E22	5803	C 8
G	2550	D21	5825	A10
	2555	G22	6105	G 3
	2560	D11	6125	L 3
	2600	J20	6205	J11
	2605	J23	6380	E17
	2610	K23	6845	C11
	2615	K22	7105	G 3
H	2620	K22	7125	K 3
	2625	K21	7135	C15
	2630	J23	7150	J 7
	2700	G26	7220	L14
	2705	G27	7310	F 9
	2730	K25	7370	E15
	2735	K25	7390	F19
	2740	L25	7400	G18
I	2745	L25	7410	G19
	2750	K29	7500	G20
	2755	L29	7505	I18
	2760	L29	7515	I19
	2803	D 7	7520	E25
	2805	D 8	7525	E23
	2820	D10	7700	H26
J	2825	B 9	7802	C 7
	2835	B11	7810	C 9
	2845	D11	7830	B10
	3100	F 2	7850	A12
	3105	G 2	7900	C13
	3110	G 2	7910	C12
	3115	H 2	7920	B14
	3120	L 2		
K	3125	L 2		
	3127	J 3		
	3130	L 3		
	3135	B14		
	3140	K 6		
	3170	N 8		
	3175	N 8		
	3180	O 8		
L	3185	N 9		
	3190	O 9		
	3195	N 9		
	3200	N10		
	3205	J10		
	3210	J11		
	3215	J12		
M	3220	L14		
	3225	M13		
	3230	L12		
	3235	O13		
	3240	K12		
	3260	I 16		
	3265	I 15		
N	3270	I 10		
	3300	F 6		
	3305	F 8		
	3310	F 8		
	3340	D11		
	3375	I 16		
	3380	D17		
	3385	F17		
	3390	F18		
O	3395	F19		
	3400	G17		
	3405	F18		
	3410	G18		
	3415	G19		

PAL / SECAM transcoder panel
PAL / SECAM Transcoder Platine
platine transcodeur PAL / SECAM



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0017	4A	3105	2B	3920	1B		
1360	2B	3110	1B	5300	2B		
2100	2B	3115	1B	5500	3A		
2105	1B	3120	2B	5535	3A		
2115	1B	3125	1B	5540	3B		
2120	1B	3127	2B	5550	2B		
2125	1B	3130	1B	5700	4A		
2127	2B	3135	1B	5705	4A		
2140	4B	3140	4B	5720	3A		
2145	4B	3170	4B	5725	3A		
2150	4B	3175	4B	5800	1A		
2155	4B	3180	4B	5803	1A		
2160	4B	3185	4B	5825	1A		
2165	4B	3190	4B	6105	1B		
2170	4B	3195	4B	6125	2B		
2175	4B	3200	4B	6205	4B		
2180	4B	3205	4B	6380	3B		
2185	4B	3210	3A	6845	2A		
2200	4B	3215	2A	7105	1B		
2225	4A	3220	4A	7125	2B		
2230	4A	3225	4A	7135	1B		
2235	4A	3230	4A	7150	4B		
2300	2B	3235	4A	7220	4A		
2305	2B	3240	4A	7310	2B		
2315	2B	3260	3B	7370	3B		
2320	3B	3265	3B	7390	2A		
2325	3B	3270	4B	7400	3A		
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2340	2B	3310	2B	7505	2A		
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2350	3B	3375	3B	7520	4B		
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2365	3B	3390	3A	7802	1A		
2370	3B	3395	2A	7810	1A		
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2520	2A	3515	2A	T108	1B		
2522	2A	3520	2A				
2523	2B	3522	3B				
2524	3B	3524	3B				
2525	4B	3525	4B				
2535	3A	3530	3A				
2540	3B	3535	3A				
2542	3B	3540	3B				
2545	3B	3550	2B				
2550	2B	3555	2A				
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2560	2A	3705	4A				
2600	3A	3710	4A				
2605	3A	3725	3A				
2610	3A	3730	4A				
2615	3A	3740	4A				
2620	3A	3800	1B				
2625	3A	3801	1A				
2630	3A	3802	1A				
2700	4A	3803	1A				
2705	4A	3804	2A				
2730	4A	3810	2A				
2735	4A	3815	2A				
2740	4A	3820	2A				
2745	4A	3825	1A				
2750	4A	3830	1A				
2755	4A	3835	2A				
2760	4A	3840	2B				
2803	1A	3845	2B				
2805	1A	3850	2A				
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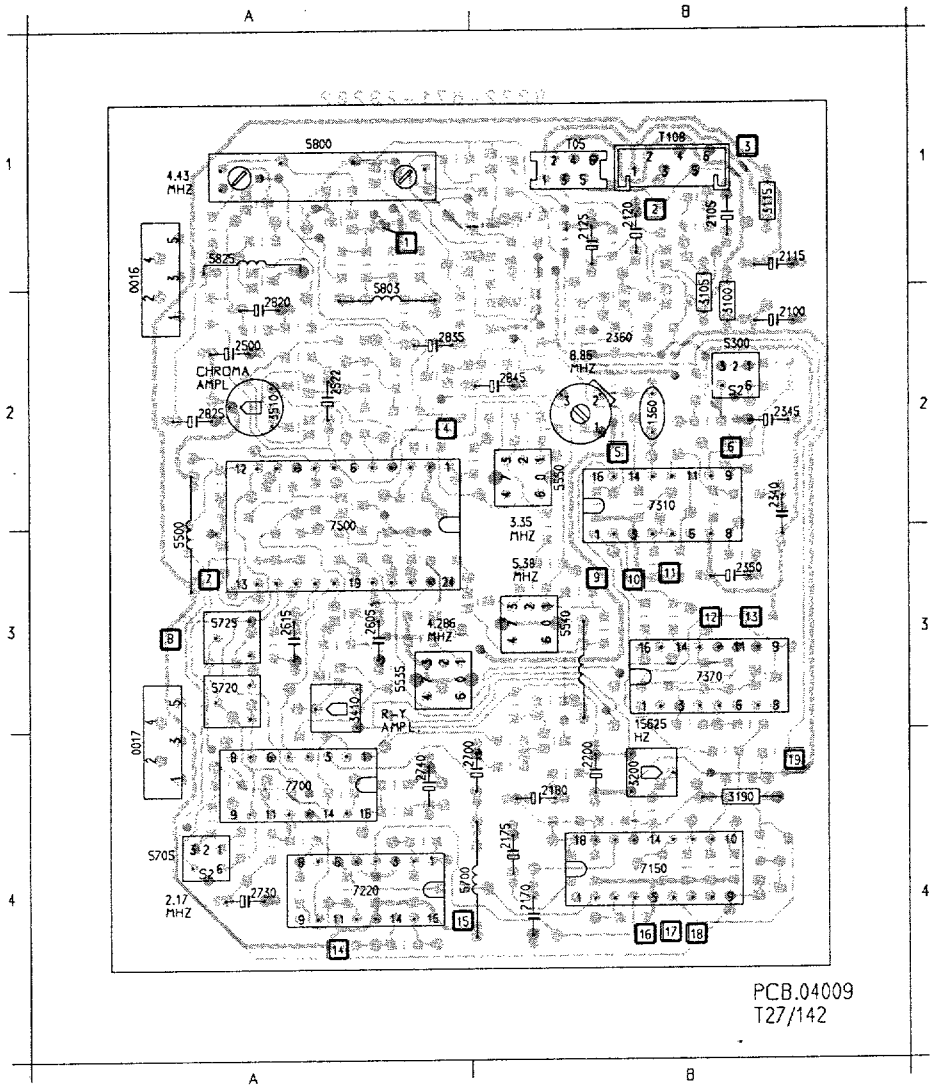

0016 2A
0017 4A
1360 2B
2100 2B
2105 1B
2115 1B
2120 1B
2125 1B
2170 4B
2175 4B
2180 4B
2200 4B
2340 2B
2345 2B
2350 3B
2360 2B
2500 2A
2522 2A
2605 3A
2615 3A
2700 4B
2730 4A
2740 4A
2820 2A
2825 2A
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2845 2B
3100 2B
3105 2B
3115 1B
3190 4B
3200 4B
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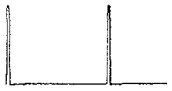
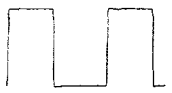
3510 2A
5300 2B
5500 3A
5535 3A
5540 3B
5550 2B
5700 4A
5705 4A
5720 3A
5725 3A
5800 1A
5803 2A
5825 1A
7150 4B
7220 4A
7310 2B
7370 3B
7500 3A
7700 4A
T05 1B
T108 1B

TP1
0V2/DIV 10μs/DIV

TP2
0V5/DIV 10μs/DIV



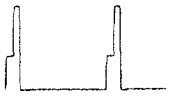
TP14
1V/DIV 10μs/DIV



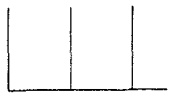
TP16
1V/DIV 10μs/DIV

TP3
0V5/DIV 10μs/DIV

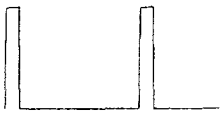
TP4
20mV/DIV 20μs/DIV



TP17
2V/DIV 10μs/DIV



TP18
2V/DIV 5ms/DIV



TP7
1V/DIV 10μs/DIV

TP8
0V2/DIV 50μs/DIV

Electrical settings

ADJUSTMENTS - GENERAL

Before beginning with the adjustments, the unit should first warm up for 10 minutes.
For measuring secondary voltages, use the tuner earth as ground, unless indicated otherwise.
The measuring of oscillograms and frequencies is to be carried out with a probe ≥ 10MΩ, ≤ 3pF.

1 Adjustments on the SAT box

1.1 Power panel

+5V supply voltage. Measure the DC voltage across capacitor C2607. Set this value to 5.15V ± 50mV with the aid of resistor R3624.

1.2 Tuner/control panel

AFC. Select a PAL transmission.
Turn the dish antenna so that the signal-to-noise ratio decreases until specks appear in the picture.
Set resistor R3180 so that the voltage on pin 7 of IC7190 switches between 5V and 0V. The voltage may not be continuously 5V or 0V.
Turn the dish back to its original position for an optimal signal.

1.3 FSS-panel

FSS-PAL settings. In order to perform the adjustments indicated below, the following measurement instruments are required:
Oscilloscope
AC millivoltmeter
Function generator, for example PM5138
Frequency counter

1.3.1 FSS-PAL mono audio
Unless indicated otherwise, the settings are as follows:
frequency FM carrier 6.575MHz
LF modulation lkHz
frequency sweep 46kHz (DEV 0.70%)
signal amplitude 50mV_{rms}

Do not apply an antenna signal.
The input signal should be delivered at the connection between the resistors R3808 and R3101.

It is recommended that the following adjustments be performed in the order indicated below.

1.3.2 Bandpass filter input
Switch LF modulation off.
Short-circuit pin 13 of IC7800 to ground.
Short-circuit pin 4 of coil L5813 to ground.
In the control menu select "mono sound carrier no. 1".
Measure on pin 3 of coil L5811. Set L5811 to maximum signal amplitude at 6.575MHz.
Remove the short-circuit of pin 6 of coil L5813 to ground.
Measure on pin 5 of coil L5813. Set L5813 to a symmetrical curve around 6.575MHz (0dB point) and the -6dB points:
- set the frequency to 6.075MHz and measure the amplitude.
- set the frequency to 7.075MHz and measure the amplitude.

The two amplitudes must be more or less equal.
Set the frequency to 6.575MHz again.

1.3.3 Discriminator (L)
Switch on LF modulation.
The FSS mono audio circuit must be given a reset: switch to another program number and then back again.
The DC voltage at the connection between C2863 and R3863 must be 2.5V ± 0.2V.
Measure at the connection between C2858 and R3858.
Set coil L5836 to maximum signal amplitude.

1.3.4 Amplitude detector (L)
Measure at the connection between C2858 and R3858.
Set resistor R3858 to a voltage of 175mV AC.

1.3.5 AFC
Measure at the connection between C2858 and R3858.
Set resistor R3862 to minimum value, second harmonic distortion.
Remove the short-circuit of pin 13 IC7300 to ground.

1.3.6 Discriminator (R)
Short-circuit pin 3 of IC7800 to ground.
Set the function generator as follows:
frequency 7.20MHz
LF modulation switched on
frequency sweep 27kHz (DEV = 0.37%)
signal amplitude 50mV_{rms}
In the control menu select "Stereo sound carrier no. 1".
Measure at the connection between C2853 and R3853.
Using coil L5832 set the signal amplitude to maximum value.

1.3.7 Amplitude (R)
Measure at the connection between C2853 and R3853.
With resistor R3853 set the signal amplitude to 115mV AC. Remove the short-circuit of pin 3 IC7800 to ground.

1.3.8 FSS video
Short-circuit pin 11 of IC7750 to ground. Connect a counter at pin 4 of IC7750. With resistor R3761 adjust the measured frequency to 15.625kHz.
Remove the short-circuit of pin 11 IC7750 to ground.

1.4 Interface panel

Adjustment of the PAL encoder. Connect a frequency counter to pin 18 of IC7443. Adjust capacitor C2430 so that the measured frequency is 4.433619MHz ± 25Hz.

1.5 Ad
The fol
order t
oscillos
D2-MA

Select
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Go to s

1 D2-M
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1.5 Adjustments on the D2-MAC decoder panel

The following measurement equipment is required in order to perform these settings:
oscilloscope
D2-MAC signal.

Select a station which is broadcasting a D2-MAC signal, preferably a test-picture signal. There must in any case be a sufficient amount of black and white in the signal.

Go to service mode "Service 3"

1 D2-MAC VCO

In the service mode proceed to the "VCO" setting. The picture is now no longer synchronised.
Set the value so that the picture is more or less still.
Store this value in the memory.

2 Luminance delay

In the service mode proceed to the "Luminance delay" setting. Adjust the value so that the black-and-white signal is at the same position as the colour signal. Store this value in the memory.

Switch in the service menu by connecting pins S23 and S24 on the small-signal panel briefly with each other (see section 7).

Go to service mode "Service 4"

3 White drive

For the adjustment of White Drive and Cutoff the D2-MAC system must be selected (installation).
The D2-MAC panel automatically generates the following test pattern:

Connect a probe between pin 19 of connector T104 on the Tuner control (earth) and pin 18 of T104 (red).
In the service mode proceed to "white-drive red" adjustment.
Adjust the white drive of the red signal so that the difference between the black-and-grey level 520mV$_{pp}$ is (Ug_R-Ub_R=520mV$_{pp}$ ± 30mV), see figure 1.
Store the value in the memory.

Go to service mode "Service 5"

4 Cut off

In the service mode proceed to "Cut-off red".
Adjust the cut-off of the red signal so that the difference between the black-blanking level 40mV is (Ub_R-Ubl_R=40mVpp), see figure 1.
Store the value in the memory.

Make the same adjustments for green (pin 17 of T104) and blue (pin 16 of T104). Select the corresponding settings in the Service Mode menu.

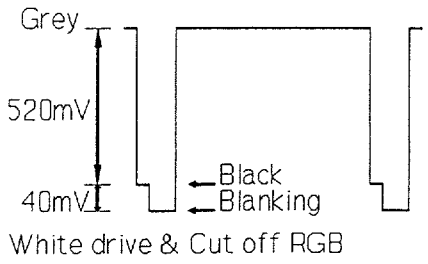

Fig. 1.

2 Settings on PAL/SECAM transcoder

Remove C2120 on the -side. Connect a generator, as described in the settings below, to the -side of C2120.

2.1 PAL decoder

Supply a 4.436MHz, 600mV$_{pp}$ signal (from e.g. generator PM5138).
Short circuit pin 11 of IC7310 to earth. Measure with a frequency counter at pin 2 of IC7310. With C2360 set the frequency to 3kHz ± 50Hz (the low-frequency signal must be measured). Remove the short circuit.

2.2 PAL chrominance band-stop filter

Use the same generator signal as for setting 2.1.
Connect a capacitor of at least 470nF between pin 23 of IC7500 and earth. Measure with a frequency counter on TP1 (emitter of TS7802). Set L5800 (only the grey core, **not the red**) to the minimum value of the 4.43MHz signal.

2.3 Amplitude difference (R-Y) and (B-Y)

Connect a low-frequency PAL colour bar signal (e.g. generator PM5518).
Measure with an oscilloscope at pin 6 of IC7500. With R3410 set the amplitudes of (R-Y) and (B-Y) to the same peak-to-peak value ± 5%, see figure 2.1.

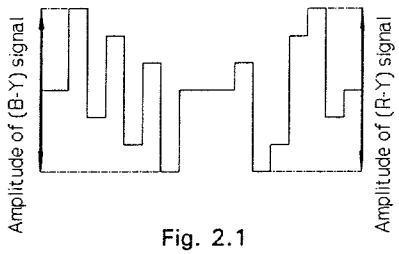

Fig. 2.1

2.4 Relative amplitude (R-Y) and (B-Y)

Use the same generator signal as for setting 2.3.
Measure with an oscilloscope at pin 5 of IC7500. With R3510 set the amplitude to OV5$_{pp}$ ± 25mV. **Note:** the amplitude should be measured in front of the low-frequency signals, see figure 2.2.

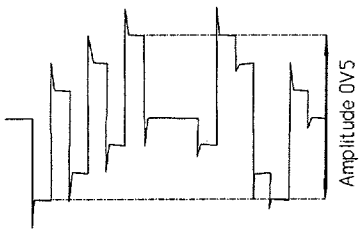

Fig. 2.2

2.5 Anti-clock filter

Supply a 5.38MHz, 350mV$_{pp}$ signal (from e.g. generator PM5138).
Measure with an oscilloscope at pin 3 of IC7500. Set the amplitude to the **maximum** value with L5540. Set the generator frequency to 3.35MHz. Measure at the same point and set the amplitude to the **maximum** value with L5550. Set the generator frequency to 4.286MHz. Measure at the same point and set the amplitude to the **minimum** value with L5535.

2.6 Reference signal for FM modulator

Connect a low-frequency PAL colour bar signal (e.g. generator PM5518).
Using a DC voltmeter, measure at pin 15 of IC7500. Set the measured value to 2V75 ± 50mV with L5705.

The oscillograms are measured under the following conditions:
Select the D2MAC system.
Go to the service mode and select the Cut-off RED setting here.
The following picture appears on the screen: 
This is a defined mode.

SAT interface panel P

Connectors

	4822 265 51323	terminal strip 28P
	4822 265 30351	5P male grey
	4822 265 30828	5P male blue
	4822 267 40696	3P male grey
	4822 265 51325	socket 20P
	4822 267 40697	6P male grey
	4822 265 30378	4P male grey
	4822 265 30525	2P male grey

Various parts

1255	4822 212 23928	SAT INTERFACE
1255	4822 212 23988	SAT INTERFACE /19
1430	4822 242 70933	crystal 4,433 619 MHz

Capacitors

2031	4822 122 31765	100pF 5% 50V
2035	4822 122 31947	100nF 20% 63V
2040	4822 122 32927	220nF
2041	4822 122 32927	220nF
2042	4822 122 32927	220nF
2043	4822 122 32927	220nF
2044	4822 122 32927	220nF
2045	4822 122 32927	220nF
2046	4822 122 32927	220nF
2047	4822 122 31947	100nF 20% 63V
2048	4822 122 32927	220nF
2049	4822 122 32927	220nF
2050	4822 122 32927	220nF
2051	4822 122 32927	220nF
2052	4822 122 32927	220nF
2053	4822 122 32927	220nF
2054	4822 122 32927	220nF
2055	4822 122 32927	220nF
2056	4822 122 31947	100nF 20% 63V
2062	4822 124 20688	33µF 50% 16V
2063	4822 122 32927	220nF
2065	4822 122 31765	100pF 5% 50V
2214	4822 122 31765	100pF 5% 50V
2215	4822 122 32927	220nF
2216	4822 124 40272	33µF 20% 16V
2217	4822 124 22606	68µF 20% 16V
2218	4822 124 22606	68µF 20% 16V
2219	4822 124 22606	68µF 20% 16V
2430	5322 125 50243	50pF trim.
2431	4822 122 31965	220pF 5% 63V
2432	4822 122 31965	220pF 5% 63V
2435	4822 124 20677	22µF 50% 10V
2438	4822 124 20677	22µF 50% 10V
2440	4822 124 20677	22µF 50% 10V
2443	4822 121 43066	1nF 5% 400V
2445	4822 122 32442	10nF 50V
2446	4822 122 33496	100nF 10% 63V
2448	4822 122 33496	100nF 10% 63V
2451	4822 122 31772	47pF 5% 50V
2452	4822 122 31808	150pF 10% 50V
2453	4822 122 32442	10nF 50V
2457	4822 122 33496	100nF 10% 63V
2459	4822 122 33496	100nF 10% 63V
2460	4822 122 33496	100nF 10% 63V
2470	4822 122 33205	12pF 10% 63V
2480	4822 122 32442	10nF 50V
2482	4822 122 33496	100nF 10% 63V
2492	4822 122 33496	100nF 10% 63V

Resistors

3003	4822 051 10279	27Ω 2% 0,25W
3003	4822 051 10339	33Ω 2% 0,25W
3010	4822 051 10103	10k 2% 0,25W
3011	4822 051 10271	270Ω 2% 0,25W
3012	4822 051 10271	270Ω 2% 0,25W
3013	4822 051 10471	470Ω 2% 0,25W
3015	4822 051 10103	10k 2% 0,25W
3016	4822 051 10271	270Ω 2% 0,25W
3017	4822 051 10271	270Ω 2% 0,25W
3020	4822 051 10103	10k 2% 0,25W
3021	4822 051 10271	270Ω 2% 0,25W
3022	4822 051 10271	270Ω 2% 0,25W
3023	4822 051 10221	220Ω 2% 0,25W
3025	4822 051 10103	10k 2% 0,25W
3026	4822 051 10271	270Ω 2% 0,25W
3027	4822 051 10271	270Ω 2% 0,25W
3030	4822 051 10103	10k 2% 0,25W
3031	4822 051 10271	270Ω 2% 0,25W
3032	4822 051 10271	270Ω 2% 0,25W
3035	4822 051 10271	270Ω 2% 0,25W
3036	4822 051 10271	270Ω 2% 0,25W
3040	4822 051 10123	12k 2% 0,25W
3041	4822 051 10123	12k 2% 0,25W
3042	4822 051 10101	100Ω 2% 0,25W
3043	4822 051 10689	68Ω 2% 0,25W
3047	4822 051 10472	4k7 2% 0,25W
3048	4822 051 10331	330Ω 2% 0,25W
3050	4822 051 10331	330Ω 2% 0,25W
3051	4822 051 10361	360Ω 2% 0,25W
3052	4822 051 10331	330Ω 2% 0,25W
3053	4822 051 10361	360Ω 2% 0,25W
3054	4822 051 10331	330Ω 2% 0,25W
3055	4822 051 10361	360Ω 2% 0,25W
3056	4822 051 10361	360Ω 2% 0,25W
3057	4822 051 10151	150Ω 2% 0,25W
3058	4822 051 10361	360Ω 2% 0,25W
3059	4822 051 10151	150Ω 2% 0,25W
3060	4822 051 10361	360Ω 2% 0,25W
3061	4822 051 10151	150Ω 2% 0,25W
3062	4822 051 10103	10k 2% 0,25W
3063	4822 051 20222	2k2 5% 0,1W
3064	4822 051 10472	4k7 2% 0,25W
3065	4822 051 10102	1k 2% 0,25W
3066	4822 051 10302	3k 2% 0,25W
3067	4822 051 10182	1k8 2% 0,25W
3068	4822 051 10681	680Ω 2% 0,25W
3210	4822 116 81217	2Ω2 5% 0,33W
3211	4822 116 83584	5Ω6 5% 0,33W
3212	4822 116 81193	15Ω 5% 0,33W
3213	4822 116 52219	330Ω 5% 0,5W
3214	4822 051 10118	1Ω 5% 0,5W
3215	4822 116 52217	270Ω 5% 0,5W
3218	4822 051 10102	1k 2% 0,25W
3219	4822 051 10103	10k 2% 0,25W
3220	4822 051 10104	100k 2% 0,25W
3222	4822 051 10472	4k7 2% 0,25W
3223	4822 051 10563	56k 2% 0,25W
3224	4822 051 10473	47k 2% 0,25W
3443	4822 051 10563	56k 2% 0,25W
3452	4822 051 10689	68Ω 2% 0,25W
3453	4822 051 10103	10k 2% 0,25W
3454	4822 051 10822	8k2 2% 0,25W
3455	4822 051 10101	100Ω 2% 0,25W
3456	4822 051 10471	470Ω 2% 0,25W
3457	4822 051 10829	82Ω 2% 0,25W
3465	4822 051 10102	1k 2% 0,25W
3466	4822 051 10102	1k 2% 0,25W
3470	4822 051 10102	1k 2% 0,25W
3471	4822 051 10101	100Ω 2% 0,25W
3473	4822 051 10102	1k 2% 0,25W
3474	4822 051 10471	470Ω 2% 0,25W
3476	4822 051 10102	1k 2% 0,25W
3490	4822 051 10829	82Ω 2% 0,25W
3492	4822 051 10391	390Ω 2% 0,25W

Jumpers

4041	4822 051 10008	0Ω 5% 0,25W
4043	4822 051 10008	0Ω 5% 0,25W
4044	4822 051 10008	0Ω 5% 0,25W
4210	4822 051 10008	0Ω 5% 0,25W
4212	4822 051 10008	0Ω 5% 0,25W
4214	4822 051 10008	0Ω 5% 0,25W
4456	4822 116 80176	1Ω 5% 0,5W

Coils

5031	4822 152 20677	10µH 10%
5450	4822 157 62335	
5464	4822 320 40232	delay 350nS
5470	4822 157 52265	100µH 10%

Diodes

6040	4822 130 80446	LL4148
6041	4822 130 80446	LL4148
6215	4822 130 82192	LLZ-C8V2

Transistors

7010	4822 130 61207	BC848
7015	4822 130 61207	BC848
7020	4822 130 61207	BC848
7025	4822 130 61207	BC848
7030	4822 130 61207	BC848
7035	5322 209 10576	4053B
7040	4822 209 63292	TEA6414
7050	4822 209 80479	TEA5114A
7063	4822 130 61207	BC848
7064	4822 130 61207	BC848
7065	4822 209 73852	PMBT2369
7066	4822 209 73852	PMBT2369
7200	4822 209 10263	4052B
7210	5322 209 10576	4053B
7214	4822 209 73852	PMBT2369
7215	4822 130 61207	BC848
7220	5322 130 42136	BC848C
7443	4822 209 71415	MC1377P
7457	5322 130 41982	BC848B
7473	5322 130 41982	BC848B
7490	5322 130 41982	BC848B

MAC panel S

Connectors

	4822 265 61259	IC socket 68P
	4822 267 50887	IC socket 8P
	4822 265 61258	IC socket 44P
	5322 255 44047	IC socket 28P
	4822 265 30351	5P male grey
	4822 265 40472	10P female gold plated

Various parts

1001	4822 212 23936	MAC PANEL
1340	4822 242 73631	crystal 18,432 000 MHz
1350	4822 242 71417	crystal 13,875 000 MHz
1365	4822 242 73632	crystal 20,250 000 MHz

2302	4822 122 33496	100nF 10% 63V
2310	5322 122 31842	330pF 5% 63V
2312	4822 122 32482	22pF 5% 63V
2317	4822 124 40435	10µF 20% 50V
2318	4822 122 31746	1000pF 5% 50V
2320	4822 122 33496	100nF 10% 63V
2323	4822 122 33496	100nF 10% 63V
2325	4822 124 22606	68µF 20% 16V
2326	4822 122 33496	100nF 10% 63V
2329	4822 122 33496	100nF 10% 63V
2330	4822 124 40684	150µF 20% 6,3V
2332	4822 122 33496	100nF 10% 63V
2333	4822 122 33496	100nF 10% 63V
2335	4822 122 31765	100pF 5% 50V
2337	4822 122 33496	100nF 10% 63V
2339	4822 122 32862	10nF 80% 50V
2345	4822 124 22606	68µF 20% 16V
2350	4822 122 31825	27pF 10% 50V
2351	4822 122 31825	27pF 10% 50V
2352	4822 122 31797	22nF 10% 63V
2355	4822 122 33496	100nF 10% 63V
2360	4822 122 33496	100nF 10% 63V
2365	4822 122 32542	47nF 10% 63V
2366	4822 122 31772	47pF 5% 50V
2370	4822 122 31772	47pF 5% 50V
2371	4822 122 32542	47nF 10% 63V
2375	4822 124 22606	68µF 20% 16V
2378	4822 122 33496	100nF 10% 63V
2379	4822 124 41643	100µF 20% 16V
2392	4822 122 33496	100nF 10% 63V
2396	4822 122 32442	10nF 50V
2397	4822 122 32542	47nF 10% 63V
2398	4822 124 40684	150µF 20% 6,3V
2402	4822 124 41576	2,2µF 20% 50V
2405	4822 122 31773	560pF 5% 50V
2411	4822 124 41576	2,2µF 20% 50V
2414	4822 122 31773	560pF 5% 50V
2450	4822 122 32442	10nF 50V
2461	5322 124 41299	68µF 20% 25V
2464	4822 122 33496	100nF 10% 63V
2466	4822 122 33496	100nF 10% 63V
2467	4822 124 40435	10µF 20% 50V
2468	4822 122 33496	100nF 10% 63V
2469	4822 124 40684	150µF 20% 6,3V
2475	4822 124 40196	220µF 20% 16V
2477	4822 122 31971	10pF 10% 50V
2478	4822 124 41643	100µF 20% 16V
2480	4822 122 33496	100nF 10% 63V
2485	4822 122 33496	100nF 10% 63V
2491	4822 122 31772	47pF 5% 50V
2492	4822 124 41678	22µF 20% 25V
2493	4822 122 33496	100nF 10% 63V
2497	4822 121 51252	470nF 5% 63V

3301	4822 051 10124	120k 2% 0,25W
3302	4822 116 90536	120Ω 1% 0,125W
3303	4822 051 10393	39k 2% 0,25W
3304	4822 051 10394	390k 2% 0,25W
3305	4822 051 10394	390k 2% 0,25W
3306	4822 051 10223	22k 2% 0,25W
3307	4822 051 10102	1k 2% 0,25W
3308	4822 051 10102	1k 2% 0,25W
3309	4822 051 10472	4k7 2% 0,25W
3310	4822 051 20183	18k 5% 0,1W
3311	4822 051 10223	22k 2% 0,25W
3312	4822 051 10562	5k6 2% 0,25W
3315	4822 051 10682	6k8 2% 0,25W
3316	4822 051 10272	2k7 2% 0,25W
3317	4822 051 10102	1k 2% 0,25W
3318	4822 051 10334	330k 2% 0,25W
3325	4822 116 81203	18Ω 5% 0,33W
3332	4822 051 10103	10k 2% 0,25W
3335	4822 051 10101	100Ω 2% 0,25W
3339	4822 051 10102	1k 2% 0,25W
3340	4822 051 10472	4k7 2% 0,25W
3341	4822 051 10101	100Ω 2% 0,25W
3342	4822 051 10102	1k 2% 0,25W
3345	4822 051 10103	10k 2% 0,25W
3351	4822 051 10122	1k2 2% 0,25W
3352	4822 051 10122	1k2 2% 0,25W
3353	4822 051 10122	1k2 2% 0,25W
3355	4822 051 10821	820Ω 2% 0,25W
3356	4822 051 10821	820Ω 2% 0,25W
3357	4822 051 10821	820Ω 2% 0,25W
3360	4822 051 10472	4k7 2% 0,25W
3361	4822 051 10472	4k7 2% 0,25W
3362	4822 051 10472	4k7 2% 0,25W
3368	4822 051 10105	1M 5% 0,25W
3374	4822 051 10682	6k8 2% 0,25W
3375	4822 051 10103	10k 2% 0,25W
3376	4822 051 10102	1k 2% 0,25W
3378	4822 051 10392	3k9 2% 0,25W
3379	4822 051 10102	1k 2% 0,25W
3380	4822 051 10102	1k 2% 0,25W
3381	4822 051 10391	390Ω 2% 0,25W
3385	4822 051 10332	3k3 2% 0,25W
3388	4822 051 10102	1k 2% 0,25W
3389	4822 051 10272	2k7 2% 0,25W
3391	4822 051 10271	270Ω 2% 0,25W
3392	4822 051 10102	1k 2% 0,25W
3395	4822 051 10102	1k 2% 0,25W
3396	4822 051 10563	56k 2% 0,25W
3397	4822 051 10102	1k 2% 0,25W
3398	4822 051 10274	270k 2% 0,25W
3399	4822 051 10154	150k 2% 0,25W
3400	4822 051 10332	3k3 2% 0,25W
3401	4822 051 10223	22k 2% 0,25W
3404	4822 051 10562	5k6 2% 0,25W
3405	4822 051 10103	10k 2% 0,25W
3406	4822 051 10332	3k3 2% 0,25W
3413	4822 051 10562	5k6 2% 0,25W
3414	4822 051 10103	10k 2% 0,25W
3450	4822 116 90536	120Ω 1% 0,125W
3451	4822 116 90536	120Ω 1% 0,125W
3461	4822 116 81203	22Ω 5% 0,33W
3463	4822 051 10221	220Ω 2% 0,25W
3464	4822 051 10561	560Ω 2% 0,25W
3468	4822 116 81203	10Ω 5% 0,33W
3475	4822 051 10103	10k 2% 0,25W
3476	4822 051 10103	10k 2% 0,25W
3477	4822 051 10103	10k 2% 0,25W
3478	4822 051 10103	10k 2% 0,25W
3479	4822 051 10103	10k 2% 0,25W
3480	4822 051 10103	10k 2% 0,25W
3489	4822 051 10101	100Ω 2% 0,25W
3490	4822 051 10471	470Ω 2% 0,25W
3494	4822 051 10473	47k 2% 0,25W
3498	4822 051 10471	470Ω 2% 0,25W

Jumpers

4359	4822 051 10008	0Ω 5% 0,25W

5320	4822 157 50965	15µH 10%
5323	4822 157 50965	15µH 10%
5325	4822 157 50965	15µH 10%
5329	4822 157 50965	15µH 10%
5337	4822 157 50965	15µH 10%
5345	4822 157 50965	15µH 10%
5350	4822 157 50965	15µH 10%
5366	4822 157 50965	15µH 10%
5371	4822 157 50965	15µH 10%
5375	4822 157 50965	15µH 10%
5378	4822 157 50965	15µH 10%
5390	4822 157 63293	
5398	4822 157 50965	15µH 10%
5402	4822 157 62338	
5411	4822 157 62338	

6395	4822 130 81512	LLZ-C6V2
6464	4822 130 81015	LLZ-C10

7300	4822 209 60458	VCU2133
7307	5322 130 41982	BC848B
7310	5322 130 41983	BC858B
7315	5322 130 44499	BF245A
7320	4822 209 63203	DMA2275
7340	4822 209 63221	DMA2271
7345	4822 209 60741	MSM3764A-12RS
7350	4822 209 30951	PCF3300VP/028
7355	4822 209 63323	MK48H64N-120
7360	5322 130 41982	BC848B
7361	5322 130 41982	BC848B
7362	5322 130 41982	BC848B
7365	4822 209 63988	MCU2600/56
7375	4822 209 60741	MSM3764A-12RS
7376	5322 130 41982	BC848B
7385	4822 209 63009	AMU2481
7386	4822 209 62521	MC1496P
7390	5322 130 41983	BC858B
7395	5322 130 41983	BC858B
7397	5322 130 41982	BC848B
7398	5322 130 41983	BC858B
7399	5322 130 41982	BC848B
7400	4822 209 61115	LF353N
7450	4822 209 62098	ST24C02AB1
7463	5322 130 41982	BC848B
7475	5322 209 10421	HEF4094BP
7478	5322 130 41982	BC848B
7480	5322 130 41982	BC848B
7492	5322 209 10576	4053B

MAC panel (continued)

7493	5322 130 42136	BC848C
7494	5322 130 42136	BC848C

Supply panel O

Connectors

	4822 267 50722	10P male grey
	4822 265 30389	2P male

Various parts

1005	4822 212 23941	Supply panel
	4822 492 70143	spring 10 X 33MM
1560	4822 071 55001	fuse 0,5AT

2560	4822 124 22491	47µF 20% 385V
2564	4822 122 31965	220pF 5% 63V
2565	4822 122 33496	100nF 10% 63V
2566	4822 121 51147	33nF 2% 63V
2571	4822 122 31784	4,7nF 10% 50V
2575	4822 126 12037	330pF 10% 1kV
2579	4822 122 33496	100nF 10% 63V
2580	4822 124 22347	47µF 20% 50V
2583	4822 124 41576	2,2µF 20% 50V
2585	4822 126 12036	1nF 20% 400V
2587	4822 124 40435	10µF 20% 50V
2589	4822 124 21212	15µF 20% 40V
2590	4822 124 41716	220µF 20% 35V
2593	4822 124 41747	680µF 20% 35V
2594	4822 124 41747	680µF 20% 35V
2598	4822 122 33496	100nF 10% 63V
2599	4822 124 41747	680µF 20% 35V
2601	4822 122 33496	100nF 10% 63V
2602	4822 124 40737	150µF 20% 25V
2605	4822 124 40201	1000µF 20% 16V
2606	4822 122 33496	100nF 10% 63V
2607	4822 124 40201	1000µF 20% 16V
2608	4822 124 40737	150µF 20% 25V
2609	4822 124 40737	150µF 20% 25V
2612	4822 122 33496	100nF 10% 63V
2621	4822 122 32442	10nF 50V

3501	4822 051 10104	100k 2% 0,25W
3562	4822 051 10561	560Ω 2% 0,25W
3563	4822 051 10104	100k 2% 0,25W
3564	4822 051 10683	68k 2% 0,25W
3565	4822 050 21002	1k 2% 0,25W
3568	4822 053 12104	100k 5% 3W
3570	4822 116 52176	10Ω 5% 0,5W
3571	4822 116 52215	220Ω 5% 0,5W
3572	4822 052 10278	2Ω7 5% 0,33W
3573	4822 116 83586	33Ω 5% 0,33W
3574	4822 116 81194	1k 5% 0,33W
3575	4822 116 81189	1Ω 5% 0,33W
3578	4822 116 52176	10Ω 5% 0,5W
3580	4822 116 52233	10k 5% 0,5W
3586	4822 116 52283	4k7 5% 0,5W
3590	4822 051 10221	220Ω 2% 0,25W
3596	4822 051 10271	270Ω 2% 0,25W
3606	4822 116 52193	39Ω 5% 0,5W
3607	4822 116 52193	39Ω 5% 0,5W
3612	4822 050 15602	5k6 1% 0,4W
3614	4822 050 13603	36k 1% 0,4W
3620	4822 116 52175	100Ω 5% 0,5W
3621	4822 051 10472	4k7 2% 0,25W
3623	4822 050 13002	3k 1% 0,4W
3624	4822 100 11391	EVN-D8A

5560	4822 157 63751	39µH 10%
5580	4822 157 63301	1µH 15%
5581	4822 152 20678	33µH 10%
5585	4822 148 81224	transf.
5598	4822 157 63249	33µH 10%
5606	4822 157 63249	33µH 10%
5609	4822 157 60155	33µH 7,5%

6581	4822 130 42489	BYD33G
6588	4822 130 42489	BYD33G
6589	4822 130 20181	X0103MA
6590	4822 130 82924	BZV55-F20
6592	4822 130 80231	BYV28-150/20
6593	4822 130 42489	BYD33G
6604	4822 130 82922	MBR1080
6609	4822 130 42489	BYD33G
6621	4822 209 81397	TL431CLP
6686	4822 130 42489	BYD33G
6695	4822 130 42489	BYD33G

7565	4822 209 83909	UC3842AN
7575	4822 130 62314	BUK444-800A
7585	4822 130 82034	CNX83A
7595	5322 209 86445	L78M05CV

FSS d

Connecto

Various pa

1004 4
1800 4
1801 4
1802 4
1804 4
1805 4
1806 4

2701 4
2712 5
2721 4
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2858 4

FSS decoder T

Connectors

	4822 265 40472	10P female gold plated
	4822 265 40471	8P female gold plated

Various parts

1004	4822 212 23937	FSS DECODER
1800	4822 242 80269	filter 7,920 MHz
1801	4822 242 81183	filter 7,560 MHz
1802	4822 242 81184	filter 7,200 MHz
1804	4822 242 80268	filter 7,740 MHz
1805	4822 242 73627	filter 7,380 MHz
1806	4822 242 73625	filter 7,020 MHz

2701	4822 122 33669	150nF 20% 50V
2712	5322 122 31647	1nF 10% 63V
2721	4822 122 31774	56pF 5% 50V
2727	4822 122 31808	150pF 10% 50V
2730	4822 124 40242	1µF 20% 63V
2735	4822 124 22606	68µF 20% 16V
2737	4822 124 40684	150µF 20% 6,3V
2750	4822 124 22606	68µF 20% 16V
2752	4822 122 32442	10nF 50V
2754	4822 122 31797	22nF 10% 63V
2756	4822 124 41577	4,7µF 20% 50V
2757	4822 122 32442	10nF 50V
2760	4822 121 51051	4,7nF 5% 160V
2765	4822 122 32927	220nF
2766	4822 122 31808	150pF 10% 50V
2767	4822 122 32927	220nF
2803	4822 122 31797	22nF 10% 63V
2804	4822 124 40193	68µF 20% 16V
2805	4822 122 31797	22nF 10% 63V
2807	4822 122 33496	100nF 10% 63V
2810	4822 122 31769	18pF 5% 50V
2811	4822 122 31765	100pF 5% 50V
2812	4822 122 32506	5,6pF 5% 50V
2813	4822 122 31765	100pF 5% 50V
2814	4822 122 31797	22nF 10% 63V
2815	4822 122 31797	22nF 10% 63V
2820	4822 122 31797	22nF 10% 63V
2821	4822 122 31797	22nF 10% 63V
2822	4822 122 31797	22nF 10% 63V
2823	4822 122 31797	22nF 10% 63V
2825	4822 124 22606	68µF 20% 16V
2826	4822 122 31797	22nF 10% 63V
2828	4822 126 12038	68pF 2% 50V
2829	4822 122 31768	180pF 5% 50V
2830	4822 126 12039	120pF 2% 63V
2831	4822 122 31916	5,6nF 10% 63V
2832	4822 122 31727	470pF 2% 50V
2834	4822 122 31797	22nF 10% 63V
2835	4822 122 31797	22nF 10% 63V
2836	4822 122 31771	390pF 5% 50V
2838	4822 122 31774	56pF 5% 50V
2840	4822 122 31766	120pF 5% 50V
2842	4822 122 31768	180pF 5% 50V
2844	4822 122 32482	22pF 5% 63V
2845	4822 122 31797	22nF 10% 63V
2850	4822 122 31807	1200pF 5% 50V
2851	4822 122 31916	5,6nF 10% 63V
2852	4822 122 31766	120pF 5% 50V
2853	4822 124 42377	10µF 20% 16V
2855	4822 122 31807	1200pF 5% 50V
2856	4822 122 31916	5,6nF 10% 63V
2857	4822 122 31766	120pF 5% 50V
2858	4822 124 42377	10µF 20% 16V

2863	4822 122 32927	220nF
2870	4822 122 32927	220nF
2872	4822 122 31775	680pF 5% 50V
2873	5322 122 31647	1nF 10% 63V
2874	4822 124 22606	68µF 20% 16V
2876	4822 122 31774	56pF 5% 50V
2877	4822 124 41629	15µF 20% 50V
2879	4822 122 33496	100nF 10% 63V
2880	4822 124 41566	3,3µF 20% 50V
2882	4822 122 31981	33nF ±0,5pF 50V
2883	4822 122 31981	33nF ±0,5pF 50V
2886	4822 124 41509	33µF 20% 35V
2889	4822 122 31916	5,6nF 10% 63V
2890	4822 124 41566	3,3µF 20% 50V
2896	4822 122 31774	56pF 5% 50V
2897	4822 124 41629	15µF 20% 50V
2899	4822 122 33496	100nF 10% 63V
2900	4822 124 41566	3,3µF 20% 50V
2902	4822 122 31981	33nF ±0,5pF 50V
2903	4822 122 31981	33nF ±0,5pF 50V
2906	4822 124 41509	33µF 20% 35V
2909	4822 122 31916	5,6nF 10% 63V
2911	4822 124 41566	3,3µF 20% 50V
2915	4822 122 31772	47pF 5% 50V
2916	4822 122 31797	22nF 10% 63V
2917	4822 122 31772	47pF 5% 50V
2918	4822 122 31797	22nF 10% 63V
2920	4822 122 33496	100nF 10% 63V
2921	4822 122 32142	270pF 5% 63V
2922	4822 122 31971	10pF 10% 50V

3700	4822 051 10102	1k 2% 0,25W
3701	4822 051 10102	1k 2% 0,25W
3702	4822 051 10102	1k 2% 0,25W
3703	4822 051 10185	1M8 5% 0,5W
3704	4822 051 10101	100Ω 2% 0,25W
3705	4822 051 10101	100Ω 2% 0,25W
3706	4822 051 10101	100Ω 2% 0,25W
3707	4822 051 10471	470Ω 2% 0,25W
3712	4822 051 10123	12k 2% 0,25W
3718	4822 051 10102	1k 2% 0,25W
3719	4822 051 10102	1k 2% 0,25W
3720	4822 051 10102	1k 2% 0,25W
3721	4822 051 10103	10k 2% 0,25W
3722	4822 051 10103	10k 2% 0,25W
3723	4822 051 10473	47k 2% 0,25W
3724	4822 051 10104	100k 2% 0,25W
3725	4822 051 10471	470Ω 2% 0,25W
3727	4822 051 10103	10k 2% 0,25W
3728	4822 051 10153	15k 2% 0,25W
3730	4822 051 10332	3k3 2% 0,25W
3731	4822 051 10103	10k 2% 0,25W
3732	4822 051 10224	220k 2% 0,25W
3733	4822 051 10272	2k7 2% 0,25W
3735	4822 111 41423	18Ω 5% 0,33W
3736	4822 051 10822	8k2 2% 0,25W
3737	4822 051 20222	2k2 5% 0,1W
3738	4822 051 10432	4k3 2% 0,25W
3739	4822 051 10151	150Ω 2% 0,25W
3750	4822 111 41423	18Ω 5% 0,33W
3751	4822 051 10754	750k 2% 0,25W
3752	4822 100 11392	47k 30% LIN
3753	4822 051 10124	120k 2% 0,25W
3755	4822 051 10123	12k 2% 0,25W
3756	4822 051 10563	56k 2% 0,25W
3757	4822 051 10122	1k2 2% 0,25W
3765	4822 051 10102	1k 2% 0,25W

3800	4822 051 10331	330Ω 2% 0,25W
3801	4822 051 10331	330Ω 2% 0,25W
3802	4822 051 10331	330Ω 2% 0,25W
3803	4822 052 10398	3Ω9 5% 0,33W
3804	4822 051 10331	330Ω 2% 0,25W
3805	4822 051 10331	330Ω 2% 0,25W
3806	4822 051 10331	330Ω 2% 0,25W
3807	4822 051 20222	2k2 5% 0,1W
3808	4822 051 10101	100Ω 2% 0,25W
3811	4822 051 10223	22k 2% 0,25W
3813	4822 051 10223	22k 2% 0,25W
3815	4822 051 10103	10k 2% 0,25W
3820	4822 051 10561	560Ω 2% 0,25W
3822	4822 051 10561	560Ω 2% 0,25W
3825	4822 111 41423	18Ω 5% 0,33W
3828	4822 051 10332	3k3 2% 0,25W
3830	4822 051 10332	3k3 2% 0,25W
3832	4822 051 10561	560Ω 2% 0,25W
3834	4822 051 10123	12k 2% 0,25W
3835	4822 051 10123	12k 2% 0,25W
3836	4822 051 10561	560Ω 2% 0,25W
3838	4822 051 10332	3k3 2% 0,25W
3840	4822 051 10332	3k3 2% 0,25W
3841	4822 051 10223	22k 2% 0,25W
3842	4822 051 10152	1k5 2% 0,25W
3846	4822 051 10223	22k 2% 0,25W
3850	4822 051 10562	5k6 2% 0,25W
3851	4822 051 10562	5k6 2% 0,25W
3852	4822 051 10562	5k6 2% 0,25W
3853	4822 100 11212	2k2 30% LIN
3855	4822 051 10562	5k6 2% 0,25W
3856	4822 051 10562	5k6 2% 0,25W
3857	4822 051 10562	5k6 2% 0,25W
3858	4822 100 11212	2k2 30% LIN
3860	4822 051 10394	390k 2% 0,25W
3861	4822 051 10103	10k 2% 0,25W
3862	4822 100 11319	4k7 30% LIN
3863	4822 051 10223	22k 2% 0,25W
3865	4822 051 10331	330Ω 2% 0,25W
3866	4822 051 10223	22k 2% 0,25W
3870	4822 051 10303	30k 2% 0,25W
3871	4822 051 10104	100k 2% 0,25W
3872	4822 051 10753	75k 2% 0,25W
3874	4822 111 41423	18Ω 5% 0,33W
3875	4822 051 10103	10k 2% 0,25W
3876	4822 051 10223	22k 2% 0,25W
3877	4822 051 10332	3k3 2% 0,25W
3880	4822 051 10475	4M7 5% 0,5W
3881	4822 051 10152	1k5 2% 0,25W
3882	4822 051 10334	330k 2% 0,25W
3883	4822 051 10822	8k2 2% 0,25W
3885	4822 051 10682	6k8 2% 0,25W
3889	4822 051 10133	13k 2% 0,25W
3890	4822 051 10472	4k7 2% 0,25W
3891	4822 051 10273	27k 2% 0,25W
3892	4822 051 10104	100k 2% 0,25W
3895	4822 051 10103	10k 2% 0,25W
3896	4822 051 10223	22k 2% 0,25W
3897	4822 051 10332	3k3 2% 0,25W
3900	4822 051 10475	4M7 5% 0,5W
3902	4822 051 10334	330k 2% 0,25W
3903	4822 051 10822	8k2 2% 0,25W
3905	4822 051 10682	6k8 2% 0,25W
3906	4822 051 10152	1k5 2% 0,25W
3909	4822 051 10133	13k 2% 0,25W
3910	4822 051 10472	4k7 2% 0,25W
3911	4822 051 10273	27k 2% 0,25W
3916	4822 051 10223	22k 2% 0,25W

FSS decoder (continued)

3917	4822 051 10472	4k7 2% 0,25W
3918	4822 051 10223	22k 2% 0,25W
3919	4822 051 10562	5k6 2% 0,25W
3920	4822 051 10332	3k3 2% 0,25W
3921	4822 051 10339	33Ω 2% 0,25W
3922	4822 051 10475	4M7 5% 0,5W
3923	4822 051 10104	100k 2% 0,25W
3924	4822 051 10104	100k 2% 0,25W
3925	4822 051 10101	100Ω 2% 0,25W
3926	4822 051 10103	10k 2% 0,25W
3927	4822 051 10103	10k 2% 0,25W
3998	4822 051 10472	4k7 2% 0,25W

5700	4822 242 72461	filter
5811	4822 157 62339	4μH
5813	4822 157 62339	4μH
5832	4822 157 62393	1,5μH
5836	4822 157 62393	1,5μH

6712	4822 130 80446	LL4148
6730	4822 130 80446	LL4148
6811	4822 130 34449	BB204B
6813	4822 130 34449	BB204B
6828	4822 130 80888	BA682
6830	4822 130 80888	BA682
6834	4822 130 80888	BA682
6835	4822 130 80888	BA682
6838	4822 130 80888	BA682
6840	4822 130 80888	BA682
6841	4822 130 80446	LL4148
6842	4822 130 80888	BA682
6845	4822 130 34449	BB204B
6866	4822 130 81223	LLZ-C2V4
6885	4822 130 80446	LL4148
6920	4822 130 80888	BA682
6922	4822 130 80446	LL4148

7702	5322 130 41983	BC858B
7704	5322 130 42136	BC848C
7707	5322 130 41983	BC858B
7712	5322 209 85503	LM311N
7719	5322 130 41982	BC848B
7720	5322 130 41982	BC848B
7723	5322 130 41982	BC848B
7724	5322 130 44499	BF245A
7730	5322 130 41982	BC848B
7731	5322 130 41982	BC848B
7739	5322 130 41983	BC858B
7745	5322 209 85503	LM311N
7750	4822 209 63299	TDA2595/V9
7800	4822 209 10263	4052B
7807	5322 130 41983	BC858B
7815	5322 130 41983	BC858B
7825	4822 209 73756	U2829B
7841	5322 130 41982	BC848B
7853	5322 130 41982	BC848B
7858	5322 130 41982	BC848B
7866	5322 130 41982	BC848B
7870	4822 209 61115	LF353N
7874	5322 209 73938	NE572N
7875	4822 209 73324	LF347N
7890	5322 130 41982	BC848B
7911	5322 130 41982	BC848B

7915	5322 130 41982	BC848B
7917	5322 130 41982	BC848B
7920	4822 209 10263	4052B
7925	5322 209 10421	HEF4094BP

Tune

Connec

Various

1002
1100
1257

2103
2104
2108
2109
2133
2135
2136
2142
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2164
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3112

Tuner & Control Q

Connectors

	4822 265 61259	IC socket 68P
	4822 264 50149	10P male gold plated
	4822 264 50148	8P male gold plated
	4822 265 51324	20P male
	4822 267 50722	10P male
	4822 265 40442	10P male

Various parts

1002	4822 212 23938	Tuner & Control
1100	4822 210 10435	frontend SF914
1257	4822 242 72572	crystal 12,000 MHz

2103	4822 124 22606	68µF 20% 16V
2104	4822 122 32442	10nF 50V
2108	4822 124 40684	150µF 20% 6,3V
2109	4822 122 32542	47nF 10% 63V
2133	4822 122 31797	22nF 10% 63V
2135	4822 122 33496	100nF 10% 63V
2136	4822 124 22427	47µF 20% 35V
2142	4822 122 32927	220nF
2144	4822 124 40849	330µF 20% 16V
2145	4822 124 41997	470µF 10V
2164	4822 122 31947	100nF 20% 63V
2165	4822 122 32542	47nF 10% 63V
2169	4822 122 31965	220pF 5% 63V
2170	4822 124 22606	68µF 20% 16V
2173	4822 122 32927	220nF
2181	4822 124 40242	1µF 20% 63V
2182	4822 124 22633	22µF 20% 35V
2185	4822 122 32927	220nF
2188	4822 122 31947	100nF 20% 63V
2190	4822 122 31947	100nF 20% 63V
2191	4822 124 41678	22µF 20% 25V
2193	4822 122 32442	10nF 50V
2194	4822 122 31771	390pF 5% 50V
2195	4822 122 31765	100pF 5% 50V
2197	4822 124 40196	220µF 20% 16V
2199	4822 122 32482	22pF 5% 63V
2230	4822 122 31775	680pF 5% 50V
2231	4822 122 31775	680pF 5% 50V
2232	4822 122 31775	680pF 5% 50V
2233	4822 122 31775	680pF 5% 50V
2234	4822 122 31775	680pF 5% 50V
2235	4822 122 31775	680pF 5% 50V
2236	4822 122 31775	680pF 5% 50V
2237	4822 122 31775	680pF 5% 50V
2245	4822 124 40272	33µF 20% 16V
2254	4822 122 33496	100nF 10% 63V
2257	4822 122 32444	33pF 5% 50V
2258	4822 122 32444	33pF 5% 50V
2260	4822 122 33496	100nF 10% 63V
2262	4822 122 33496	100nF 10% 63V
2264	4822 122 33496	100nF 10% 63V
2266	4822 122 33496	100nF 10% 63V

3100	4822 116 90536	120Ω 1% 0,125W
3101	4822 116 90536	120Ω 1% 0,125W
3103	4822 116 82772	6Ω8 5% 0,33W
3106	4822 051 10223	22k 2% 0,25W
3108	4822 051 10472	4k7 2% 0,25W
3109	4822 051 10104	100k 2% 0,25W
3112	4822 051 20222	2k2 5% 0,1W
3113	4822 051 10101	100Ω 2% 0,25W
3115	4822 051 10151	150Ω 2% 0,25W
3116	4822 051 10151	150Ω 2% 0,25W
3119	4822 051 10122	1k2 2% 0,25W
3120	4822 051 10103	10k 2% 0,25W
3121	4822 051 10271	270Ω 2% 0,25W
3122	4822 051 10102	1k 2% 0,25W
3123	4822 116 52243	1k5 5% 0,5W
3124	4822 051 10103	10k 2% 0,25W
3125	4822 051 10102	1k 2% 0,25W
3126	4822 051 10101	100Ω 2% 0,25W
3127	4822 051 10101	100Ω 2% 0,25W
3128	4822 051 10392	3k9 2% 0,25W
3129	4822 051 10331	330Ω 2% 0,25W
3140	4822 051 10103	10k 2% 0,25W
3141	4822 051 10472	4k7 2% 0,25W
3142	4822 051 10103	10k 2% 0,25W
3144	4822 051 10474	470k 2% 0,25W
3145	4822 051 10224	220k 2% 0,25W
3146	4822 051 10474	470k 2% 0,25W
3148	4822 051 10101	100Ω 2% 0,25W
3165	4822 051 10273	27k 2% 0,25W
3167	4822 051 10102	1k 2% 0,25W
3168	4822 051 10471	470Ω 2% 0,25W
3170	4822 111 41423	18Ω 5% 0,33W
3174	4822 051 10225	2M2 5% 0,25W
3175	4822 051 10154	150k 2% 0,25W
3177	4822 051 10682	6k8 2% 0,25W
3178	4822 051 10152	1k5 2% 0,25W
3180	4822 100 11213	22k 30% LIN
3181	4822 051 10473	47k 2% 0,25W
3182	4822 051 10823	82k 2% 0,25W
3183	4822 051 10685	6M8 5% 0,25W
3184	4822 051 10822	8k2 2% 0,25W
3186	4822 051 10225	2M2 5% 0,25W
3187	4822 111 90368	680k 2% 0,125W
3188	4822 051 10224	220k 2% 0,25W
3189	4822 051 10224	220k 2% 0,25W
3193	4822 051 10562	5k6 2% 0,25W
3194	4822 051 20222	2k2 5% 0,1W
3195	4822 051 10103	10k 2% 0,25W
3198	4822 051 10279	27Ω 2% 0,25W
3201	4822 051 10102	1k 2% 0,25W
3224	4822 051 10472	4k7 2% 0,25W
3225	4822 051 10472	4k7 2% 0,25W
3226	4822 051 10472	4k7 2% 0,25W
3227	4822 051 10103	10k 2% 0,25W
3228	4822 051 10103	10k 2% 0,25W
3229	4822 051 10103	10k 2% 0,25W
3230	4822 051 10103	10k 2% 0,25W
3231	4822 051 10101	100Ω 2% 0,25W
3232	4822 051 10101	100Ω 2% 0,25W
3233	4822 116 52206	120Ω 5% 0,5W
3234	4822 116 52206	120Ω 5% 0,5W
3235	4822 051 10101	100Ω 2% 0,25W
3236	4822 116 52283	4k7 5% 0,5W
3237	4822 051 10101	100Ω 2% 0,25W
3240	4822 051 10301	300Ω 2% 0,25W
3241	4822 116 90536	120Ω 1% 0,125W
3242	4822 051 10472	4k7 2% 0,25W
3244	4822 051 10101	100Ω 2% 0,25W
3245	4822 051 10479	47Ω 2% 0,25W
3246	4822 051 10103	10k 2% 0,25W
3247	4822 051 10101	100Ω 2% 0,25W
3248	4822 051 10101	100Ω 2% 0,25W
3251	4822 051 10472	4k7 2% 0,25W
3252	4822 051 20183	18k 5% 0,1W
3253	4822 051 10392	3k9 2% 0,25W
3254	4822 051 10104	100k 2% 0,25W

Jumpers

4190	4822 051 10008	0Ω 5% 0,25W
4192	4822 051 10008	0Ω 5% 0,25W
4196	4822 051 10008	0Ω 5% 0,25W
4255	4822 051 10008	0Ω 5% 0,25W
4258	4822 051 10008	0Ω 5% 0,25W

5108	4822 157 51462	10µH 10%
5254	4822 157 51462	10µH 10%
5260	4822 157 51462	10µH 10%
5262	4822 157 51462	10µH 10%
5264	4822 157 51462	10µH 10%
5266	4822 157 51462	10µH 10%
5267	4822 157 51462	10µH 10%
5268	4822 157 51462	10µH 10%
5269	4822 157 60534	10µH 10%
5270	4822 157 60534	10µH 10%
5271	4822 157 51462	10µH 10%
5272	4822 157 51462	10µH 10%

6106	4822 130 80881	LLZ-C33
6136	4822 209 73095	P4KE30C-7000
6167	4822 130 81424	BZV86-2V0
6178	4822 130 81224	LLZ-C4V3
6203	4822 130 80446	LL4148
6241	4822 130 82921	LLZ-F3V9
6246	4822 130 80446	LL4148

7100	5322 130 41982	BC848B
7101	5322 130 41983	BC858B
7120	5322 130 42136	BC848C
7140	5322 130 41982	BC848B
7144	4822 130 62734	BUK445-50B
7146	4822 130 62734	BUK445-50B
7167	5322 130 42136	BC848C
7170	5322 130 42136	BC848C
7175	5322 130 42136	BC848C
7185	4822 130 42513	BC858C
7186	4822 130 42513	BC858C
7190	4822 209 80797	LM393N
7191	5322 130 42136	BC848C
7192	5322 130 41983	BC858B
7196	5322 130 41982	BC848B
7240	5322 130 41983	BC858B
7245	5322 130 41983	BC858B
7247	5322 130 41983	BC858B
7250	4822 209 62525	PCB80C562-16W P
7260	5322 209 11488	PC74HCT573P
7262	4822 209 63323	MK48H64N-120
7264	4822 209 52191	E P R O M + software

Connector panel R

Connectors

	4822 265 61257	socket SCART
	4822 265 10273	socket SAT/SKEW male

Various parts

1003	4822 212 23939	Connector board

2025	4822 122 32927	220nF
2026	4822 122 32927	220nF
2028	5322 122 31842	330pF 5% 63V
2029	5322 122 31842	330pF 5% 63V
2031	4822 122 31775	680pF 5% 50V
2034	4822 122 31746	1000pF 5% 50V
2035	4822 122 31746	1000pF 5% 50V
2036	4822 124 40738	330µF 20% 25V
2038	4822 124 41716	220µF 20% 35V
2046	4822 122 31746	1000pF 5% 50V
2048	4822 122 32442	10nF 50V
2050	4822 122 33496	100nF 10% 63V
2053	4822 124 41577	4,7µF 20% 50V
2070	4822 122 31765	100pF 5% 50V
2071	4822 122 32442	10nF 50V
2075	4822 122 32927	220nF
2080	4822 124 22606	68µF 20% 16V
2081	4822 124 22606	68µF 20% 16V
2095	4822 124 22606	68µF 20% 16V
2096	4822 124 22606	68µF 20% 16V

3001	4822 051 10334	330k 2% 0,25W
3008	4822 051 10102	1k 2% 0,25W
3009	4822 051 10102	1k 2% 0,25W
3010	4822 051 10104	100k 2% 0,25W
3011	4822 051 10104	100k 2% 0,25W
3012	4822 051 10331	330Ω 2% 0,25W
3013	4822 051 10331	330Ω 2% 0,25W
3014	4822 051 10151	150Ω 2% 0,25W
3015	4822 051 10151	150Ω 2% 0,25W
3016	4822 051 10104	100k 2% 0,25W
3018	4822 051 10104	100k 2% 0,25W
3019	4822 051 10104	100k 2% 0,25W
3020	4822 111 41423	18Ω 5% 0,33W
3021	4822 051 10393	39k 2% 0,25W
3022	4822 051 10103	10k 2% 0,25W
3024	4822 051 10101	100Ω 2% 0,25W
3025	4822 051 10101	100Ω 2% 0,25W
3027	4822 051 10101	100Ω 2% 0,25W
3028	4822 051 10101	100Ω 2% 0,25W
3031	4822 116 52201	75Ω 5% 0,5W
3032	4822 051 10759	75Ω 2% 0,25W
3035	4822 051 10103	10k 2% 0,25W
3036	4822 051 10103	10k 2% 0,25W
3037	4822 051 10472	4k7 2% 0,25W
3038	4822 052 10398	3Ω9 5% 0,33W
3041	4822 116 80691	1Ω5 5% 0,2W
3042	4822 051 10102	1k 2% 0,25W
3043	4822 051 10221	220Ω 2% 0,25W
3045	4822 116 52256	2k2 5% 0,5W
3046	4822 051 10105	1M 5% 0,25W
3048	4822 116 52241	13k 5% 0,5W
3049	4822 116 52273	3k6 5% 0,5W
3053	4822 051 10561	560Ω 2% 0,25W
3054	4822 051 10105	1M 5% 0,25W
3055	4822 051 10103	10k 2% 0,25W
3056	4822 051 10103	10k 2% 0,25W
3063	4822 051 10472	4k7 2% 0,25W

3070	4822 051 10102	1k 2% 0,25W
3071	4822 116 81203	10Ω 5% 0,33W
3075	4822 051 10224	220k 2% 0,25W
3076	4822 051 10103	10k 2% 0,25W
3078	4822 116 83585	27Ω 5% 0,33W
3079	4822 051 10471	470Ω 2% 0,25W
3080	4822 051 10681	680Ω 2% 0,25W
3081	4822 051 10118	1Ω 2% 0,25W
3083	4822 051 10561	560Ω 2% 0,25W
3084	4822 051 10223	22k 2% 0,25W
3085	4822 051 10561	560Ω 2% 0,25W
3086	4822 051 10223	22k 2% 0,25W
3088	4822 051 10333	33k 2% 0,25W
3089	4822 051 10473	47k 2% 0,25W

Jumpers

4001	4822 051 10008	0Ω 5% 0,25W
4069	4822 051 10008	0Ω 5% 0,25W

5036	4822 157 62336	8RBS

6040	4822 130 32772	EGP20C
6041	4822 130 80446	LL4148
6050	4822 130 80446	LL4148
6071	4822 209 73095	P4KE30C-7000
6072	4822 209 73095	P4KE30C-7000
6073	4822 209 73095	P4KE30C-7000
6081	4822 209 73095	P4KE30C-7000

7024	5322 130 42136	BC848C
7027	4822 130 40854	BC327
7035	5322 209 10576	4053B
7037	5322 130 41983	BC858B
7038	4822 209 10263	4052B
7040	4822 130 40854	BC327
7045	4822 209 80797	LM393N
7050	5322 130 41983	BC858B
7055	4822 130 42615	BC817-40
7070	4822 130 40855	BC337
7077	4822 209 71285	LM358N
7080	4822 130 62742	BD943F
7081	4822 130 61003	BD944F

PAL/S

Connecto

Various p

1360

2100
2105
2115
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2700
2705

PAL/SECAM transcoder U

Connectors

	4822 267 40697	6P male
	4822 267	

Various parts

1360	4822 242 70304	crystal 8,867 238 MHz

2100	4822 124 41643	100µF 20% 16V
2105	4822 124 41643	100µF 20% 16V
2115	4822 124 41643	100µF 20% 16V
2120	4822 124 40248	10µF 20% 63V
2125	4822 124 40248	10µF 20% 63V
2127	4822 122 31797	22nF 10% 63V
2140	4822 122 32927	220nF
2145	4822 122 31767	150pF 5% 50V
2150	4822 122 31797	22nF 10% 63V
2155	4822 122 32927	220nF
2160	4822 122 32442	10nF 50V
2165	4822 122 33496	100nF 10% 63V
2170	4822 121 43717	4,7nF 2% 100V
2180	4822 124 40246	4,7µF 20% 63V
2185	4822 122 31797	22nF 10% 63V
2200	4822 124 40433	47µF 20% 25V
2225	5322 122 31647	1nF 10% 63V
2230	4822 122 31771	390pF 5% 50V
2235	4822 122 31965	220pF 5% 63V
2300	5322 122 31647	1nF 10% 63V
2305	4822 122 31965	220pF 5% 63V
2315	4822 122 31797	22nF 10% 63V
2320	4822 122 32442	10nF 50V
2325	4822 122 32442	10nF 50V
2330	4822 122 32442	10nF 50V
2335	4822 122 32542	47nF 10% 63V
2340	5322 121 42661	330nF 5% 63V
2345	4822 124 40242	1µF 20% 63V
2350	4822 124 40433	47µF 20% 25V
2355	4822 122 31797	22nF 10% 63V
2360	4822 125 50045	20pF trim.
2365	5322 122 31647	1nF 10% 63V
2370	5322 122 31647	1nF 10% 63V
2375	4822 122 32442	10nF 50V
2380	4822 122 31797	22nF 10% 63V
2395	4822 122 32927	220nF
2415	4822 122 32927	220nF
2500	4822 124 41643	100µF 20% 16V
2505	4822 122 31974	820pF 10% 63V
2520	4822 122 33496	100nF 10% 63V
2522	4822 124 40433	47µF 20% 25V
2523	4822 122 31797	22nF 10% 63V
2524	4822 122 31765	100pF 5% 50V
2525	4822 122 31769	18pF 5% 50V
2535	4822 122 31767	150pF 5% 50V
2540	4822 122 31765	100pF 5% 50V
2542	4822 122 31797	22nF 10% 63V
2545	4822 122 31961	68pF 5% 63V
2550	4822 122 31767	150pF 5% 50V
2555	4822 126 10324	33pF 63V
2560	4822 122 33496	100nF 10% 63V
2600	4822 122 32566	3,9nF 10% 63V
2605	5322 121 42498	680nF 5% 63V
2610	4822 122 32927	220nF
2615	5322 121 42498	680nF 5% 63V
2620	4822 122 32927	220nF
2625	4822 122 33496	100nF 10% 63V
2630	4822 122 31768	180pF 5% 50V
2700	4822 124 41643	100µF 20% 16V
2705	4822 122 32542	47nF 10% 63V
2730	4822 124 40753	6,8µF 20% 63V
2735	4822 122 33496	100nF 10% 63V
2740	4822 124 40753	6,8µF 20% 63V
2745	4822 122 33496	100nF 10% 63V
2750	4822 122 31767	150pF 5% 50V
2755	4822 122 31767	150pF 5% 50V
2760	4822 122 33496	100nF 10% 63V
2803	4822 122 31961	68pF 5% 63V
2805	4822 122 31768	180pF 5% 50V
2820	4822 124 40433	47µF 20% 25V
2825	4822 124 40433	47µF 20% 25V
2835	4822 124 40248	10µF 20% 63V
2845	4822 124 40248	10µF 20% 63V

3100	4822 052 10159	15Ω 5% 0,33W
3105	4822 052 10228	2Ω2 5% 0,33W
3110	4822 051 10102	1k 2% 0,25W
3115	4822 052 10158	1Ω5 5% 0,33W
3120	4822 051 10122	1k2 2% 0,25W
3125	4822 051 10681	680Ω 2% 0,25W
3127	4822 051 10121	120Ω 2% 0,25W
3130	4822 051 10152	1k5 2% 0,25W
3135	4822 051 10152	1k5 2% 0,25W
3140	4822 051 10152	1k5 2% 0,25W
3180	4822 051 10681	680Ω 2% 0,25W
3185	4822 051 10223	22k 2% 0,25W
3190	4822 050 11203	12k 1% 0,4W
3205	4822 051 10272	2k7 2% 0,25W
3210	4822 051 10682	6k8 2% 0,25W
3215	4822 051 10562	5k6 2% 0,25W
3220	4822 051 10472	4k7 2% 0,25W
3225	4822 051 10133	13k 2% 0,25W
3230	4822 051 10103	10k 2% 0,25W
3235	4822 051 10103	10k 2% 0,25W
3240	4822 051 10272	2k7 2% 0,25W
3260	4822 051 10103	10k 2% 0,25W
3265	4822 051 10682	6k8 2% 0,25W
3270	4822 051 10222	2k2 2% 0,25W
3300	4822 051 10102	1k 2% 0,25W
3305	4822 051 10821	820Ω 2% 0,25W
3310	4822 051 10181	180Ω 2% 0,25W
3340	4822 051 10332	3k3 2% 0,25W
3375	4822 051 10105	1M 5% 0,25W
3380	4822 051 10561	560Ω 2% 0,25W
3385	4822 051 10682	6k8 2% 0,25W
3390	4822 051 10472	4k7 2% 0,25W
3395	4822 051 10562	5k6 2% 0,25W
3400	4822 051 10471	470Ω 2% 0,25W
3405	4822 051 10122	1k2 2% 0,25W
3410	4822 100 11319	4k7 30% LIN
3415	4822 051 10822	8k2 2% 0,25W
3505	4822 051 10751	750Ω 2% 0,25W
3510	4822 100 11212	2k2 30% LIN
3515	4822 051 10152	1k5 2% 0,25W
3520	4822 051 10472	4k7 2% 0,25W
3522	4822 051 10471	470Ω 2% 0,25W
3524	4822 051 10181	180Ω 2% 0,25W
3525	4822 051 10222	2k2 2% 0,25W
3530	4822 051 10471	470Ω 2% 0,25W
3535	4822 051 10432	4k3 2% 0,25W
3540	4822 051 10102	1k 2% 0,25W
3550	4822 051 10102	1k 2% 0,25W
3555	4822 051 10479	47Ω 2% 0,25W
3560	4822 051 10561	560Ω 2% 0,25W
3705	4822 051 10102	1k 2% 0,25W
3710	4822 051 10102	1k 2% 0,25W
3725	4822 051 10822	8k2 2% 0,25W
3730	4822 051 10339	33Ω 2% 0,25W
3740	4822 051 10339	33Ω 2% 0,25W
3800	4822 051 10102	1k 2% 0,25W
3801	4822 051 10102	1k 2% 0,25W
3802	4822 051 10392	3k9 2% 0,25W
3803	4822 051 10471	470Ω 2% 0,25W
3804	4822 051 10471	470Ω 2% 0,25W
3810	4822 051 10681	680Ω 2% 0,25W
3815	4822 051 10222	2k2 2% 0,25W
3820	4822 051 10682	6k8 2% 0,25W
3825	4822 051 10222	2k2 2% 0,25W
3830	4822 051 10121	120Ω 2% 0,25W
3835	4822 051 10472	4k7 2% 0,25W
3840	4822 051 10132	1k3 2% 0,25W
3845	4822 051 10561	560Ω 2% 0,25W
3850	4822 051 10681	680Ω 2% 0,25W
3855	4822 051 10122	1k2 2% 0,25W
3860	4822 051 10479	47Ω 2% 0,25W
3900	4822 051 10103	10k 2% 0,25W
3905	4822 051 10103	10k 2% 0,25W
3910	4822 051 10103	10k 2% 0,25W
3920	4822 051 10103	10k 2% 0,25W

5300	4822 157 63808	filter 4,43 MHz
5500	4822 157 53608	10µH 10%
5524	4822 152 20677	10µH 10%
5535	4822 157 63757	6,8µH 6%
5540	4822 157 63757	6,8µH 6%
5550	4822 157 63757	6,8µH 6%
5700	4822 157 53608	10µH 10%
5705	4822 154 90059	filter 2,17 MHz
5720	4822 157 63811	1500µH
5725	4822 157 63809	900µH
5800	4822 157 60507	DL950ns
5803	4822 157 53906	47µH 10%
5825	4822 152 20677	10µH 10%

6105	5322 130 80256	BZX84-C4V3
6125	5322 130 31928	BAS16
6205	5322 130 31928	BAS16
6380	4822 130 80125	BZX84-C5V6
6845	5322 130 31928	BAS16

7105	5322 130 41982	BC848B
7125	5322 130 41982	BC848B
7135	5322 130 41982	BC848B
7150	4822 209 63299	TDA2595/V9
7220	4822 209 10866	HEF4528BP
7310	4822 209 30389	TDA4510/V8
7370	4822 209 63108	TDA4660/V2
7390	5322 130 41982	BC848B
7400	5322 130 41982	BC848B
7410	5322 130 41982	BC848B
7500	4822 209 82402	TDA2506/N2
7505	5322 130 41982	BC848B
7515	5322 130 41982	BC848B
7520	5322 130 41982	BC848B
7525	5322 130 41982	BC848B
7700	4822 209 82403	TDA2507/N2
7802	5322 130 41983	BC858B
7810	4822 130 62755	BF570
7830	5322 130 41982	BC848B
7850	5322 130 41982	BC848B

PAL/SECAM transcoder (continued)

7900	5322 130 41982	BC848B
7910	5322 130 41982	BC848B
7920	5322 130 41982	BC848B