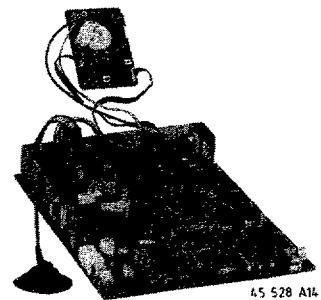


Service
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Service Manual

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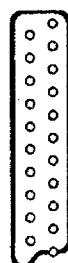
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Technical specification

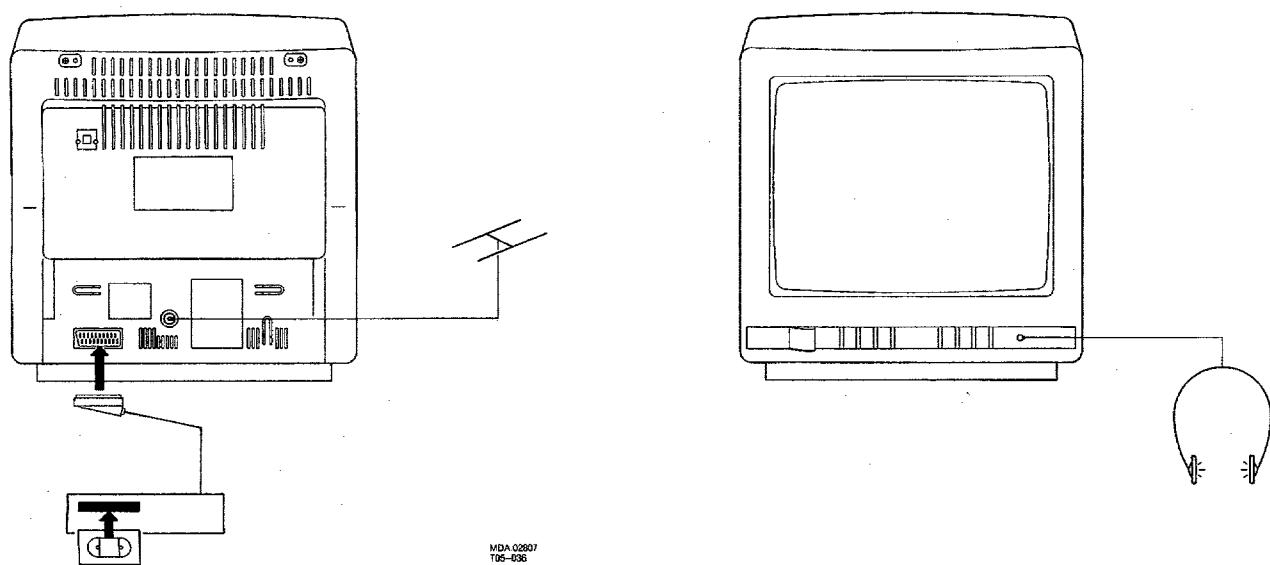
Mains voltage	: 220-240 V ± 10 %, 50 Hz ± 5 %
Aerial input impedance	: 75 Ω - coax
Minimum aerial input VHF	: 30µV
Minimum aerial input UHF	: 40µV
Maximum aerial input	: 180mV
Pull-in range colour sync	: ±300Hz
Pull-in range horizontal sync	: ±600Hz
Pull-in range vertical sync	: ±5Hz
Picture tube range	: 14", 15", 17" and 21"

Euroconnector:



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

Head phone: 8 - 1000Ω 3.5 mm mini jack



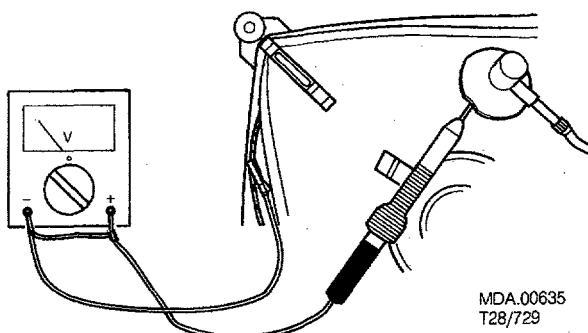
1. A set to be repaired should always be connected to the mains via a suitable isolating transformer.
2. Safety regulations demand that the set be restored to its original condition and that components identical with the original types be used. Safety components are marked by the symbol .
3. To prevent damage to ICs and transistors any flash-over of the EHT should be avoided. To prevent damage to the picture tube the method, indicated in Fig. 1, has to be applied to discharge the picture tube. Make use of an EHT probe and a universal meter (position DC-V). Discharge until the reading of the meter is 0V (after approx. 30s).
4. **ESD** 
All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair may reduce life drastically. When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools on the same potential.
5. Together with the deflection unit and the possible multipole unit the flat square picture tubes applied form one whole. The deflection and multipole units have been adjusted optimally in the factory. Adjustment of these units during repair is thus not recommended.
6. The EHT cable has been bonded in the line output transformer. It can thus not be replaced.
7. Proceed with care when testing the EHT section and the picture tube.
8. Never replace any modules or any other parts while the set is switched on.
9. Wear safety goggles during replacement of the picture tube.
10. Use plastic instead of metal alignment tools. This in order to preclude short-circuit or to prevent a specific circuit from being rendered unstable.

1. Service default mode

The service default mode (SDM) is a fixed, defined state the set can be brought in. All controls are in a fixed position and the automatic switch-off feature is disabled. The set accepts all commands via the remote control or the local keyboard.

To switch on the SDM, connect pin 7 of IC7600 to ground and switch on the set with the mains switch. The SDM can be left by switching the set into stand-by or by switching off the set with the mains switch.

2. The direct voltages and waveforms should be measured relative to the nearest earthing point on the printed circuit board.
3. The direct voltages and oscilloscopes are measured with a switched on service default mode. Use a colour bar pattern of pattern generator PM5515 as input signal.
4. If necessary, the oscilloscopes and DC voltages are measured with  and without  aerial signal. Voltages in the power supply section have been measured for both normal operation (I) and in the stand-by mode (S). These values have been indicated by means of the corresponding symbols.
5. The components, mentioned in the parts lists, are per position completely interchangeable with the components in the set, irrespective of the possible type indications.
6. The picture tube board is provided with printed spark gaps. Each spark gap is arranged between an electrode of the picture tube and the aquadag coating.



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Fig. 1

7. Servicing of SMDs (Surface Mounted Devices)

7.1 General cautions on handling and storage.

- a. Oxidation on the SMDs terminals results in poor soldering. Do not handle SMDs with bare hands.
- b. Avoid for storage places that are sensitive to oxidation such as places with sulfur or chlorine gas, direct sunlight, high temperatures or a high degree of humidity.
As a result the capacitance or resistance value of the SMDs may be affected.
- 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.

7.2 Removal of SMDs

- a. Heat the solder (for 2-3 seconds) at each terminal of the chip. Small components can, by means of litz wire and a limited horizontal force, be removed with the soldering iron. They can also be removed with a solder sucker (see Fig. 2) 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. 2B).
- c. Remove the excess solder on the solder lands by means of litz wire or a solder sucker (see Fig. 2C).

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), must preferably be provided with a thermal control (soldering temperature about 225 to 250°C).
- d. The chip, once removed, must **never** be used again.

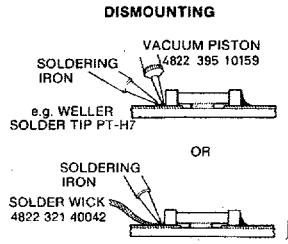


Fig. 2

7.3 Attachment of SMDs

- a. Locate the SMD on the solder lands by means of tweezers and solder the component at one side. Ensure that the component is positioned well on the solder lands (see Fig. 3A).
- b. Next complete the soldering of the terminals of the component (see Fig. 3B).

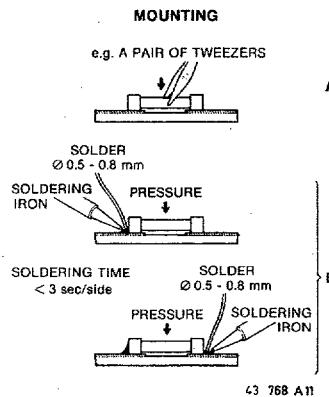


Fig. 3

Caution on attachment:

- a. When soldering the SMD terminals, do not touch them directly with the soldering iron. The soldering must be as quick as possible; care must be taken to avoid damage to the terminals and the body itself.
- b. Keep the SMD's body in contact with the printed board when soldering.
- c. The soldering iron to be used (approx. 30 W) must preferably be provided with a thermal control (soldering temperature about 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 with 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. 4).

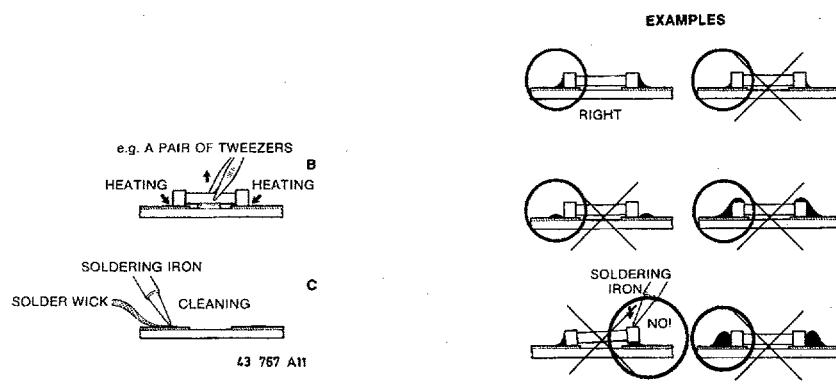


Fig. 4

1. Servicing position

To facilitate troubleshooting and repairing the set, the chassis can, after disconnection of the degaussing coil, be pulled out of the cabinet, turned 180°, and placed behind it (see Fig. 5).

2. Flat square picture tube fixation.

Demounting the picture tube:

Loosen the nuts by turning them with a box spanner hexagon (10 mm) **clockwise**, (see Fig. 6).

Mounting the picture tube:

Turn the spindles **countrerclockwise** into the mask with a box spanner hexagon (4 mm).

Locate the picture tube in the mask. The easiest way is placing the cabinet with the front facing down. Position the picture tube in the middle of the mask.

Turn the spindles **clockwise** until the nut can be fixed onto the spindle.

Turn the nut **countrerclockwise** finger-tight against the picture tube fixation.

Turn the spindle **clockwise** until the whole has been fixed tightly (the nut must not turn any more).

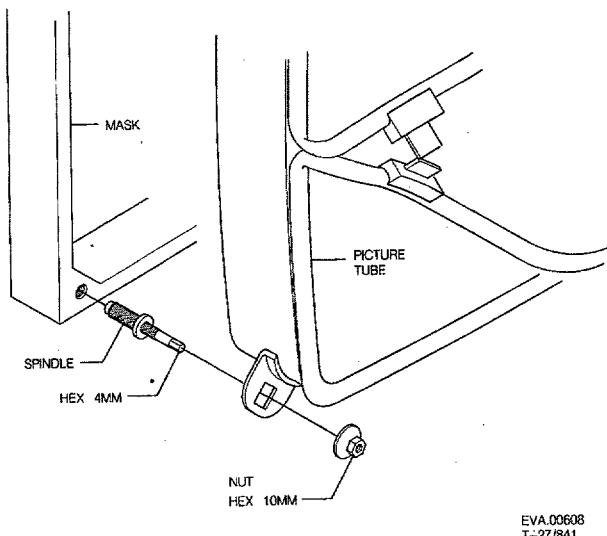
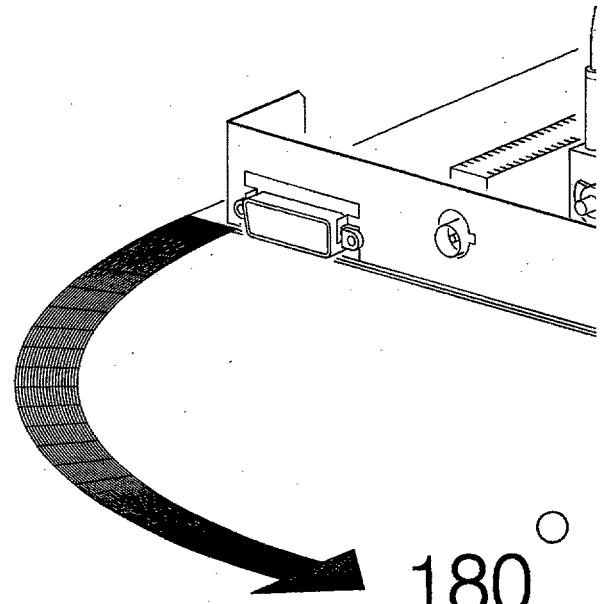


Fig. 6



4.1

4.2

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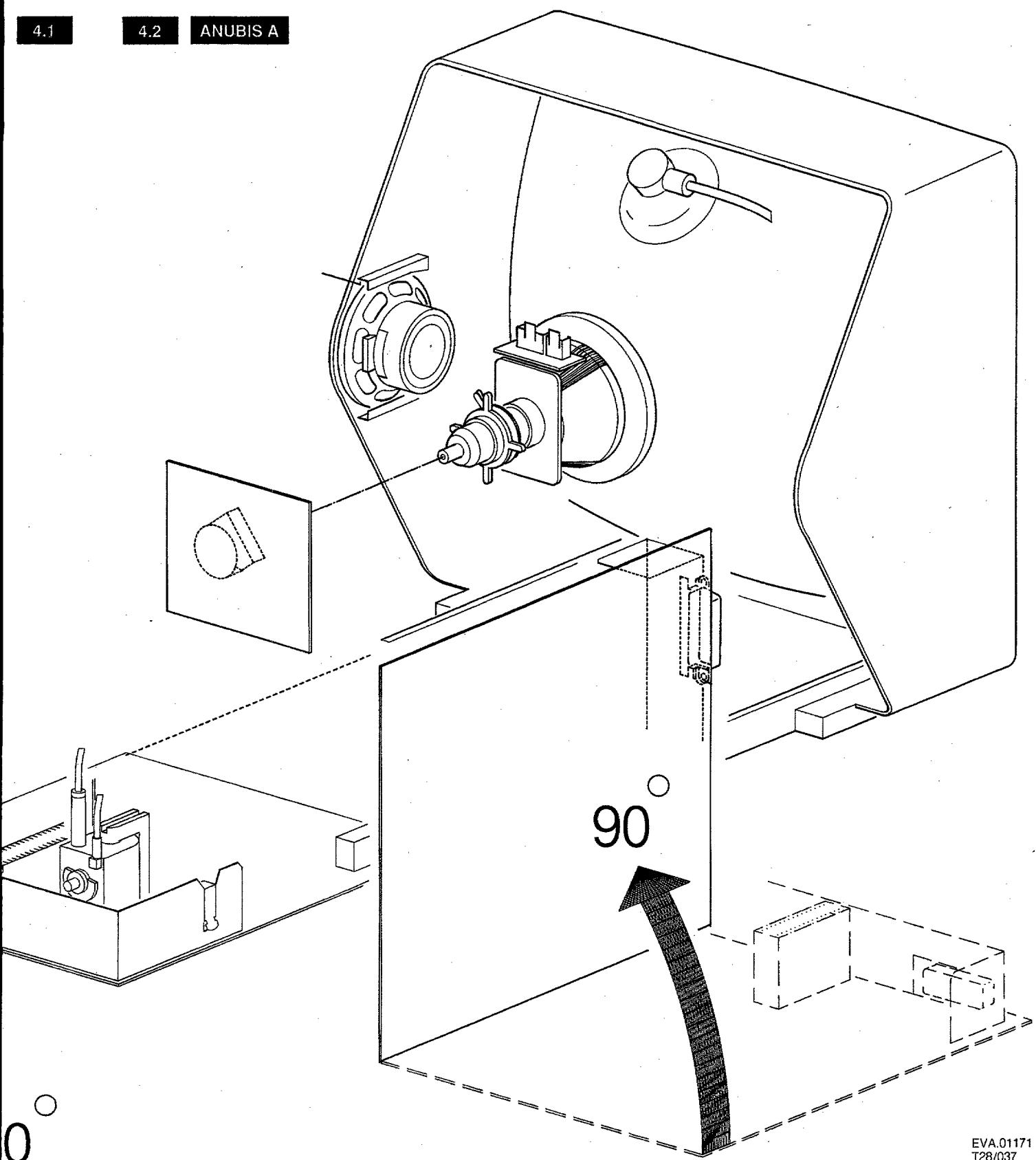


Fig. 5

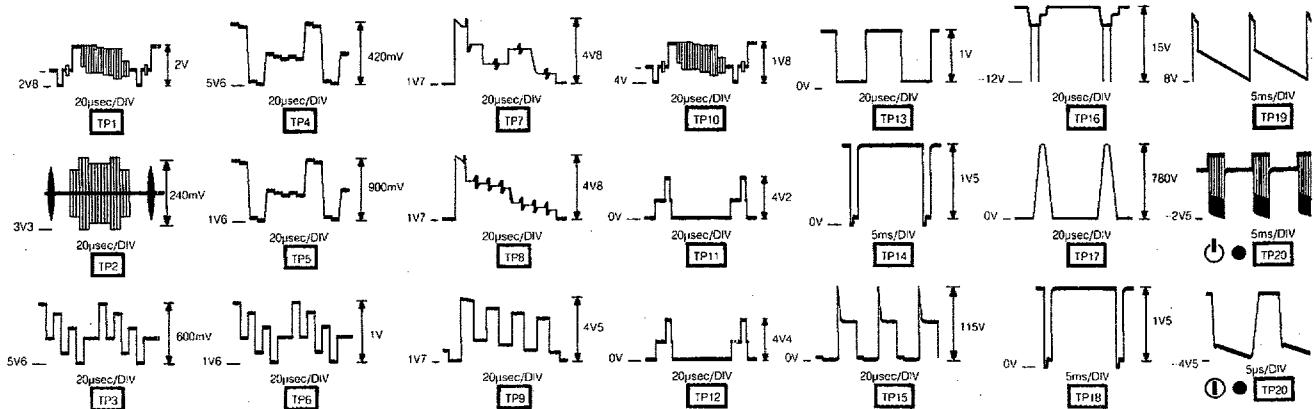
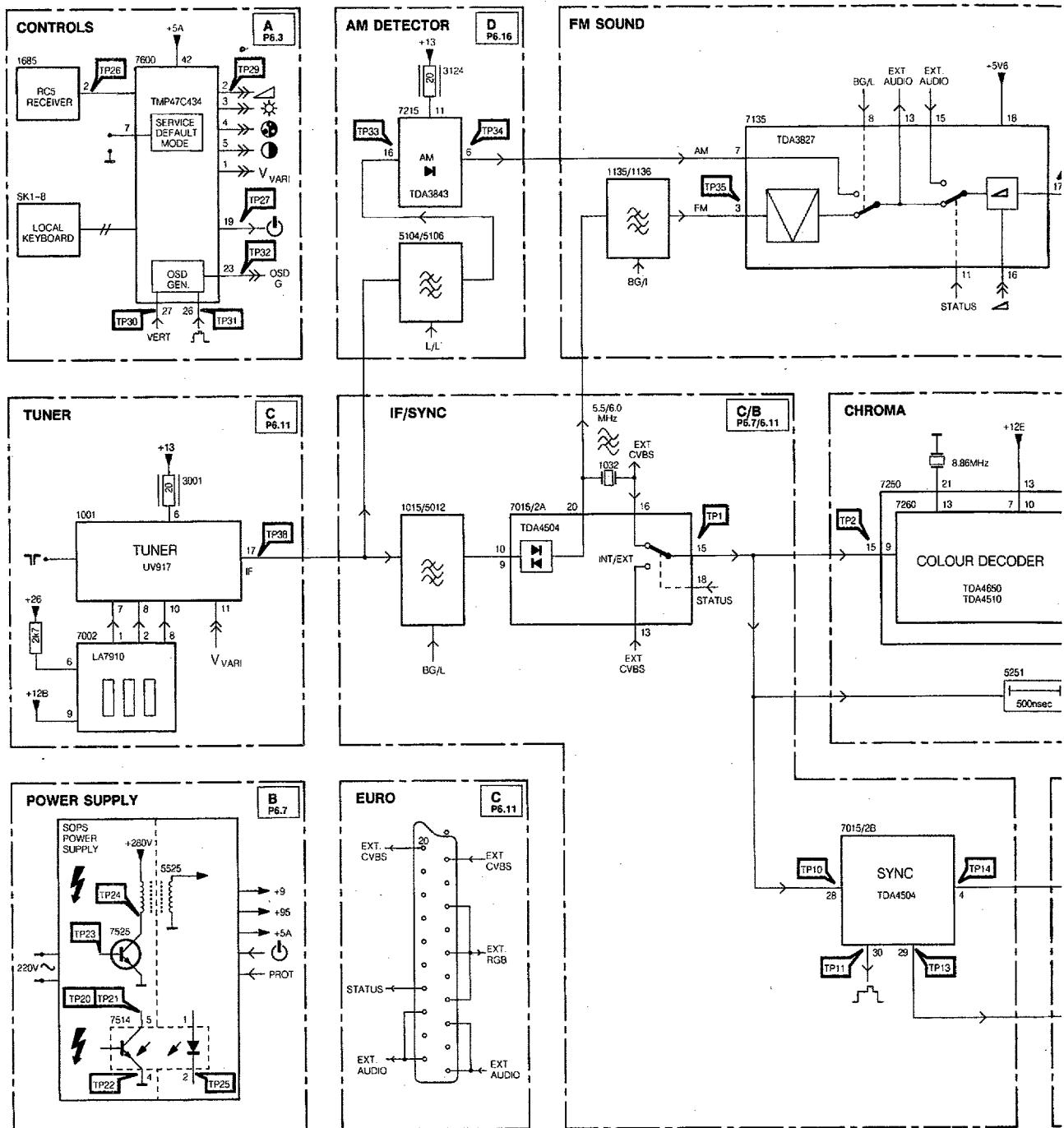
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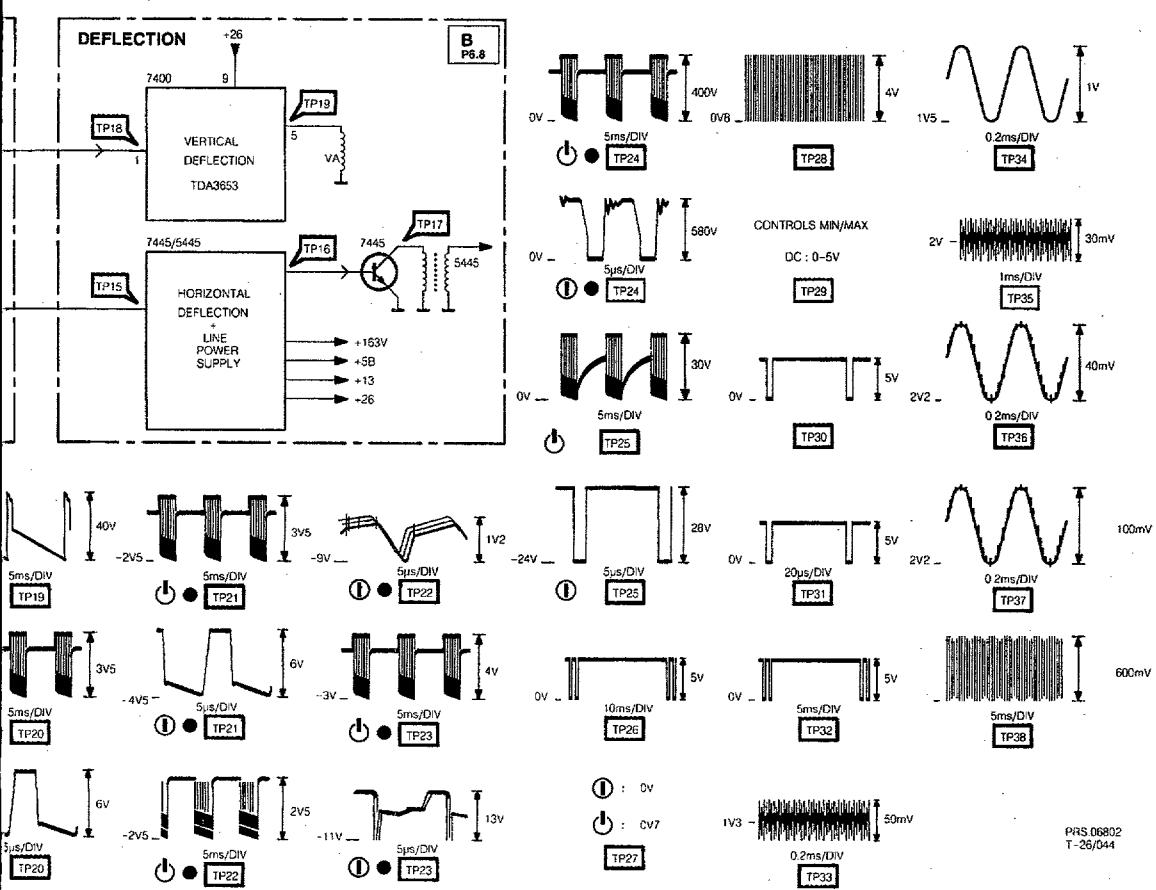
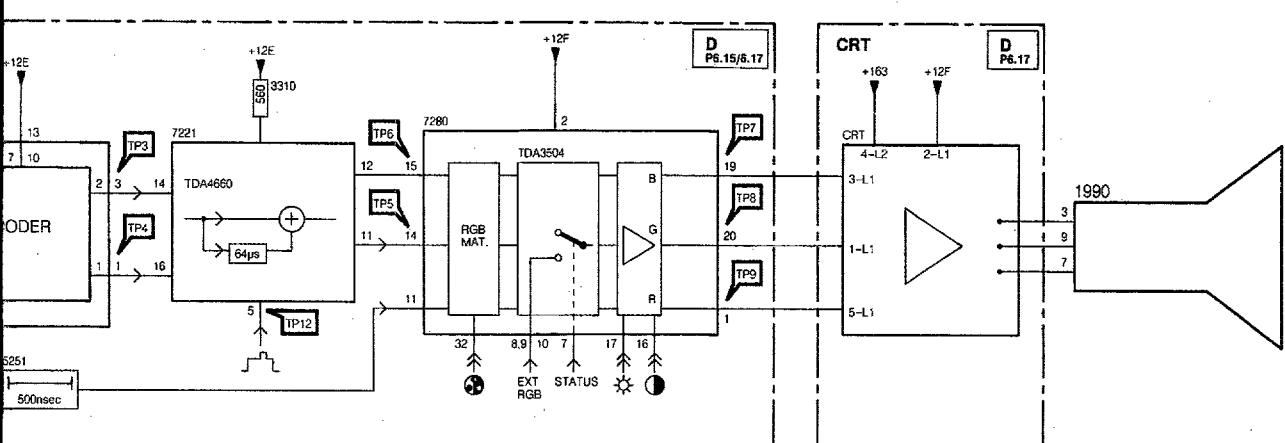
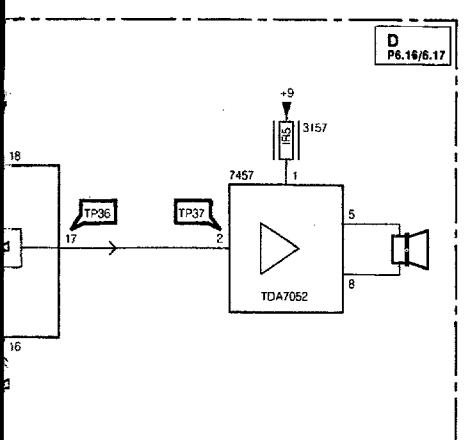
Blockdiagram

Block schaltbild

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5.1.





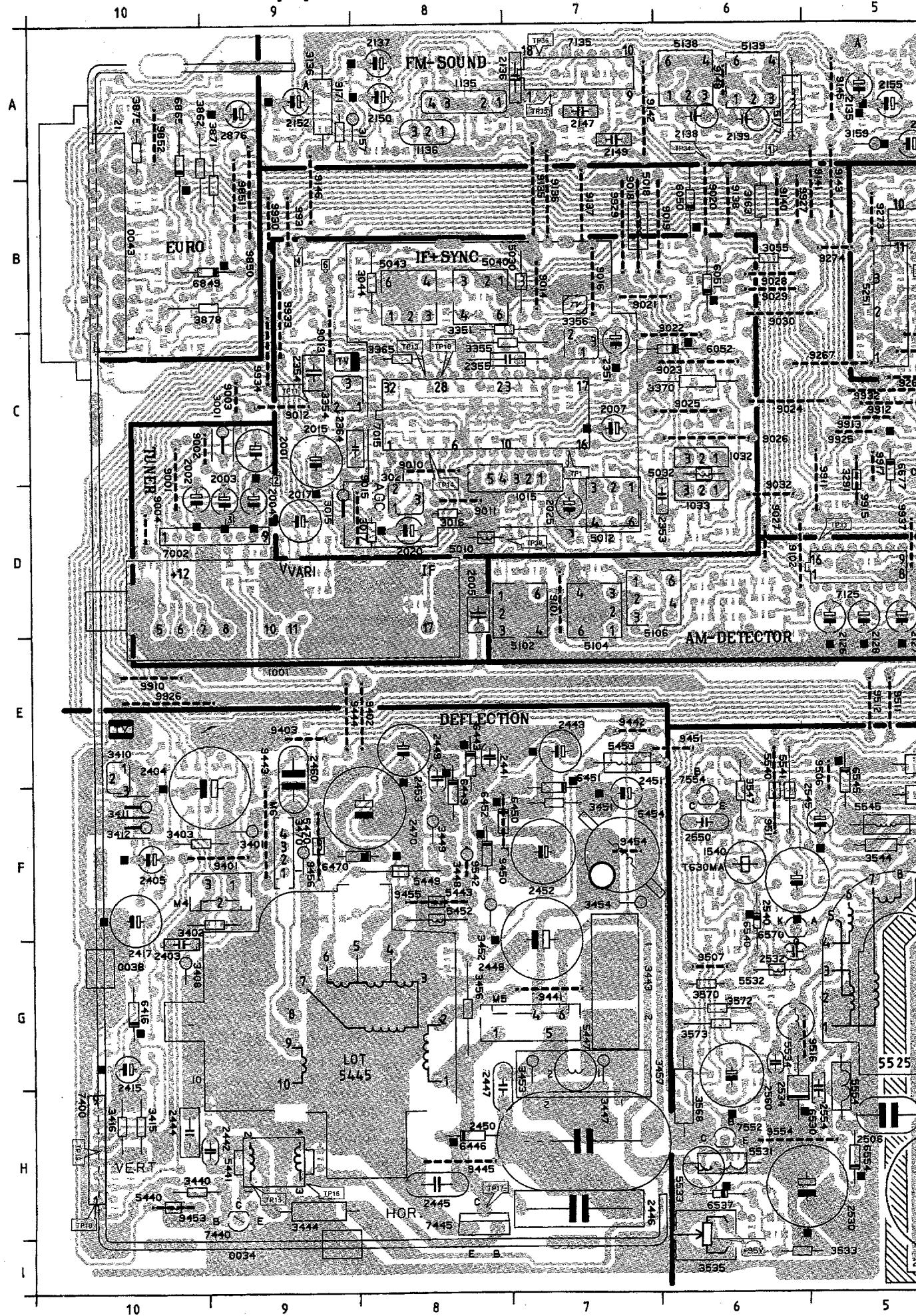
Monocarrier

Hauptplatine

Châssis

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5.3



5.3

5.4

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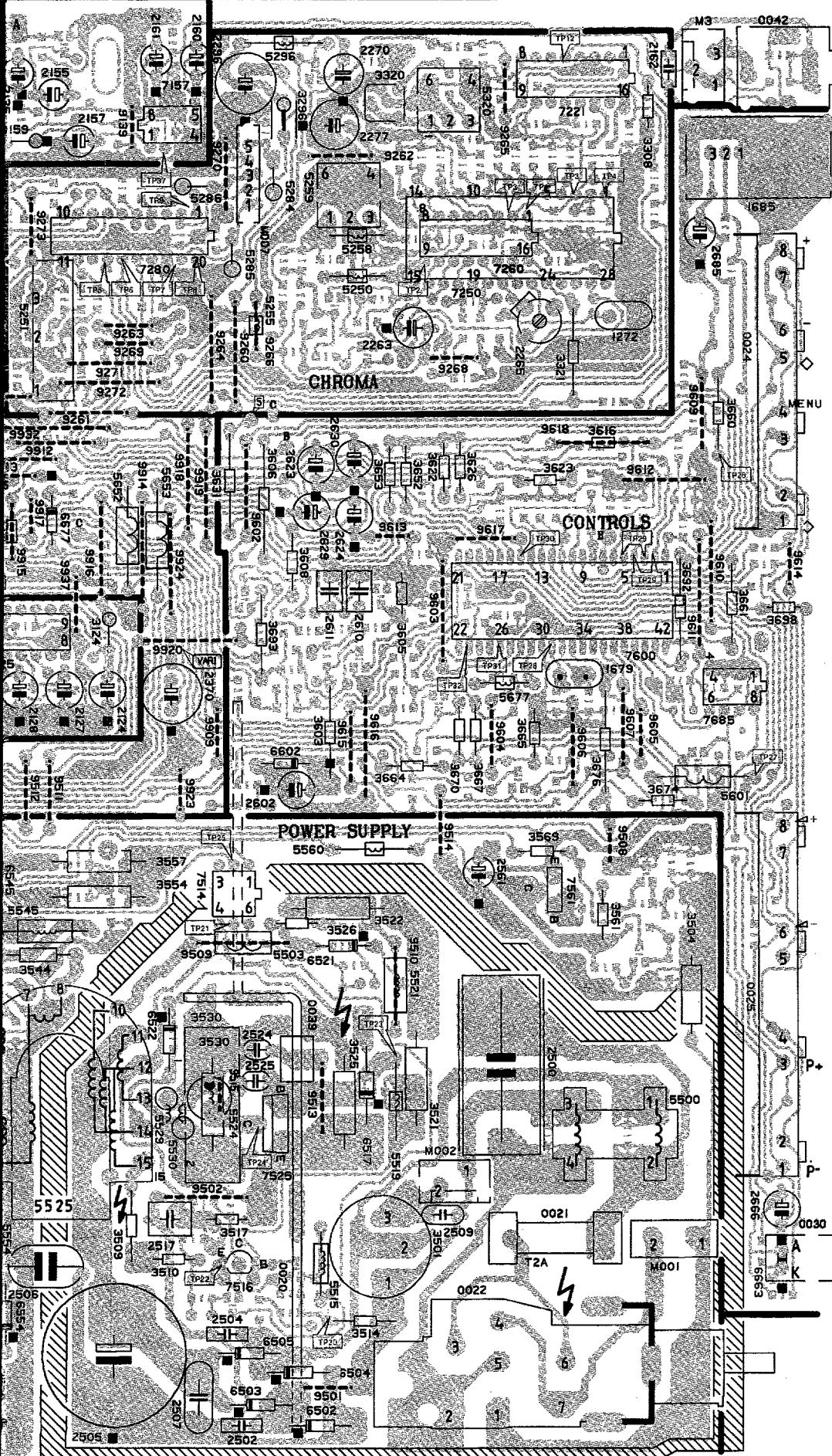
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4

3

2

1



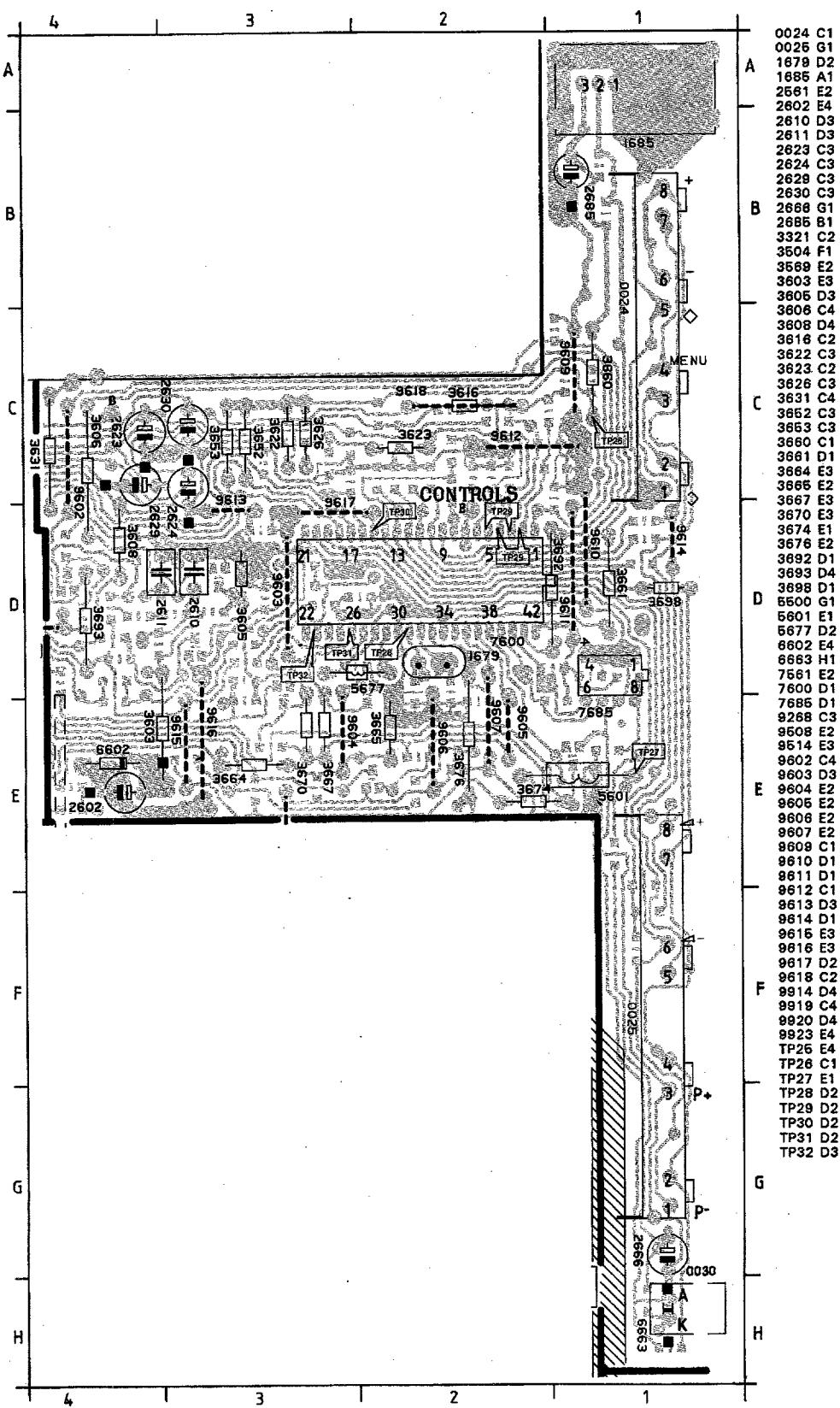
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0025	G1	3401	F9	5652	D5	9508	E2
0042	A1	3402	F9	5653	D4	9509	F4
0043	C10	3403	F10	5677	D2	9510	F3
1001	D10	3408	G10	6050	B6	9511	E5
1015	C7	3410	E10	6051	B6	9512	E5
1032	C6	3411	F10	6052	C8	9513	G3
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1136	A8	3418	H10	6446	H8	9516	G8
1272	B2	3440	H10	6449	F8	9517	F8
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Controls

Bedienung

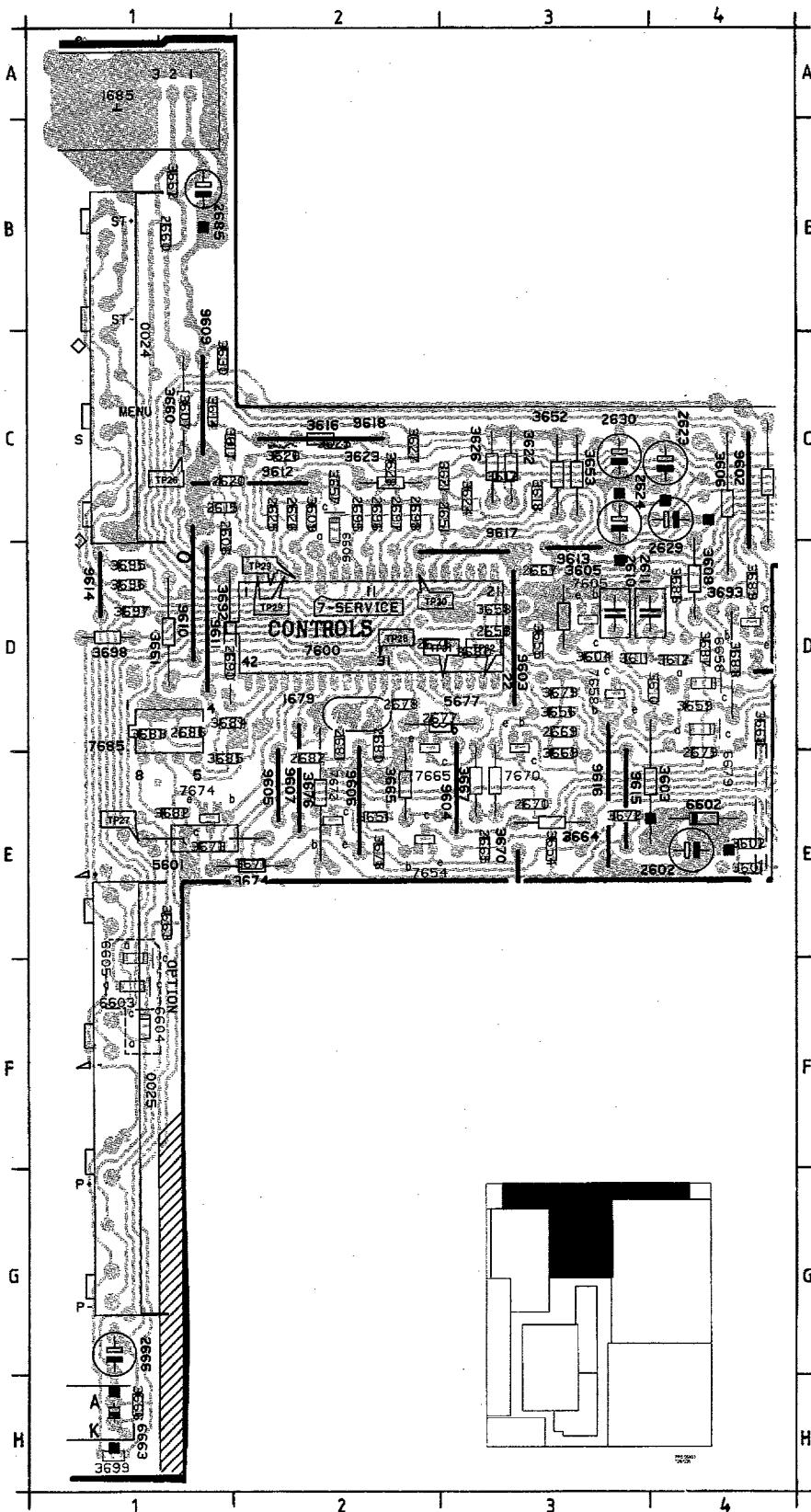
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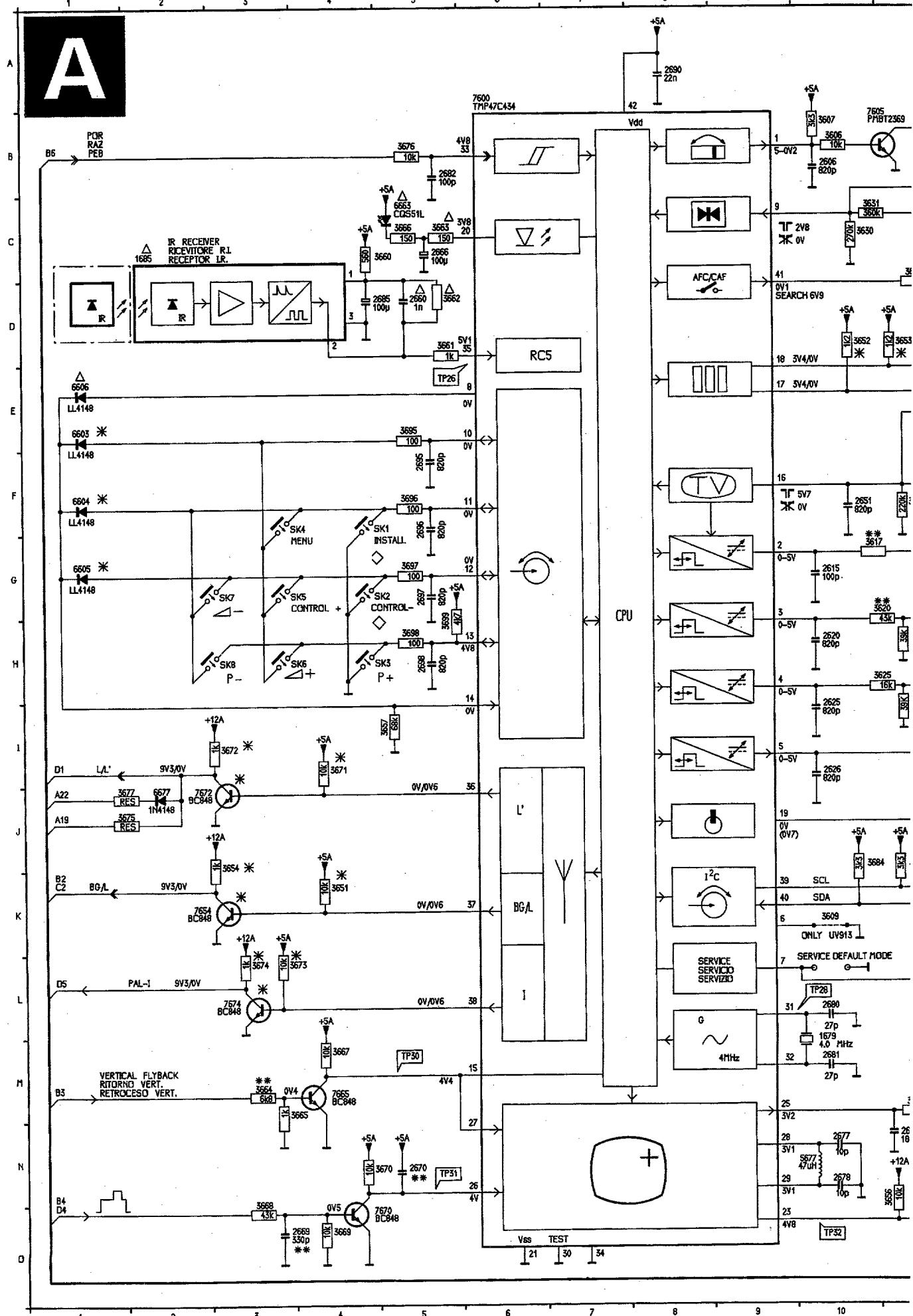
6.1



Commandes

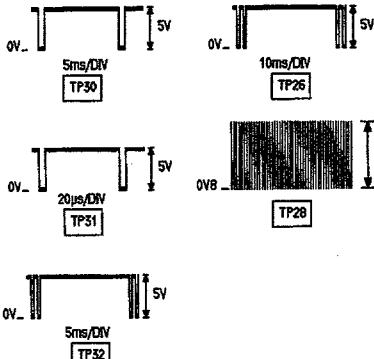
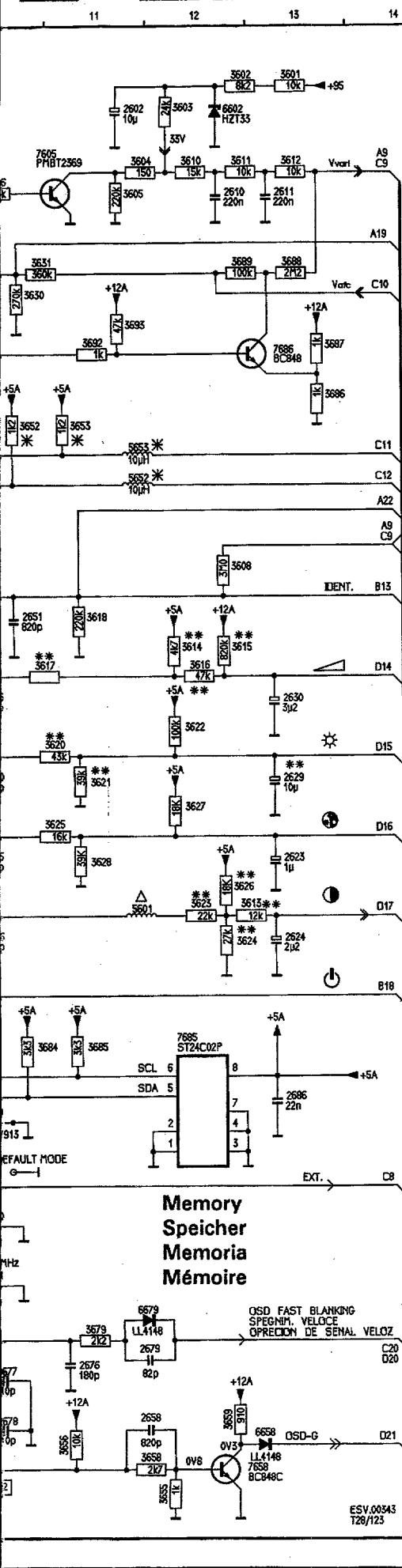
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2611	D3	3693	D4
2615	C1	3695	D1
2620	C1	3696	D1
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2624	C3	3698	D1
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2626	C2	3650	G1
2629	C3	3660	E3
2630	C3	3661	O1
2651	C2	3663	D4
2658	D3	3677	D2
2660	B1	3682	F1
2665	E3	3686	E1
2666	G1	3682	E4
2667	D3	3603	F1
2669	D3	3604	F1
2670	E3	3605	E1
2676	D2	3606	C2
2677	D2	3658	D4
2678	D2	3663	H1
2679	E4	3678	D4
2680	D2	7256	C3
2681	D2	7514	E4
2682	E2	7581	E2
2685	B1	7563	E2
2686	D1	7600	D1
2690	D1	7605	D3
2695	C2	7654	E2
2696	C2	7658	D3
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2698	C2	7870	D3
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3307	C2	7685	D1
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3321	C2	9288	C3
3665	E1	9508	E2
3668	F1	9514	E3
3601	E4	9602	C4
3602	E4	9603	D3
3603	E3	9604	E2
3604	D3	9605	E2
3605	D3	9606	E2
3606	C4	9607	E2
3607	C1	9609	C1
3608	D4	9610	D1
3609	C2	9611	D1
3610	D3	9612	C1
3611	D3	9613	D3
3612	D3	9614	D1
3613	C3	9615	E3
3614	C1	9616	E3
3615	C4	9617	D2
3618	C2	9618	C2
3617	C1	9909	E4
3618	C3	9914	D4
3620	C2	9918	C4
3621	C2	9919	C4
3622	C3	9920	D4
3623	C2	9923	E4
3624	C2	8924	D4
3625	C2	TP26	E4
3626	C3	TP26	C1
3627	C2	TP27	E1
3628	C2	TP28	D2
3630	C1	TP28	D2
3631	C4	TP30	D2
3651	E2	TP31	D2
3652	C3	TP32	D3
3653	C3		
3654	E3		
3655	D3		
3656	D3		
3657	C2		
3658	D3		
3659	D4		
3660	C1		
3661	D1		
3662	B1		
3663	E1		
3664	E3		
3665	E2		
3666	H1		
3667	E3		
3668	D4		
3669	E3		
3670	E3		
3671	E1		
3672	E3		
3673	E1		
3674	E1		
3676	E2		





6.3

6.4 ANUBIS A



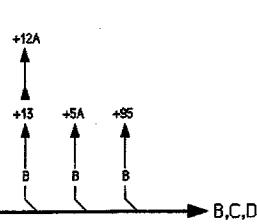
POS NR	SYSTEM 1	SYSTEM 2	SYSTEM 4	SYSTEM 5
3651	—	—	10k	10k
3652	1k	—	1k2	1k2
3653	1k2	—	1k2	1k2
3654	—	—	1k	1k
3671	—	—	10k	10k
3672	—	—	1k	1k
3673	—	—	—	10k
3674	—	—	JMP	JMP
3678	—	—	—	—
3682	10 ¹⁴ H	—	10 ¹⁴ H	10 ¹⁴ H
3683	10 ¹⁴ H	—	10 ¹⁴ H	10 ¹⁴ H
6603	—	LL1448	—	LL1448
6604	—	—	—	LL1449
6605	—	—	—	LL1449
7654	—	—	BC848	BC848
7672	—	—	BC848	BC848
7674	—	—	BC848	BC848

SYSTEM 1: PAL BG
SYSTEM 2: PAL BG ; SECAM BG
SYSTEM 4: PAL BG ;SECAM BGLL
SYSTEM 5: PAL BGI ;SECAM BGLL

POS NR	REMOTE CONTROL	NON REM CONTRL
1665	LTM8848	—
2664	1n	407
3662		—
3663	150E	—
3666	150E	—
5801	10μH	—
6606		LL4148
6663	CQS51L	

POS NR	21°
2629	2μ2
2669	47P
2670	22dP
3613	JMP
3614	47K
3615	RES
3615	JMP
3617	5K6
3620	3K6
3621	3K6
3823	68K
3624	100K
2626	100K
3664	100K

Memory Speicher Memoria Mémoire



SK1	F4
SK2	H4
SK3	H4
SK4	F3
SK5	H3
SK6	H3
SK7	G3
SK9	H3
1679	M10
1685	C2
2602	A11
2606	B10
2610	B12
2611	B13
2615	G10
2620	H10
2623	I13
2624	I13
2625	I10
2626	I10
2629	H13
2630	G13
2651	F10
2658	N11
2660	D5
2666	C5
2669	S3
2670	N5
2676	N5
2677	N10
2678	N10
2679	N11
2680	L10
2681	H10
2682	B5
2685	D4
2686	K15
2690	A8
2695	F5
2697	G5
2698	H5
3601	A13
3602	A12
3603	A12
3604	B11
3605	B11
3606	B10
3607	B10
3608	F12
3609	K10
3610	B12
3611	B12
3612	B13
3613	B13
3614	F12
3615	G12
3617	G10
3618	F11
3620	G11
3621	H11
3622	G12
3623	I12
3624	I12
3625	H11
3626	I12
3627	H12
3628	I11
3530	C10
3531	C10
3531	K4
3632	E10
3633	E10
3634	E10
3635	E12
3636	I15
3637	I15
3638	I15
3639	I15
3640	I15
3641	I15
3642	I15
3643	I15
3644	I15
3645	I15
3646	I15
3647	I15
3648	I15
3649	I15
3650	I15
3651	I15
3652	I15
3653	I15
3654	I15
3655	I12
3656	I15
3657	I15
3658	I15
3659	N12
3660	I15
3661	I15
3662	D5
3663	C5
3664	H5
3665	H5
3666	C5
3667	H5
3668	D3
3669	H4
3670	H4
3671	I4
3672	I3
3673	I3
3674	L3
3675	I3
3676	B5
3677	I2
3678	I2
3679	M11
3680	J10
3681	J11
3682	C13
3683	C13
3684	C13
3685	C12
3686	C12
3687	C11
3688	C11
3689	C11
3690	C11
3691	C11
3692	C11
3693	C11
3694	C11
3695	F5
3697	G5
3698	H5
3699	H5
4747	H9
5601	H9
5652	E11
5653	E11
5657	E11
6602	A12
6603	E12
6604	F1
6605	G1
6606	G1
6608	M13
6609	C5
6677	J2
6679	M11
7600	A6
7605	B10
7654	K2
7658	C12
7665	M5
7670	F10
7672	J3
7674	J3
7685	I12

CS 55 719

0021	H2	2290	B4	2686	D1	3354	C8	3623	C2	5545	F5	7670	D3	9925	C5
0022	I2	2291	B5	2690	D1	3355	C7	3624	C2	5554	H5	7672	E2	9926	E10
0024	C1	2292	B5	2695	C2	3356	C7	3625	C2	5580	E3	7674	E1	9927	B6
0025	G1	2293	B5	2696	C2	3357	B9	3626	C3	5601	E1	7685	D1	9929	B7
0042	A1	2294	B5	2697	C2	3358	C9	3627	C2	5652	D5	7686	D4	9930	B9
0043	C10	2296	A4	2698	C2	3359	B9	3628	C2	5653	D4	7875	A10	9931	B9
1001	D10	2297	A4	2850	C10	3360	B9	3630	C1	5677	D2	7876	C10	9932	C5
1015	C7	2298	B4	2852	B10	3362	C9	3631	C4	6014	D7	7877	B9	9933	B9
1032	C8	2299	A4	2853	A10	3363	C9	3651	F2	6019	D9	9001	C10	9934	C9
1033	D6	2300	B4	2860	C10	3364	D6	3652	C3	6020	D9	9002	C9	9937	D5
1135	A8	2301	B2	2875	A10	3365	C8	3653	C3	6034	C6	9003	C9	M001	H1
1138	A8	2302	A2	2878	A9	3370	C8	3654	C3	6042	B8	9004	D10	M002	G3
1272	B2	2303	A2	3001	C9	3401	F9	3655	D3	6050	B6	9010	C8	M007	A4
1540	F6	2304	A2	3002	D9	3402	F9	3656	D3	6051	B6	9011	D8	M3	A1
1679	D2	2305	A2	3003	D9	3403	F10	3657	C2	6052	C6	9012	C9	M4	F9
1685	A1	2308	A3	3004	D9	3404	F10	3658	D3	6053	C6	9013	B9	M5	G8
2001	C9	2307	A3	3010	D7	3405	F10	3659	D4	6115	D6	9014	B7	M6	F9
2002	D10	2309	B2	3011	D7	3406	E10	3660	C1	6116	D6	9015	D8	M002	G3
2003	D9	2310	C3	3012	D7	3407	E10	3661	D6	6119	D6	9016	B7	TP1	C7
2004	D9	2321	B2	3015	D9	3408	G10	3662	B1	6120	D6	9018	B7	TP2	B3
2005	D8	2350	C8	3016	D8	3409	F10	3663	E1	6135	A8	9019	B6	TP3	B2
2006	D10	2351	C7	3017	D8	3410	E10	3664	E3	6170	A8	9020	B6	TP4	B2
2007	C7	2352	C8	3018	D9	3411	F10	3665	E2	6172	A5	9021	B7	TP5	B5
2008	D8	2353	D6	3019	D9	3412	F10	3666	H1	6289	E9	9022	C6	TP6	B5
2009	B7	2354	C9	3020	D9	3413	G10	3667	E3	6306	A2	9023	C6	TP7	B4
2010	D7	2355	C7	3021	D8	3414	F10	3668	D4	6305	C8	9024	C6	TP8	B4
2011	D7	2358	C8	3022	D8	3415	H10	3669	E3	6370	C7	9025	C6	TP9	B4
2013	D7	2359	C8	3023	C8	3416	H10	3670	E3	6415	G10	9026	C8	TP10	C8
2014	D7	2364	C8	3024	C7	3417	F10	3671	E1	6416	G10	9027	D6	TP11	C9
2015	C9	2366	B8	3025	C7	3418	E10	3672	E3	6443	E8	9028	B8	TP12	A2
2016	C8	2367	C8	3028	C7	3419	F10	3673	E1	6446	H8	9029	B8	TP13	C8
2017	D9	2368	B8	3027	D6	3440	H10	3674	E1	6449	F8	9030	B8	TP14	C8
2018	D9	2370	D4	3028	D8	3442	H10	3675	D5	6450	F8	9032	D6	TP15	H9
2019	C8	2371	C8	3029	C6	3443	G7	3676	E2	6451	F7	9101	D7	TP16	H9
2020	D8	2401	H10	3030	C8	3444	H9	3677	C5	6452	F8	9102	D8	TP17	H8
2021	C9	2402	F9	3031	C6	3445	H9	3678	E2	6470	F8	9135	B7	TP18	H10
2022	C8	2403	G10	3032	C6	3446	F9	3679	D3	6502	I3	9136	B7	TP19	H10
2025	D7	2404	F9	3033	C6	3447	G7	3680	D3	6503	I4	9137	B7	TP20	H3
2026	C8	2405	F10	3034	C7	3448	F8	3682	E1	6504	H4	9138	B8	TP21	F4
2027	D6	2413	H10	3035	C6	3449	F8	3683	D1	6505	H4	9139	A4	TP22	H4
2030	C6	2414	H10	3036	C9	3450	F8	3684	B1	6511	H4	9140	B6	TP23	F3
2037	C7	2415	G10	3037	B8	3451	F7	3685	E1	6513	F3	9141	B5	TP24	G4
2038	C7	2416	G10	3038	C7	3452	F8	3686	D3	6514	F3	9142	A7	TP25	E4
2041	B8	2417	F10	3039	C7	3453	G7	3687	D4	6515	F6	9143	B5	TP26	C1
2043	B8	2440	H10	3043	B9	3454	F7	3688	D4	6518	F6	9145	A5	TP27	E1
2044	B8	2441	E8	3044	B8	3455	G8	3689	D4	6517	G3	9146	B8	TP28	D2
2101	D8	2442	H9	3049	C8	3456	G8	3692	D1	6521	F3	9148	E6	TP29	D2
2102	D7	2443	E7	3050	B6	3457	G7	3693	F4	6522	F4	9260	B4	TP30	D2
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2110	D7	2445	H8	3052	B8	3461	E9	3696	D1	6530	H6	9262	A3	TP32	D3
2115	E8	2446	H7	3053	B6	3465	E9	3697	D1	6537	H6	9263	B4	TP34	A8
2117	E6	2447	H7	3054	B7	3470	F9	3698	D1	6540	F8	9264	B4	TP35	A7
2118	D6	2448	G7	3055	B6	3501	H3	3699	H1	6545	E9	9265	A2	TP36	A7
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2124	D5	2450	H7	3102	D5	3509	G4	3851	B10	6553	E5	9267	C5		
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2127	D5	2453	E8	3117	E6	3513	F3	3854	B10	6557	G6	9270	A4		
2128	D5	2480	E9	3118	D6	3514	H3	3855	B10	6558	G6	9271	C5		
2135	A5	2465	E10	3119	D6	3515	H4	3856	B10	6559	H6	9272	C5		
2137	A8	2470	F8	3120	D8	3516	H4	3857	B9	6561	H6	9273	B5		
2138	A6	2500	G2	3124	D5	3517	G4	3858	A10	6562	F1	9274	B5		
2139	A6	2501	G2	3127	D8	3518	H4	3860	C10	6565	E1	9401	F1		
2140	A7	2502	I4	3135	A8	3520	H4	3862	A10	6566	F2	9402	E8		
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2143	A8	2504	H4	3137	A6	3522	F3	3866	A10	6570	F6	9441	G7		
2144	A8	2505	H6	3138	A7	3523	G3	3871	B9	6573	F5	9442	E7		
2145	A7	2506	H5	3141	A6	3525	G3	3875	A10	6602	E4	9443	F9		
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2161	A4	2532	G6	3159	A5	3552	F6	5030	B7	6853	B10	9507	G6		
2162	A1	2533	I6	3160	A1	3553	H6	5032	C6	6854	B10	9508	E2		
2164	A5	2534	G6	3161	A1	3554	F5	5040	B8	6855	B10	9509	F4		
2169	A7	2536	H6	3162	A4	3555	G6	5043	B8	6865	A10	9510	F3		
2170	A8	2540	F6	3163	B8	3556	F6	5102	D8	7002	D8	9511	E5		
2171	A8	2545	F5	3169	A8	3557	E5	5104	D7	7015	C8	9512	E5		
2172	A6	2547	F6	3170	A8	3558	F5	5106	D7	7027	D6	9513	G3		
2174	A6	2550	F6	3171	A9	3559	F6	5138	A6	7030	C6	9514	E3		
2175	A6	2553	F5	3172	A8	3560	F2	5139	A6	7038	C7	9515	G4		
2176	A5	2554	H5												

9925 C5
9926 E10
9927 B6
9929 B7
9930 B9
9931 B9
9932 C5
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M001 H1
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M007 A4
M3 A1
M4 F9
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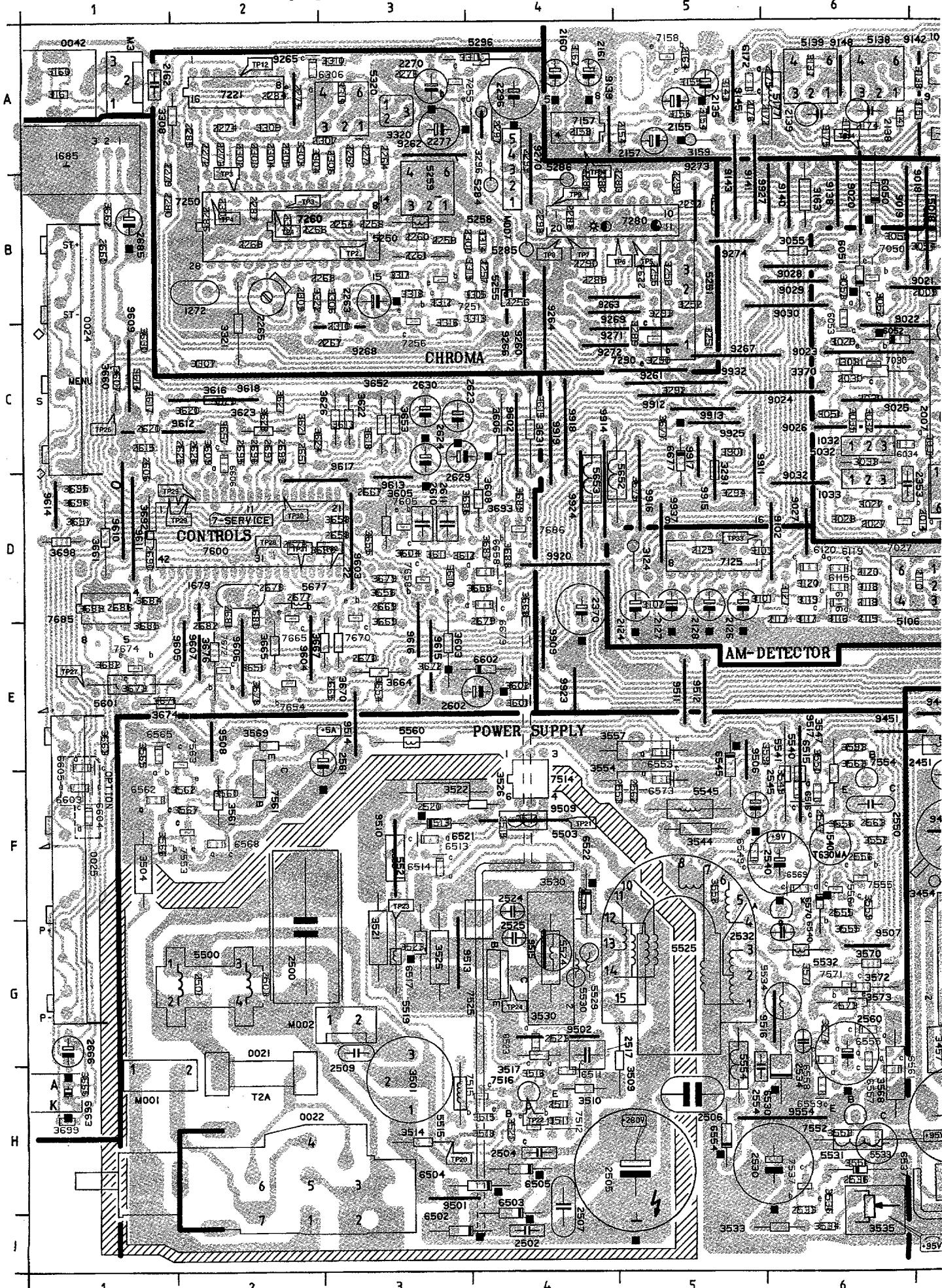
Monocarrier

Hauptplatine

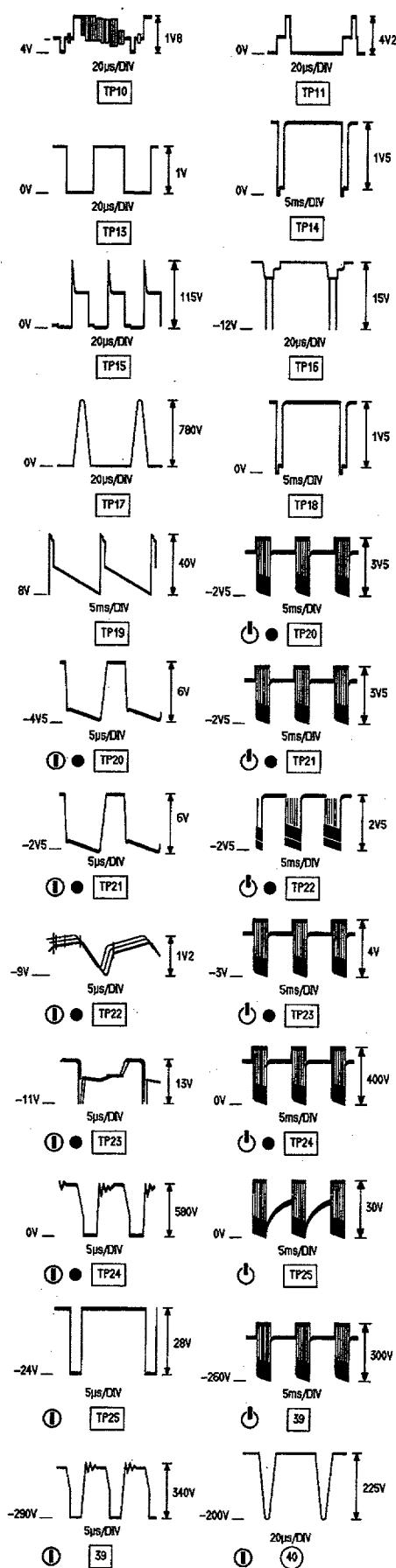
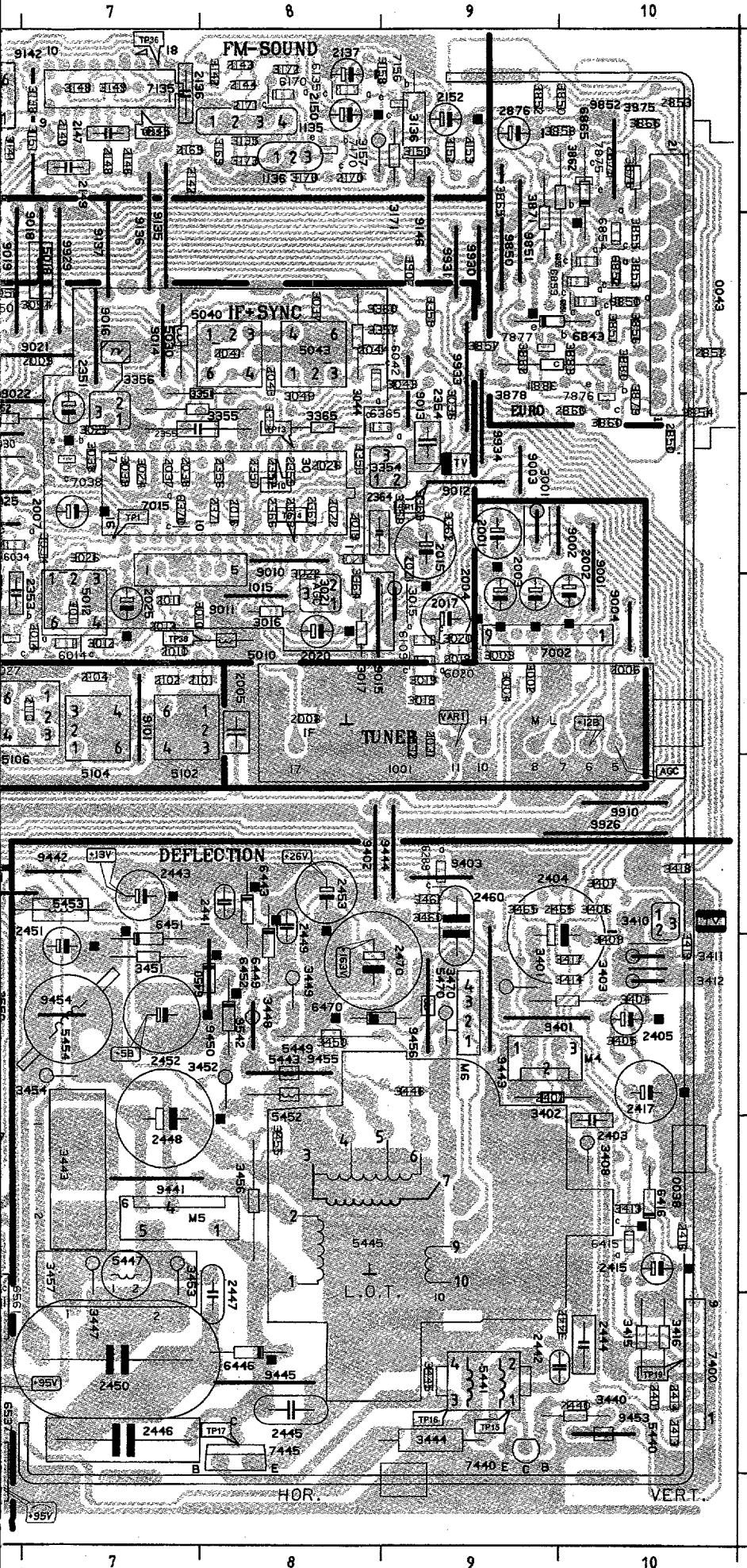
Châssis

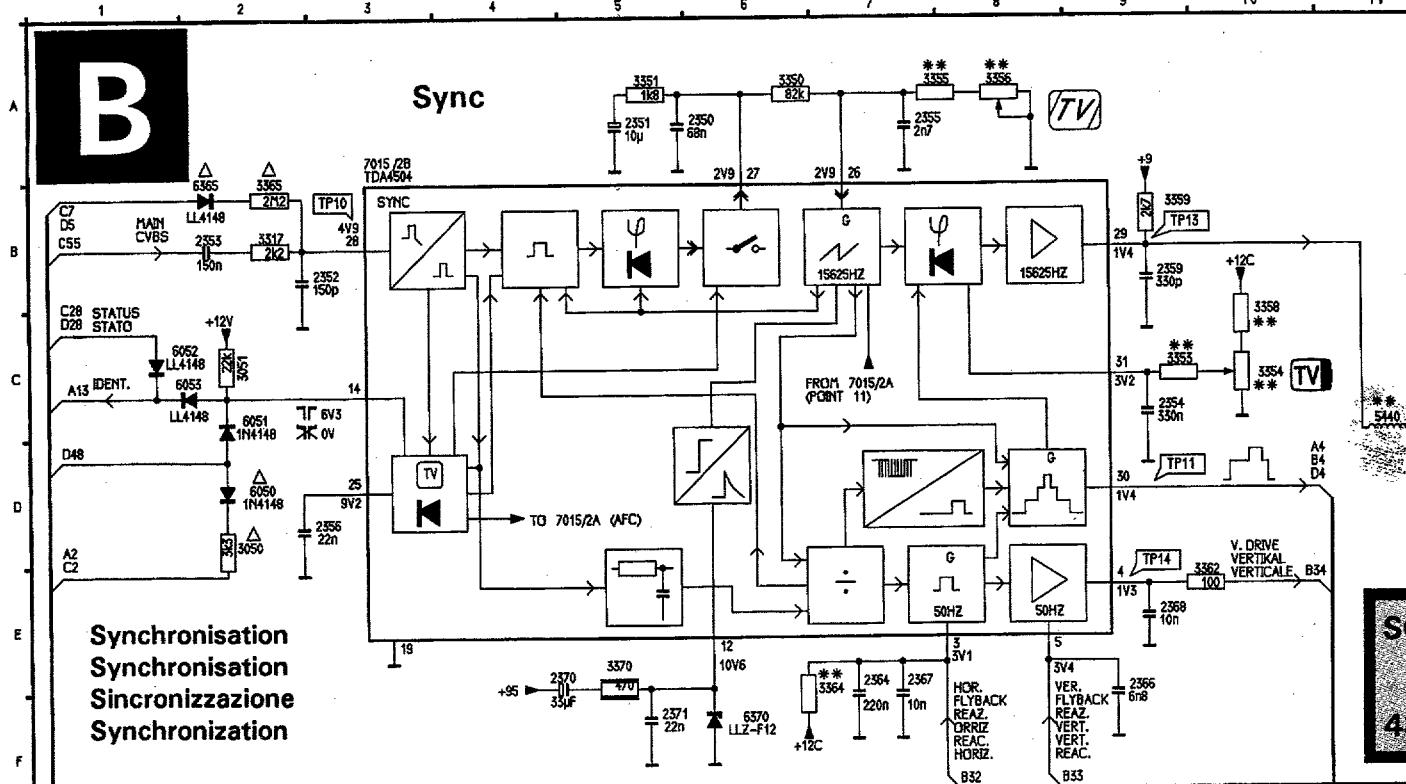
ANUBIS A

6.5

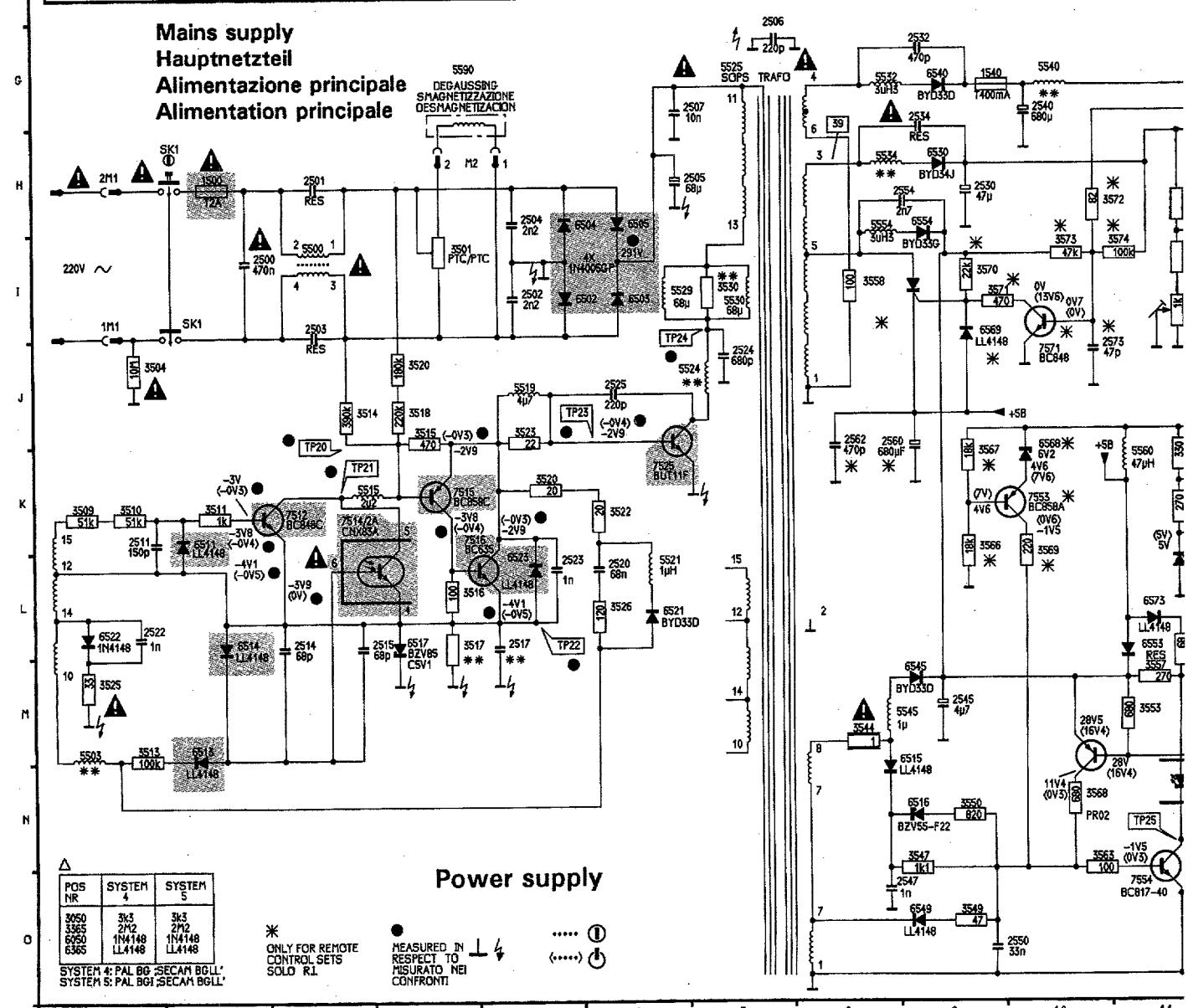


6.6 ANUBIS A





Mains supply
Hauptnetzteil
Alimentazione principale
Alimentation principale



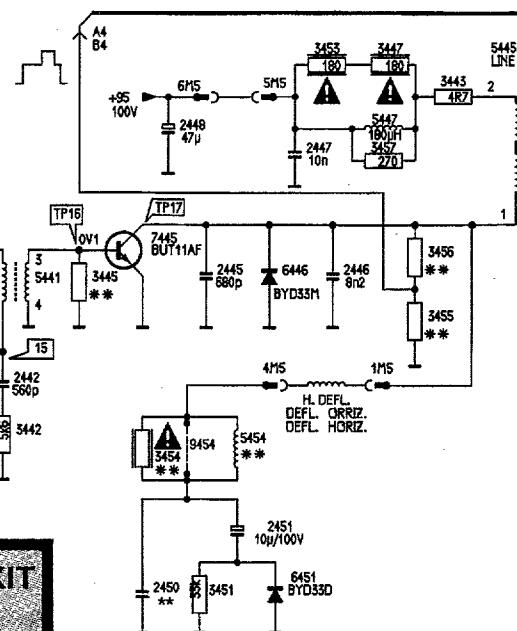
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12

13

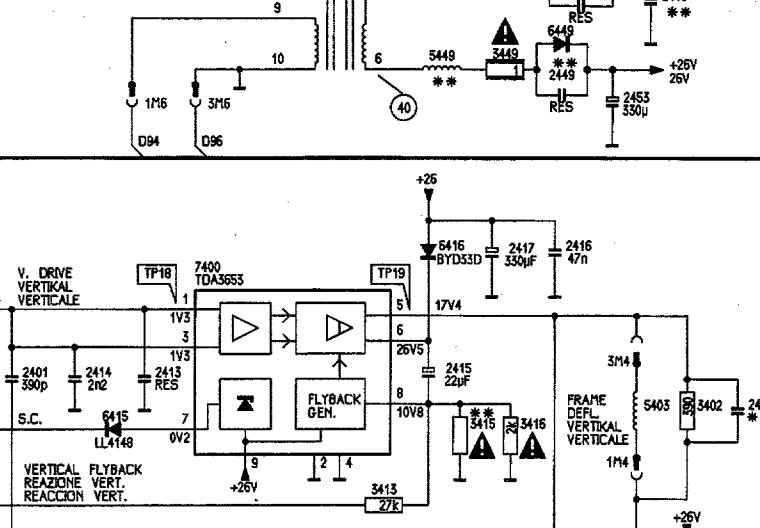
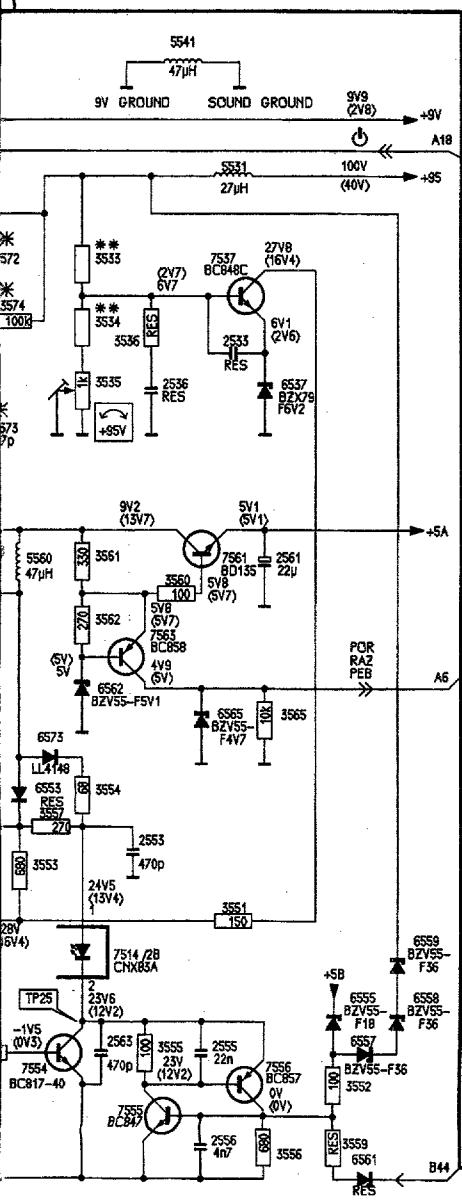
18

Horizontal
Orizzontale
Horizontal
Horizontal

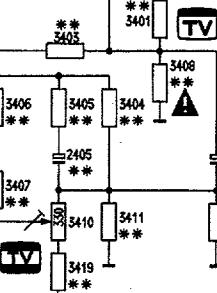


SOPS REPAIR KIT
SBC 7021
4822 210 20491

Deflection



Vertical
Vertikal
Verticale
Vertical



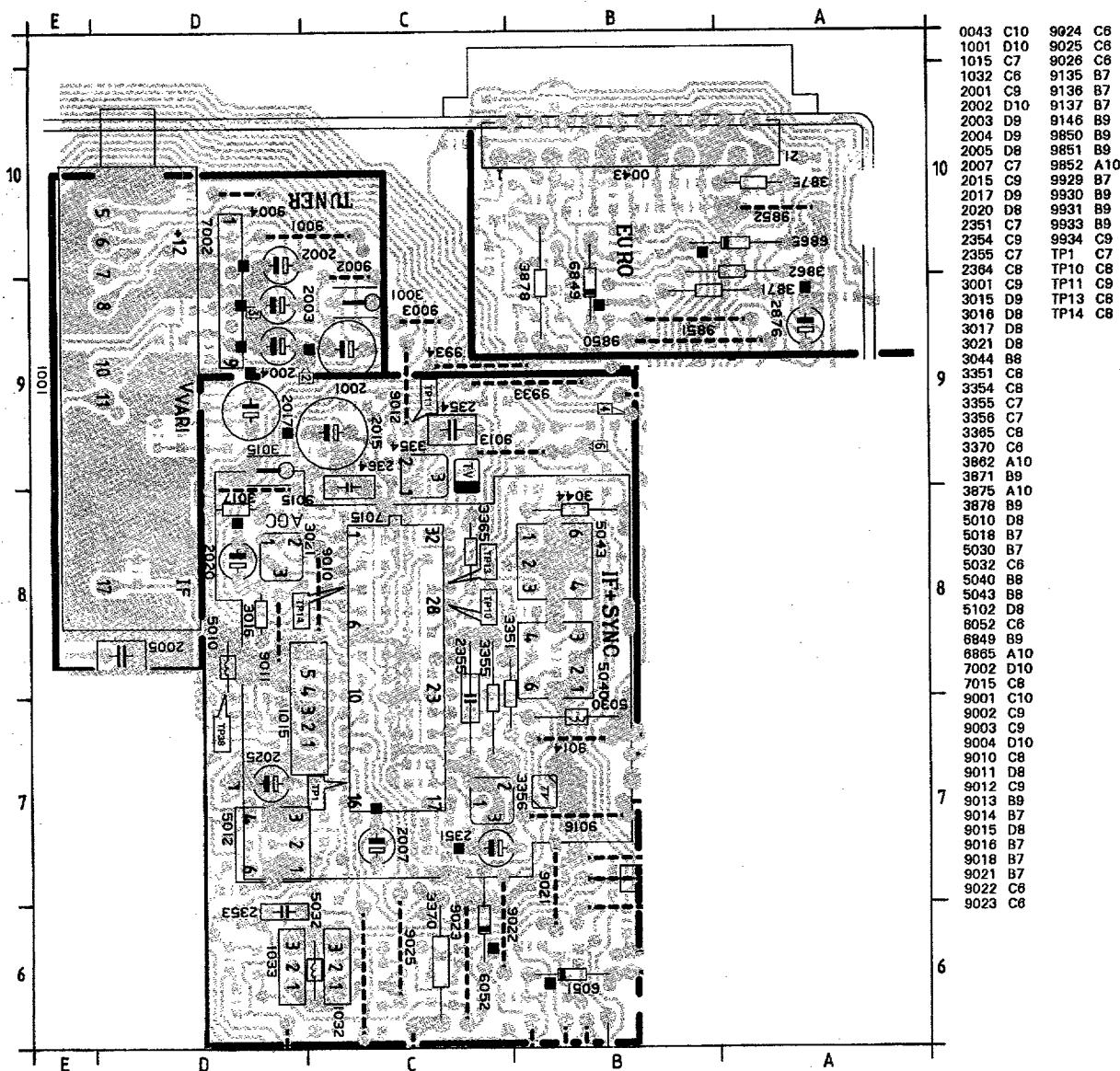
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2405	22p	22p	10p	3452	10R	10R	15R
2443	220u	220p	47p	3454	—	—	1K0
2460	560n	350n	470n	3455	18R	18K	12K
2517	680n	680n	11j	3458	430K	430K	350K
3553	47k	47k	62k	3460	11K	11K	10X
3554	100k	100k	22k	3470	487	487	482
3555	27k	27k	36k	3570	120	120	68R
3556	10k	10k	68k	3570	270	270	180
3558	100k	100k	43k	3573	4807	4807	47K
3559	350k	350k	350k	3574	933	933	313
3461	24k	24k	—	3540	22p	22p	JHP
3462	3k3	3k3	3k0	5443	16p	16p	16p
3464	220	220	443	5448	47pL	47pL	27U
3465	150	150	15R	5454	—	—	LIN.COR.
3466	12k	15k	18k	5470	10U	10U	JHP
3407	18k	22k	18k	5503	417	417	JHP
3408	22k	24k	680	5521	110	110	JHP
3411	483	3R6	2R0	5524	100	100	JHP
3412	483	2R7	2R7	5534	313	313	JHP
3415	2k0	2k0	1k6	5540	47U	47U	JHP
3419	JHP	JMP	100	6449	BYD350	BYD350	BYV26B

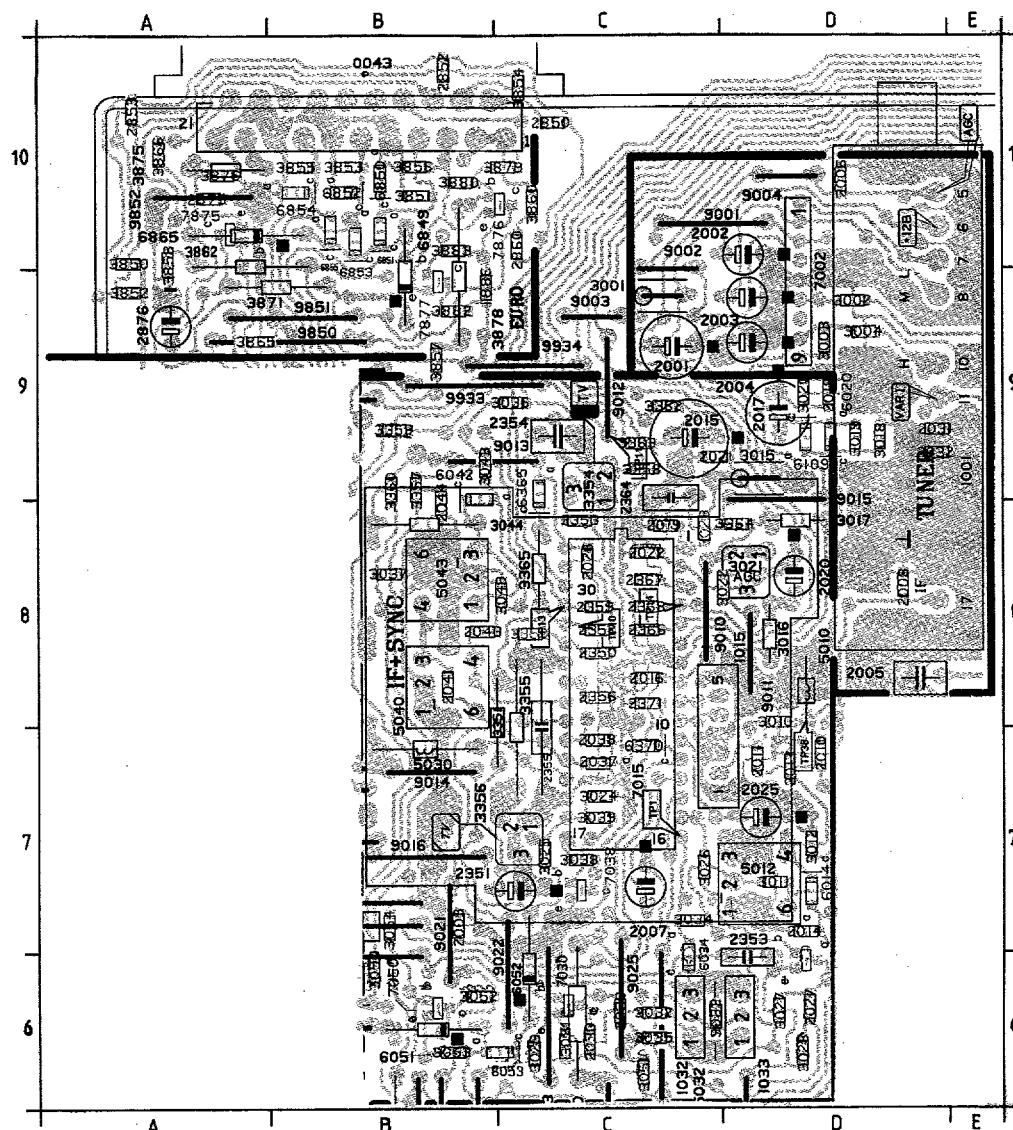
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3540	M9
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3543	M9
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3551	M12
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3553	M11
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3557	O12
3558	O12
3559	O13
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3563	K11
3564	K11
3565	L13
3566	L13
3567	K12
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3569	L10
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3581	A17
3582	A16
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3593	K3
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3599	J7
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3601	I17
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3607	G12
3608	G12
3609	G12
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3612	C2
3613	C2
3614	C2
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3618	I18
3619	I18
3620	I18
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3623	D19
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Tuner IF ZF FI Source selection

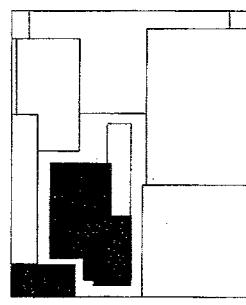
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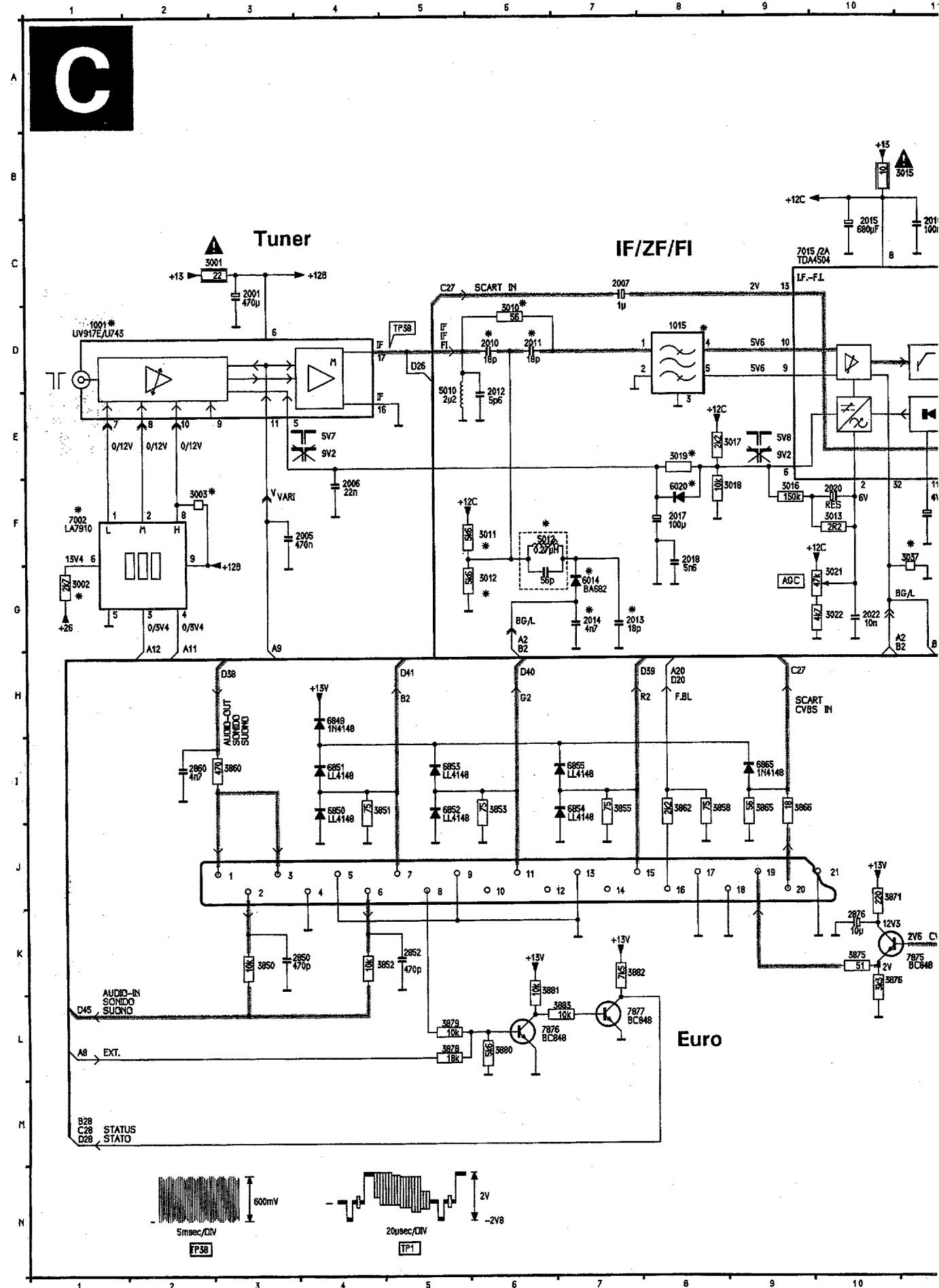
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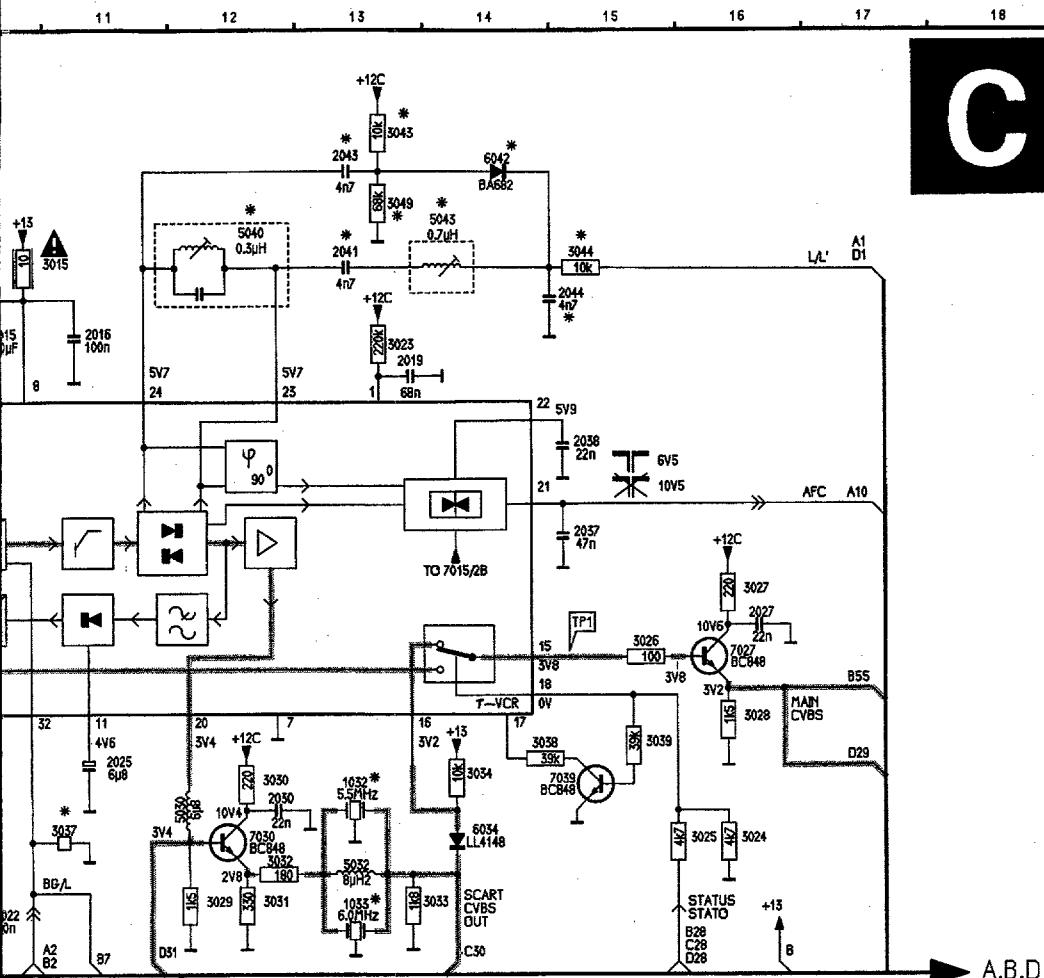




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1001	D10	3023	C8	5043	B8
1015	C7	3024	C7	5102	D8
1032	C6	3025	C7	6019	D9
1033	D8	3026	C7	6020	D9
2001	C9	3029	C6	6034	C8
2002	D10	3030	C6	6042	B8
2003	D9	3031	C6	6051	B6
2004	D9	3032	C6	6052	C6
2005	D8	3033	C6	6053	C6
2006	D10	3034	C7	6365	C8
2007	C7	3035	C8	6370	C7
2008	D8	3036	C9	6849	B9
2009	B7	3037	B8	6850	B10
2015	C9	3038	C7	6851	B10
2016	C8	3039	C7	6852	B10
2017	D9	3043	B9	6853	B10
2018	D9	3044	B8	6854	B10
2019	C8	3049	C8	6855	B10
2020	D8	3051	C6	6865	A10
2021	C9	3054	B7	7002	D10
2022	C8	3350	C8	7015	C8
2028	C8	3351	C8	7030	C6
2030	C8	3353	C8	7038	C7
2037	C7	3354	C8	7675	A10
2038	C7	3355	C7	7676	C10
2041	B8	3356	C7	7877	B9
2043	B8	3357	B9	9001	C10
2044	B8	3358	C9	9002	C9
2101	D8	3359	B9	9003	C9
2350	C8	3360	B9	9004	D10
2351	C7	3362	C9	9010	C8
2352	C8	3363	C9	9011	D8
2353	D6	3364	D8	9012	C9
2354	C9	3365	C8	9013	B9
2355	C7	3370	C6	9014	B7
2358	C8	3850	A10	9015	D8
2359	C8	3851	B10	9016	B7
2364	C8	3853	B10	9021	B7
2366	C8	3854	C10	9022	C8
2367	C8	3855	B10	9023	C8
2368	C8	3856	B10	9024	C6
2371	C8	3857	B9	9025	C6
2850	C10	3858	A10	9028	C6
2852	B10	3860	C10	9850	B9
2853	A10	3862	A10	9851	B9
2866	C10	3868	A10	9852	A10
2876	A9	3871	B9	9933	B9
2875	A10	3875	A10	9934	C9
3001	C9	3876	A10	TP1	C7
3002	D9	3878	B9	TP10	C8
3003	D9	3879	C10	TP11	C9
3004	D9	3880	B10	TP13	C8
3015	D9	3881	B9	TP14	C8
3016	D8	3882	B9		
3017	D8	3883	B10		
3018	D9	3902	B9		
3019	D9	5010	D8		
3020	D9	5030	B7		
3021	D8	5032	C6		







Source selection video

Bildquellenwahl

Selezione sorgenti dell' immagine

Sélection source image

POS NR	SYSTEM 1	SYSTEM 2	SYSTEM 3	SYSTEM 4	SYSTEM 5
1001	UV917	U745	UV917	UV917	UV917
1015	OFWG1951	OFWG1951	OFWG2950	OFWG3950	OFWG3950
1032	5.5MHz	-	5.5MHz	5.5MHz	5.5MHz
1035	-	6.0MHz	-	-	6.0MHz
2010	-	-	-	18p	18p
2011	-	-	-	18p	18p
2013	-	-	-	18p	18p
2014	-	-	-	18p	18p
2025	-	-	-	22n	22n
2041	-	-	-	40z	40z
2043	-	-	-	40z	40z
2044	-	-	-	40z	40z
3002	2k	-	2k	2k	2k
3003	-	JMP	-	-	-
3010	JMP	JMP	JMP	5k6	5k6
3011	-	-	-	5k6	5k6
3012	-	-	-	5k6	5k6
3019	JMP	JMP	JMP	JMP	JMP
3036	-	-	-	-	-
3037	JMP	JMP	JMP	-	-
3043	-	-	-	10k	10k
3044	-	-	-	10k	10k
5012	-	-	-	68k	68k
5040	0.19uH	0.19uH	0.19uH	0.28uH	0.28uH
5043	-	-	-	0.30uH	0.30uH
6014	-	-	-	0.70uH	0.70uH
6020	-	-	-	BA682	BA682
6042	-	-	-	L1Z-C2V4	L1Z-C2V4
7002	LA7910	-	LA7910	BA682	BA682
				LA7910	LA7910

SYSTEM 1: PAL BG
SYSTEM 2: PAL I
SYSTEM 3: PAL BG; SECAM BGDK
SYSTEM 4: PAL BG; SECAM BGLL'
SYSTEM 5: PAL BG; SECAM BGLL'

ESV.00345
T28/123

CS 55 723

Video

Sound

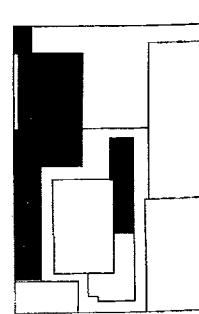
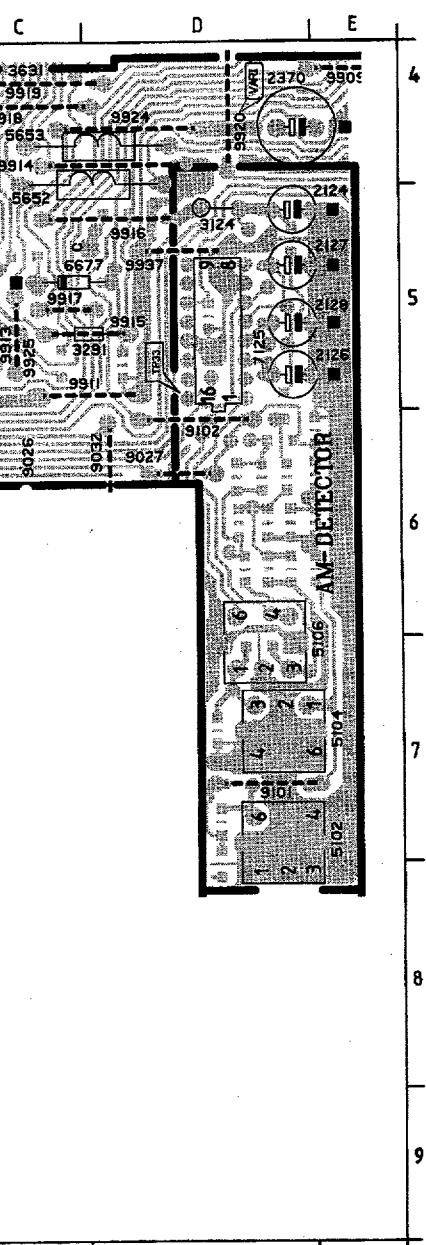
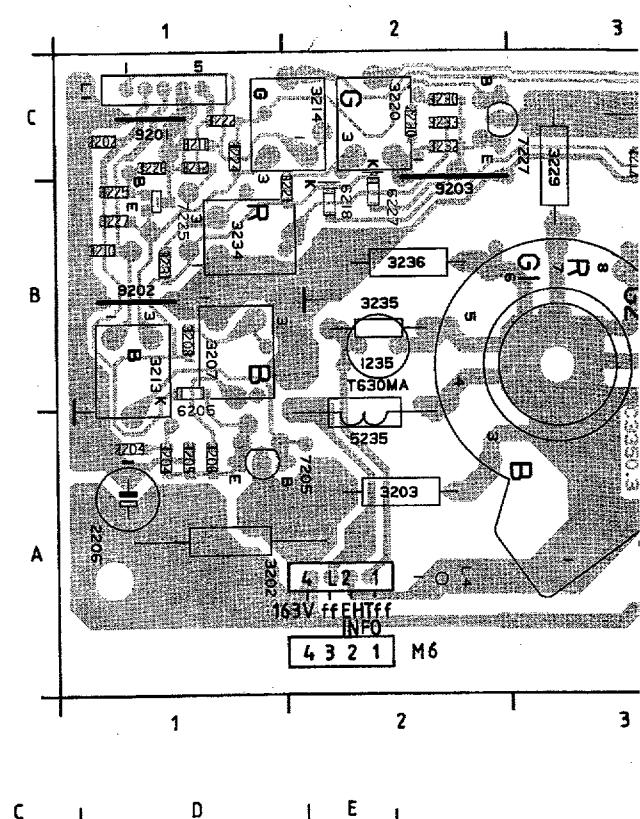
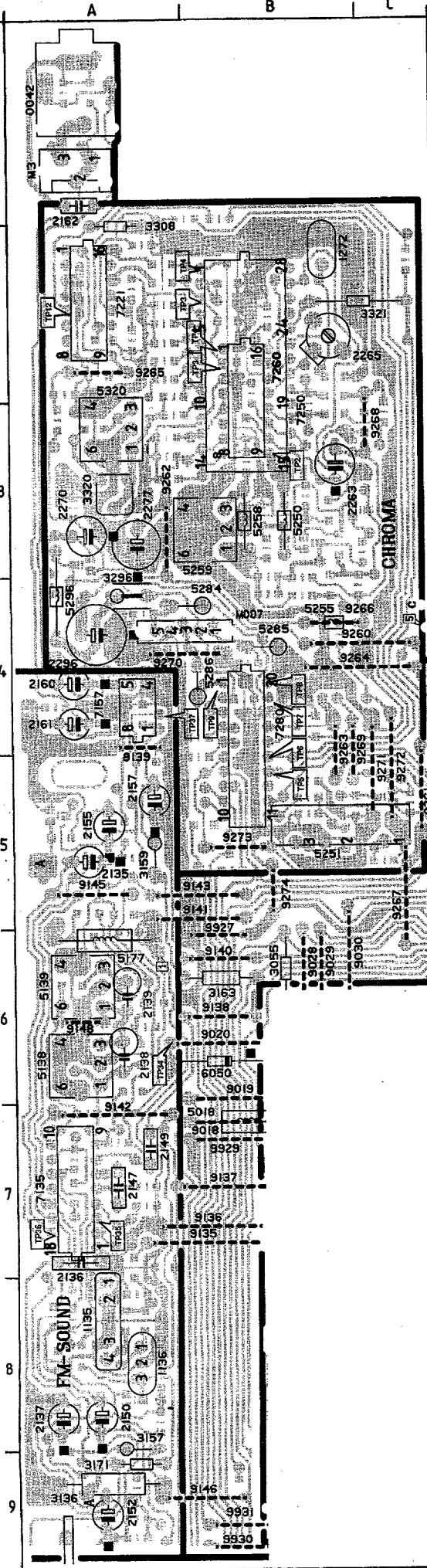
Ton

Son

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6.13

0042	A1	9281	C5
1033	D6	9282	A3
1135	A8	9283	B4
1136	A8	9284	B4
1272	Z2	9285	A2
1685	A1	9286	B4
2025	D7	9287	C5
2124	D5	9288	C3
2128	D5	9289	B5
2127	D5	9270	A4
2128	D5	9271	C5
2135	A5	9272	C5
2137	A8	9273	B5
2138	A6	9274	B5
2138	A6	9602	C4
2147	A7	9618	C2
2149	A7	9911	D5
2150	A8	9912	C5
2152	A9	9913	C5
2155	A5	9915	D5
2157	A5	9916	B4
2160	A4	9917	C5
2161	A4	9918	C4
2162	A1	9919	C5
2283	B3	9925	C5
2685	B2	9927	B6
2270	A3	9929	B7
2277	A3	9932	C5
2290	A4	9937	D5
2353	D6	M007	A4
2623	C3	M3	A1
2624	C3	TP12	A2
2629	C3	TP2	B3
2630	C3	TP3	B2
2878	A9	TP34	A6
3055	B6	TP35	A7
3124	D5	TP36	A7
3138	A9	TP37	B2
3157	A8	TP4	B2
3159	A5	TP5	B5
3163	B6	TP6	B5
3171	A9	TP7	B4
3291	D5	TP8	B4
3296	A4	TP9	B4
3308	A2		
3320	A3		
3321	C2		
3606	C4		
3678	C2		
3622	C3		
3623	C2		
3626	C3		
3631	C4		
3652	C3		
3653	C3		
5012	D7		
5018	B7		
5030	B7		
5104	D7		
5106	D7		
5138	A6		
5139	A6		
5177	A6		
5250	B3		
5251	C5		
5255	B4		
5258	B3		
5259	B3		
5284	B4		
5285	B4		
5286	B4		
5296	A4		
5320	A3		
5652	D5		
6050	B6		
6051	B6		
6677	C5		
7125	D5		
7135	A7		
7157	A4		
7221	A2		
7250	B2		
7280	B4		
9014	B7		
9016	B7		
9018	B7		
9019	B6		
9020	B6		
9021	B7		
9027	D6		
9028	B6		
9029	B6		
9030	B6		
9032	D6		
9101	D7		
9102	D6		
9135	B7		
9136	B7		
9137	B7		
9138	B6		
9139	A4		
9140	B6		
9141	B5		
9142	A7		
9143	B5		
9145	A5		
9148	A6		
9260	B4		

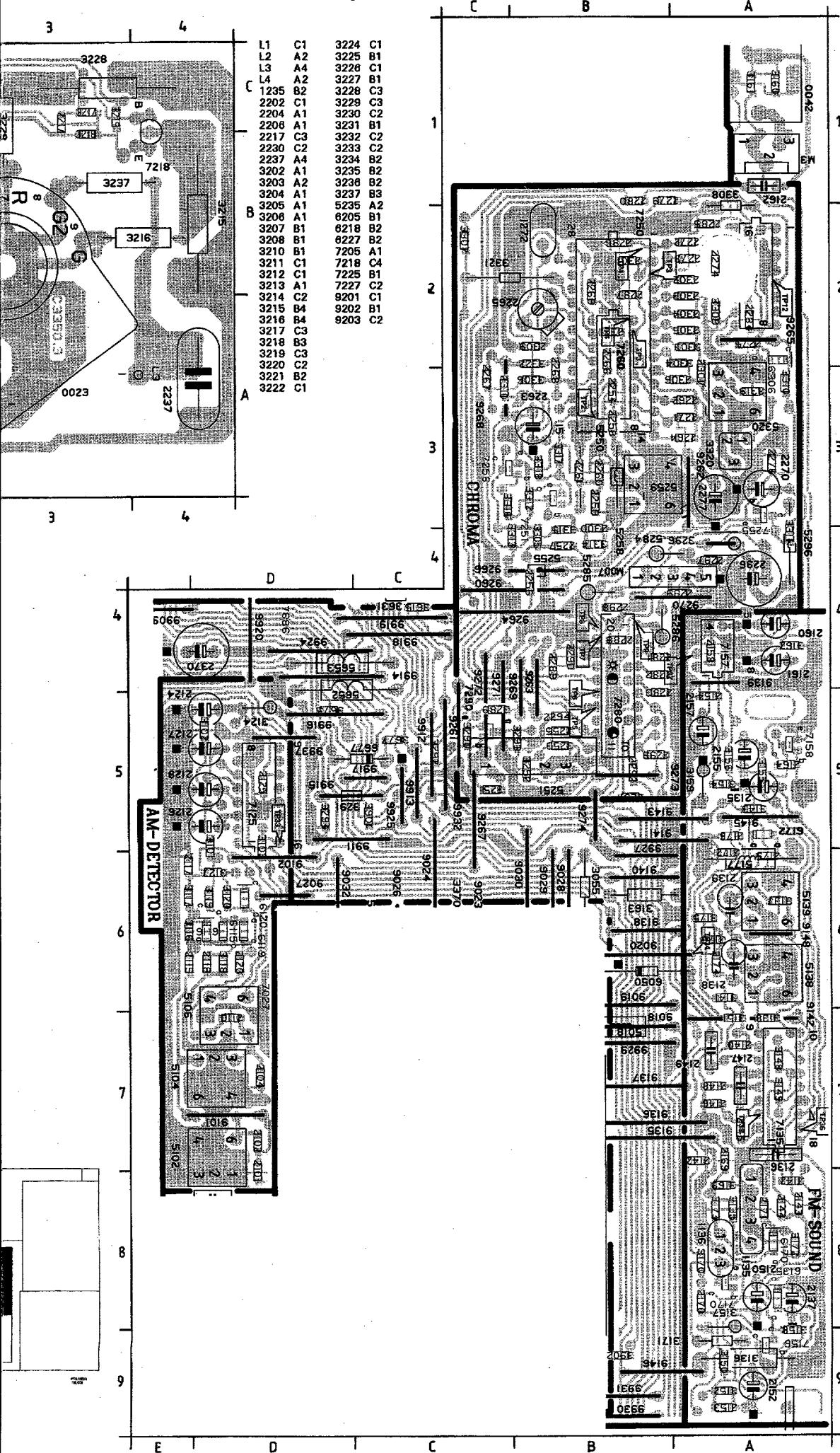


6.14 | ANUBIS A

CRT panel

Bildröhren platte

Platine TRC



Electrical adjustments

1. Adjustments on the main panel (Fig. 7)

1.1 +100V power supply voltage

Connect a voltmeter (DC) between pin 6 of connector M5 and ground. Adjust potentiometer 3535 for a voltage of +100V (14"-17") or +92,5V (21").

1.2 Horizontal synchronization

Interconnect pins 8 and 28 of IC7015.

Apply an aerial signal and tune the set.

Adjust potentiometer 3356 until the picture is straight. Remove the interconnection.

1.3 Horizontal centring

Is adjusted with potentiometer 3354.

1.4 Vertical centring

Can be adjusted by eventually mounting one of the resistors 3401 or 3408.

1.5 Picture height

Is adjusted with potentiometer 3410.

1.6 Focussing

Is adjusted with the focussing potentiometer in the line output transformer (see Fig. 8).

1.7 IF filter for PAL/SECAM BGLL'- or PAL/SECAM BGLL'I sets

Connect a signal generator (e.g. PM 5326) via a condensator 5p6 to pin 17 of the tuner and adjust the frequency for 33.4 MHz. Connect an oscilloscope to pin 1 of filter 1015. Switch on the set and select system Europe via the system button on the set.

Adjust 5012 for a minimum amplitude.

1.8 AFC

a. Alignments for PAL/SECAM BGLL'- or PAL/SECAM BGLL'I sets

Connect a signal generator (e.g. PM 5326) as indicated in point 1.7 and adjust the frequency for 33.4 MHz. Tune the set in the VHF1 band at a tuning voltage of approx. 5V on pin 11 of the tuner. Select system France via the system button on the set. Connect a voltmeter to pin 21 of IC7015. Adjust 5040 for 6V (DC). Next adjust the frequency of the signal generator for 38,9 MHz. Select system Europe on the set. Adjust 5043 for 6V (DC).

b. Alignment for PAL BG-, PAL/SECAM BG-, PAL/SECAM BGDK- or PAL I sets

Connect a signal generator (e.g. PM 5326) as indicated in point 1.7 and adjust the frequency for 38,9 MHz (PAL I: 39,5MHz). Connect a voltmeter to pin 21 of IC7015. Adjust 5040 for 6V (DC).

1.9 RF AGC

If the picture of a strong local transmitter is reproduced distorted, adjust potentiometer 3021 until the picture is undistorted.

1.10 Chroma band

Connect a si 20 of the eu frequency of euro connec IC7250 (+1 of IC7250. Adjust 5255 Remove the

1.11 Chroma sub

Apply a PAL 11 of IC726 (TDA4650) pattern on t Remove the

1.12 SECAM den

Apply a SEC oscilloscope reading. Connect the Adjust 3321

1.13 The FM sou

a. General adj

Apply a PAI

signal whos

a frequency

Set the gen

Tune the se

Europe.

Adjust 513

b. Additional a

After the ge

generator ir

Adjust 513

1.14 The AM so

PAL/SECAM

Connect pin

+2V by m

Connect a

condensato

the frequen

signal with

Tune the s

France.

First adjust

adjust 510

Adjust the

30,9 MHz.

kHz.

Adjust 51C

Remove th

2. Adjustments on the picture tube panel (Fig. 9)

2.2 Grey scale
Apply a test pattern generator signal. Adjust contrast at minimum.

2.1 Cut-off points of picture tube

Adjust brightness until the DC voltage across potentiometer 3213 is 0V.

Adjust 3207, 3220 and 3234 for a black level of 125V on the collectors of transistors 7205, 7218 and 7227.

Adjust Vg2 potentiometer until the gun that first emits light is just no longer visible. Adjust the two other guns with the respective controls (3207, 3220 or 3234) until just no light will be visible.

Chroma band-pass filter for PAL/SECAM sets
Connect a signal generator (e.g. PM5326) to pin 20 of the euro connector and adjust it for a frequency of 4,286 MHz. Connect pin 8 of the euro connector and pin 27 of IC7250 to pin 13 of IC7250 (+12V). Connect an oscilloscope to pin 15 of IC7250.
Adjust 5259 for a maximum amplitude.
Remove the interconnections.

Chroma subcarrier oscillator

Apply a PAL colour-bar pattern. Interconnect pin 11 of IC7260 (TDA4510) or pin 17 of IC7250 (TDA4650) to ground. ~~Adjust 2265~~ so that colour pattern on the screen is practically stationary.
Remove the interconnection.

SECAM demodulators for PAL/SECAM sets

Apply a SECAM black pattern. Connect an oscilloscope to pin 1 of IC7250. Adjust 5320 for 0 reading.
Connect the oscilloscope to pin 3 of IC7250.
Adjust 3320 for 0 reading.

The FM sound section

General adjustments

Apply a PAL BG (PAL I for PAL I sets) generator signal whose sound carrier is (FM) modulated with a frequency of 1 kHz.
Set the generator to the mono mode.
Tune the set and select, if possible, system Europe.
Adjust 5138 for maximum sound output.

Additional adjustment for PAL/SECAM BGDK sets

After the general adjustment (see point a.) put the generator in SECAM DK position.
Adjust 5139 for maximum sound output.

The AM sound section for PAL/SECAM BGLL' or PAL/SECAM BGLL'I sets

Connect pin 3 of IC7125 to a fixed voltage level of +2V by means of an adjustable power supply.
Connect a signal generator (e.g. PM 5326) via a condensator 5p6 to pin 17 of the tuner and adjust the frequency for 32,4 MHz. Modulate (AM) the signal with 1 kHz.
Tune the set in the UHF band and select system France.

First adjust 5106 for maximum sound output. Next adjust 5104 for maximum sound output.
Adjust the frequency of the signal generator for 30,9 MHz. and modulate (AM) the signal with 1 kHz.
Adjust 5102 for minimum sound output.
Remove the power supply connection.

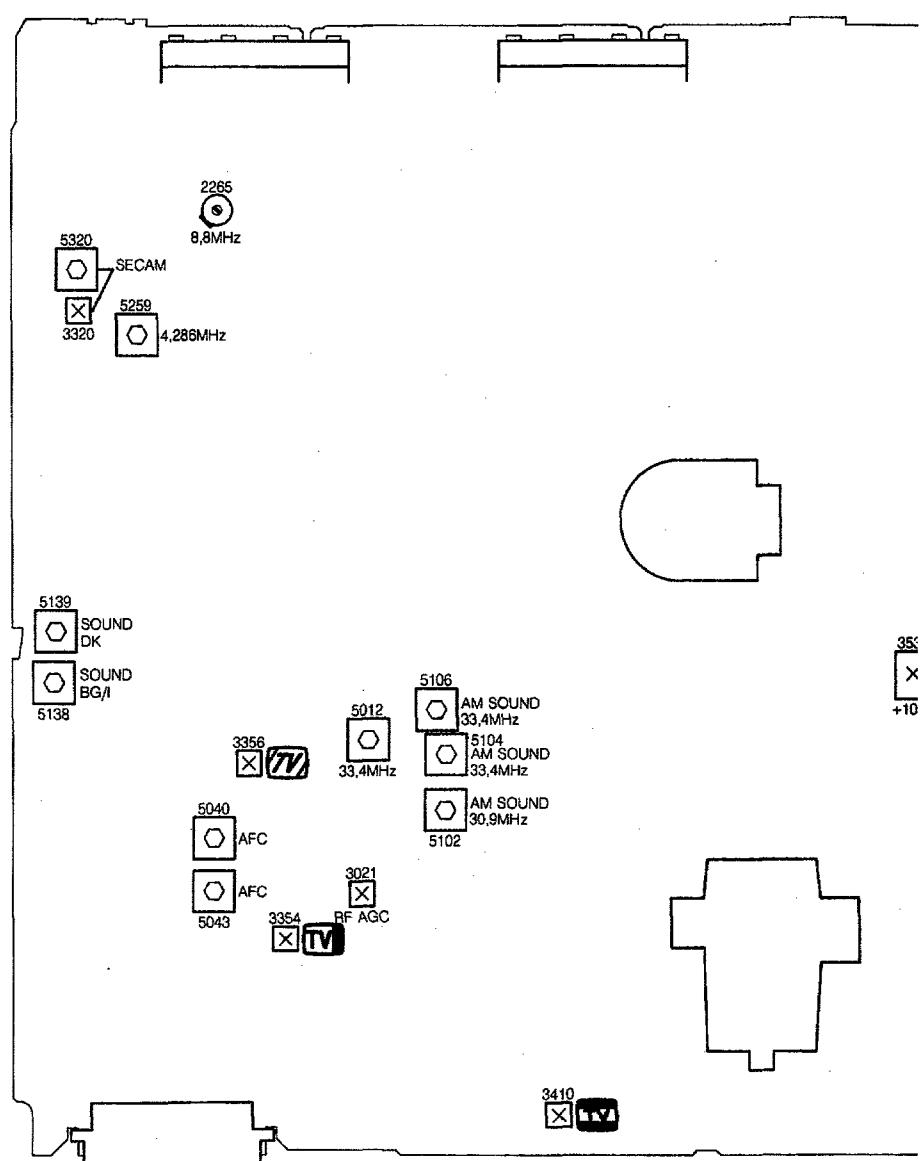


Fig. 7

Grey scale

Apply a test pattern signal and adjust the set for normal operation. Allow the set to warm up for about 10 minutes. Adjust 3213 and 3214 until the desired grey scale has been obtained.

ERROR MESSAGE	ERROR DESCRIPTION
Flashing LED	Internal μ C error
F2 + Flashing LED	EEPROM error

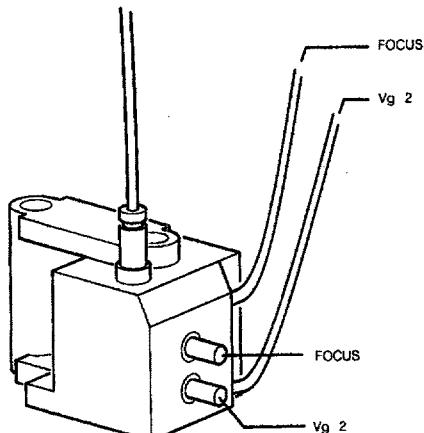
MDA.00633
CP90
T28/723

Fig. 8

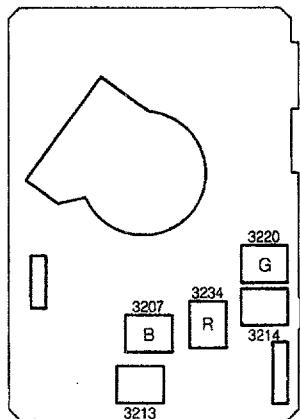
3535
 +100VMDA.02812
T28/036

Fig. 9

MDA.02811
T10/037

List of error messages

ERROR MESSAGE	ERROR DESCRIPTION	POSSIBLE DEFECTIVE COMPONENT
Flashing LED	Internal μ C error	IC7600
F2 + Flashing LED	EEPROM error	IC7685

5286	4822 157 60141	3,3µH	6521	4822 130 42488	BYD33D	7537	5322 130 60159	BC846B
5296	4822 157 51462	10µH	6522	4822 130 30621	1N4148	7552	4822 130 42155	BC327A
5320	4822 157 52808	10µH	6523	4822 130 80446	LL4148	7553	5322 130 42012	BC858A
5320	4822 157 52808	10µH	6530	4822 130 82033	BYD34J	7554	4822 130 42032	BC337A
5441	4822 146 21116	LOT DRIVER	6537	4822 130 34167	BZX79-F6V2	7555	5322 130 60159	BC846
5445	4822 140 10406	LOT AT2079/40	6540	4822 130 42488	BYD33D	7556	4822 130 60136	BC856
5447	4822 157 62766	262LYF-0095K	6545	4822 130 42488	BYD33D	7561	4822 130 40823	BD135
5449	4822 158 10551	27µH	6549	4822 130 80446	LL4148	7563	5322 130 42012	BC858
5452	4822 157 51157	3,3µH	6554	4822 130 42489	BYD33G	7571	4822 130 61207	BC848
5453	4822 157 51462	10µH	6555	4822 130 82305	LLZ-F18	7600	4822 209 63948	TMP47C434N3122
5454	4822 156 21332	LINEARITY COIL	6557	4822 130 80887	LLZ-F36	7605	4822 209 73852	PMBT2369
5500	4822 212 22978	MAINSFILTER	6558	4822 130 80887	LLZ-F36	7654	4822 130 61207	BC848
5515	4822 157 50963	2,2µH	6559	4822 130 80887	LLZ-F36	7658	5322 130 42136	BC848C
5525	4822 148 81121	SOP8 TRF	6562	4822 130 80905	LLZ-F5V1	7665	4822 130 61207	BC848
5529	4822 157 63411	68µH	6565	4822 130 81252	LLZ-F4V7	7670	4822 130 61207	BC848
5530	4822 157 63411	68µH	6568	4822 130 81147	LLZ-F6V2	7672	4822 130 61207	BC848
5531	4822 158 10551	27µH	6569	4822 130 80446	LL4148	7674	4822 130 61207	BC848
5532	4822 157 51157	3,3µH	6570	4822 130 20245	SFOR5D43	7685	4822 208 62098	ST24C02AB1
5541	4822 156 20966	47 µH	6573	4822 130 80446	LL4148	7686	4822 130 61207	BC848
5545	4822 157 51195	1 µH	6602	4822 130 82037	HZT33	7875	4822 130 61207	BC848
5554	4822 157 51157	3,3µH	6603	4822 130 80446	LL4148	7876	4822 130 61207	BC848
5560	4822 157 51462	10µH	6604	4822 130 80446	LL4148	7877	4822 130 61207	BC848
5601	4822 157 51462	10µH	6605	4822 130 80446	LL4148			
5652	4822 157 51462	10µH	6658	4822 130 80446	LL4148			
5653	4822 157 51462	10µH	6679	4822 130 80446	LL4148			
5677	4822 157 53906	47µH	6849	4822 130 30621	1N4148			
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6014	4822 130 80888	BA682	6850	4822 130 80446	LL4148			
6020	4822 130 81223	LLZ-C2V4	6851	4822 130 80446	LL4148			
6034	4822 130 80446	LL4148	6852	4822 130 80446	LL4148			
6042	4822 130 80888	BA682	6853	4822 130 80446	LL4148			
6050	4822 130 30621	1N4148	6854	4822 130 80446	LL4148			
6051	4822 130 30621	1N4148	<hr/>					
6052	4822 130 30621	1N4148	7002	4822 209 10892	LA7910			
6053	4822 130 80446	LL4148	7015	4822 209 63107	TDA4504B/N1B			
6115	4822 130 80888	BA682	7027	4822 130 61207	BC848			
6116	4822 130 80888	BA682	7030	4822 130 61207	BC848			
6119	4822 130 80888	BA682	7038	4822 130 61207	BC848			
6120	4822 130 80888	BA682	7125	4822 209 63105	TDA3843/V2			
6135	4822 130 80883	LLZ-C4V7	7135	4822 209 30278	TDA3827/V3			
6170	4822 130 80888	BA682	7156	4822 130 61207	BC848			
6172	4822 130 80888	BA682	7157	4822 209 60956	TDA7052/N1			
6205	4822 130 80446	BAS32L	7158	4822 130 61207	BC848			
6218	4822 130 80446	BAS32L	7170	4822 130 61207	BC848			
6227	4822 130 80446	BAS32L	7205	4822 130 41782	BF422			
6289	4822 130 80446	BAS32L	7218	4822 130 41782	BF422			
6306	4822 130 80954	LLZ-C5V6	7221	4822 209 63108	TDA4660/V2			
6370	4822 130 82304	LLZ-F12	7225	5322 130 42012	BC858			
6415	4822 130 80446	LL4148	7227	4822 130 41782	BF422			
6416	4822 130 42488	BYD33D	7250	4822 209 30011	TDA4650/V4			
6443	5322 130 31938	BYV27-200	7250	4822 209 30011	TDA4650/V4			
6446	4822 130 32896	BYD33M	7251	4822 130 61207	BC848			
6449	5322 130 32967	BYV26B	7251	4822 130 61207	BC848			
6451	4822 130 42488	BYD33D	7255	4822 130 42696	BC818-25			
6452	4822 130 42488	BYD33D	7256	4822 130 61207	BC848			
6470	4822 130 42488	BYD33D	7256	4822 130 61207	BC848			
6502	4822 130 81497	1N4005GP	7280	4822 209 63104	TDA3504/V1			
6503	4822 130 81497	1N4005GP	7290	4822 130 42134	BC858BR			
6504	4822 130 81497	1N4005GP	7400	4822 209 60955	TDA3653B/N1			
6505	4822 130 81497	1N4005GP	7440	4822 130 41782	BF422			
6511	4822 130 80446	LL4148	7445	4822 130 42679	BUT11AF			
6513	4822 130 80446	LL4148	7512	5322 130 42136	BC848C			
6514	4822 130 80446	LL4148	7514	4822 130 82034	CNX83A			
6515	4822 130 80446	LL4148	7515	4822 130 42513	BC858C			
6516	4822 130 80886	LLZ-F22	7516	5322 130 44349	BC635			
6517	4822 130 31456	BZV85-C5V1	7525	4822 130 42679	BUT11AF			