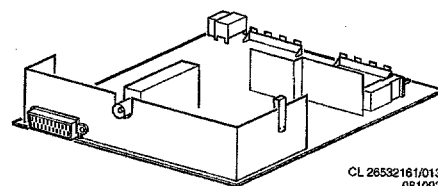


Service
Service
Service

Anubis A

AC



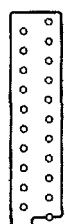
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Service Manual

Table of contents	Page
2. Technical specification and connection facilities	2.1
3. Warnings and remarks	3.1
4. Mechanical instructions	4.1
5. Detailed blockdiagram for fault diagnosis	5.1
6. Electrical diagrams and print lay-outs	
Controls (diagram A)	6.1
Power supply and synchronisation (diagram B)	6.9
Tuner, IF and source selection (diagram C)	6.12
Video, sound and CRT panel (diagram D)	6.15
Teletext module (Diagram E)	6.21
7. Electrical adjustments	7.1
8. List of error messages	8.1
9. Operating instructions	9.1
10. Spare parts list	10.1

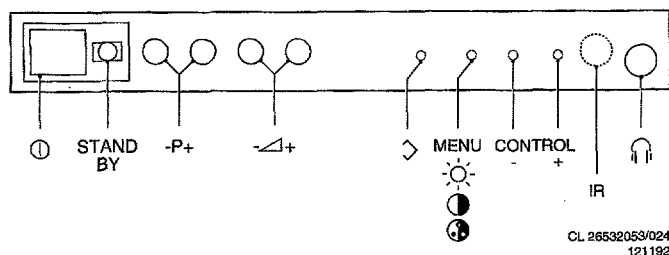
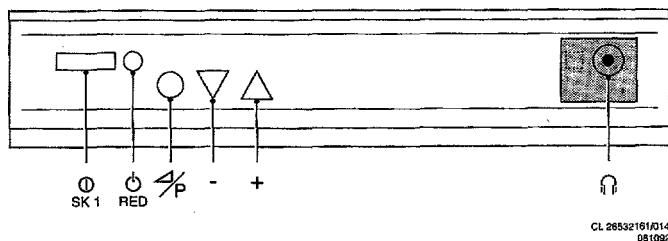
Mains voltage	: 220-240 V $\pm$ 10 %
	: 50 Hz $\pm$ 5 %
Aerial input impedance	: 75 Ω - coax
Minimum aerial input VHF	: 30 μ V
Minimum aerial input UHF	: 40 μ V
Maximum aerial input	: 180 mV
Pull-in range colour sync	: $\pm$ 300 Hz
Pull-in range horizontal sync	: $\pm$ 600 Hz
Pull-in range vertical sync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

Euroconnector:

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

CINCH:

- $\odot$ CINCH Audio $\rightarrow$ (0,2V_{eff} - 2 V_{eff} $\geq$ 10k Ω)
- $\odot$ CINCH CVBS $\rightarrow$ (1V_{pp}/75 Ω)

Head phone:8 - 600 Ω /15mW**8 local controls version:****3 local controls version:**

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 **counterclockwise** 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 **counterclockwise** 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).

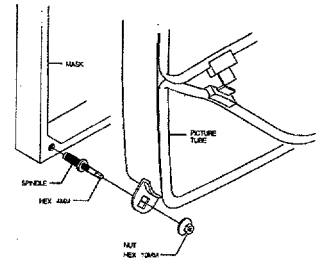


Fig. 6

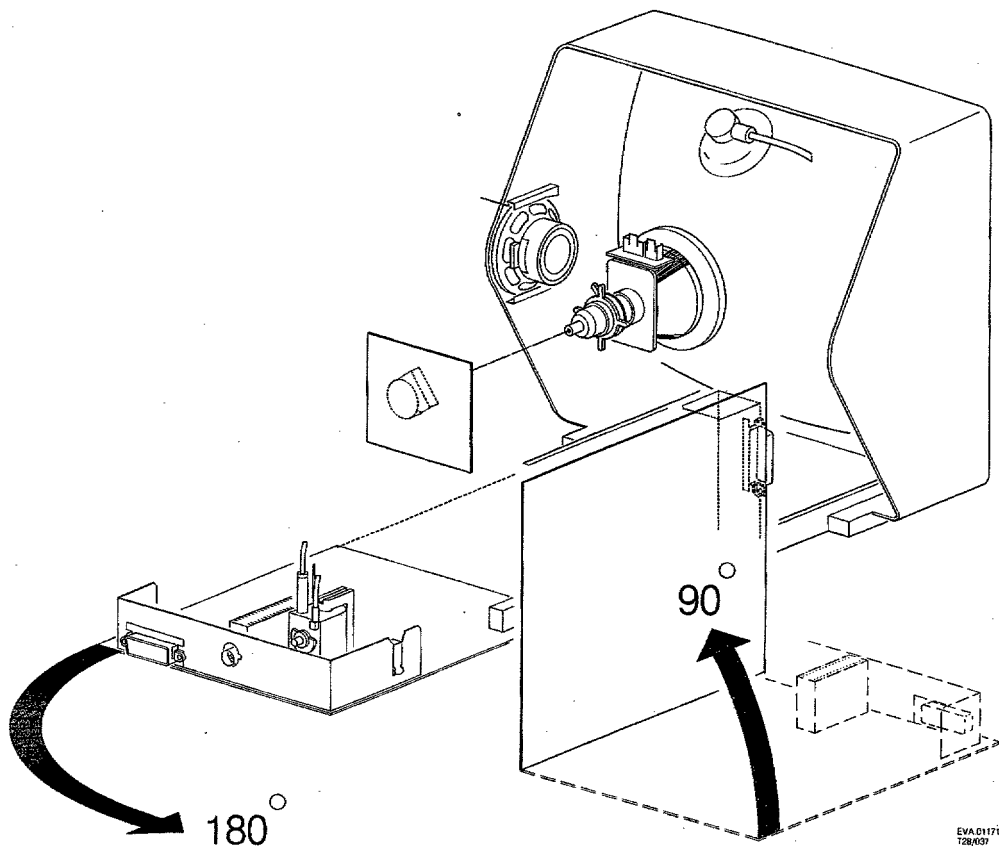
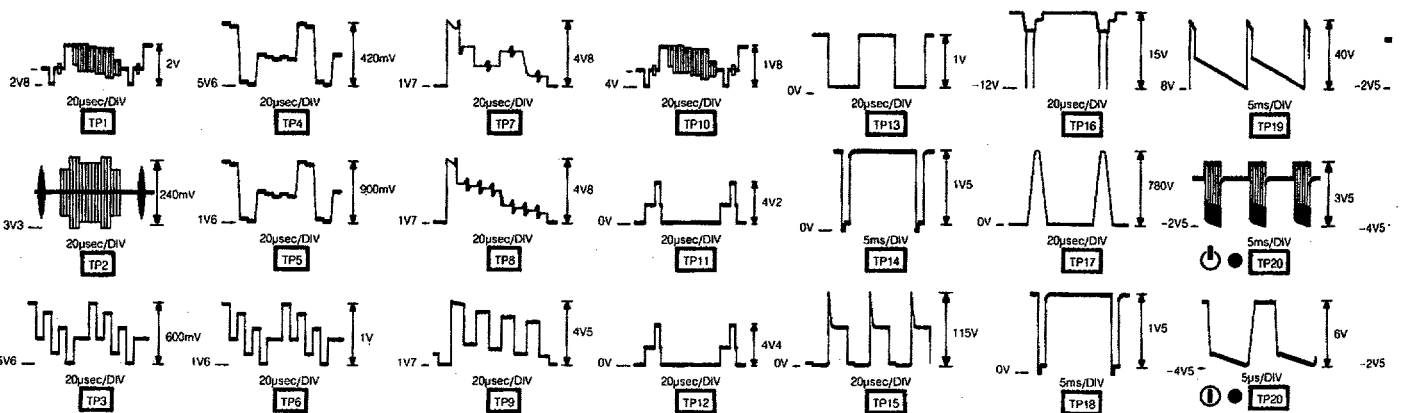
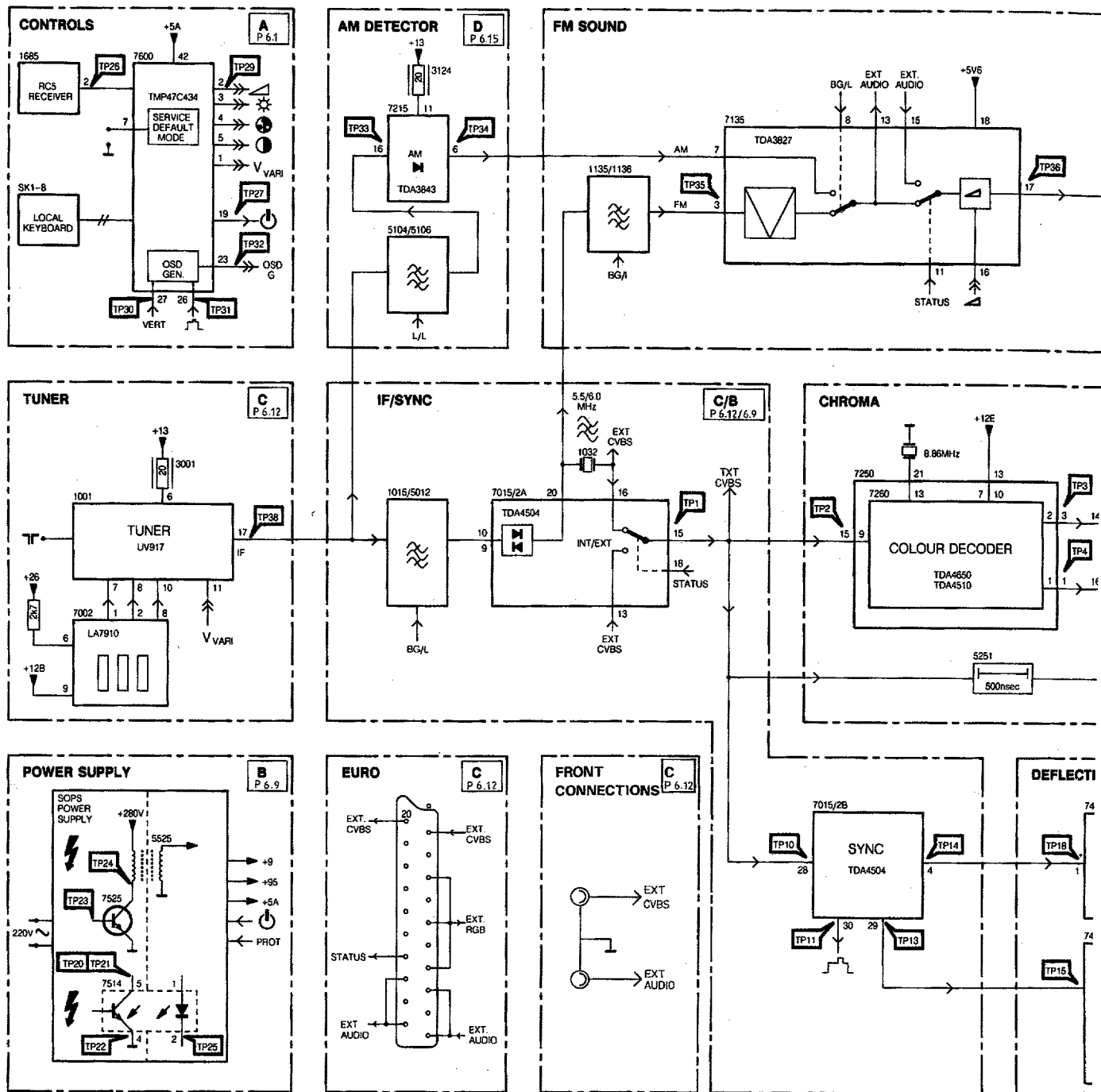
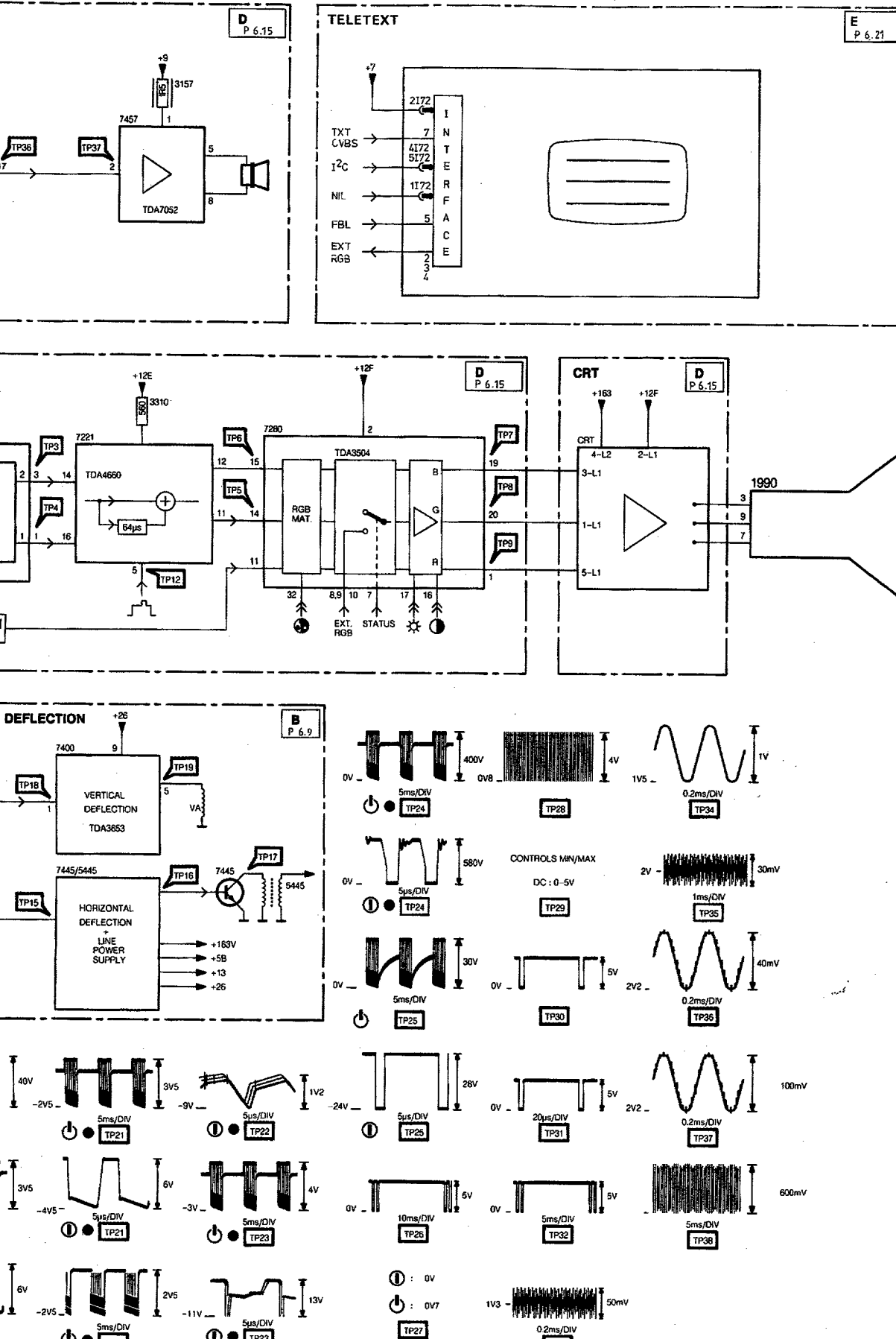
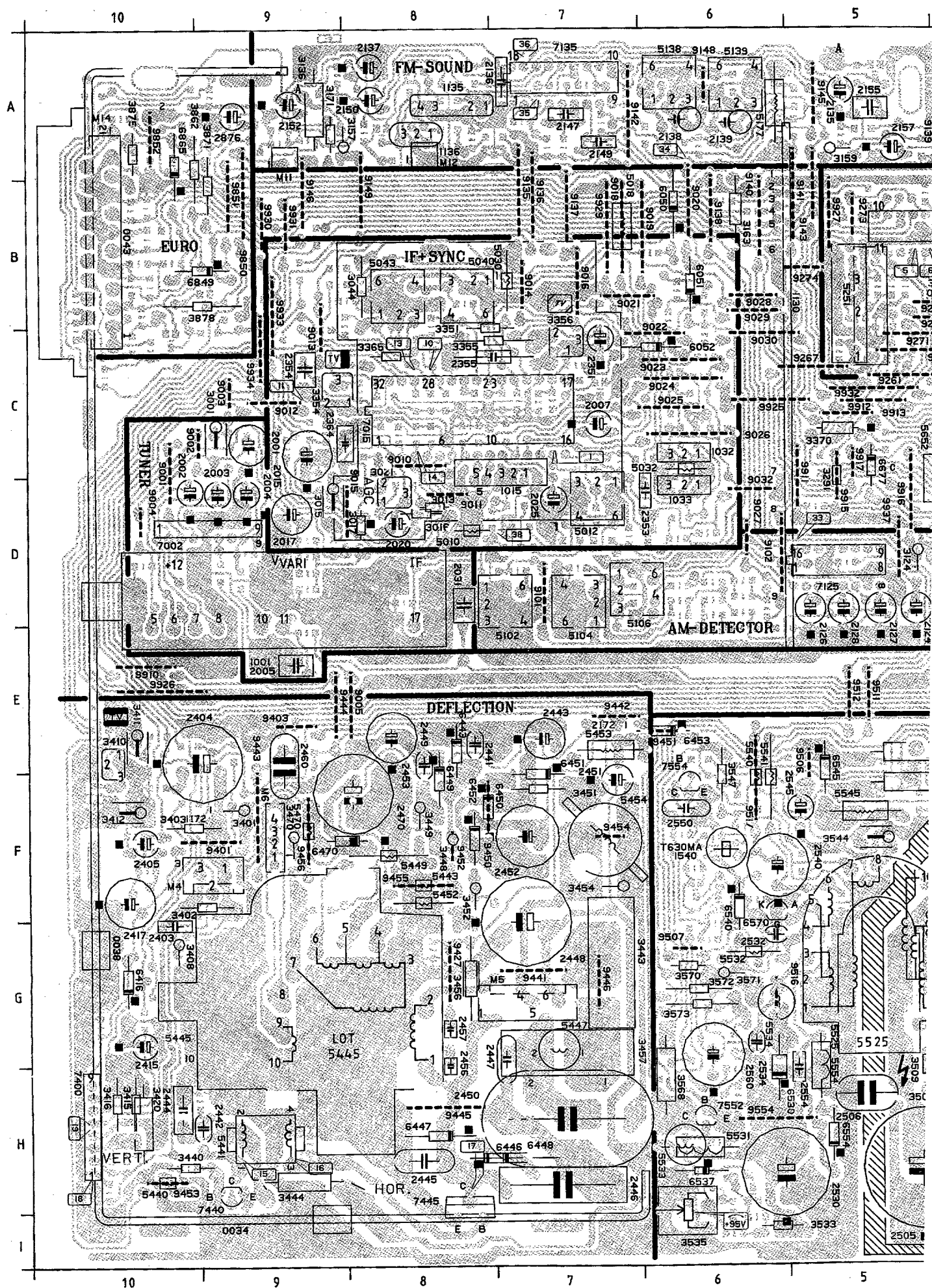


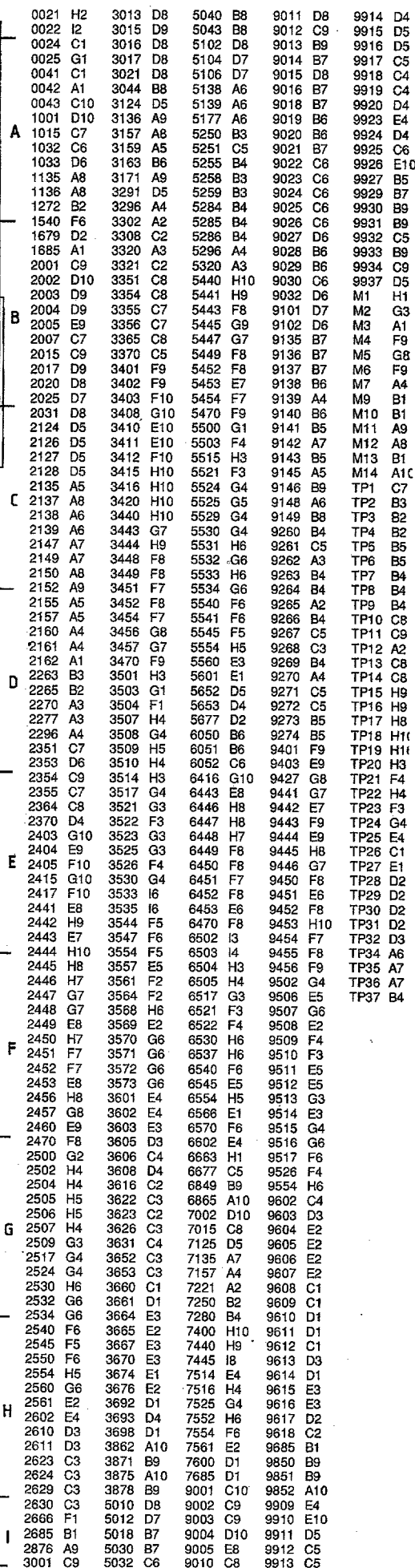
Fig. 5

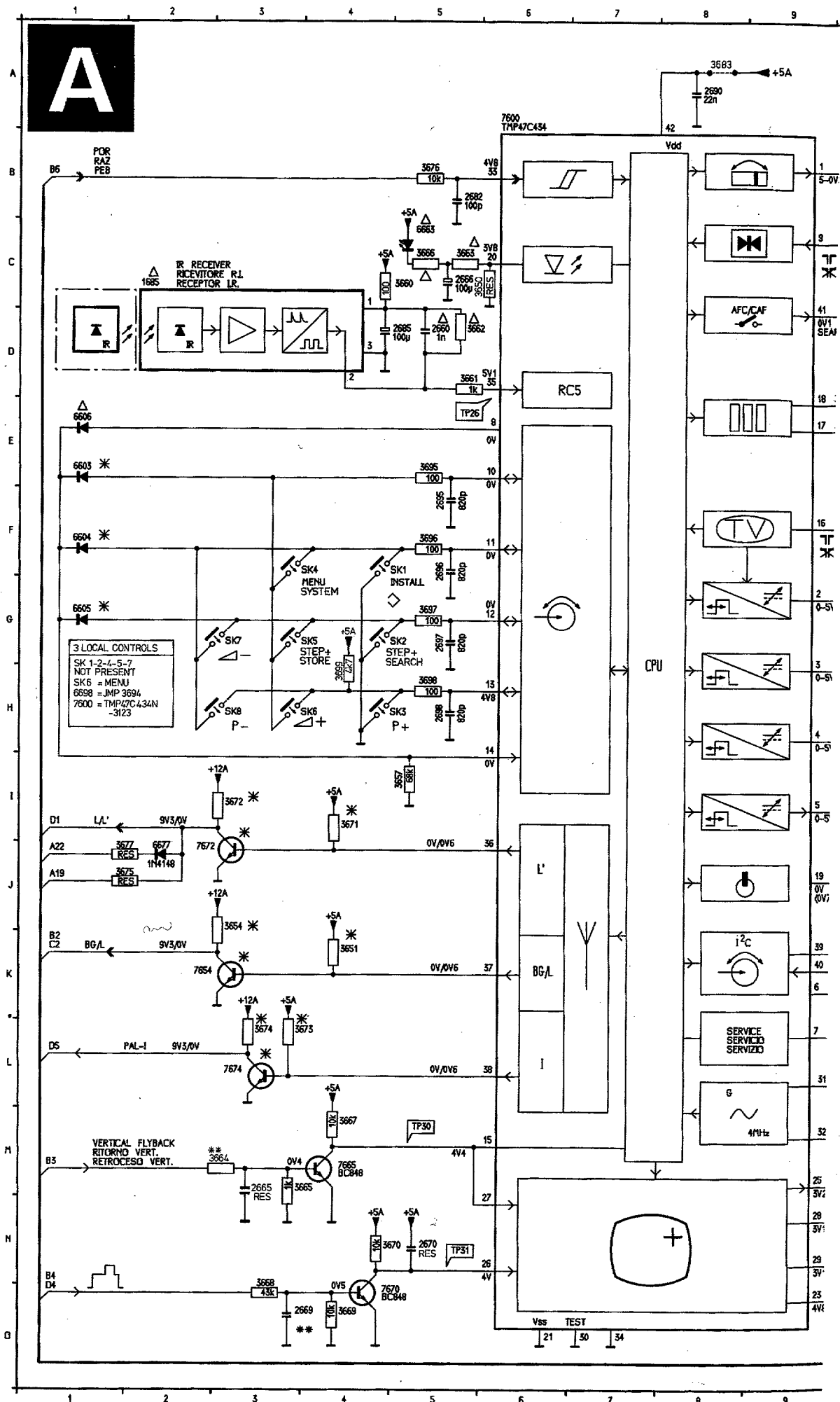
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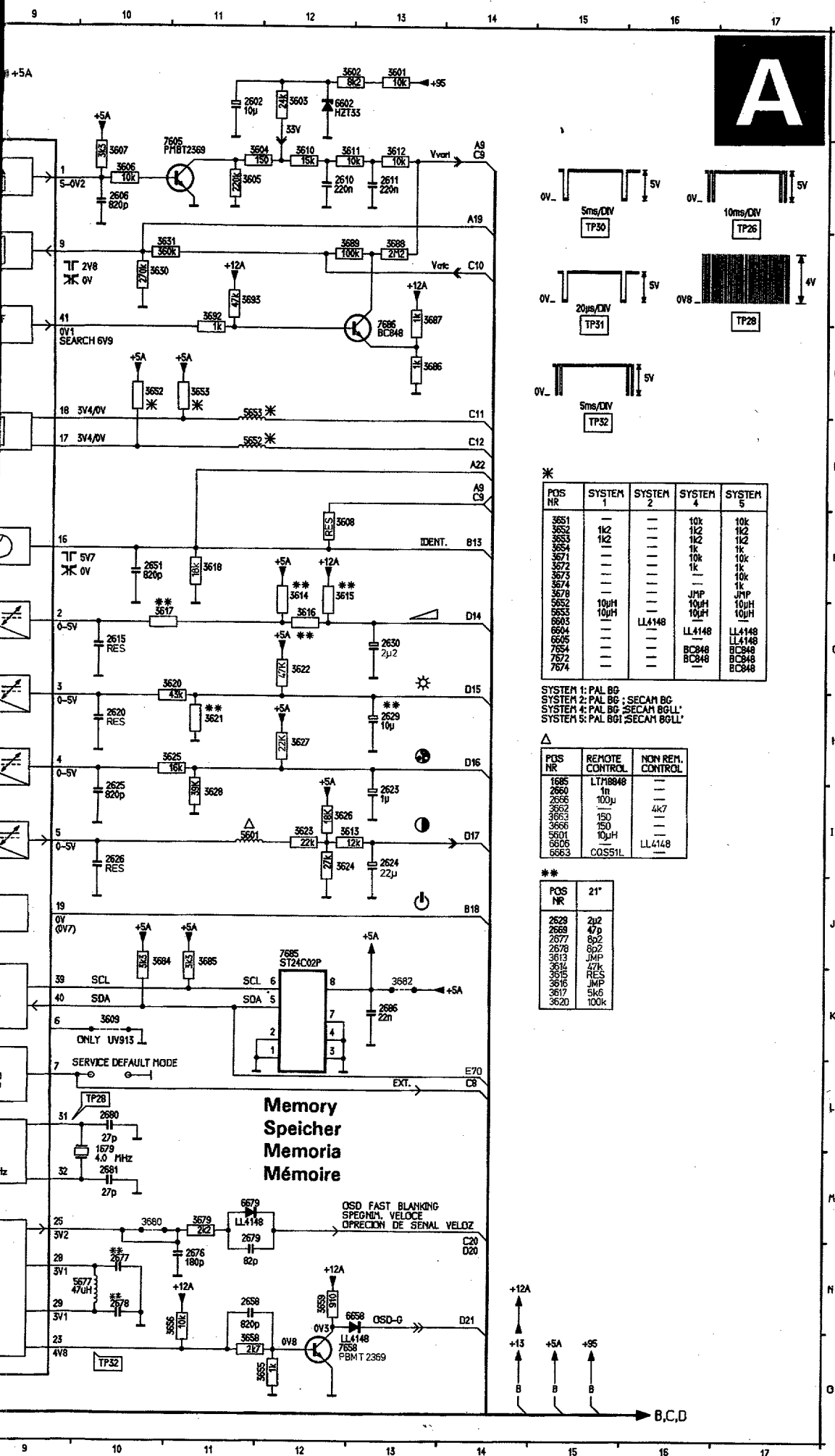




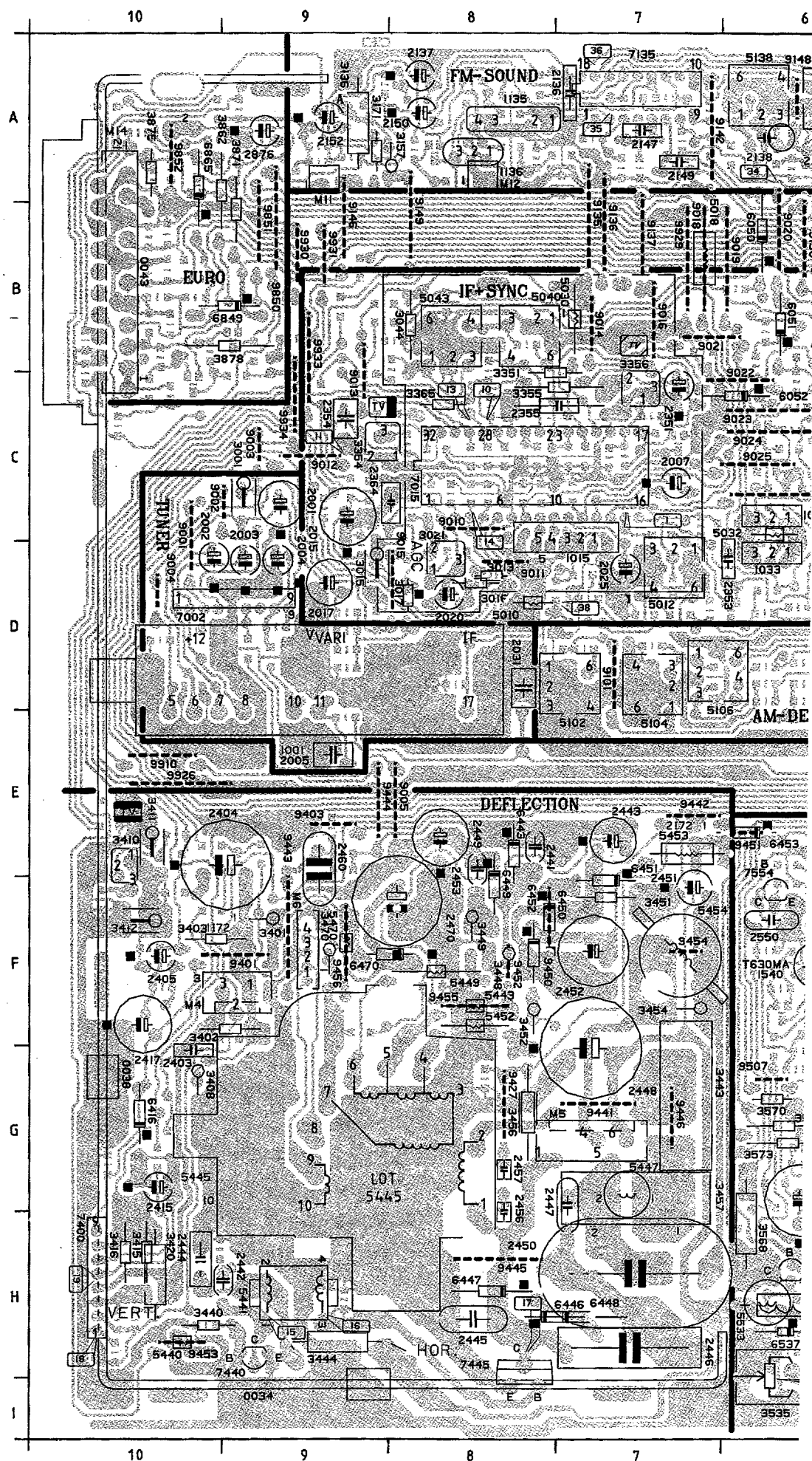


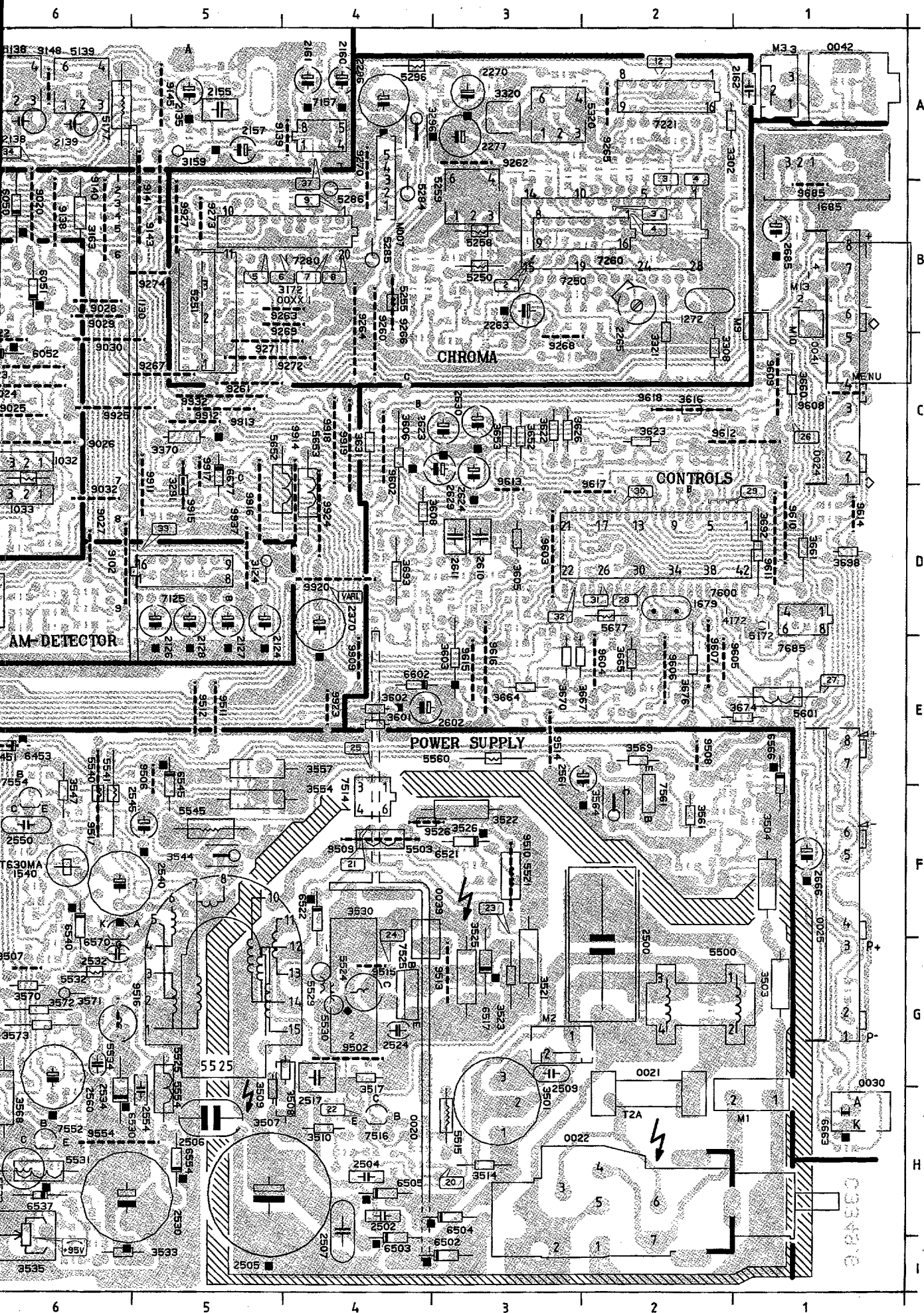


6.2 ANUBIS A



SK1	F4	3688	C13
SK2	G4	3689	C12
SK3	H4	3690	C5
SK4	F3	3692	C11
SK5	G3	3693	C11
SK6	H3	3695	E5
SK7	G3	3696	F5
SK8	H3	3697	G5
1679	M10	3698	H5
1685	C2	3699	H4
2602	A11	4MHz	M9
2606	B10	5601	I11
2610	B12	5652	E11
2611	B13	5653	E11
2615	G10	5677	N10
2620	H10	6602	A12
2623	I13	6603	E1
2624	I13	6604	F1
2625	I10	6605	G1
2626	I10	6606	E1
2629	H13	6658	N13
2630	G13	6663	C5
2651	F10	6677	J2
2658	N11	6679	M11
2660	D5	7600	A6
2665	N3	7605	B10
2666	C5	7654	K2
2669	O3	7658	O12
2670	N5	7665	M4
2676	N11	7670	O4
2677	N10	7672	J3
2678	N10	7674	J12
2679	N11	7685	J12
2680	L10	7686	D13
2681	M10		
2682	B5		
2685	D4		
2686	K13		
2690	A8		
2695	F5		
2696	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	I13		
3614	F12		
3615	F12		
3616	G12		
3617	G10		
3618	F11		
3620	G11		
3621	H11		
3622	G12		
3623	I12		
3624	I12		
3625	H11		
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3627	H12		
3628	I11		
3630	C10		
3631	C10		
3651	K4		
3652	D10		
3653	D11		
3654	J3		
3655	O12		
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3657	I5		
3658	O11		
3659	N12		
3660	C5		
3661	D5		
3662	D5		
3663	C5		
3664	M3		
3665	M3		
3666	C5		
3667	M4		
3668	O3		
3669	O4		
3670	N4		
3671	I4		
3672	I3		
3673	L3		
3674	L3		
3675	L3		
3676	B5		
3677	J2		
3679	M11		
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3682	K13		
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3684	J10		
3685	J11		
3686	D13		
3687	C13		



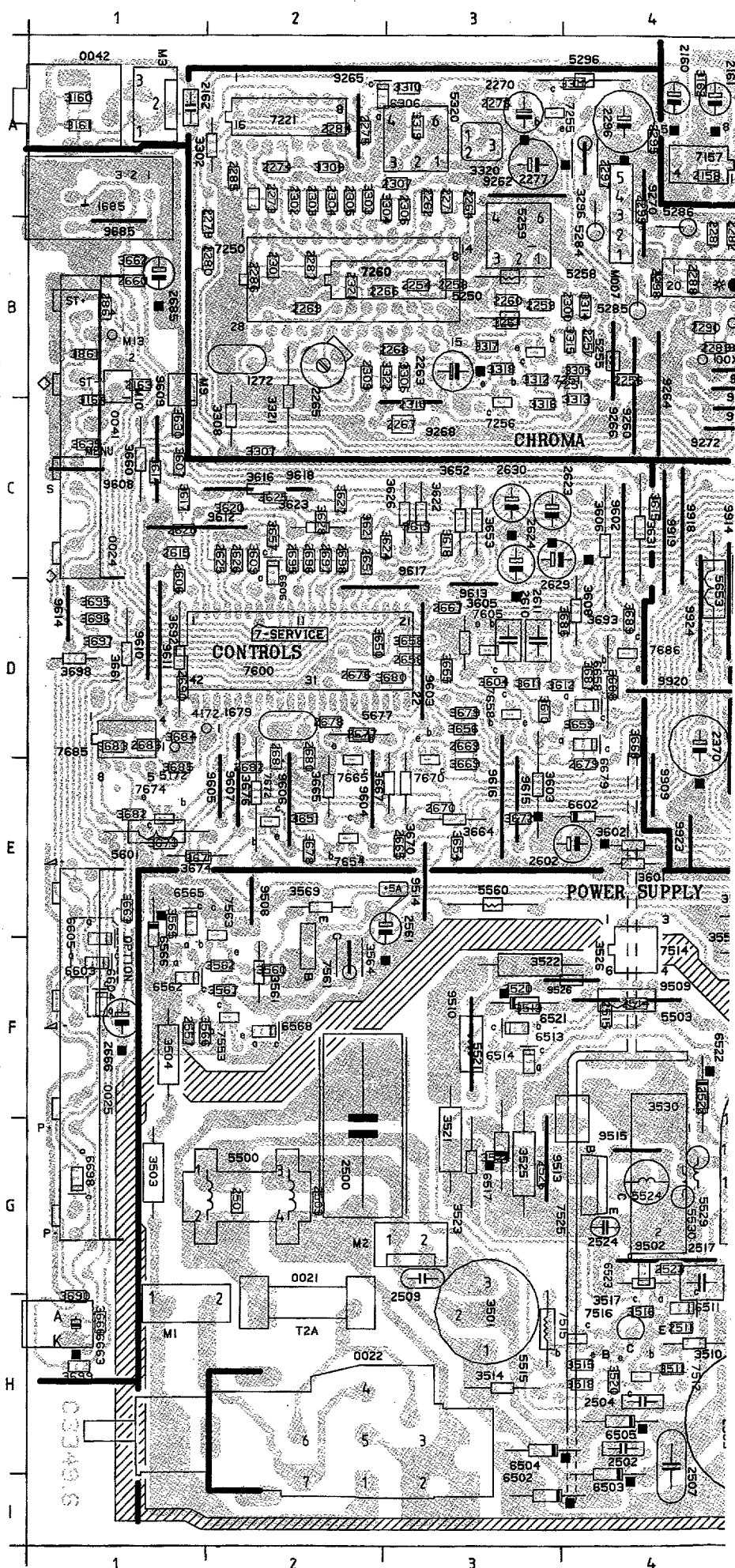


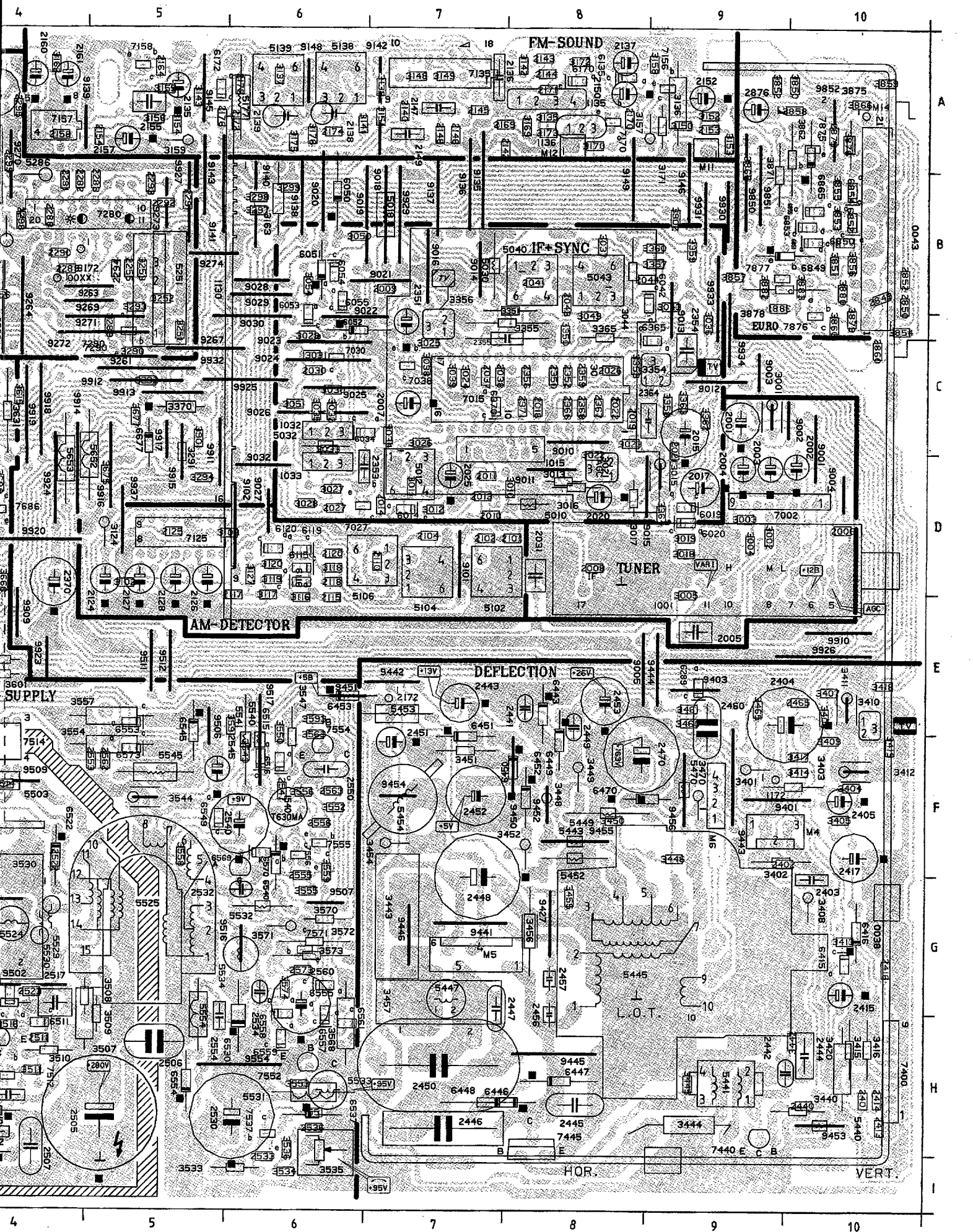
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0041 C1	3021 D8	5106 D7	9015 D8	9918 C4
0042 A1	3044 B8	5138 A6	9016 B7	9919 C4
0043 C10	3124 D5	5139 A6	9018 B7	9920 D4
1001 D10	3136 A9	5177 A6	9019 B6	9923 E4
1015 C7	3157 A8	5250 B3	9020 B6	9924 D4
1032 C6	3159 A5	5251 C5	9021 B7	9925 C6
1033 D6	3163 B6	5255 B4	9022 C6	9926 E10
1135 A8	3171 A9	5258 B3	9023 C6	9927 B5
1136 A8	3291 D5	5259 B3	9024 C8	9929 B7
1272 B2	3296 A4	5284 B4	9025 C6	9930 B9
1540 F6	3302 A2	5285 B4	9026 C6	9931 B9
1679 D2	3308 C2	5286 B4	9027 D6	9932 C5
1685 A1	3320 A3	5296 A4	9028 B6	9933 B9
2001 C9	3321 C2	5320 A3	9029 B6	9934 C9
2002 D10	3351 C8	5440 H10	9030 C6	9937 D5
2003 D9	3354 C8	5441 H9	9032 D6	M1 H1
2004 D9	3355 C7	5443 F8	9101 D7	M2 G3
2005 E9	3356 C7	5445 G9	9102 D6	M3 A1
2007 C7	3365 C8	5447 G7	9135 B7	M4 F9
2015 C9	3370 C5	5449 F8	9136 B7	M5 G8
2017 D9	3401 F9	5452 F8	9137 B7	M6 F9
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2126 D5	3411 E10	5503 F4	9142 A7	M12 A8
2127 D5	3412 F10	5515 H3	9143 B5	M13 B1
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2135 A5	3416 H10	5524 G4	9146 B9	TP1 C7
2137 A8	3420 H10	5525 G5	9148 A6	TP2 B3
2138 A6	3440 H10	5529 G4	9149 B8	TP3 B2
2139 A6	3443 G7	5530 G4	9260 B4	TP4 B2
2147 A7	3444 H9	5531 H6	9261 C5	TP5 B5
2149 A7	3448 F8	5532 G6	9262 A3	TP6 B5
2150 A8	3449 F8	5533 H6	9263 B4	TP7 B4
2152 A9	3451 F7	5534 G6	9264 B4	TP8 B4
2155 A5	3452 F8	5540 F6	9265 A2	TP9 B4
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2263 B3	3501 H3	5601 E1	9270 A4	TP14 C8
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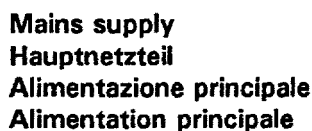
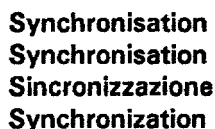
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0025 G1	2273 A2	2553 F5	3149 A7	3457 G7	3666 H1
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1033 D6	2281 B4	2562 F5	3156 A5	3504 F1	3673 E1
1135 A8	2282 B4	2563 F6	3157 A8	3507 H4	3674 E1
1136 A8	2283 B5	2573 G6	3158 A9	3508 G4	3675 D5
1272 B2	2284 A2	2602 E4	3159 A5	3509 H5	3676 E2
1540 F6	2285 A2	2606 C1	3160 B1	3510 H4	3677 C5
1679 D2	2286 B2	2610 D3	3161 A1	3511 H4	3678 E2
1685 A1	2287 B2	2611 D3	3162 A4	3513 F3	3679 D3
2001 C9	2288 B4	2615 C1	3163 B6	3514 H3	3680 D3
2002 D10	2289 B4	2620 C1	3164 A1	3515 H4	3682 E1
2003 D9	2290 B4	2623 C3	3169 A8	3516 H4	3683 D1
2004 D9	2291 B5	2624 C3	3170 A8	3517 G4	3684 D1
2005 E9	2292 B5	2625 C2	3171 A9	3518 H4	3685 E1
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2007 C7	2294 B5	2629 C3	3173 A8	3521 G3	3687 D4
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2010 D7	2297 A4	2658 D3	3251 C5	3524 G3	3690 G1
2011 D7	2298 B4	2660 B1	3252 B5	3525 G3	3692 D1
2013 D7	2299 A4	2665 E3	3253 B5	3526 F4	3693 D4
2014 D7	2300 B3	2666 F1	3261 B3	3530 G4	3695 D1
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2102 D7	2364 C8	2850 B10	3310 A3	3561 F2	3866 A10
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2110 D7	2367 C8	2860 C10	3312 B3	3563 E6	3875 A10
2115 E6	2368 C8	2861 B1	3313 B4	3564 F2	3876 A10
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2120 D6	2401 H10	3001 C9	3316 C3	3567 F2	3880 B10
2124 D5	2402 F9	3002 D9	3317 B3	3568 H6	3881 B9
2125 D5	2403 G10	3003 D9	3318 B3	3569 E2	3882 B9
2126 D5	2404 E9	3004 D9	3319 A3	3570 G6	3883 B10
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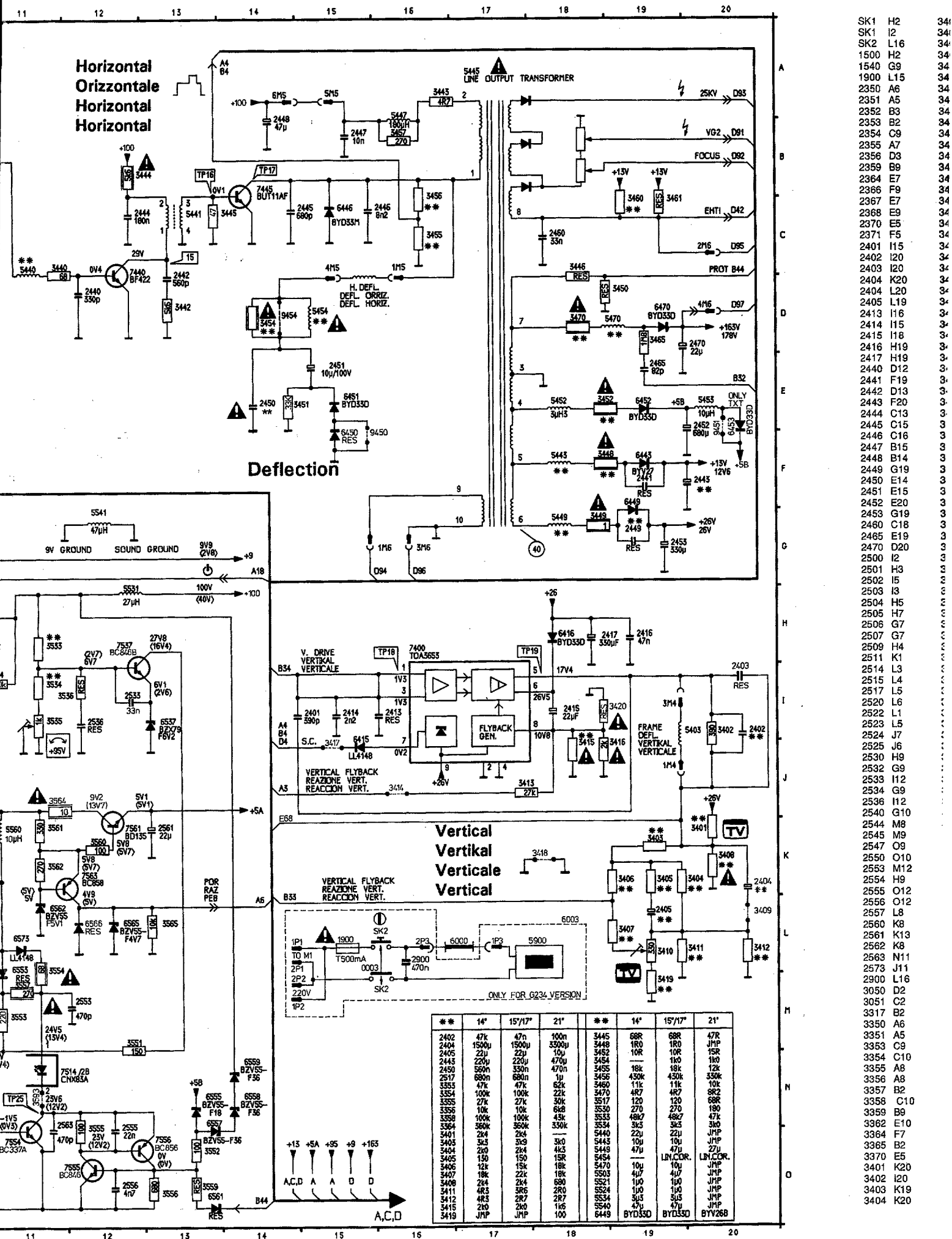


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2368	10n	—	—
2509	2n2	—	—
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6050	—	1N4148	1N4148
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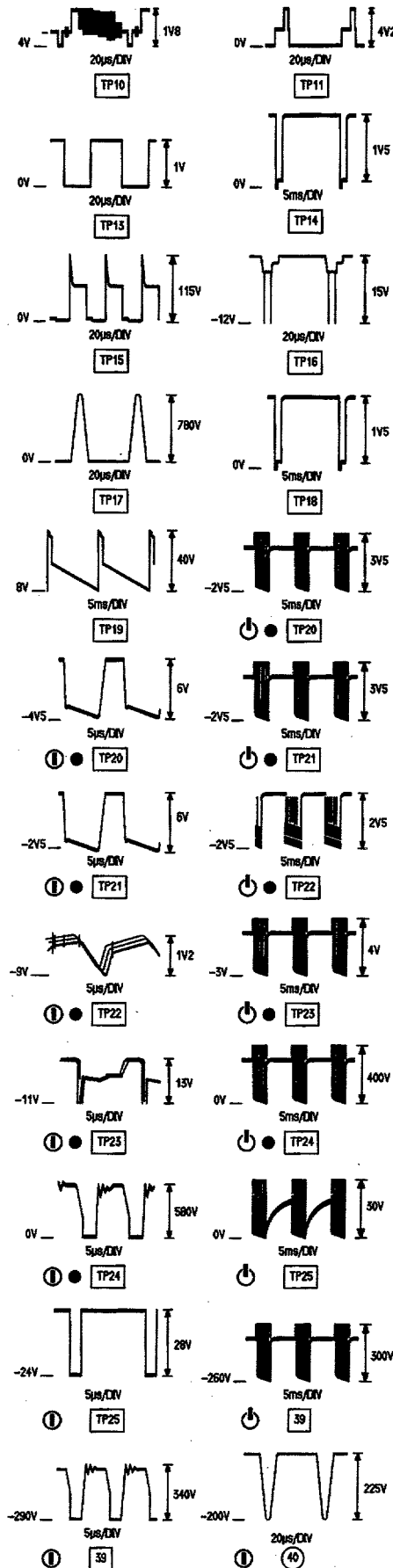
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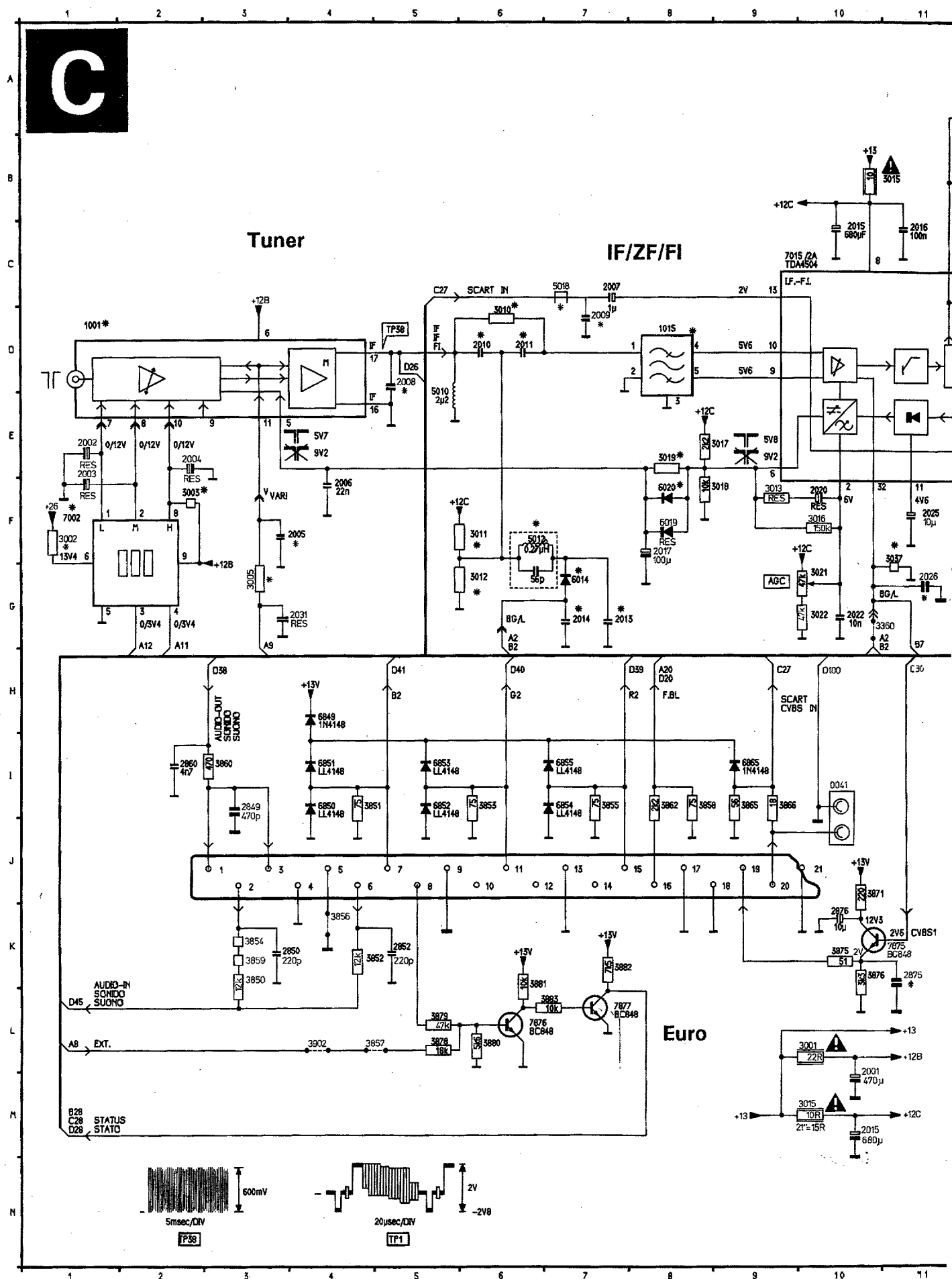
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1540 G9	3409 L20	5531 H12
1900 L15	3410 L19	5532 G8
2350 A6	3411 L20	5534 H8
2351 A5	3412 L20	5540 G10
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2353 B2	3414 J16	5545 M9
2354 C9	3415 J18	5554 H8
2355 A7	3416 J19	5560 K11
2356 D3	3417 J15	5900 L18
2359 B9	3418 K18	6000 L17
2364 E7	3419 M19	6003 L18
2366 F9	3440 C11	6050 D2
2367 E7	3442 D13	6051 C2
2368 E9	3443 A16	6052 C2
2370 E5	3444 B13	6053 C2
2371 F5	3445 C14	6365 B2
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2402 I20	3447 A16	6415 J15
2403 I20	3448 F19	6416 H18
2404 K20	3449 G18	6443 H19
2404 L20	3450 D19	6446 C15
2405 L19	3451 E15	6450 F15
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2414 I15	3453 A15	6452 E19
2415 I18	3454 D14	6453 E20
2416 H19	3455 C16	6470 D19
2417 H19	3456 C16	6502 I6
2440 D12	3457 B16	6503 I6
2441 F19	3460 C19	6504 H6
2442 D13	3461 C19	6505 H6
2443 F20	3465 D19	6511 K2
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2554 H9	3563 O10	7556 O13
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2556 O12	3565 L13	7563 K12
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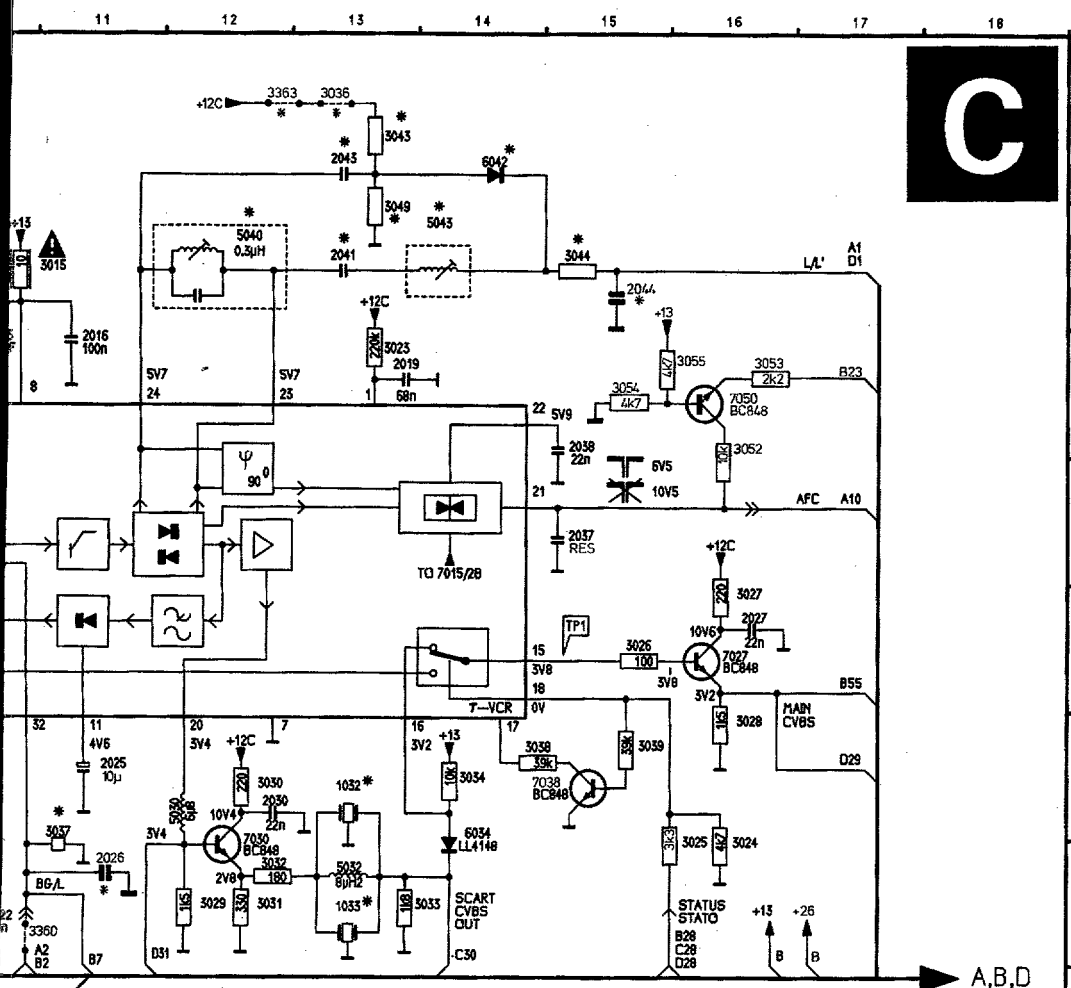


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SBC 7021
4822 310 20491

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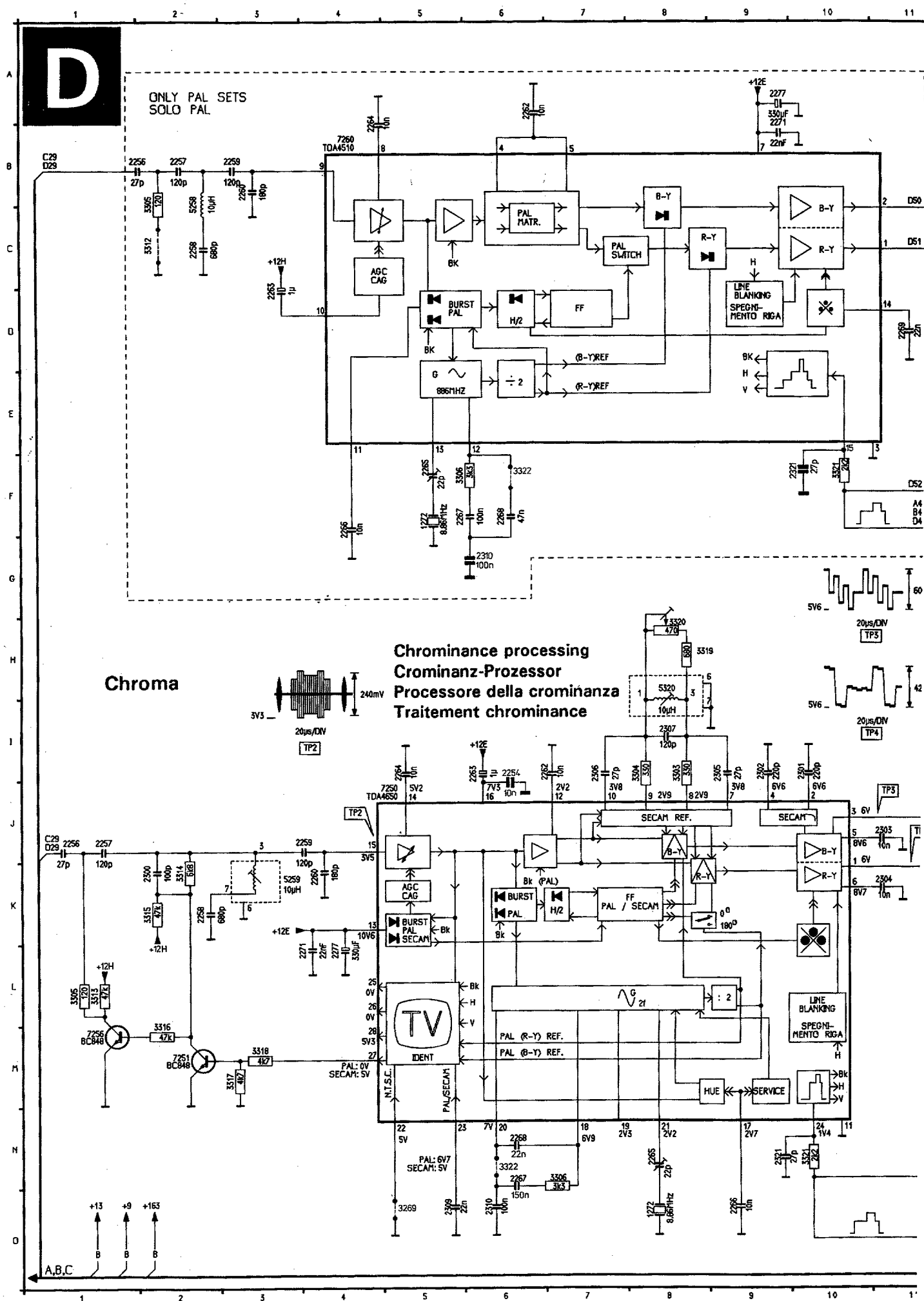


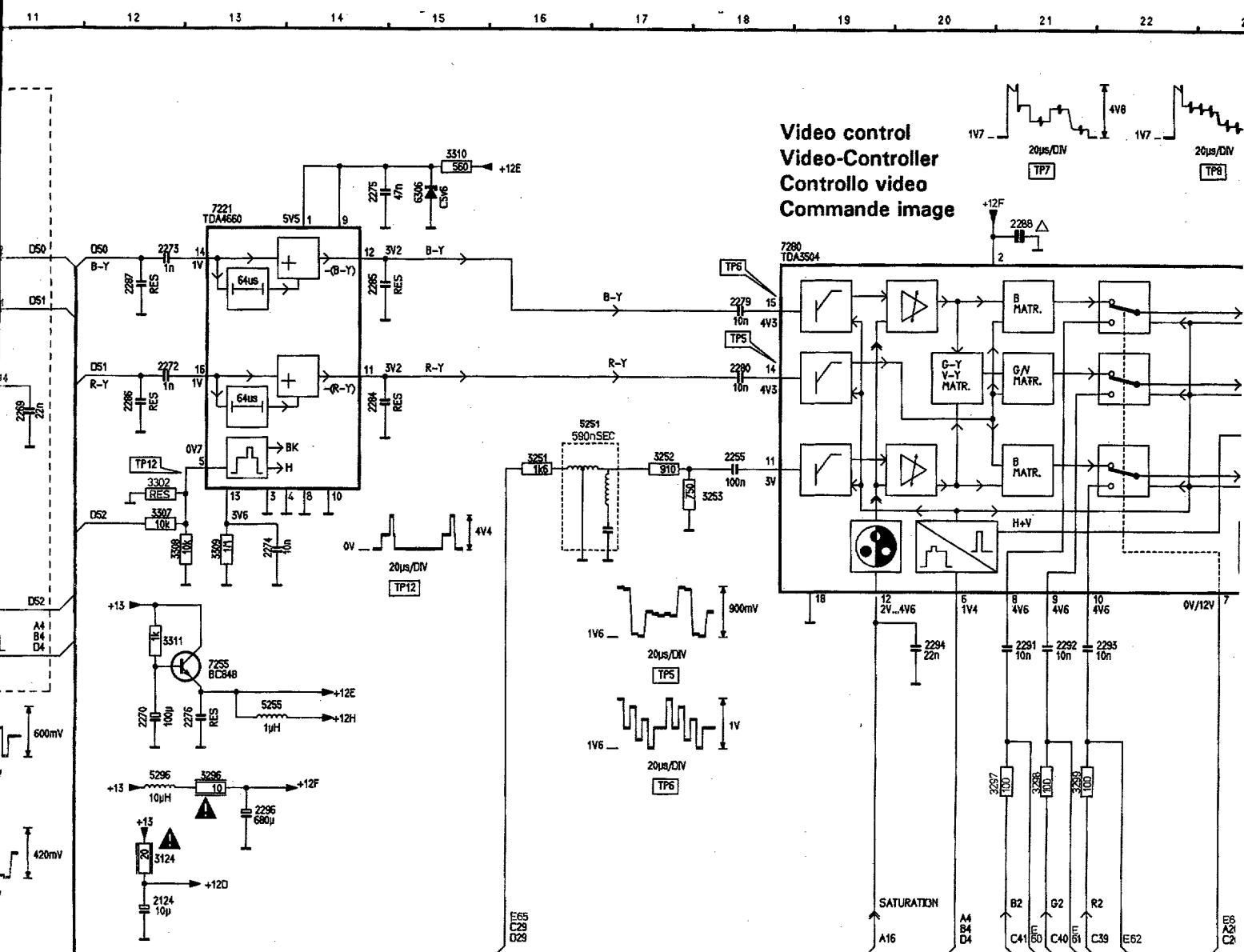


Source selection video
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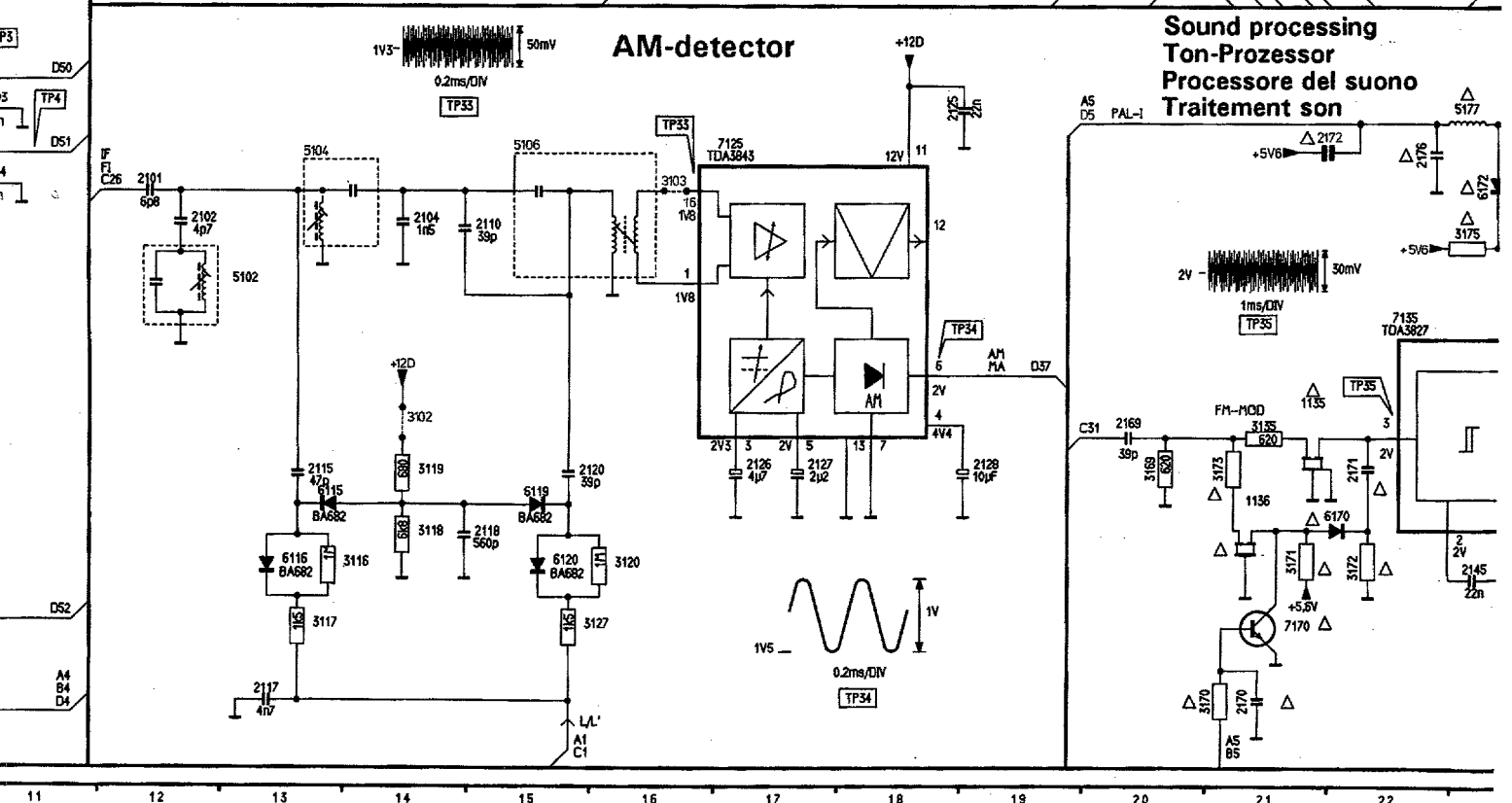
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1001	UV917E	UV917E	U943	UV917E	UV917E	UV917E	UV917E	UV915
1015	OFWG1961M	OFWG1961M	OFWJ1951M	OFWK2950	OFWG3950	OFWG3950	OFWG3950	OFWG1961M
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1033	470n	470n	6MHz	6,5MHz	6MHz	6MHz	6MHz	5,5MHz
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2008	---	5P6	---	---	---	---	---	---
2009	---	220p	---	---	---	---	---	---
2010	---	---	---	---	---	18p	---	---
2011	---	---	---	---	---	18p	---	---
2013	---	---	---	---	---	18p	---	---
2014	---	---	---	---	---	4n7	---	---
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2041	---	---	---	---	---	4n7	---	---
2043	---	---	---	---	---	4n7	---	---
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3002	2k7	2k7	---	2k7	---	2k7	---	2k7
3003	---	---	---	---	---	---	---	---
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3036	---	---	---	---	---	JMP	---	---
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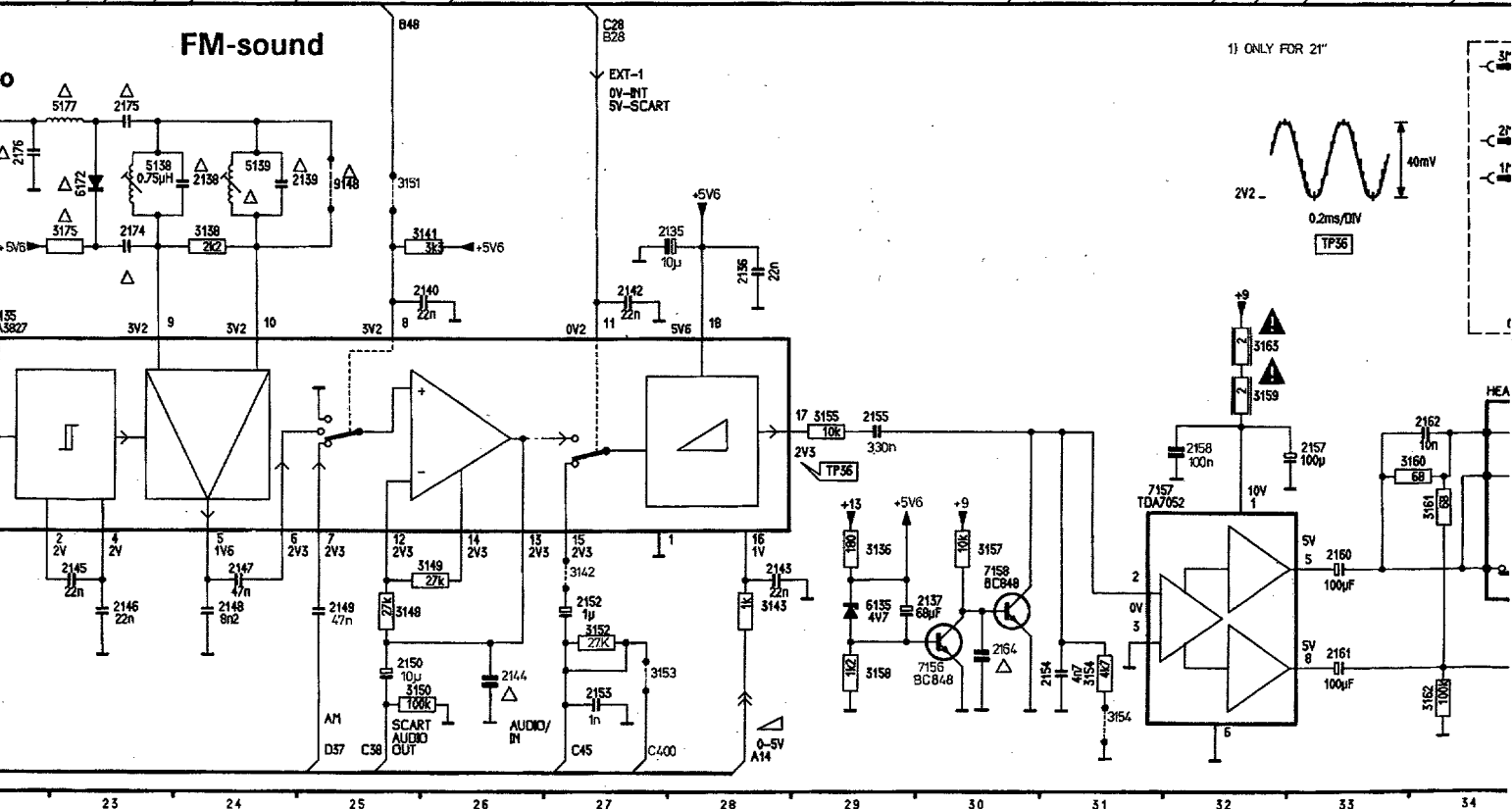
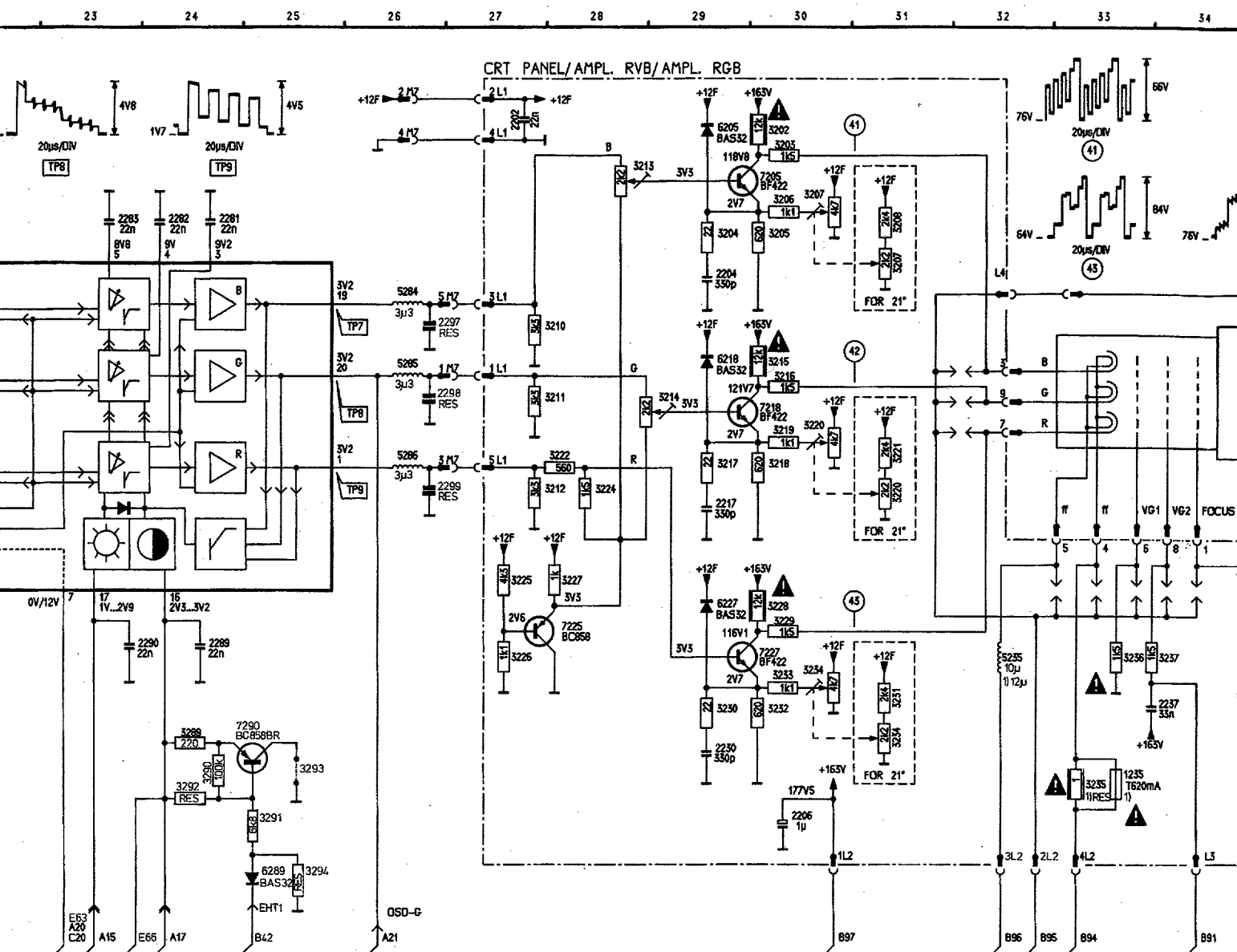
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3881 L6
3882 K7

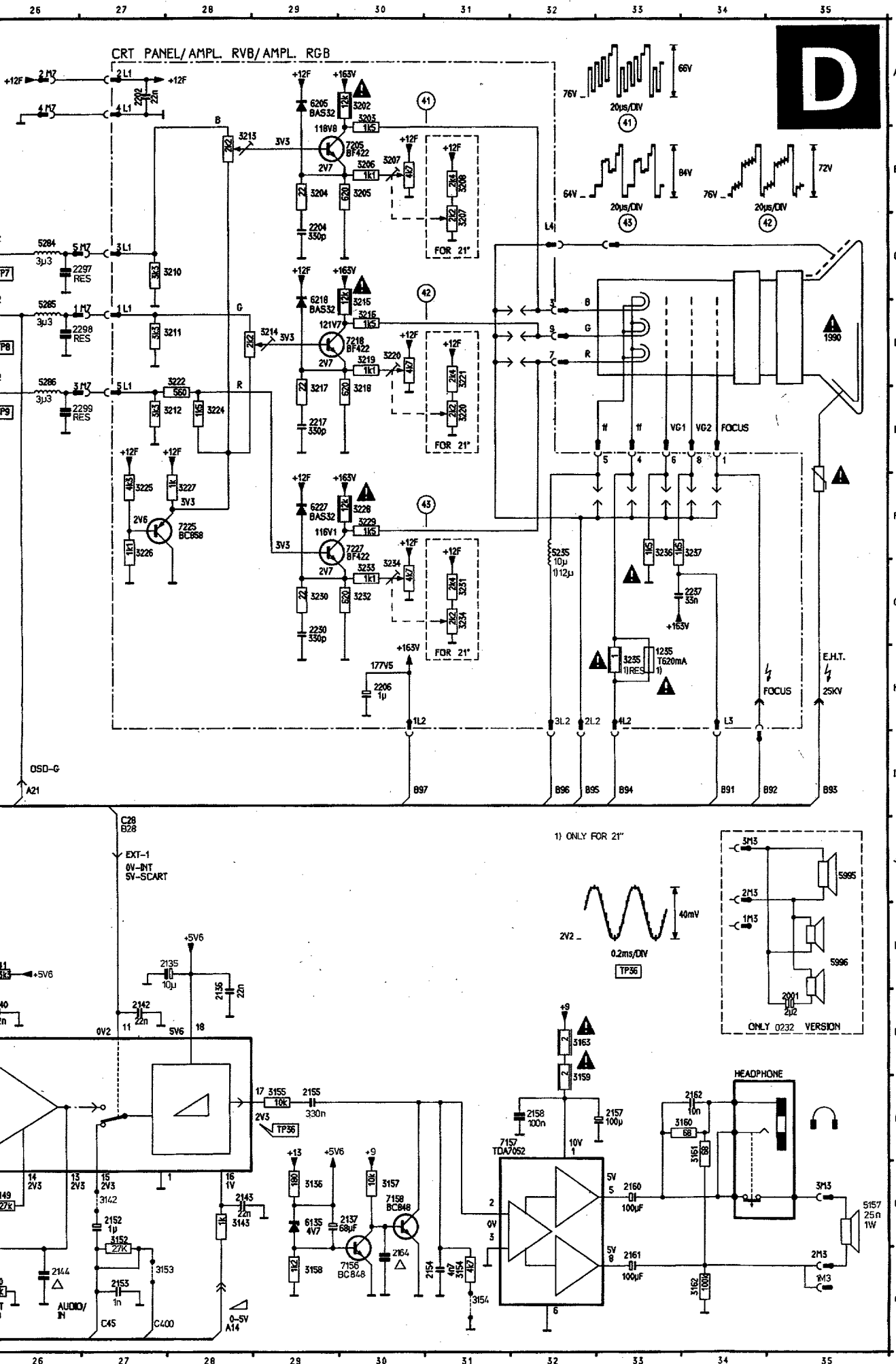




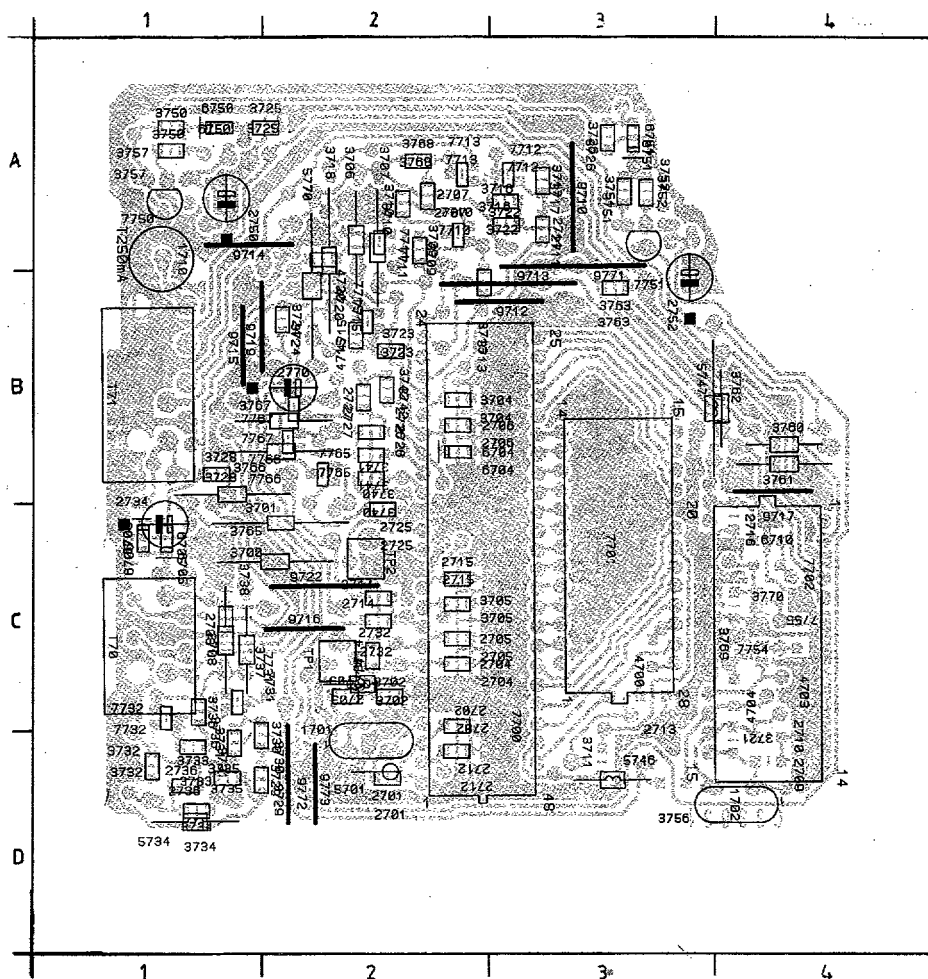
AM-detector



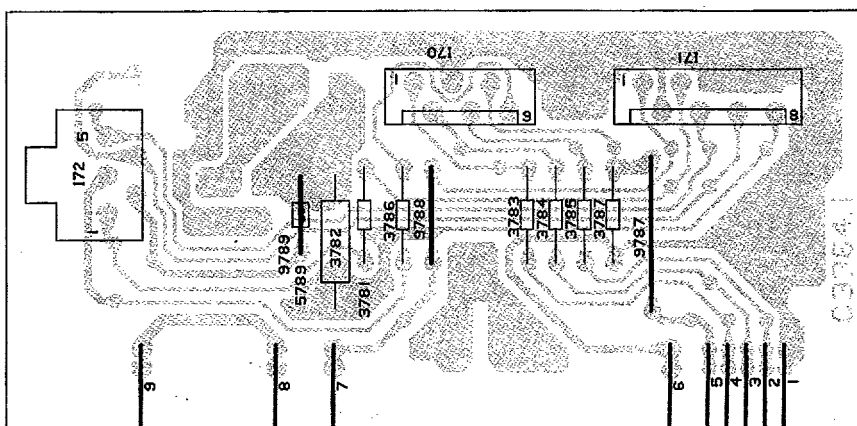


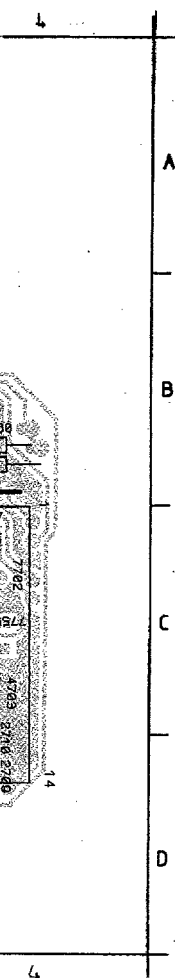


1135	M21	3160	M34
1136	M21	3161	M34
1136	H33	3162	O32
1272	H8	3163	L34
1202	F5	3169	M20
1202	F35	3170	M21
1201	K12	3171	N21
1202	K12	3172	N22
1201	K14	3173	M21
1210	K15	3175	F25
1202	M13	3202	A30
1217	O13	3203	A30
1218	N15	3204	B29
1220	M16	3205	B30
1225	M17	3206	B30
1225	J18	3207	B31
1226	M17	3207	C31
1227	M17	3208	B31
1228	M19	3210	C28
1228	L28	3211	D28
1230	L28	3212	D28
1236	K24	3213	B28
1239	K25	3214	D29
1240	L26	3215	O30
1240	L27	3216	O30
1243	N28	3217	F30
1244	O26	3218	F30
1245	N23	3219	D30
1246	N23	3220	D40
1246	N23	3221	D30
1248	N24	3221	D31
1248	N25	3222	D38
1249	N25	3222	D38
1250	O26	3224	E28
1251	O26	3225	F28
1252	O27	3227	F30
1253	O27	3227	F30
1254	O31	3226	F30
1255	M29	3226	F30
1255	M33	3230	G29
1256	M33	3230	G29
1261	O33	3230	G30
1262	M34	3233	G30
1264	M30	3234	G31
1264	O30	3234	G31
1270	M22	3236	F34
1271	M22	3236	F34
1272	K27	3237	F33
1274	K23	3251	F18
1274	K23	3251	F18
1276	K22	3253	E16
1276	K22	3253	E16
2202	A27	3269	O5
2204	C29	3289	G24
2206	H30	3290	G24
2206	H30	3291	G24
2230	G29	3292	G24
2230	G34	3293	G25
2254	J6	3294	H25
2255	D18	3296	H13
2255	J6	3297	H13
2257	J1	3299	H21
2257	B2	3303	H8
2258	C2	3304	B2
2258	C2	3304	B2
2259	B3	3305	E12
2259	J4	3306	F12
2260	K4	3306	F12
2260	B3	3308	E12
2262	I7	3309	E13
2263	D3	3310	B15
2263	I6	3311	F12
2264	B4	3311	L1
2265	F5	3314	K2
2265	N9	3315	M2
2266	F4	3316	M2
2266	N6	3317	M3
2267	N6	3318	M3
2267	F5	3319	H8
2268	F6	3320	H8
2268	N6	3321	N10
2269	O5	3322	N6
2270	G12	3322	F6
2271	B9	5102	L13
2272	B9	5103	L16
2272	D12	5106	L16
2273	D12	5138	K23
2274	E13	5139	K23
2275	E14	5177	K23
2275	E14	5177	K23
2277	A9	5251	D16
2277	L4	5255	G13
2279	C18	5258	G13
2280	C18	5258	G13
2281	B24	5294	C26
2282	B24	5295	D26
2283	B23	5296	D26
2284	D14	5296	H12
2285	B24	5320	H12
2286	D12	6115	M13
2287	C12	6116	M13
2288	B21	6119	M15
2288	F24	6123	M15
2289	F24	6123	M15
2291	F21	6170	N22
2292	F21	6172	K23
2293	F22	6205	A29
2294	F20	6218	D29
2296	F20	6227	D29
2297	C26	6289	G24
2298	D26	6289	J25
2299	C26	6306	B15
2300	F12	7105	L22
2301	I10	7193	O30
2302	I9	7196	O30

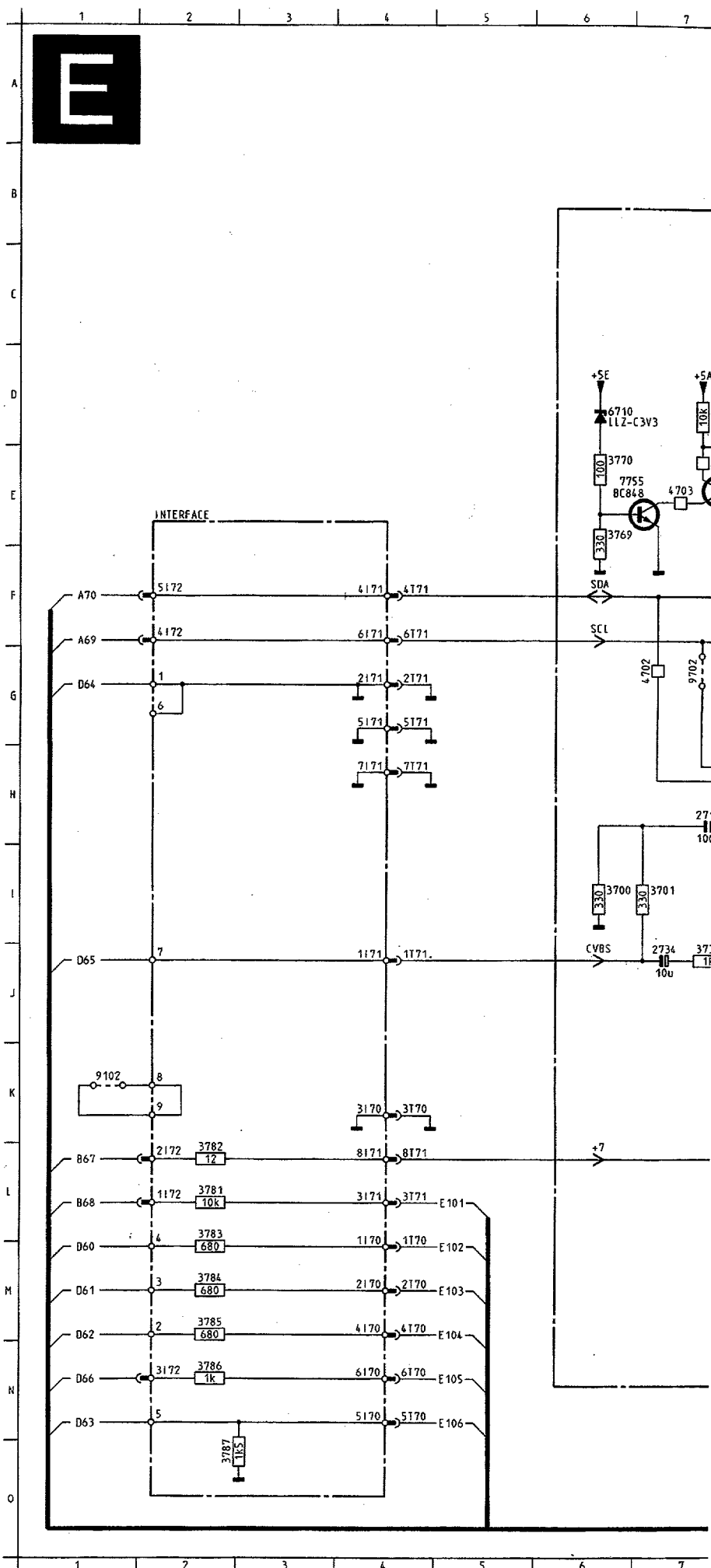


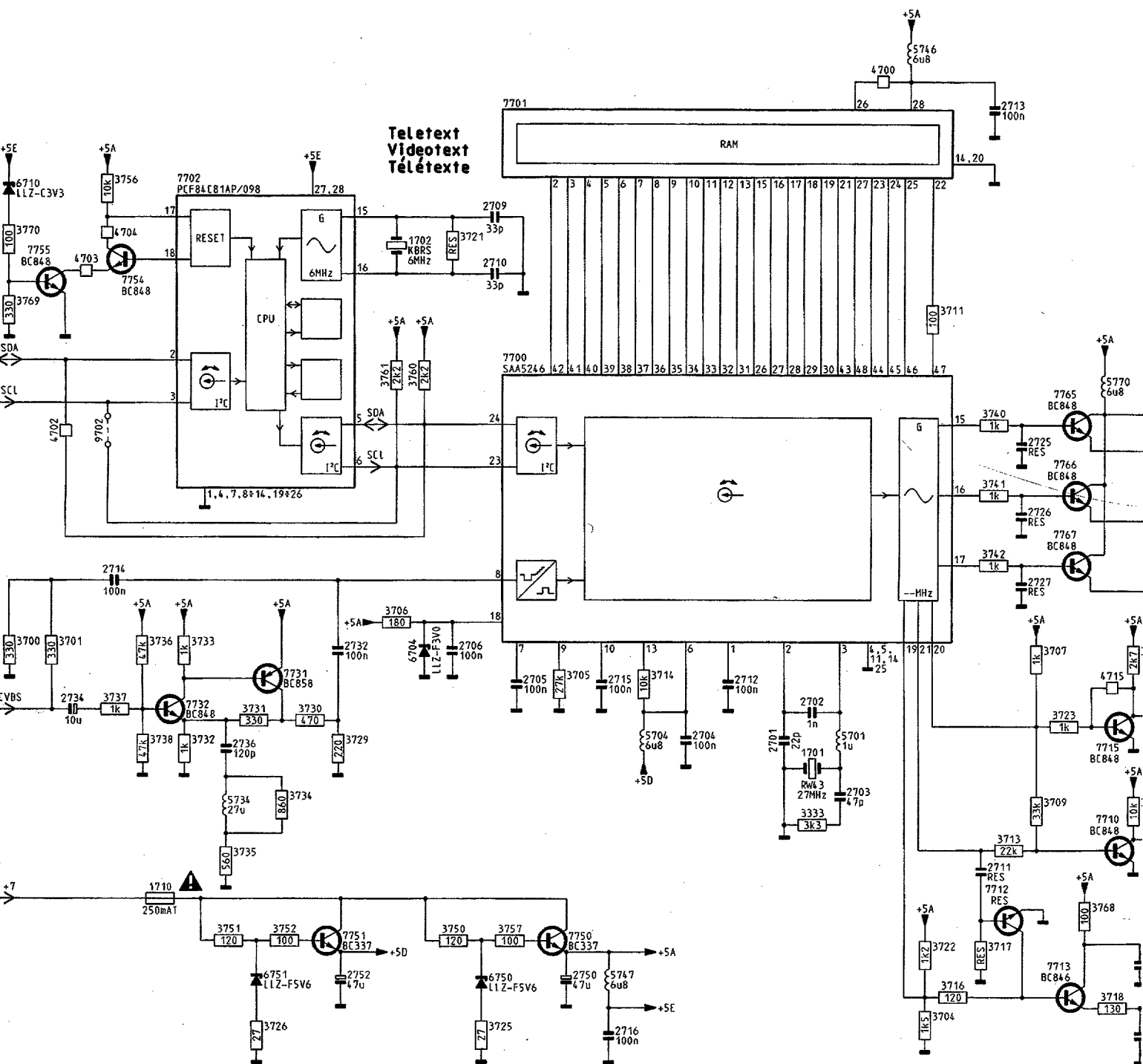
1702 D4	2727 B2	3717 A3	3741 B2	4715 B2	7713
1710 A1	2732 C2	3718 A2	3742 B2	4720 A2	7715
2701 D2	2734 C1	3721 D4	3750 A1	5701 D2	7731
2702 D2	2736 D1	3722 A3	3751 A3	5704 C2	7732
2703 C2	2750 A1	3723 B2	3752 A3	5734 D1	7750
2704 C2	2752 A3	3724 B2	3756 D3	5746 D3	7751
2705 C2	2770 B2	3725 A2	3757 A1	5747 B4	7754
2706 B2	3700 C2	3726 A3	3760 B4	5770 B2	7755
2707 A2	3701 B1	3728 B1	3761 B4	6704 B2	7765
2708 C1	3702 C2	3729 D2	3762 B4	6705 C1	7766
2709 D4	3704 B2	3730 D2	3763 B3	6706 C1	7767
2710 D4	3705 C2	3731 D1	3765 C2	6710 C4	9710
2711 A3	3706 A2	3732 D1	3766 B2	6750 A1	9712
2712 D2	3707 A2	3733 D1	3767 B2	6751 A3	9713
2713 C3	3709 A2	3734 D1	3768 A2	7700 C2	9714
2714 C2	3710 A2	3735 D1	3769 C4	7701 C3	9715
2715 C2	3711 D3	3736 C1	3770 C4	7702 C4	9716
2716 C4	3713 B2	3737 C1	4700 C3	7710 A2	9717
2725 C2	3714 C2	3738 C1	4703 C4	7711 A2	9718
2726 B2	3716 A3	3740 B2	4704 C4	7712 A3	9722



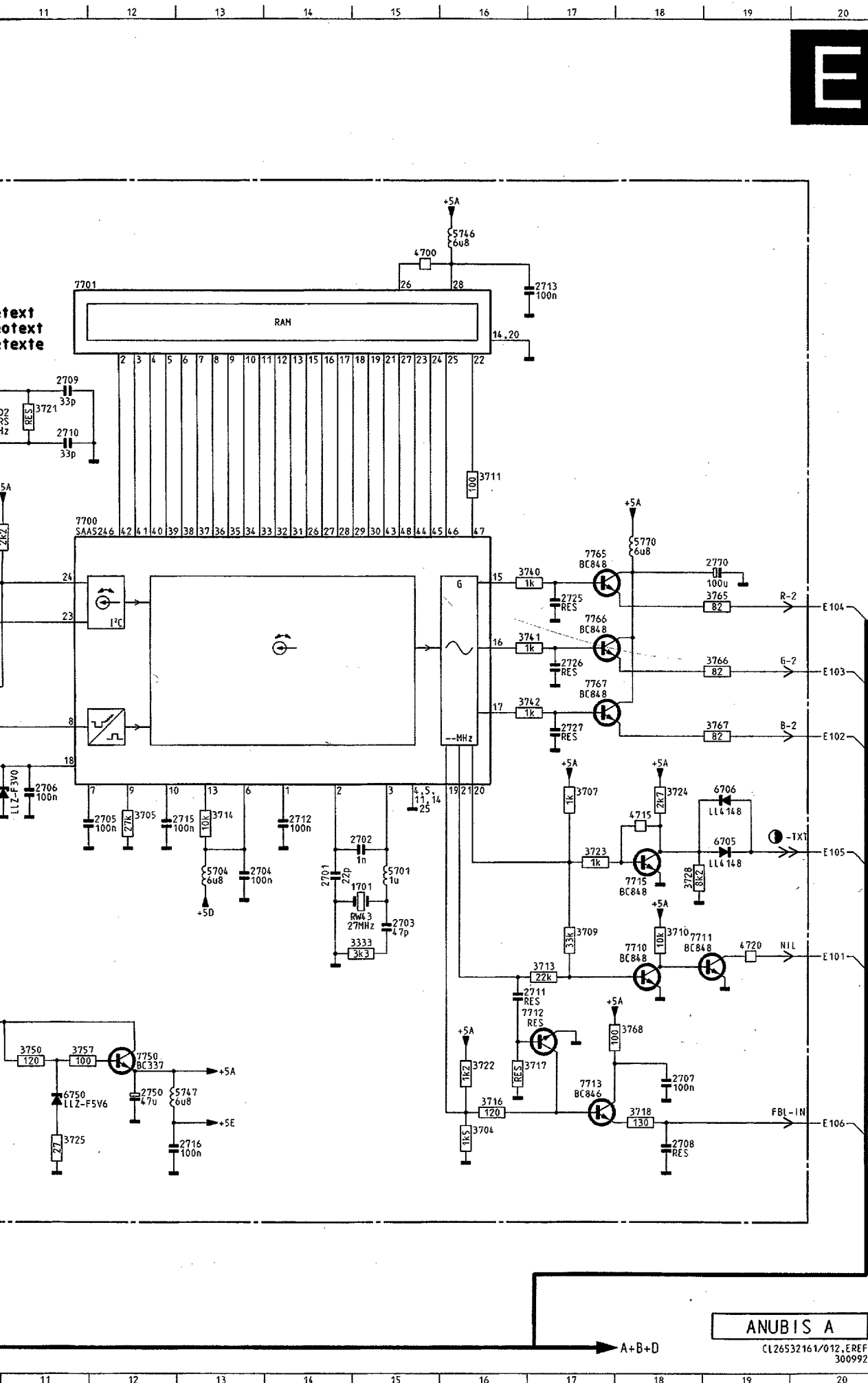


- | | |
|---------|---------|
| 7713 A2 | 9771 A3 |
| 7715 B2 | 9772 D2 |
| 7731 C1 | 9773 D2 |
| 7732 C1 | T70 C1 |
| 7750 A1 | T71 B1 |
| 7751 A3 | TP1 C2 |
| 7754 C4 | TP2 C2 |
| 7755 C4 | |
| 7765 B2 | |
| 7766 B2 | |
| 7767 B2 | |
| 9710 A3 | |
| 9712 B3 | |
| 9713 A3 | |
| 9714 A1 | |
| 9715 B1 | |
| 9716 C2 | |
| 9717 B4 | |
| 9719 B2 | |
| 9722 C2 | |





→ $A + B + D$



1701	J15	7766	G17
1702	E10	7767	H17
1710	L 8	9102	K 1
2701	J14	9702	G 7
2702	J15		
2703	K15		
2704	J13		
2705	L12		
2706	L11		
2707	L18		
2708	M18		
2709	D11		
2710	E11		
2711	K16		
2712	L14		
2713	C17		
2714	H 7		
2715	L12		
2716	M13		
2725	G17		
2726	H17		
2727	H17		
2732	L10		
2734	J 7		
2736	J 8		
2750	M12		
2752	M10		
2770	F19		
3333	K15		
3700	I 6		
3701	I 7		
3704	M16		
3705	L12		
3706	L10		
3707	L17		
3709	K17		
3710	K18		
3711	E16		
3713	K17		
3714	L13		
3716	M16		
3717	L16		
3718	M18		
3721	E11		
3722	L16		
3723	J17		
3724	L18		
3725	M11		
3726	M 9		
3728	J18		
3729	J10		
3730	J 9		
3731	J 9		
3732	J 8		
3733	J 8		
3734	K 9		
3735	K 9		
3736	I 8		
3737	J 7		
3738	J 8		
3740	G17		
3741	G17		
3742	H17		
3750	L11		
3751	L 8		
3752	L 9		
3756	D 7		
3757	L11		
3760	F10		
3761	F10		
3765	G19		
3766	H19		
3767	H19		
3768	L18		
3769	E 6		
3770	E 6		
3781	L 2		
3782	L 2		
3783	L 2		
3784	M 2		
3785	M 2		
3786	N 2		
3787	O 2		
4700	C15		
4702	G 7		
4703	E 7		
4704	E 7		
4715	L18		
4720	K19		
5701	J15		
5704	J13		
5734	K 8		
5746	C16		
5747	M12		
5770	F18		
6704	L10		
6705	J19		
6706	L19		
6710	D 6		
6750	M11		
6751	M 9		
7700	F11		
7701	C11		
7702	D 8		
7710	K18		
7711	K19		
7712	L17		
7713	L17		
7715	J18		
7731	I 9		
7732	J 8		
7750	L12		
7751	L10		
7754	E 7		
7755	E 7		
7765	F17		

ANUBIS A

CL26532161/012, EREF
306992

A+B+D

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 condenser 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-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.

1.11 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.

1.12 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.

1.13 The FM sound section

a. 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.

b. 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.

1.14 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 condenser 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.

7.2 ANUBIS A

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

2.1 Cut-off points of picture tube

Apply a black pattern generator signal. Adjust contrast at minimum.

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.

2.2 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.

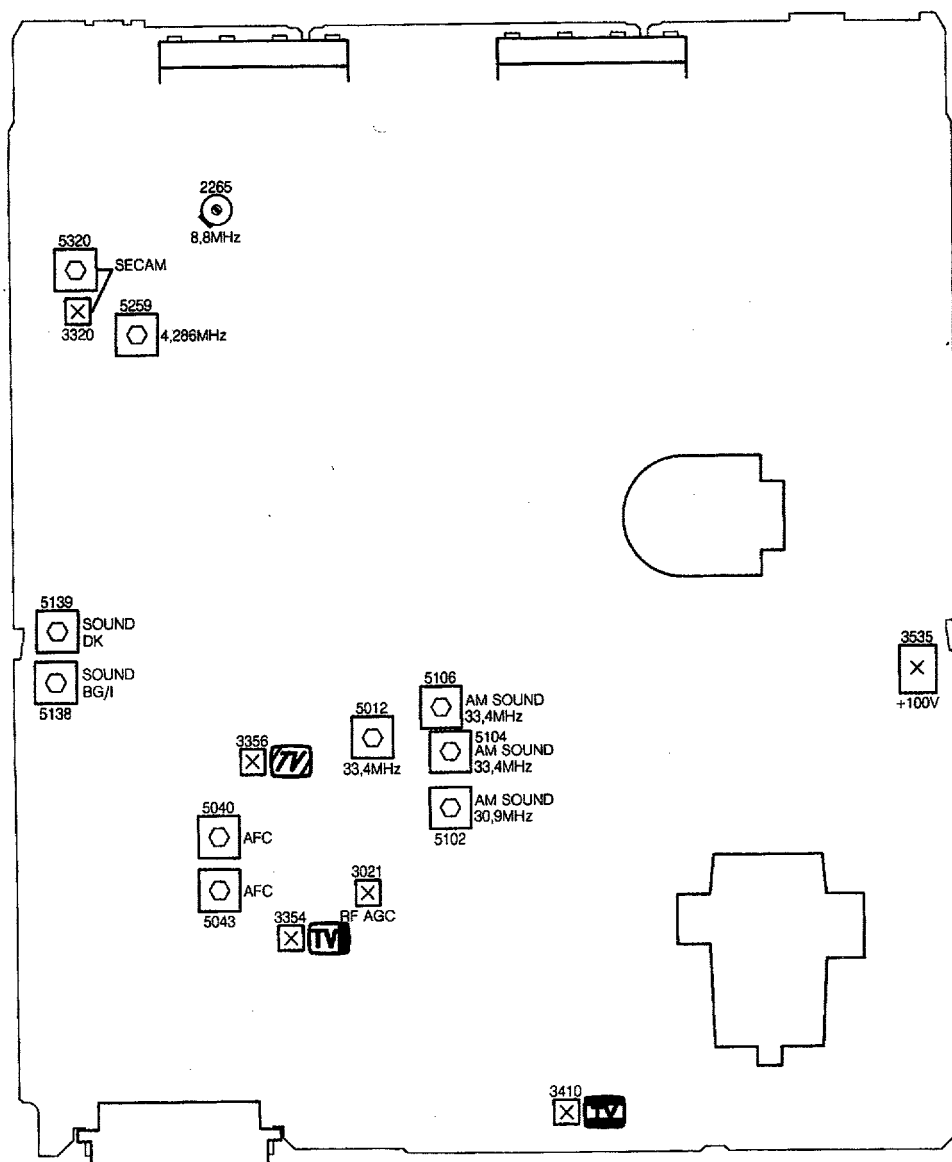


Fig. 7

MDA.02811
T10/037

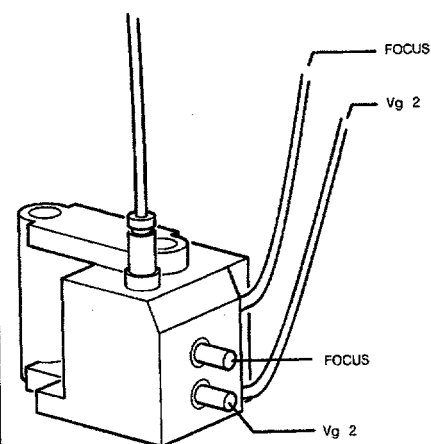


Fig. 8

MDA.00633
CP90
T28/723

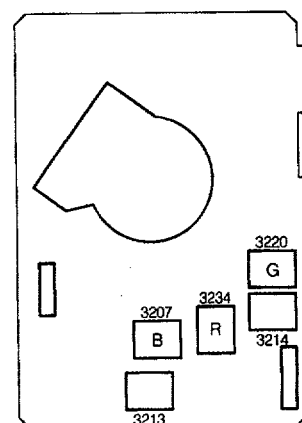


Fig. 9

MDA.02812
T28/035

List of error messages

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

2507 5322 121 42919 10nF 10% 400V
 2509 4822 126 11141 2,2nF 10% 1KV
 2511 4822 122 31767 150pF 2% 63V
 2514 4822 122 31961 68pF 2% 63V
 2515 4822 122 31961 68pF 2% 63V

2517 5322 121 42498 680nF 5% 63V
 2520 4822 122 32891 68nF 10% 63V
 2522 4822 122 31746 1000pF 2% 63V
 2523 4822 122 31746 1000pF 2% 63V
 2524 ▲ 4822 126 11382 1nF 10% 1KV

2526 ▲ 4822 122 32442 10nF 50V
 2530 ▲ 4822 124 80096 47μF 200V
 2532 4822 122 31177 470pF 10% 500V
 2533 4822 122 31981 33nF 50V
 2534 ▲ 4822 126 11524 1,5nF 10% 1KV

2540 4822 124 41677 680μF 20% 25V
 2545 4822 124 40769 4,7μF 20% 100V
 2547 4822 122 31746 1000pF 2% 63V
 2550 4822 121 42786 33 nF 2% 100V
 2553 4822 122 31727 470pF 2% 63V

2554 4822 122 31174 2,7nF 10% 500V
 2555 4822 126 11544 22000pF 63V
 2556 4822 122 31784 4,7nF 10% 50V
 2557 4822 122 31784 4,7nF 10% 50V
 2560 4822 124 41677 680μF 20% 25V

2561 5322 124 41431 22μF 20% 35V
 2562 4822 122 31727 470pF 2% 63V
 2563 4822 122 31727 470pF 2% 63V
 2573 4822 122 31772 47pF 2% 63V
 2602 4822 124 40435 10μF 20% 50V

2606 4822 122 31974 820pF 10% 63V
 2610 4822 121 41673 220nF 10% 100V
 2611 4822 121 41673 220nF 10% 100V
 2615 4822 122 31765 100pF 2% 63V
 2623 4822 124 40242 1μF 20% 63V

2624 4822 124 41596 22μF 20% 50V
 2625 4822 122 32765 820pF 2% 63V
 2629 4822 124 40435 10μF 20% 50V
 2629 4822 124 41576 2,2μF 20% 50V
 2630 4822 124 41576 2,2μF 20% 50V

2651 4822 122 31974 820pF 10% 63V
 2658 4822 122 31974 820pF 10% 63V
 2660 5322 122 31647 1nF 10% 63V
 2666 4822 124 40433 47μF 20% 25V
 2666 ▲ 4822 124 41525 100μF 20% 25V

2669 4822 122 31772 47pF 2% 63V
 2669 5322 122 31842 820pF 2% 63V
 2670 4822 122 31965 220pF 2% 63V
 2676 4822 122 31768 180pF 2% 63V
 2677 4822 122 31769 18pF 2% 63V

2677 4822 122 31971 10pF 2% 63V
 2677 4822 122 32083 8,2pF 5% 50V
 2678 4822 122 31769 18pF 2% 63V
 2678 4822 122 31971 10pF 2% 63V
 2678 4822 122 32083 8,2pF 5% 50V

2679 4822 122 31839 82pF 2% 63V
 2680 4822 122 31825 27pF 2% 63V
 2681 4822 122 31825 27pF 2% 63V
 2682 4822 122 31765 100pF 2% 63V
 2685 ▲ 4822 124 41525 100μF 20% 25V

2686 4822 126 11544 22000pF 63V
 2690 4822 126 11544 22000pF 63V
 2695 4822 122 31974 820pF 10% 63V
 2696 4822 122 31974 820pF 10% 63V
 2697 4822 122 31974 820pF 10% 63V

2698 4822 122 31974 820pF 10% 63V
 2849 4822 122 31727 470pF 2% 63V
 2850 4822 122 31965 220pF 2% 63V
 2852 4822 122 31965 220pF 2% 63V
 2860 4822 122 31784 4,7nF 10% 50V

2875 5322 122 31647 1nF 10% 63V
 2876 4822 124 40435 10μF 20% 50V



3001 ▲ 4822 052 10229 22Ω 5% 0,33W
 3002 4822 051 10272 2k7 2% 0,25W
 3004 4822 051 10008 0Ω 5% 0,25W
 3005 4822 051 10008 0Ω 5% 0,25W
 3005 4822 051 10102 1k 2% 0,25W

3010 4822 051 10008 0Ω 5% 0,25W
 3010 4822 051 10569 56k 2% 0,25W
 3011 4822 051 10562 5k6 2% 0,25W
 3012 4822 051 10562 5k6 2% 0,25W
 3015 ▲ 4822 052 10109 10Ω 5% 0,33W

3015 ▲ 4822 052 10159 15Ω 5% 0,33W
 3016 4822 116 52245 150k 5% 0,5W
 3017 4822 116 52256 2k2 5% 0,5W
 3018 4822 051 10103 10k 2% 0,25W
 3019 4822 051 10181 180Ω 2% 0,25W

3019 4822 051 10562 5k6 2% 0,25W
 3021 4822 100 11823 47k 30% 0,1W
 3022 4822 051 10473 47k 2% 0,25W
 3023 4822 051 10224 220k 2% 0,25W
 3024 4822 051 10472 4k7 2% 0,25W

3025 4822 051 10332 3k3 2% 0,25W
 3026 4822 051 10101 100Ω 2% 0,25W
 3027 4822 051 10221 220Ω 2% 0,25W
 3028 4822 051 10152 1k5 2% 0,25W
 3029 4822 051 10152 1k5 2% 0,25W

3030 4822 051 10221 220Ω 2% 0,25W
 3031 4822 051 10331 330Ω 2% 0,25W
 3032 4822 051 10181 180Ω 2% 0,25W
 3033 4822 051 10182 1k8 2% 0,25W
 3034 4822 051 10103 10k 2% 0,25W

3035 4822 051 10008 0Ω 5% 0,25W
 3036 4822 051 10008 0Ω 5% 0,25W
 3037 4822 051 10008 0Ω 5% 0,25W
 3038 4822 051 10393 39k 2% 0,25W
 3039 4822 051 10393 39k 2% 0,25W

3043 4822 051 10103 10k 2% 0,25W
 3044 4822 116 52233 10k 5% 0,5W
 3049 4822 051 10683 68k 2% 0,25W
 3050 4822 051 10332 3k3 2% 0,25W
 3051 4822 051 10223 22k 2% 0,25W

3054 4822 051 10102 1k 2% 0,25W
 3102 4822 051 10008 0Ω 5% 0,25W
 3103 4822 051 10008 0Ω 5% 0,25W
 3116 4822 051 10105 1M 5% 0,25W
 3117 4822 051 10152 1k5 2% 0,25W

3118 4822 051 10682 6k8 2% 0,25W
 3119 4822 051 10681 680Ω 2% 0,25W
 3120 4822 051 10105 1M 5% 0,25W
 3124 ▲ 4822 052 10229 22Ω 5% 0,33W
 3127 4822 051 10152 1k5 2% 0,25W

3135 4822 051 10621 620Ω 2% 0,25W
 3136 4822 053 11181 180Ω 5% 2W
 3137 4822 051 10008 0Ω 5% 0,25W
 3138 4822 051 20222 2k2 5% 0,1W
 3139 4822 051 10008 0Ω 5% 0,25W

3140 4822 051 10008 0Ω 5% 0,25W
 3141 4822 051 10332 3k3 2% 0,25W
 3142 4822 051 10008 0Ω 5% 0,25W
 3143 4822 051 10102 1k 2% 0,25W
 3148 4822 051 10273 27k 2% 0,25W

3149 4822 051 10273 27k 2% 0,25W
 3150 4822 051 10104 100k 2% 0,25W
 3151 4822 051 10008 0Ω 5% 0,25W
 3152 4822 051 10273 27k 2% 0,25W
 3153 4822 051 10123 12k 2% 0,25W

3154 4822 051 10272 2k7 2% 0,25W
 3155 4822 051 10103 10k 2% 0,25W
 3156 4822 051 10008 0Ω 5% 0,25W
 3157 ▲ 4822 050 21003 10k 1% 0,6W
 3158 4822 051 10122 1k2 2% 0,25W

3159 ▲ 4822 052 11208 2Ω 5% 0,5W
 3160 4822 051 10689 68Ω 2% 0,25W
 3161 4822 051 10689 68Ω 2% 0,25W
 3162 4822 051 10104 100k 2% 0,25W
 3163 ▲ 4822 052 11208 2Ω 5% 0,5W

3169 4822 051 10621 620Ω 2% 0,25W
 3170 4822 051 10473 47k 2% 0,25W
 3171 ▲ 4822 116 52283 4k7 5% 0,5W
 3172 4822 051 10472 4k7 2% 0,25W
 3173 4822 051 10621 620Ω 2% 0,25W

3175 4822 051 10102 1k 2% 0,25W
 3251 4822 051 10162 1k6 2% 0,25W
 3252 4822 051 10911 910Ω 2% 0,25W
 3253 4822 051 10751 750Ω 2% 0,25W
 3261 4822 051 10008 0Ω 5% 0,25W

3269 4822 051 10008 0Ω 5% 0,25W
 3289 4822 051 10221 220Ω 2% 0,25W
 3290 4822 051 10104 100k 2% 0,25W
 3291 4822 116 52296 6k8 5% 0,5W
 3293 4822 051 10008 0Ω 5% 0,25W

3296 ▲ 4822 052 10109 10Ω 5% 0,33W
 3297 4822 051 10101 100Ω 2% 0,25W
 3298 4822 051 10101 100Ω 2% 0,25W
 3299 4822 051 10101 100Ω 2% 0,25W
 3303 4822 051 10331 330Ω 2% 0,25W

3304 4822 051 10331 330Ω 2% 0,25W
 3305 4822 051 51201 120Ω 1% 0,125W
 3306 4822 051 10332 3k3 2% 0,25W
 3307 4822 051 10103 10k 2% 0,25W
 3308 4822 116 52233 10k 5% 0,5W

3309 4822 051 10105 1M 5% 0,25W
 3310 4822 051 10561 560Ω 2% 0,25W
 3311 4822 051 10102 1k 2% 0,25W
 3312 4822 051 10008 0Ω 5% 0,25W
 3313 4822 051 10473 47k 2% 0,25W

3314 4822 051 10682 6k8 2% 0,25W
 3315 4822 051 10473 47k 2% 0,25W
 3316 4822 051 10473 47k 2% 0,25W
 3317 4822 051 10472 4k7 2% 0,25W
 3318 4822 051 10472 4k7 2% 0,25W

3319 4822 051 10681 680Ω 2% 0,25W
 3320 4822 100 11824 470Ω 30% 0,1W
 3321 4822 116 52256 2k2 5% 0,5W
 3322 4822 051 10008 0Ω 5% 0,25W
 3350 4822 051 10823 82k 2% 0,25W

3351 4822 116 52249 1k8 5% 0,5W
 3353 4822 051 10473 47k 2% 0,25W
 3353 4822 051 56203 62k 1% 0,125W
 3354 4822 100 11822 22k 30% 0,1W
 3354 4822 100 11844 100k 30%

3355 4822 116 52267 30k 5% 0,5W
 3356 4822 100 11821 6k8 30% 0,1W
 3357 4822 051 20222 2k2 5% 0,1W
 3358 4822 051 10104 100k 2% 0,25W
 3358 4822 051 10433 43k 2% 0,25W

3359 4822 051 10272 2k7 2% 0,25W
 3360 4822 051 10008 0Ω 5% 0,25W
 3362 4822 051 10101 100Ω 2% 0,25W
 3363 4822 051 10008 0Ω 5% 0,25W
 3364 4822 051 10394 390k 2% 0,25W

3370 ▲ 4822 052 11471 470Ω 5% 0,5W
 3401 4822 116 52259 2k4 5% 0,5W
 3402 ▲ 4822 050 23901 390Ω 1% 0,6W
 3402 4822 116 52222 390Ω 5% 0,5W
 3403 ▲ 4822 116 52266 3k 5% 0,5W

3403 ▲	4822 116 52269	3k3 5% 0,5W	3522	4822 053 11569	56Ω 5% 2W	33631	4822 116 52275	360k 5% 0,5W
3403	4822 116 52276	3k9 5% 0,5W	3523	4822 050 24708	407 1% 0,6W	3635	4822 051 10008	0Ω 5% 0,25W
3404	4822 051 10202	2k 2% 0,25W	3525	4822 053 11209	20Ω 5% 2W	3651	4822 051 10103	10k 2% 0,25W
3404 ▲	4822 051 10242	2k4 2% 0,25W	3530	4822 115 10114	150Ω 10%	3652	4822 116 52207	1k2 5% 0,5W
3404	4822 051 10432	4k3 2% 0,25W	3533	4822 050 14703	47k 1% 0,4W	3653	4822 116 52207	1k2 5% 0,5W
3405	4822 051 10131	130Ω 2% 0,25W	3533	4822 050 14873	48k7 1% 0,4W	654	4822 051 10102	1k 2% 0,25W
3405	4822 051 10151	150Ω 2% 0,25W	3534	4822 051 10302	3k 2% 0,25W	3655	4822 051 10102	1k 2% 0,25W
3405	4822 051 10159	15Ω 2% 0,25W	3534	4822 051 10332	3k3 2% 0,25W	3656	4822 051 10103	10k 2% 0,25W
3406	4822 051 10123	12k 2% 0,25W	3535	4822 100 11794	1k 10%	3657	4822 051 10683	68k 2% 0,25W
3406	4822 051 10153	15k 2% 0,25W	3544 ▲	4822 052 10108	1Ω 5% 0,33W	3658	4822 051 10272	2k7 2% 0,25W
3406	4822 051 20183	18k 5% 0,1W	3547	4822 050 11502	1k5 1% 0,4W	3659	4822 051 10911	910Ω 2% 0,25W
3407	4822 051 10223	22k 2% 0,25W	3549	4822 051 10479	47Ω 2% 0,25W	3660	4822 116 52175	100Ω 5% 0,5W
3407	4822 051 20183	18k 5% 0,1W	3550	4822 051 10122	1k2 2% 0,25W	3661	4822 050 11002	1k 1% 0,4W
3408 ▲	4822 053 10681	680Ω 5% 1W	3550	4822 051 10152	1k5 2% 0,25W	3663	4822 051 10151	150Ω 2% 0,25W
3408	4822 116 52259	2k4 5% 0,5W	3551	4822 051 10151	150Ω 2% 0,25W	3663	4822 051 10471	470Ω 2% 0,25W
3409	4822 051 10008	0Ω 5% 0,25W	3552	4822 051 10101	100Ω 2% 0,25W	3664	4822 116 52296	6k8 5% 0,5W
3410	4822 100 11658	330Ω 30% 0,1W	3553	4822 051 10221	220Ω 2% 0,25W	3664	4822 116 52306	9k1 5% 0,5W
3411	4822 050 24308	4Ω3 1% 0,6W	3554	4822 053 11689	68Ω 5% 2W	3665	4822 050 11002	1k 1% 0,4W
3411 ▲	4822 052 11208	2Ω 5% 0,5W	3555	4822 051 10101	100Ω 2% 0,25W	3666	4822 051 10151	150Ω 2% 0,25W
3411	4822 116 83985	3Ω6 5% 0,33W	3556	4822 051 10681	680Ω 2% 0,25W	3666	4822 051 10471	470Ω 2% 0,25W
3412	4822 050 24308	4Ω3 1% 0,6W	3557 ▲	4822 053 11271	270Ω 5% 2W	3667	4822 116 52233	10k 5% 0,5W
3412 ▲	4822 052 10278	2Ω7 5% 0,33W	3558	4822 051 10101	100Ω 2% 0,25W	3668	4822 051 10433	43k 2% 0,25W
3412	4822 116 83984	2Ω7 5% 0,33W	3560	4822 051 10101	100Ω 2% 0,25W	3669	4822 051 10103	10k 2% 0,25W
3413	4822 051 10273	27k 2% 0,25W	3561 ▲	4822 116 52219	330Ω 5% 0,5W	3670	4822 116 52233	10k 5% 0,5W
3414	4822 051 10008	0Ω 5% 0,25W	3562	4822 051 10271	270Ω 2% 0,25W	3671	4822 051 10103	10k 2% 0,25W
3415	4822 116 52253	2k 5% 0,5W	3563	4822 051 10008	0Ω 5% 0,25W	3672	4822 051 10102	1k 2% 0,25W
3416	4822 116 52253	2k 5% 0,5W	3564 ▲	4822 052 10109	10Ω 5% 0,33W	3673	4822 051 10103	10k 2% 0,25W
3417	4822 051 10008	0Ω 5% 0,25W	3565	4822 051 10103	10k 2% 0,25W	3674	4822 050 11002	1k 1% 0,4W
3418	4822 051 10008	0Ω 5% 0,25W	3566	4822 051 10123	12k 2% 0,25W	3676	4822 116 52233	10k 5% 0,5W
3419	4822 051 10008	0Ω 5% 0,25W	3567	4822 051 20183	18k 5% 0,1W	3678	4822 051 10008	0Ω 5% 0,25W
3419	4822 051 10101	100Ω 2% 0,25W	3568	4822 053 11122	1k2 5% 2W	3679	4822 051 20222	2k2 5% 0,1W
3440 ▲	4822 116 52199	68Ω 5% 0,5W	3569	4822 116 52175	100Ω 5% 0,5W	3680	4822 051 10008	0Ω 5% 0,25W
3442	4822 051 10562	5k6 2% 0,25W	3570	4822 116 52257	22k 5% 0,5W	3682	4822 051 10008	0Ω 5% 0,25W
3443	4822 113 80583	4Ω7 10% 5W	3571 ▲	4822 050 24701	470Ω 1% 0,6W	3683	4822 051 10008	0Ω 5% 0,25W
3444	4822 053 11562	5k6 5% 2W	3572 ▲	4822 116 52202	82Ω 5% 0,5W	3684	4822 051 10332	3k3 2% 0,25W
3444 ▲	4822 117 10037	4k7 5% 3W	3573	4822 116 52284	47k 5% 0,5W	3685	4822 051 10332	3k3 2% 0,25W
3445	4822 051 10479	47Ω 5% 0,25W	3574	4822 051 10104	100k 2% 0,25W	3686	4822 051 10102	1k 2% 0,25W
3448 ▲	4822 052 10108	1Ω 5% 0,33W	3591	4822 051 10008	0Ω 5% 0,25W	3687	4822 051 10102	1k 2% 0,25W
3449 ▲	4822 052 10108	1Ω 5% 0,33W	3593	4822 051 10008	0Ω 5% 0,25W	3688	4822 051 10225	2M2 5% 0,25W
3451	4822 051 10333	33k 2% 0,25W	3601	4822 116 52233	10k 5% 0,5W	3689	4822 051 10104	100k 2% 0,25W
3452 ▲	4822 052 10109	10Ω 5% 0,33W	3602	4822 116 52303	8k2 5% 0,5W	3692	4822 050 11002	1k 1% 0,4W
3452 ▲	4822 052 10159	15Ω 5% 0,33W	3603	4822 050 12403	2,2M 0,125W	3693	4822 116 52284	47k 5% 0,5W
3452 ▲	4822 052 10478	4Ω7 5% 0,33W	3604	4822 051 10151	150Ω 2% 0,25W	3694	4822 051 10008	0Ω 5% 0,25W
3454 ▲	4822 052 11102	1k 5% 0,5W	3604	4822 051 10339	33Ω 2% 0,25W	3695	4822 051 10101	100Ω 2% 0,25W
3455	4822 051 10123	12k 2% 0,25W	3605	4822 050 12204	220k 1% 0,4W	3696	4822 051 10101	100Ω 2% 0,25W
3455	4822 051 20183	18k 5% 0,1W	3606	4822 116 52233	10k 5% 0,5W	3697	4822 051 10101	100Ω 2% 0,25W
3456	4822 053 20334	330k 5% 0,25W	3607	4822 051 10332	3k3 2% 0,25W	3698	4822 116 52175	100Ω 5% 0,5W
3456	4822 053 20434	430k 5% 0,25W	3610	4822 051 10153	15k 2% 0,25W	3699	4822 051 10472	4k7 2% 0,25W
3457	4822 113 80573	270Ω 10% 5W	3611	4822 051 10103	10k 2% 0,25W	3850	4822 051 10123	12k 2% 0,25W
3460	4822 051 10103	10k 2% 0,25W	3612	4822 051 10103	10k 2% 0,25W	3851	4822 116 80747	75Ω 5% 0,125W
3460	4822 051 10113	11k 2% 0,25W	3613	4822 051 10123	12k 2% 0,25W	3852	4822 051 10123	12k 2% 0,25W
3465	4822 051 10185	1M8 5% 0,25W	3614	4822 051 10472	4k7 2% 0,25W	3853	4822 116 80747	75Ω 5% 0,125W
3470 ▲	4822 052 10478	4Ω7 5% 0,33W	3614	4822 051 10473	47k 2% 0,25W	3854	4822 051 10008	0Ω 5% 0,25W
3470 ▲	4822 052 10828	8Ω2 5% 0,33W	3615	4822 051 10824	820k 2% 0,25W	3855	4822 116 80747	75Ω 5% 0,125W
3501	4822 116 40137	PTC 36Ω 365V	3616	4822 051 10008	0Ω 5% 0,25W	3856	4822 051 10008	0Ω 5% 0,25W
3503 ▲	4822 053 21475	4M7 5% 0,5W	3616	4822 116 52284	47k 5% 0,5W	3857	4822 051 10008	0Ω 5% 0,25W
3504 ▲	4822 053 21475	4M7 5% 0,5W	3617	4822 051 10008	0Ω 5% 0,25W	3858	4822 116 80747	75Ω 5% 0,125W
3508	4822 051 10333	33k 2% 0,25W	3617	4822 051 10562	5k6 2% 0,25W	3859	4822 051 10008	0Ω 5% 0,25W
3509	4822 116 52274	36k 5% 0,5W	3618	4822 051 20183	18k 5% 0,1W	3860	4822 051 10471	470Ω 2% 0,25W
3510	4822 051 10333	33k 2% 0,25W	3620	4822 051 10433	43k 2% 0,25W	3862	4822 050 11002	1k 1% 0,4W
3511	4822 051 10102	1k 2% 0,25W	3621	4822 051 10363	36k 2% 0,25W	3865	4822 116 82719	56Ω 5% 0,125W
3513	4822 051 10223	22k 2% 0,25W	3621	4822 051 10393	39k 2% 0,25W	3866	4822 116 82718	18Ω 5% 0,125W
3514	4822 116 52278	390k 5% 0,5W	3622	4822 116 52284	47k 5% 0,5W	3871	4822 116 52215	220Ω 5% 0,5W
3515	4822 051 10471	470Ω 2% 0,25W	3623	4822 116 52257	22k 5% 0,5W	3875	4822 116 52196	51Ω 5% 0,5W
3516	4822 051 10101	100Ω 2% 0,25W	3624	4822 051 10273	27k 2% 0,25W	3876	4822 051 10332	3k3 2% 0,25W
3517	4822 116 52206	120Ω 5% 0,5W	3625	4822 051 10163	16k 2% 0,25W	3878	4822 116 52251	18k 5% 0,5W
3518	4822 051 10224	220k 2% 0,25W	3626	4822 116 52251	18k 5% 0,5W	3879	4822 051 10473	47k 2% 0,25W
3520	4822 051 10184	180k 2% 0,25W	3627	4822 051 10223	22k 2% 0,25W	3880	4822 051 10562	5k6 2% 0,25W
3521	4822 053 11209	20Ω 5% 2W	3628	4822 051 10393	39k 2% 0,25W	3881	4822 051 10103	10k 2% 0,25W
3521	4822 053 11569	56Ω 5% 2W	3630	4822 051 10274	270k 2% 0,25W	3882	4822 051 10752	7k5 2% 0,25W

3883 4822 051 10103 10k 2% 0,25W
3901 4822 051 10008 0Ω 5% 0,25W
3902 4822 051 10008 0Ω 5% 0,25W

5010 4822 157 62552 2,2μH
5012 4822 157 63068 0,28μH
5018 4822 526 10494 FERRITE BEAD
5030 4822 157 60123 6,8μH
5032 4822 157 62767 8,2μH

5040 4822 157 63064 0,19μH
5040 4822 157 63071 0,3μH
5043 4822 157 63069 0,7μH
5102 4822 157 63524 1,0μH
5104 4822 157 63525 0,35μH

5106 4822 157 63526 0,34μH
5138 4822 157 53635 10K 0,75μH 6%
5139 4822 157 53635 10K 0,75μH 6%
5177 4822 157 52333 100μH
5251 4822 320 40235 DELAY LINE

5255 4822 157 53302 1,0μH
5258 ▲ 4822 157 51462 10μH
5259 4822 157 52808 10μH
5284 4822 157 60141 3,3μH
5285 4822 157 60141 3,3μH

5286 4822 157 60141 3,3μH
5296 ▲ 4822 157 51462 10μH
5320 4822 157 52808 10μH
5440 4822 157 52983 2N2
5441 4822 146 21116 LOT DRIVER

5443 ▲ 4822 157 51462 10μH
5445 ▲ 4822 140 10406 LOT AT2079/40
5447 4822 157 62766 262LYF-0095K
5449 4822 156 20966 47μH
5449 4822 158 10551 27μH

5452 4822 157 51157 3,3μH
5453 ▲ 4822 157 51462 10μH
5454 4822 156 21332 LIN. COIL (21")
5454 4822 157 53205 LIN. C. (14/17")
5470 ▲ 4822 157 51462 10μH

5500 4822 212 22978 MAINS FILTER
5503 4822 157 53139 4,7μH
5515 4822 157 50963 2,2μH
5521 4822 157 51195 1μH
5524 4822 157 53542 1μH 2%

5525 4822 148 81121 SOPS TRF
5529 4822 157 63411 68μH
5530 4822 157 63411 68μH
5531 4822 158 10551 27μH
5532 4822 157 51157 3,3μH

5534 4822 157 62878 3,3μH
5540 4822 156 20966 47μH
5541 4822 156 20966 47μH
5545 4822 157 51195 1μH
5554 4822 157 51157 3,3μH

5560 ▲ 4822 157 51462 10μH
5601 ▲ 4822 157 51462 10μH
5652 ▲ 4822 157 51462 10μH
5653 ▲ 4822 157 51462 10μH
5677 4822 157 53906 47μH



6014 4822 130 80888 BA682
6020 4822 130 81223 LLZ-C2V4
6034 4822 130 80446 LL4148
6042 4822 130 80888 BA682
6050 ▲ 4822 130 30621 1N4148

6051 ▲ 4822 130 30621 1N4148
6052 ▲ 4822 130 30621 1N4148

6053 4822 130 80446 LL4148
6054 4822 130 81147 LLZ-F6V2
6055 4822 130 80446 LL4148
6115 4822 130 80888 BA682
6116 4822 130 80888 BA682

6119 4822 130 80888 BA682
6120 4822 130 80888 BA682
6135 4822 130 80883 LLZ-C4V7
6170 4822 130 80888 BA682
6172 4822 130 80888 BA682

6289 4822 130 80446 BAS32L
6306 4822 130 80954 LLZ-C5V6
6370 4822 130 82304 LLZ-F12
6415 4822 130 80446 LL4148
6416 4822 130 42488 BYD33D

6443 5322 130 31938 BYV27-200
6446 4822 130 32896 BYD33M
6447 4822 130 32896 BYD33M
6449 4822 130 42488 BYD33D
6449 5322 130 32967 BYV26B

6451 4822 130 42488 BYD33D
6452 4822 130 42488 BYD33D
6453 4822 130 42488 BYD33D
6470 4822 130 42488 BYD33D
6502 4822 130 81497 1N4005GP

6503 4822 130 81497 1N4005GP
6504 4822 130 81497 1N4005GP
6505 4822 130 81497 1N4005GP
6511 4822 130 80446 LL4148
6513 4822 130 80446 LL4148

6514 4822 130 80446 LL4148
6515 4822 130 80446 LL4148
6516 4822 130 80886 LLZ-F22
6517 4822 130 31456 BZV85-C5V1
6521 4822 130 42488 BYD33D

6522 ▲ 4822 130 30621 1N4148
6523 4822 130 80446 LL4148
6530 4822 130 82033 BYD34J
6537 4822 130 34167 BZX79-F6V2
6540 4822 130 42488 BYD33D

6545 4822 130 42488 BYD33D
6549 4822 130 80446 LL4148
6554 4822 130 42489 BYD33G
6555 4822 130 82305 LLZ-F18
6557 4822 130 80887 LLZ-F36

6558 4822 130 80887 LLZ-F36
6559 4822 130 80887 LLZ-F36
6562 4822 130 80905 LLZ-F5V1
6566 4822 130 34174 BZX79-F4V7
6568 4822 130 81147 LLZ-F6V2

6569 4822 130 80446 LL4148
6570 4822 130 20245 SF0R5D43
6573 4822 130 80446 LL4148
6602 4822 130 82037 HZT33
6603 4822 130 80446 LL4148

6604 4822 130 80446 LL4148
6605 4822 130 80446 LL4148
6606 4822 130 80446 LL4148
6658 4822 130 80446 LL4148
6663 ▲ 4822 209 30563 TLXR5400

6679 4822 130 80446 LL4148
6698 4822 130 80446 LL4148
6849 ▲ 4822 130 30621 1N4148
6850 4822 130 80446 LL4148
6851 4822 130 80446 LL4148

6852 4822 130 80446 LL4148
6853 4822 130 80446 LL4148
6854 4822 130 80446 LL4148
6855 4822 130 80446 LL4148
6865 ▲ 4822 130 30621 1N4148



7002 4822 209 10892 LA7910
7015 4822 209 63107 TDA4504B/N1B
7027 4822 130 61207 BC848
7030 4822 130 61207 BC848
7038 4822 130 61207 BC848

7125 4822 209 63105 TDA3843/V3
7135 4822 209 30278 TDA3827/V3
7156 4822 130 61207 BC848
7157 ▲ 4822 209 60956 TDA7052/N1
7158 4822 130 61207 BC848

7170 4822 130 61207 BC848
7221 4822 209 31714 TDA4661/V2
7250 4822 209 30011 TDA4650/V4
7251 4822 130 61207 BC848
7255 4822 130 42696 BC818-25

7256 4822 130 61207 BC848
7260 4822 209 30389 TDA4510/V8
7280 4822 209 63104 TDA3504/V1
7290 4822 130 42134 BC858BR
7400 4822 209 60955 TDA3653B/N1

7440 4822 130 41782 BF422
7445 4822 130 42679 BUT11AF
7512 5322 130 42136 BC848C
7514 ▲ 4822 130 82034 CNX83A
7515 4822 130 42513 BC858C

7516 5322 130 44349 BC635
7525 4822 130 42679 BUT11AF
7537 5322 130 60159 BC846B
7552 4822 130 42155 BC327A
7553 5322 130 42012 BC858A

7554 4822 130 42032 BC337A
7555 5322 130 60159 BC846
7556 4822 130 60136 BC856
7561 4822 130 40823 BD135
7563 5322 130 42012 BC858

7571 4822 130 61207 BC848
7600 4822 209 32117 TMP47C434N3146
7600 4822 209 32139 TMP47C834NR132
7600 4822 209 63948 TMP47C434N3122
7605 4822 209 73852 PMBT2369

7654 4822 130 61207 BC848
7658 4822 209 73852 PMBT2369
7665 4822 130 61207 BC848
7670 4822 130 61207 BC848
7672 4822 130 61207 BC848

7674 4822 130 61207 BC848
7685 4822 209 62098 ST24C02A
7686 4822 130 61207 BC848
7875 4822 130 61207 BC848
7876 4822 130 61207 BC848

7877 4822 130 61207 BC848

Picture tube module

▲ 4822 255 70251 CRT SOCKET

Various

1235 ▲ 4822 071 56301 FUSE 630MA



2202	4822 126 11544	22000pF 63V
2204	4822 122 32142	270pF 2% 63V
2206	4822 124 41828	1µF 20% 250V
2217	4822 122 32142	270pF 2% 63V
2230	4822 122 32142	270pF 2% 63V
2237	4822 121 41926	33nF 5% 630V



3202	4822 053 11123	12k 5% 2W
3203	4822 111 50518	1k5 5% 0,5W
3204	4822 051 10229	22Ω 2% 0,25W
3205	4822 051 10621	620Ω 2% 0,25W
3206	4822 051 10112	1k1 2% 0,25W
3207	4822 100 11638	4k7 20% 0,1W
3207	4822 100 20171	2k2 10% 0,05W
3208	4822 051 10008	0Ω 5% 0,25W
3208 ▲	4822 051 10242	2k4 2% 0,25W
3210	4822 051 10332	3k3 2% 0,25W
3211	4822 051 10332	3k3 2% 0,25W
3212	4822 051 10332	3k3 2% 0,25W
3213	4822 100 11637	2k2 20% 0,1W
3214	4822 100 11637	2k2 20% 0,1W
3215	4822 053 11123	12k 5% 2W
3216	4822 111 50518	1k5 5% 0,5W
3217	4822 051 10229	22Ω 2% 0,25W
3218	4822 051 10621	620Ω 2% 0,25W
3219	4822 051 10112	1k1 2% 0,25W
3220	4822 100 11638	4k7 20% 0,1W
3220	4822 100 20171	2k2 10% 0,05W
3221	4822 051 10008	0Ω 5% 0,25W
3221 ▲	4822 051 10242	2k4 2% 0,25W
3222	4822 051 10561	560Ω 2% 0,25W
3224	4822 051 10152	1k5 2% 0,25W
3225	4822 051 10432	4k3 2% 0,25W
3226	4822 051 10112	1k1 2% 0,25W
3226	4822 051 10911	910Ω 2% 0,25W
3227	4822 051 10102	1k 2% 0,25W
3228	4822 053 11123	12k 5% 2W
3229	4822 111 50518	1k5 5% 0,5W
3230	4822 051 10229	22Ω 2% 0,25W
3231	4822 051 10008	0Ω 5% 0,25W
3231 ▲	4822 051 10242	2k4 2% 0,25W
3232	4822 051 10621	620Ω 2% 0,25W
3233	4822 051 10112	1k1 2% 0,25W
3234	4822 100 11638	4k7 20% 0,1W
3234	4822 100 20171	2k2 10% 0,05W
3235 ▲	4822 052 10108	1Ω 5% 0,33W
3236	4822 111 50518	1k5 5% 0,5W
3237	4822 111 50518	1k5 5% 0,5W



5235	4822 158 10549	12 µH (21")
5235	5322 157 53016	10 µH (14/17")



6205	4822 130 80446	BAS32L
6218	4822 130 80446	BAS32L
6227	4822 130 80446	BAS32L



7205	4822 130 41782	BF422
7218	4822 130 41782	BF422
7225	5322 130 42012	BC858
7227	4822 130 41782	BF422

Teletext module

4822 265 40469	CONN. 6P FEM.
4822 265 40471	CONN. 8P FEM.

Various

1701	4822 242 81246	27MHz
1702	4822 242 71508	6,00MHz
1710 ▲	4822 071 52501	FUSE 250MA



2701	4822 122 32504	15pF 2% 63V
2702	4822 122 31971	10pF 2% 63V
2703	4822 122 31746	1000pF 2% 63V
2704	4822 122 33496	100nF 10% 63V
2705	4822 122 33496	100nF 10% 63V
2706	4822 122 33496	100nF 10% 63V
2707	4822 122 33496	100nF 10% 63V
2709	4822 126 10324	33pF 2% 63V
2710	4822 126 10324	33pF 2% 63V
2712	4822 122 33496	100nF 10% 63V
2713	4822 122 33496	100nF 10% 63V
2714	4822 122 33496	100nF 10% 63V
2715	4822 122 33496	100nF 10% 63V
2716	4822 122 33496	100nF 10% 63V
2732	4822 122 33496	100nF 10% 63V
2734	4822 124 40435	10µF 20% 50V
2736	4822 122 31766	120pF 2% 63V
2750	4822 124 40177	47µF 20% 10V
2752	4822 124 40177	47µF 20% 10V
2770	4822 124 41584	100µF 20% 10V



3700 ▲	4822 116 52219	330Ω 5% 0,5W
3701 ▲	4822 116 52219	330Ω 5% 0,5W
3702	4822 051 10332	3k3 2% 0,25W
3704	4822 051 10152	1k5 2% 0,25W
3705	4822 051 10273	27k 2% 0,25W
3706	4822 116 52213	180Ω 5% 0,5W
3707	4822 050 11002	1k 1% 0,4W
3709	4822 051 10333	33k 2% 0,25W
3710	4822 051 10103	10k 2% 0,25W
3711	4822 051 10101	100Ω 2% 0,25W
3713	4822 051 10223	22k 2% 0,25W
3714	4822 051 10103	10k 2% 0,25W
3716	4822 051 51201	120Ω 1% 0,125W
3718	4822 116 52208	130Ω 5% 0,5W
3722	4822 051 10122	1k2 2% 0,25W
3723	4822 051 10102	1k 2% 0,25W
3724	4822 051 10332	3k3 2% 0,25W
3725	4822 051 10279	27Ω 2% 0,25W
3726	4822 051 10279	27Ω 2% 0,25W
3728	4822 051 10822	8k2 2% 0,25W
3729	4822 051 10331	330Ω 2% 0,25W
3730	4822 051 10471	470Ω 2% 0,25W
3731	4822 051 10331	330Ω 2% 0,25W
3732	4822 051 10102	1k 2% 0,25W
3733	4822 051 10102	1k 2% 0,25W
3734	4822 051 10681	680Ω 2% 0,25W
3735	4822 051 10561	560Ω 2% 0,25W
3736	4822 051 10473	47k 2% 0,25W
3737	4822 050 11002	1k 1% 0,4W
3738	4822 116 52284	47k 5% 0,5W
3740	4822 051 10102	1k 2% 0,25W
3741	4822 051 10102	1k 2% 0,25W
3742	4822 051 10102	1k 2% 0,25W
3750	4822 051 51201	120Ω 1% 0,125W
3751	4822 051 51201	120Ω 1% 0,125W
3752	4822 051 10101	100Ω 2% 0,25W
3756	4822 051 10103	10k 2% 0,25W

3757	4822 051 10101	100Ω 2% 0,25W
3760	4822 116 52256	2k2 5% 0,5W
3761	4822 116 52256	2k2 5% 0,5W
3762	4822 116 52175	100Ω 5% 0,5W

3763	4822 051 10101	100Ω 2% 0,25W
3765 ▲	4822 116 52202	82Ω 5% 0,5W
3766 ▲	4822 116 52202	82Ω 5% 0,5W
3767 ▲	4822 116 52202	82Ω 5% 0,5W
3768	4822 051 10101	100Ω 2% 0,25W

3769	4822 051 10331	330Ω 2% 0,25W
3770	4822 051 10101	100Ω 2% 0,25W

Jumper

4700	4822 051 10008	0Ω 5% 0,25W
4703	4822 051 10008	0Ω 5% 0,25W
4704	4822 051 10008	0Ω 5% 0,25W
4720	4822 051 10008	0Ω 5% 0,25W

5701	4822 157 70386	4,7μH
5704	4822 157 60123	6,8μH
5734	4822 157 53001	27μH
5746	4822 157 60123	6,8μH
5747	4822 157 60123	6,8μH
5770	4822 157 60123	6,8μH

6704	4822 130 82886	LLZ-F3V0
6705	4822 130 80446	LL4148
6710	4822 130 81139	LLZ-C3V3
6750	4822 130 81227	LLZ-F5V6
6751	4822 130 81227	LLZ-F5V6

7700	4822 209 31215	SAA5246AP/H
7700	4822 209 32122	SAA5246AP/E/S
7701	4822 209 72681	MSM5165AL-12RS
7702	4822 209 30281	PCF84C81A/097
7702	4822 209 31069	PCF84C81AP/098
7702	4822 209 32102	PCF84C81AP/125
7710 ▲	5322 130 41982	BC848B
7711 ▲	5322 130 41982	BC848B
7713	5322 130 60159	BC846B
7715 ▲	5322 130 41982	BC848B
7731	5322 130 42012	BC858
7732 ▲	5322 130 41982	BC848B
7750	4822 130 40855	BC337
7751	4822 130 40855	BC337
7754 ▲	5322 130 41982	BC848B
7755 ▲	5322 130 41982	BC848B
7765 ▲	5322 130 41982	BC848B
7766 ▲	5322 130 41982	BC848B
7767 ▲	5322 130 41982	BC848B

Interface module

4822 265 30497	CONN. 5P MALE
4822 264 50148	CONN. 8P MALE
4822 267 50591	CONN. 6P MALE

3781	4822 116 52233	10k 5% 0,5W
3782	4822 117 10224	12Ω 5% 1W
3783	4822 116 52226	560Ω 5% 0,5W
3784	4822 116 52226	560Ω 5% 0,5W
3785	4822 116 52226	560Ω 5% 0,5W
3786	4822 050 11002	1k 1% 0,4W