

Service  
Service  
**Service**

**GR2.4**  
AA  
SUPPLEMENT

# Service Manual

Supplement to Chassis Manual  
GR2.4 AA 4822 727 20662

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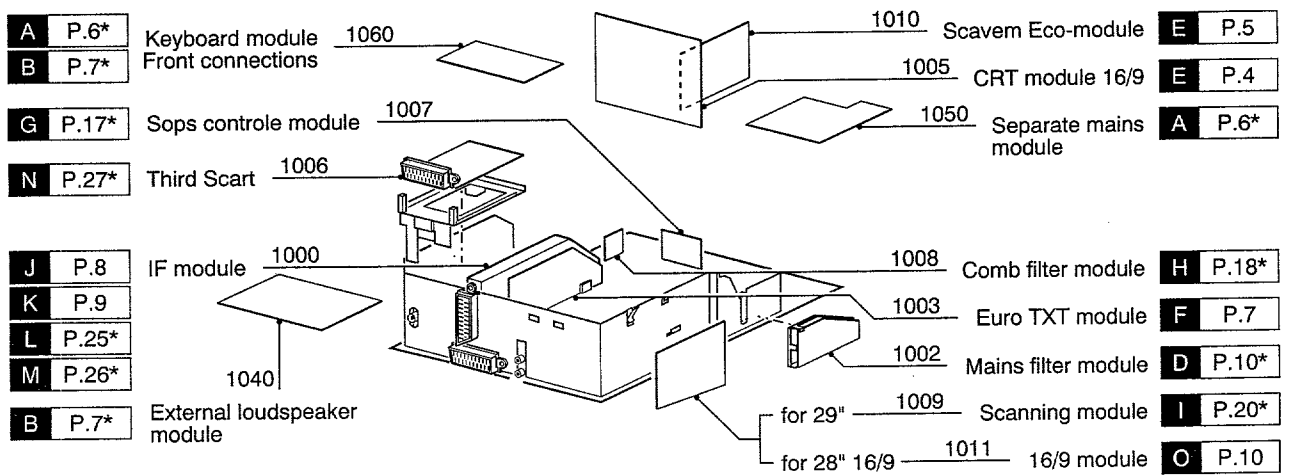
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## 1. Supplementary technical specifications

Picture tube: 16/9 with "scavem"  
 Sound: NICAM BGL

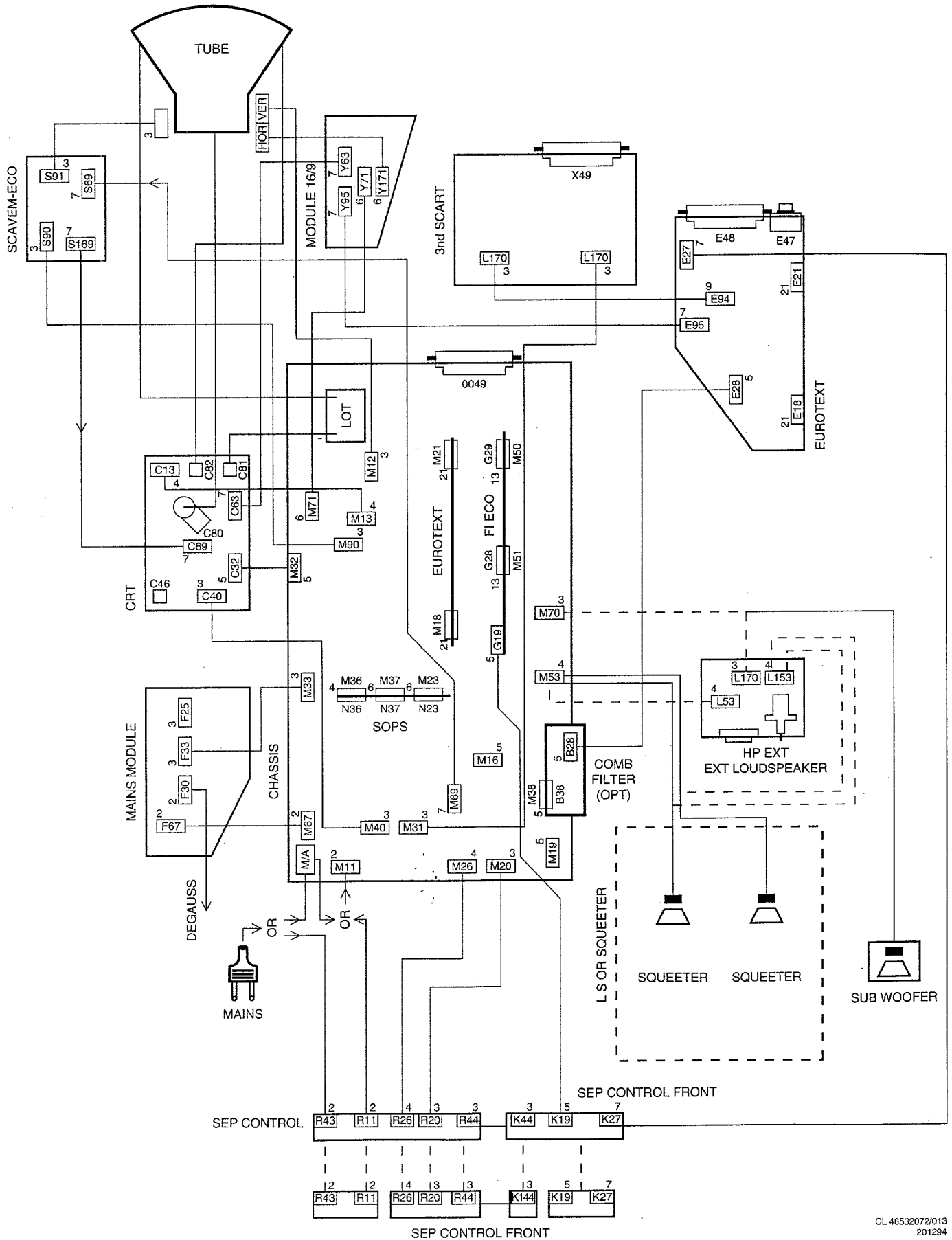
## 2. PWB location diagram



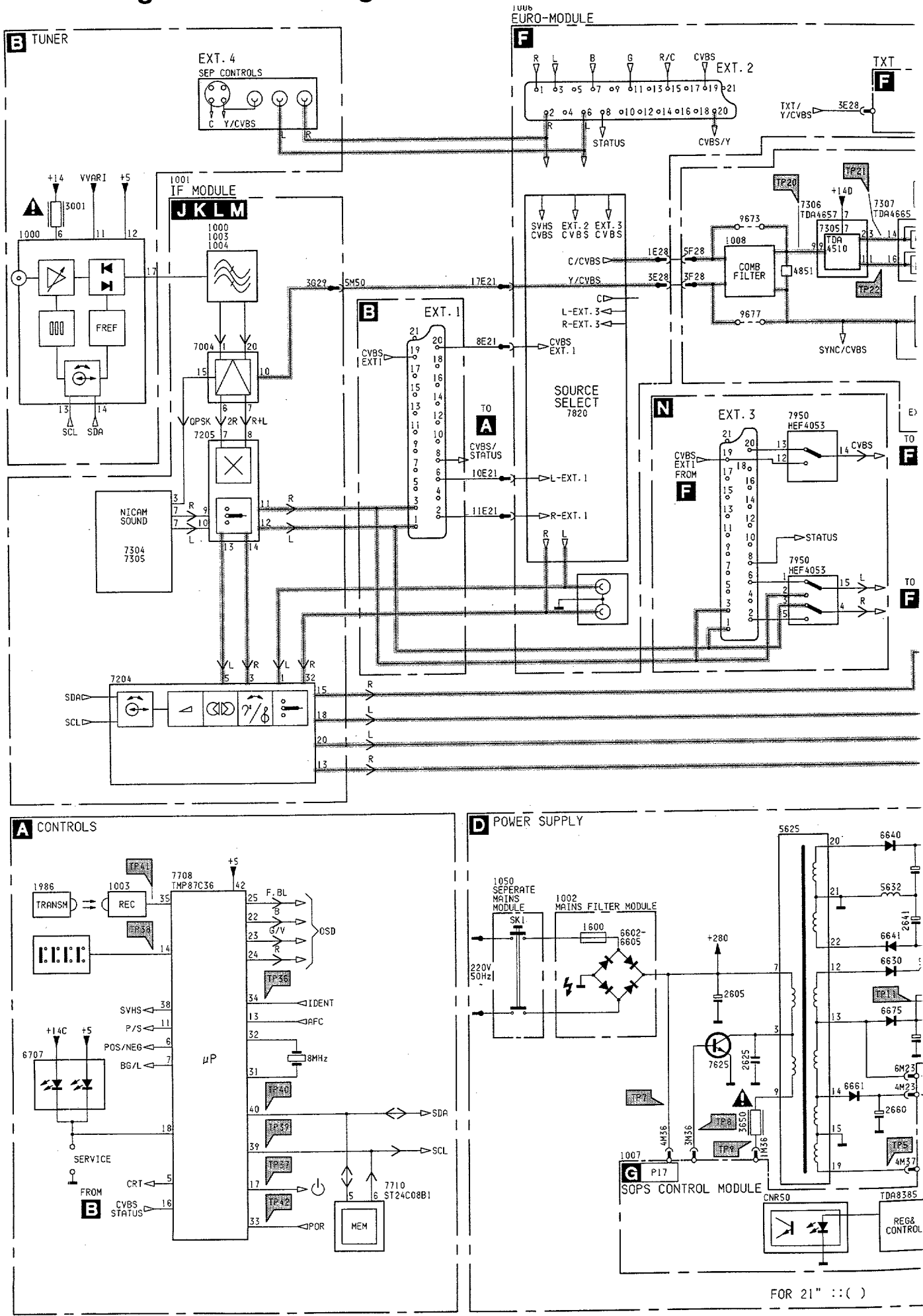
\* See Chassis Manual GR2.4 AA

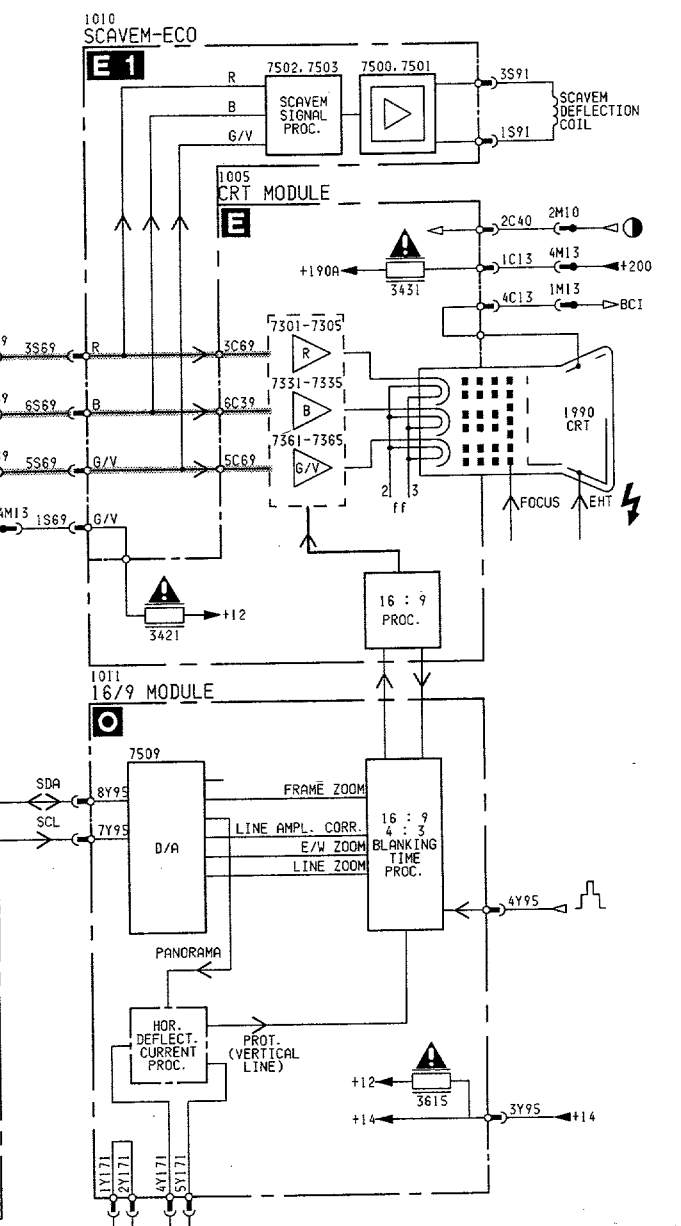
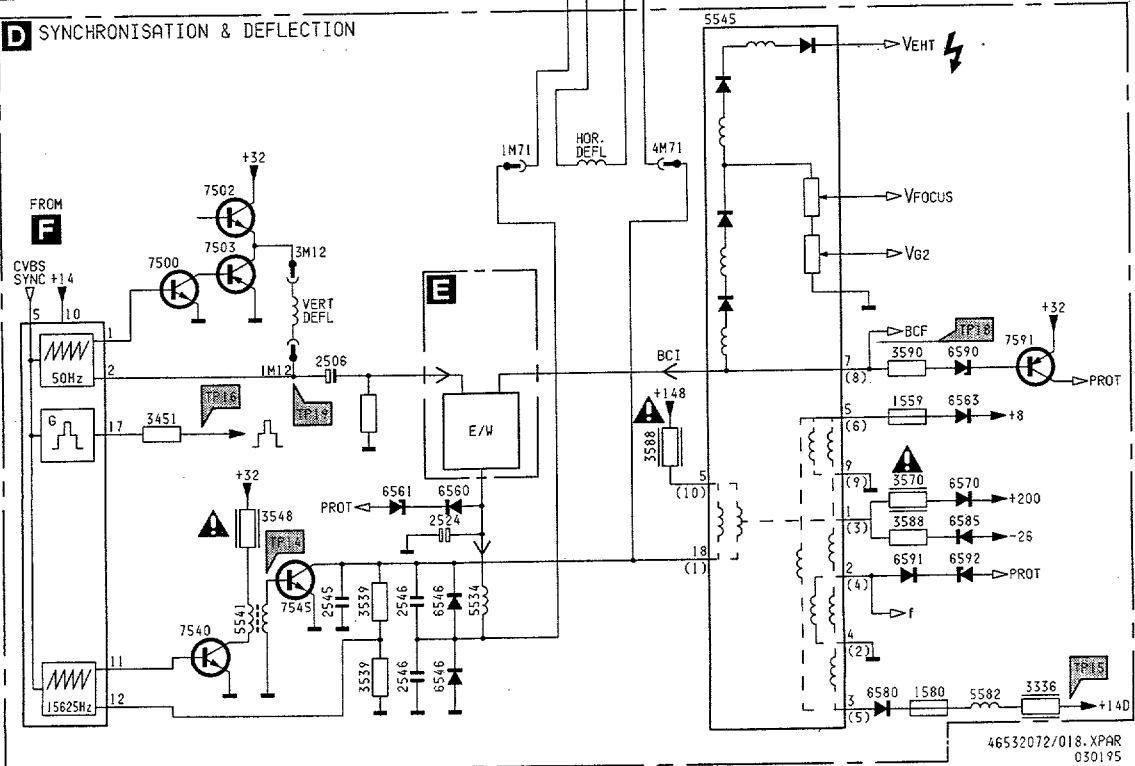
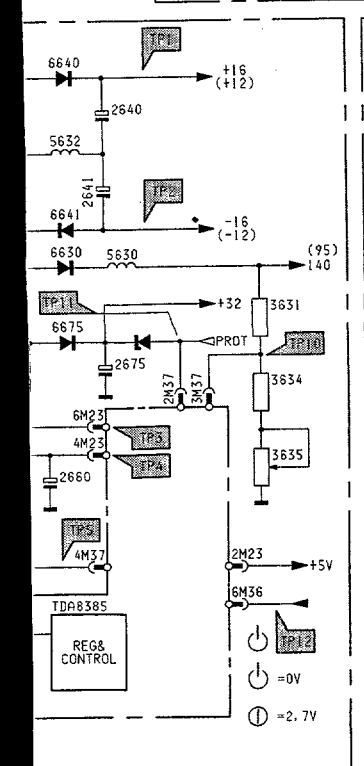
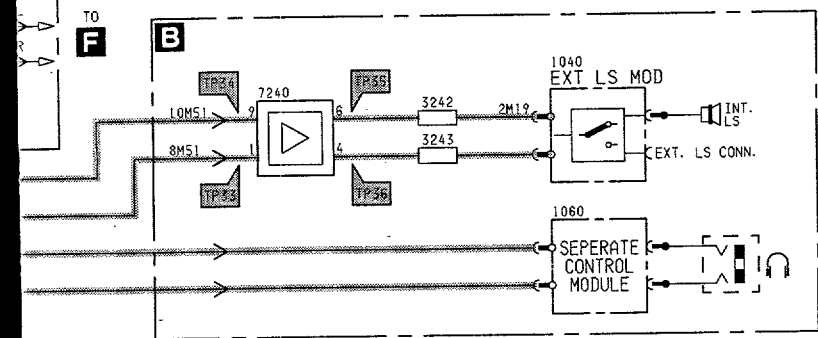
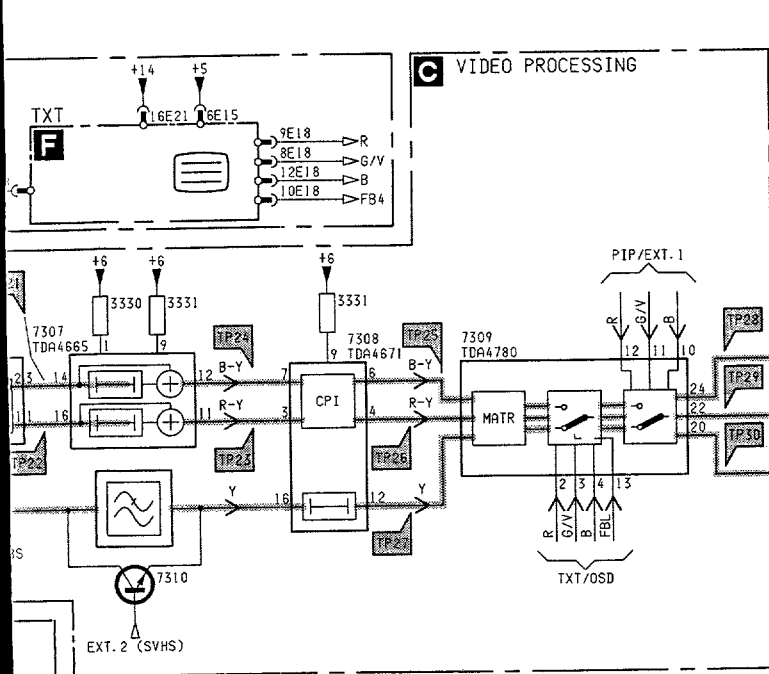
CL 46532072/012  
151294

# 5. Wiring diagram / Verdrahtungszeichnung / Schéma de câblage



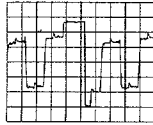
# Block diagram / Blockdiagramm / Schéma bloc





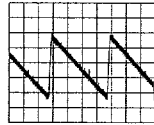
# 6. Picture tube module 16/9 / Bilc

TP51



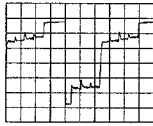
20V/div AC  
10µs/div

TP56



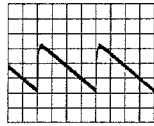
500mV/div AC  
5ms/div

TP52



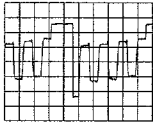
20V/div AC  
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TP57



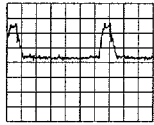
500mV/div AC  
5ms/div

TP53



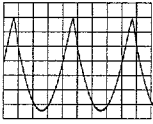
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10µs/div

TP58



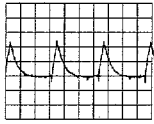
100mV/div AC  
10µs/div

TP54



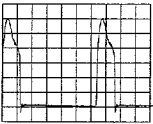
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TP59

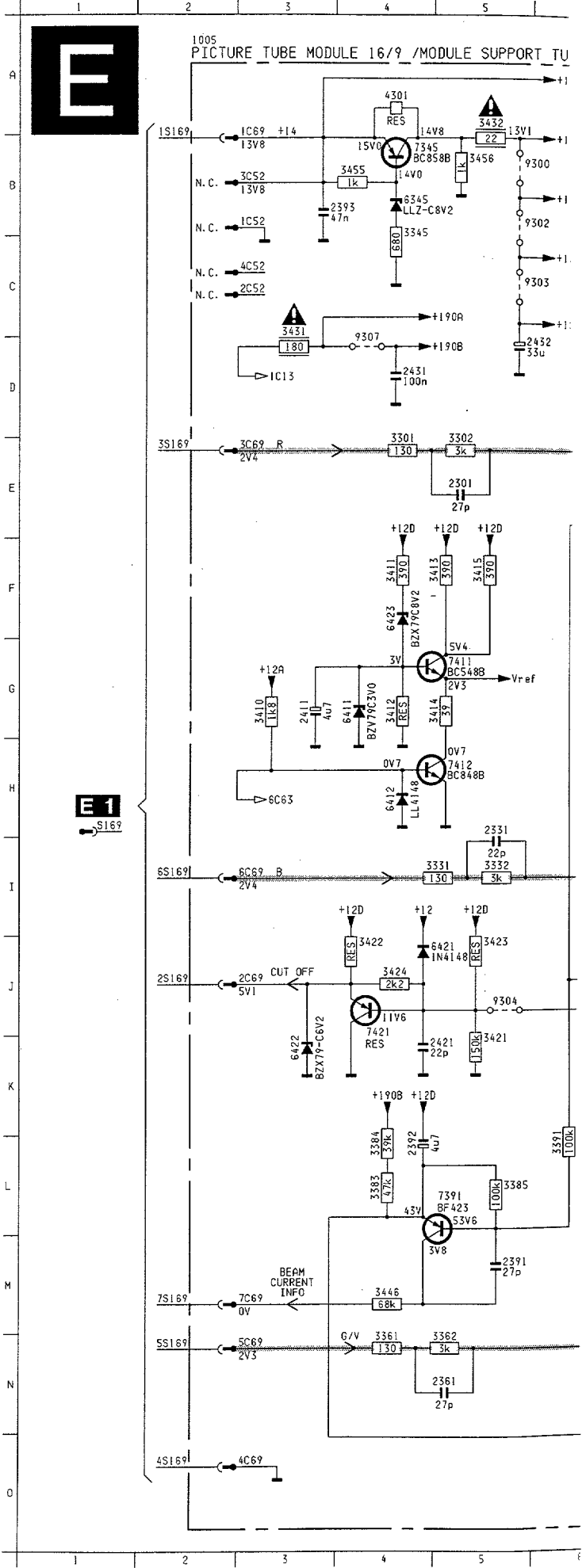


100mV/div AC  
20µs/div

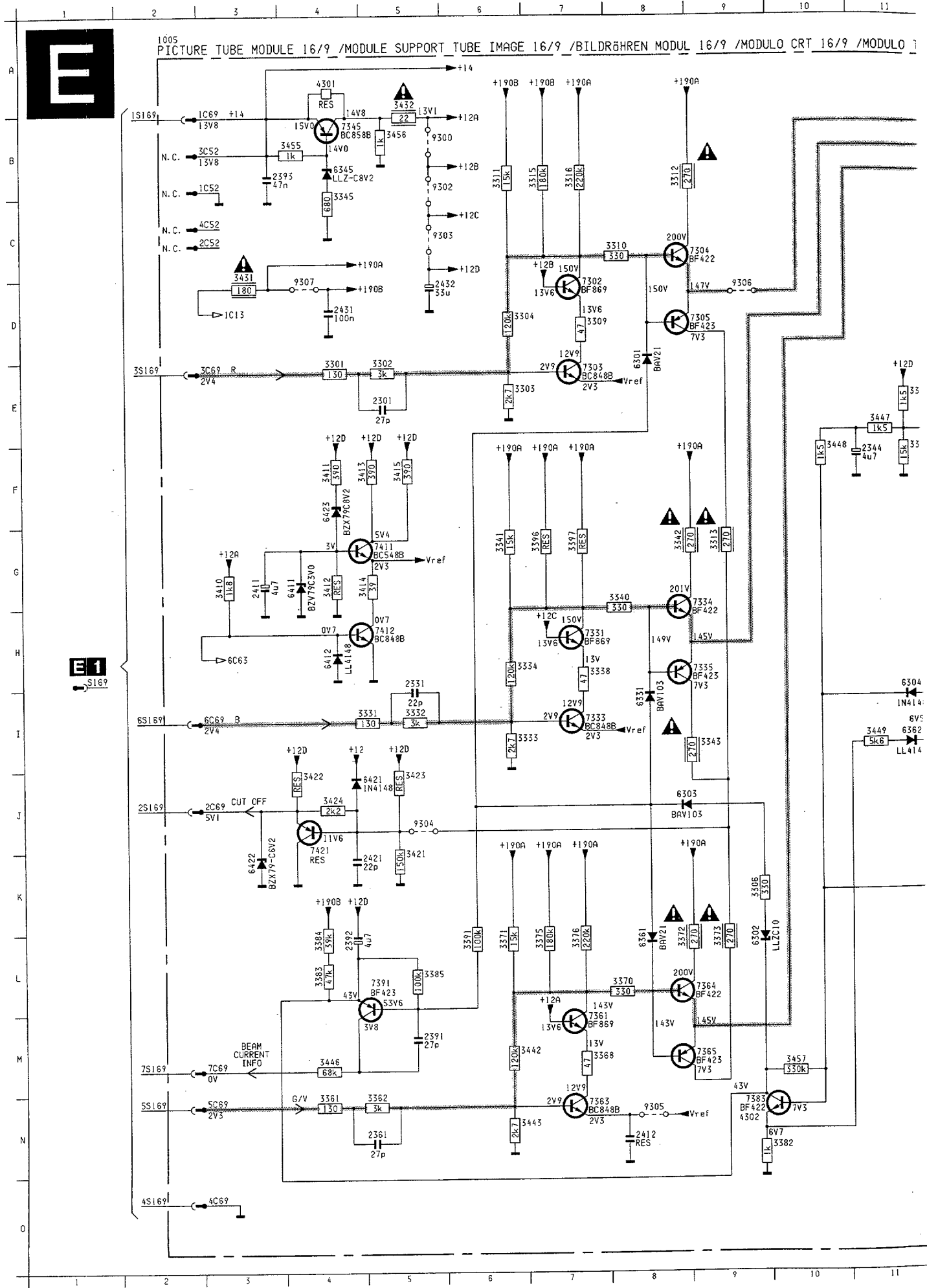
TP55



5V/div AC  
10µs/div



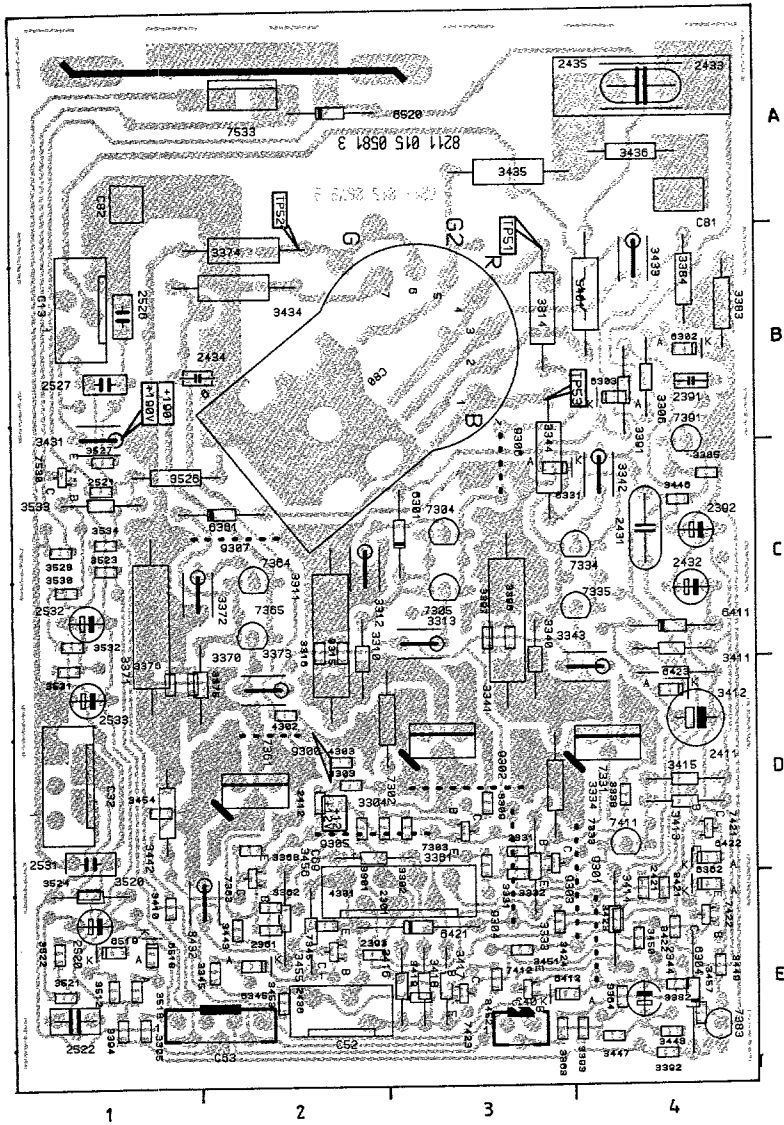
# 6. Picture tube module 16/9 / Bildröhre Modul 16/9 /





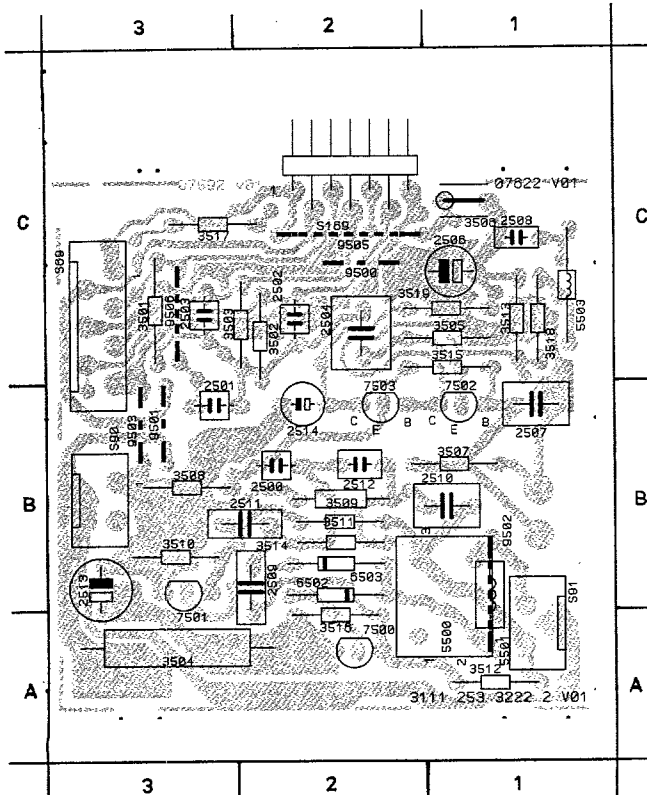


# 1005 PICTURE TUBE MODULE 16/9



C13	B1	3344	C3	3453	E2	7422	E4
C32	D1	3345	E2	3454	D1	7423	E3
C40	E3	3361	D2	3455	E2	7530	C1
C52	E2	3362	E2	3456	E2	7533	A2
C63	E2	3363	E3	3512	E1	9300	D2
C69	E3	3364	E4	3518	E1	9301	E4
C80	B2	3368	D2	3520	E1	9302	D3
C81	A4	3370	D2	3521	E1	9303	E4
C82	A1	3371	C1	3523	C1	9304	D3
2301	D2	3372	C2	3524	E1	9305	D2
2331	D3	3373	D2	3526	C1	9306	C3
2344	E4	3374	B2	3527	C1	9307	C2
2361	E2	3375	D1	3528	C1		
2391	B4	3376	D1	3530	C1		
2392	C4	3382	E4	3531	D1		
2393	E2	3383	B4	3532	C1		
2411	D4	3384	B4	3533	C1		
2412	D2	3385	C4	3534	C1		
2421	E4	3391	B4	4301	E2		
2431	C4	3392	E4	4302	E4		
2432	C4	3393	E4	5401	B4		
2433	A4	3394	E1	6301	C3		
2434	B2	3395	E1	6302	B4		
2435	A4	3396	C3	6303	B4		
2520	E1	3397	C3	6331	C3		
2521	C1	3410	E1	6345	E2		
2522	E1	3411	C4	6361	C2		
2526	B1	3412	D4	6362	E4		
2527	B1	3413	D4	6411	C4		
2531	D1	3414	E4	6412	E3		
2532	C1	3415	D4	6421	E3		
2533	D1	3416	E3	6422	D4		
3301	D2	3417	E3	6423	D4		
3302	D3	3418	E3	6518	E1		
3303	D2	3419	E3	6519	E1		
3304	D3	3421	E4	6520	A2		
3306	B4	3422	E4	7302	D3		
3309	D3	3423	E4	7303	D3		
3310	C2	3424	E3	7304	C3		
3311	C2	3431	B1	7305	C3		
3312	C2	3432	E2	7331	D4		
3313	C3	3433	B4	7333	D3		
3314	B3	3434	B2	7334	C4		
3315	C2	3435	A3	7335	C4		
3316	C2	3436	A4	7345	E2		
3331	D3	3442	D1	7361	D2		
3332	E3	3443	E2	7363	E2		
3333	D3	3446	C4	7364	C2		
3334	D3	3447	E4	7365	C2		
3338	D4	3448	E4	7383	E4		
3340	D3	3449	E4	7391	B4		
3341	C3	3450	E4	7411	D4		
3342	C4	3451	E3	7412	E3		
3343	D4	3452	E3	7421	D4		

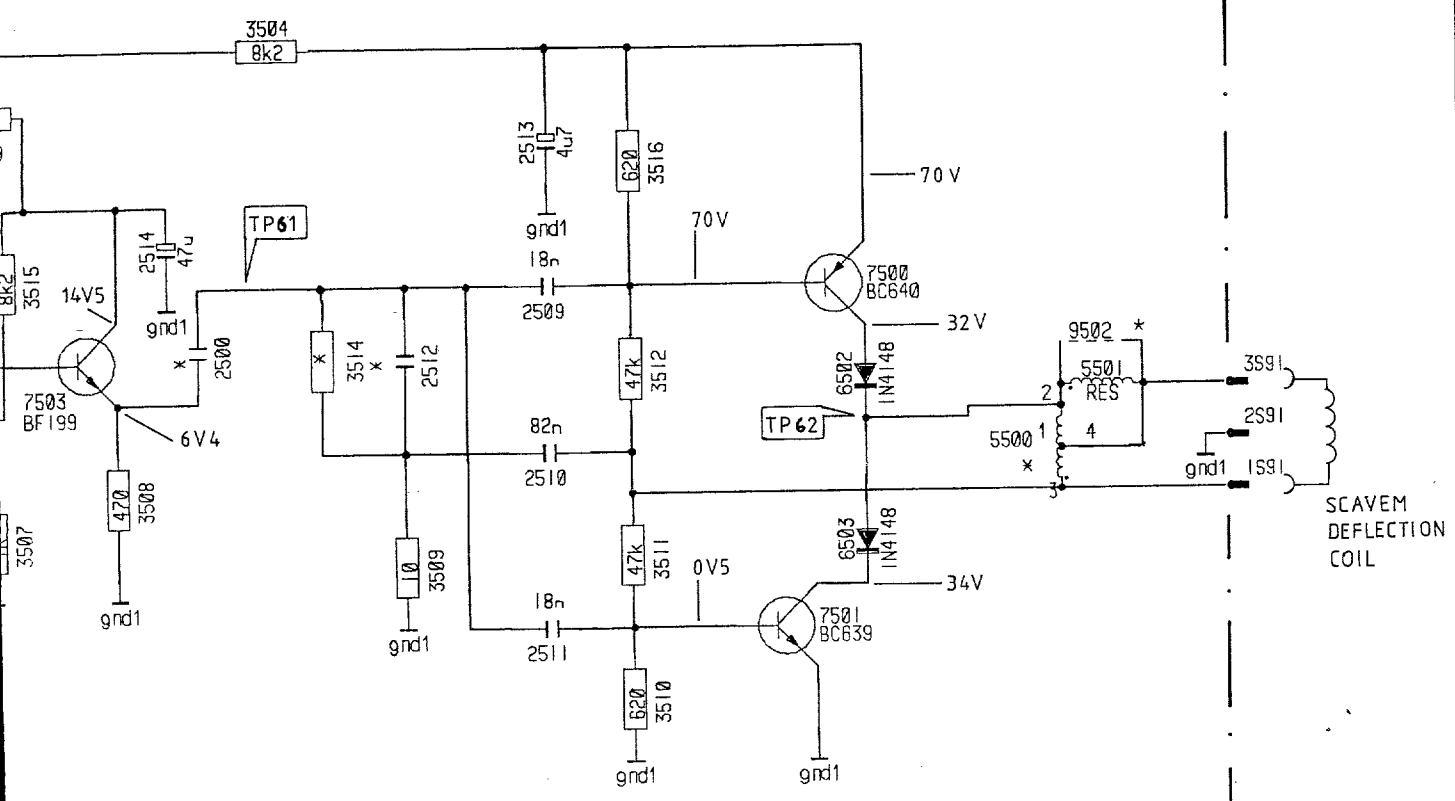
# 1010 SCAVEM-ECO MODULE



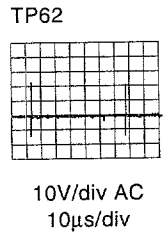
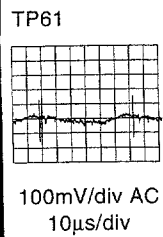
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2502	C2	7502	B1
2503	C2	7503	B1
2504	C2	9500	C2
2506	C1	9501	B2
2507	B1	9502	A1
2508	C1	9503	B3
2509	A2	9505	C2
2510	B1	9506	C2
2511	B2	S169	C2
2512	B2	S69	C3
2513	A3	S90	B3
2514	B2	S91	A1
3501	C2		
3502	C2		
3503	C2		
3504	A2		
3505	C1		
3506	C1		
3507	B1		
3508	B2		
3509	B2		
3510	B2		
3511	B2		
3512	A1		
3513	C1		
3514	B1		
3515	C1		
3516	A2		
3517	C2		
3518	C1		
3519	C1		
5500	A1		
5501	A1		
5503	C1		
6502	A2		
6503	A2		
7500	A2		

B	A013	F	A019	D11	A025	C	A031	B	S169	H	S69	G	S90	B	2
F	A014	D	A020	C10	A026	F	A032	D	S169	H	S69	F	S90	B	2
F	A015	B	A021	D10	A027	B	A033	B	S169	H	S69	F	S90	A	2
F	A016	B	A022	C10	A028	C	A034	D	S169	H	S69	F	S91	D	3
F	A017	F	A023	D10	A029	F	S169	H	S169	H	S69	F	S91	D	3
F	A018	D	A024	D12	A030	F	S169	H	S69	G	S69	F	S91	C	13

# E1



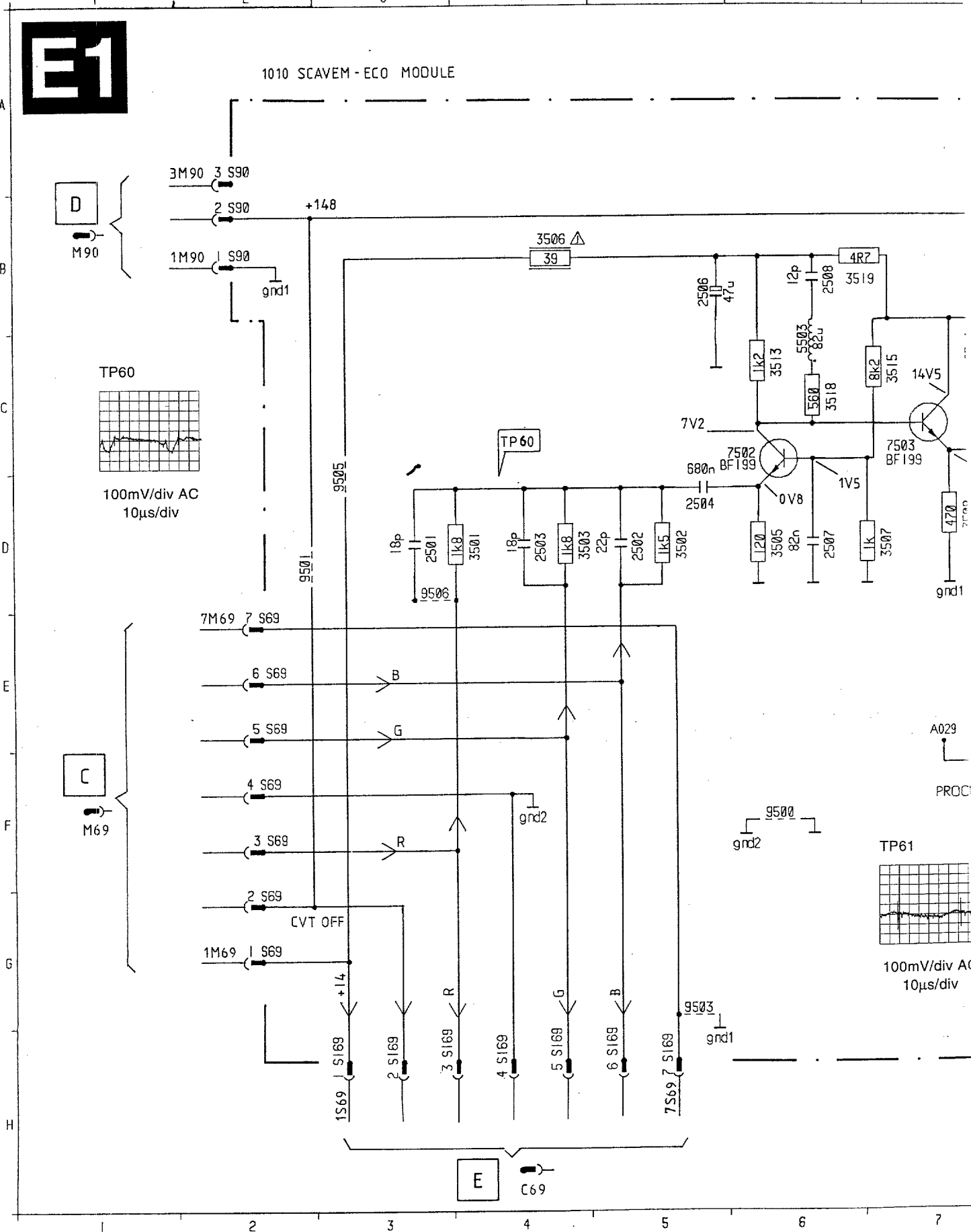
A029 3517 A030  
PROCESS FOR DREUX



*	16/9	29*	MID
2500	470p	820p	-
2512	47p	82p	-
3514	330	220	-
3517	1k	8k2	-
5500	yes	no	-
9502	no	yes	-
9501	no	no	yes
9505	no	no	yes
S90	yes	yes	no

# Scavem-Eco module / Scavem-Eco Modul /

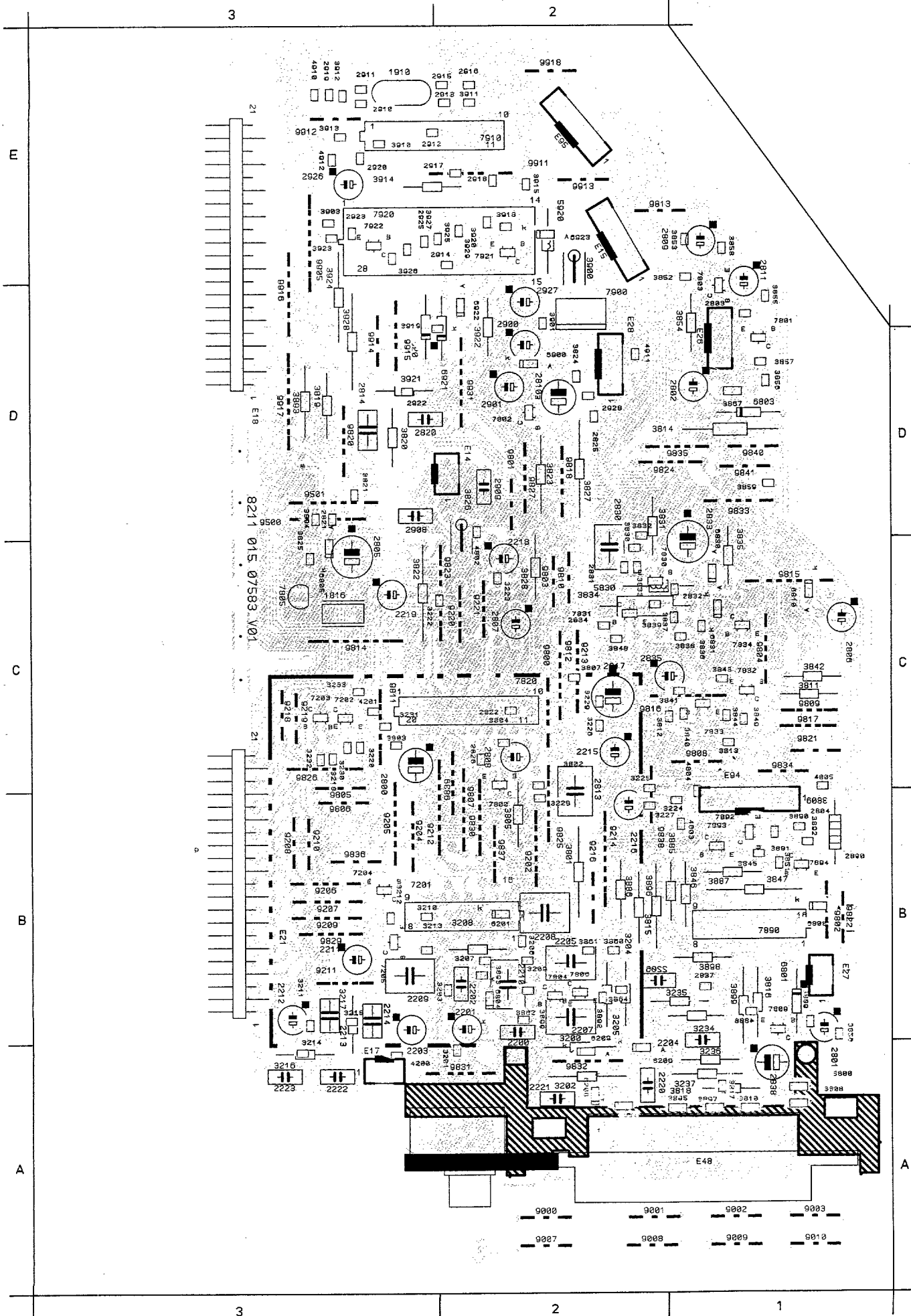
2500	C 8	2507	D 6	2513	B 9	3505	D 6	3511	D10	3517	F 7	6502	C11	9500	F 6	A001	D 9	A007	B 6	A013
2501	D 3	2508	B 6	2514	C 7	3506	B 5	3512	C10	3518	C 6	6503	C11	9501	D 2	A002	D 8	A008	D 6	A014
2502	D 5	2509	C 9	3501	D 4	3507	D 7	3513	C 6	3519	B 7	7500	C11	9502	C12	A003	D 8	A009	E 5	A015
2503	D 4	2510	D 9	3502	D 5	3508	D 7	3514	D 8	5500	D11	7501	D11	9503	6 5	A004	C 7	A010	G 3	A016
2504	D 5	2511	E 9	3503	D 4	3509	D 9	3515	C 7	5501	C12	7502	C 6	9505	D 3	A005	C 7	A011	F 4	A017
2506	C 5	2512	C 9	3504	B 5	3510	E10	3516	B10	5503	C 6	7503	C 7	9506	D 3	A006	C 6	A012	E 5	A018





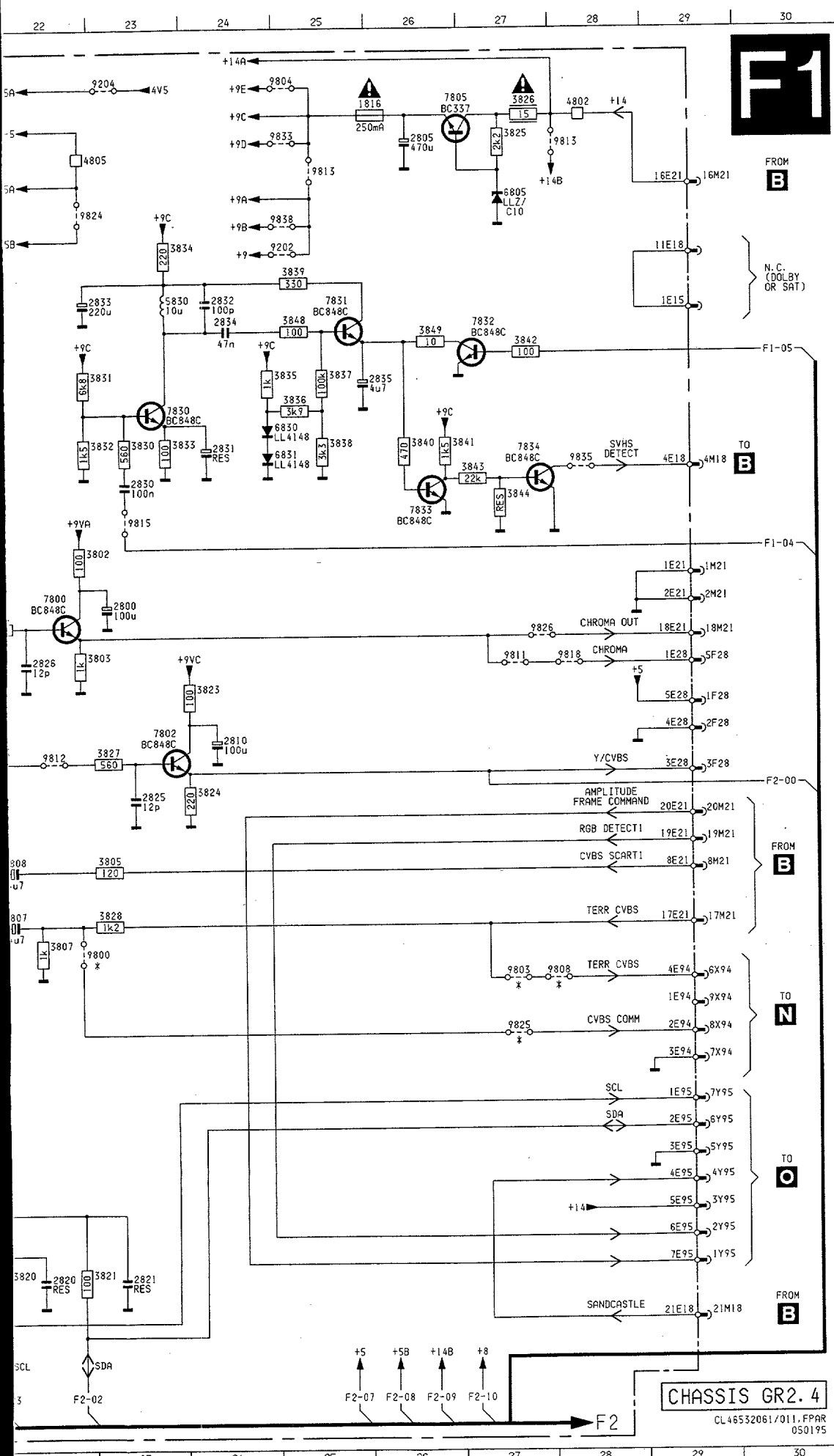
# Euro module (Eurotext 2)

02 B2  
 04 B2  
 05 C2  
 06 B3  
 07 B3  
 08 B3  
 09 B3  
 10 B3  
 11 B3  
 12 C2  
 13 C2  
 14 B2  
 16 B2  
 18 C3  
 19 C3  
 20 C2  
 21 D2  
 22 D3  
 23 D3  
 24 D1  
 25 C1  
 26 B1  
 27 D2  
 28 D3  
 29 B2  
 30 C2  
 31 A2  
 32 B2  
 33 D1  
 34 C1  
 35 D1  
 36 B3  
 37 B2  
 38 C1  
 39 C2  
 40 D1  
 41 D1  
 05 E3  
 1 E2  
 2 E3  
 3 E2  
 4 E2  
 5 E2  
 6 E3  
 7 D3  
 8 E2  
 9 D2







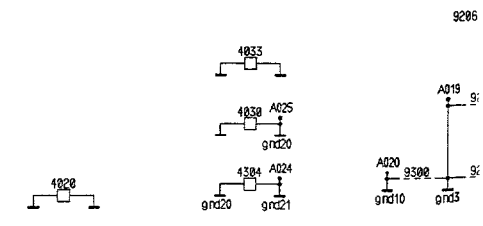
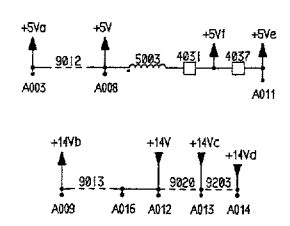
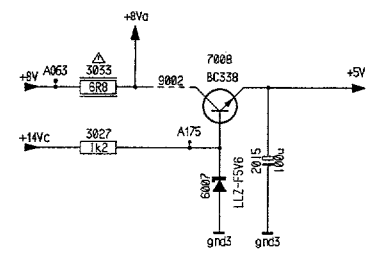
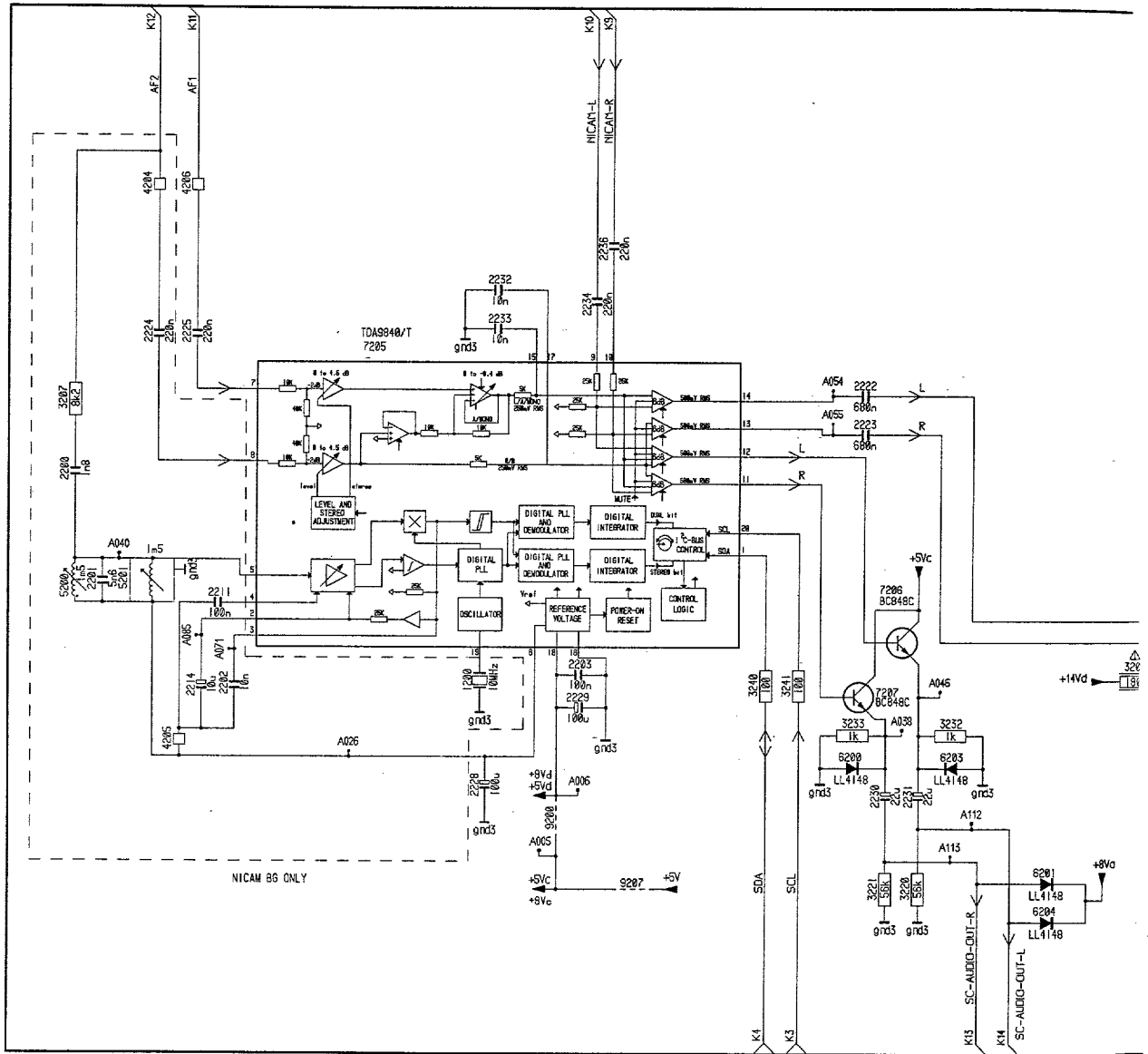


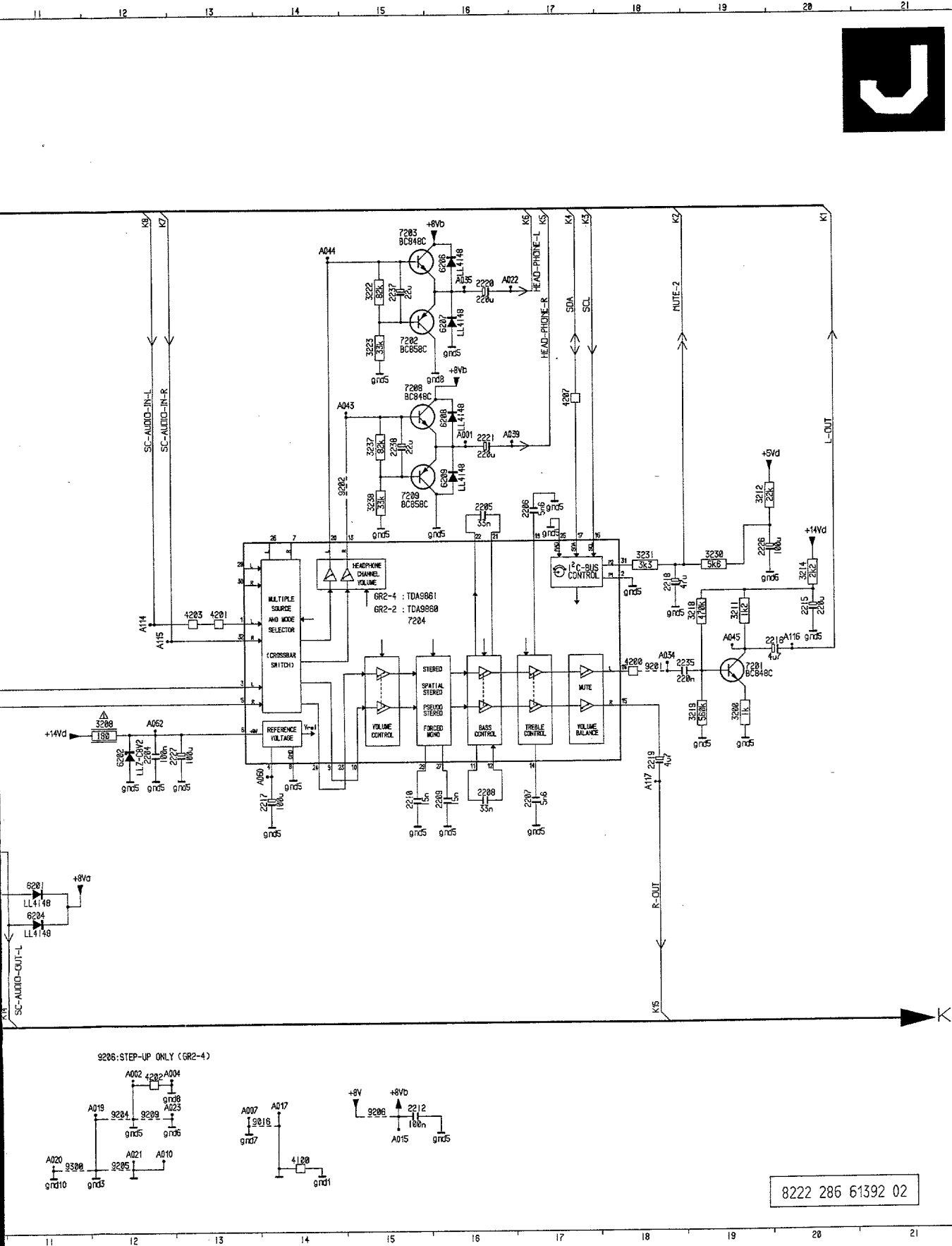
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1001	G12	3820	N22	9220	J15
1002	G10	3821	N22	9221	L15
1003	G10	3822	M21	9800	J22
1816	A26	3823	G24	9802	H13
2200	F16	3824	A24	9803	K27
2201	E16	3825	A27	9804	A25
2202	G16	3826	A27	9805	O 4
2203	F16	3827	H23	9806	M 4
2204	F 9	3828	J23	9807	K18
2205	D11	3829	N12	9808	E28
2206	G11	3830	E23	9809	H 4
2207	E13	3831	D23	9811	G27
2208	E12	3832	E23	9812	H22
2209	E17	3833	E23	9813	B25
2210	E17	3834	C23	9813	B28
2211	C 7	3835	D25	9815	F23
2212	D 7	3836	O25	9817	I 4
2213	D 6	3837	D25	9818	G28
2214	C 6	3838	E25	9820	F 5
2215	M14	3839	C25	9823	N21
2216	O 6	3840	E26	9824	B22
2217	M15	3841	E26	9825	K27
2218	L14	3842	D27	9826	G27
2219	J14	3843	E27	9833	B25
2220	G15	3844	E27	9835	E28
2221	F15	3845	I 6	9836	A 5
2222	D 5	3846	H 6	9837	B 5
2223	C 5	3847	G14	9838	B25
2800	G23	3848	C25	E48	F 9
2801	N12	3849	D26		
2802	L 7	3851	G 6		
2803	N 7	3852	L 8		
2804	H14	3853	M 7		
2805	B26	3854	M 7		
2806	K15	3855	O 7		
2807	J22	3856	O 8		
2808	I22	3857	N 9		
2809	O13	3858	O10		
2810	H24	3859	N13		
2811	N 8	3860	E10		
2813	N14	3861	D11		
2814	F 4	3862	F12		
2820	N22	3863	H12		
2821	N23	3864	F13		
2822	D20	3865	E13		
2825	I23	3866	F11		
2826	G22	3867	M 6		
2830	E23	3868	J 6		
2830	E23	3866	J 6		
2831	E24	3867	J 6		
2832	C24	3890	H 5		
2833	C23	3891	G 5		
2834	C24	3892	F 5		
2835	D26	3893	I 4		
2837	I16	3894	I 5		
2838	H15	3895	G 8		
2890	I 6	3896	G 8		
2908	C 3	3897	H 8		
2909	D 3	3898	G 8		
3200	E15	3899	I 8		
3201	F16	4201	K14		
3202	F15	47	C 4		
3203	G16	4802	A28		
3204	F10	4803	O 5		
3205	G11	4804	M 5		
3206	D11	4805	B22		
3207	D12	5830	C23		
3208	D12	6201	A 9		
3209	D12	6206	G14		
3210	C 8	6207	G14		
3211	D 8	6208	F14		
3212	B 8	6209	F14		
3213	C 7	6800	H14		
3214	D 6	6801	N12		
3215	C 6	6803	L 9		
3216	D 5	6804	G12		
3217	C 5	6805	B27		
3218	J13	6810	H11		
3220	L13	6830	E25		
3222	J15	6831	E25		
3223	L14	7201	A 8		
3224	M14	7202	L13		
3225	O 5	7203	J14		
3226	M14	7204	D 8		
3227	N 6	7205	C 7		
3228	L14	7800	F22		
3229	J15	7801	N 8		
3230	L12	7802	H23		
3231	L13	7803	N 9		
3232	J13	7803	O 9		
3233	J14	7804	E11		
3234	E 8	7805	A26		
3235	E 8	7806	F12		
3236	F10	7809	H15		
3237	G13	7820	E19		
3800	N10	7830	D23		
3801	I 8	7831	C25		
3801	N14	7832	D27		
3802	F22	7833	E26		
3803	G22	7834	E27		
3804	G21	7890	F 6		
3805	I23	7892	I 5		
3806	M12	7893	H 5		
3807	J22	7894	G 5		
3808	H13	9202	C25		
3809	G14	9204	A23		
3810	K12	9205	F17		
3811	K15	9206	K 6		
3812	K16	9207	E 6		
3813	K16	9208	E 5		
3814	F 6	9209	B 5		
3815	I16	9210	B 4		
3816	H15	9211	E17		
3817	I15	9212	I17		
3818	I15	9218	D 4		

CHASSIS GR2.4  
CL46532061/011.FPAR  
050195



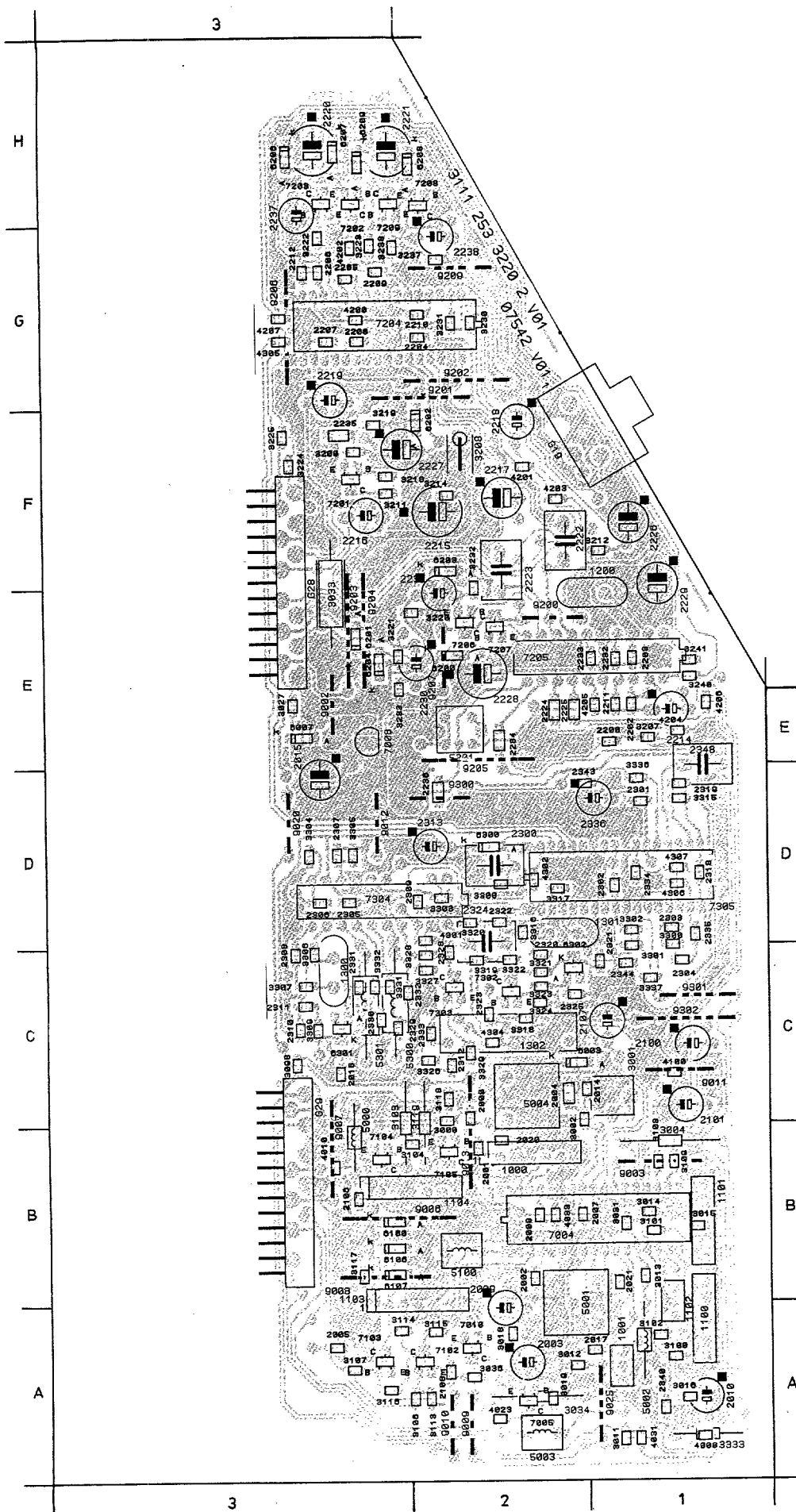
# Nicam BGL IF-sound module / Nicam BGL ZF-Tonmodul /



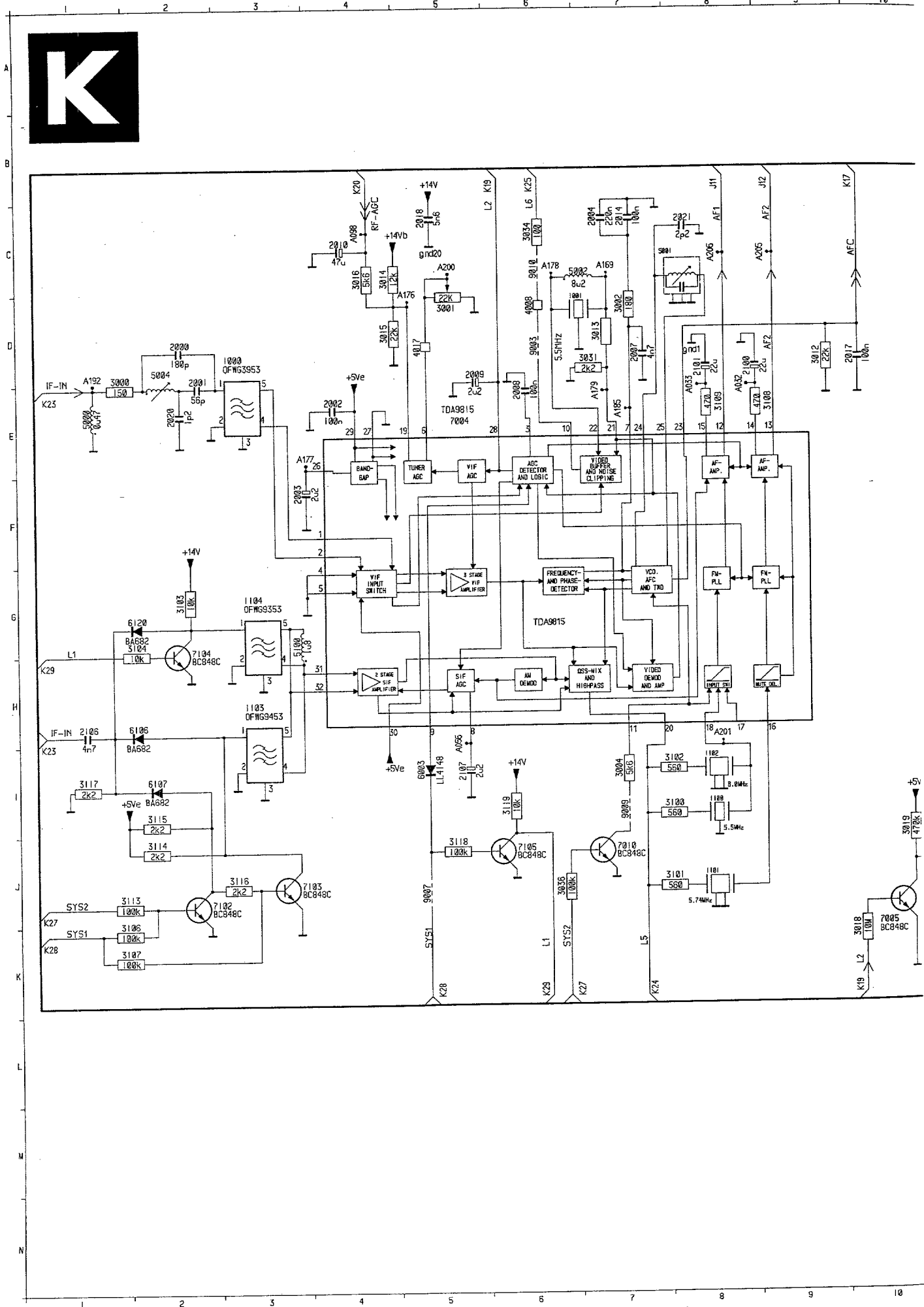
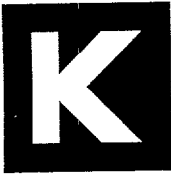


8222 286 61392 02

# 1000 NICAM BGL IF-SOUND MODULE

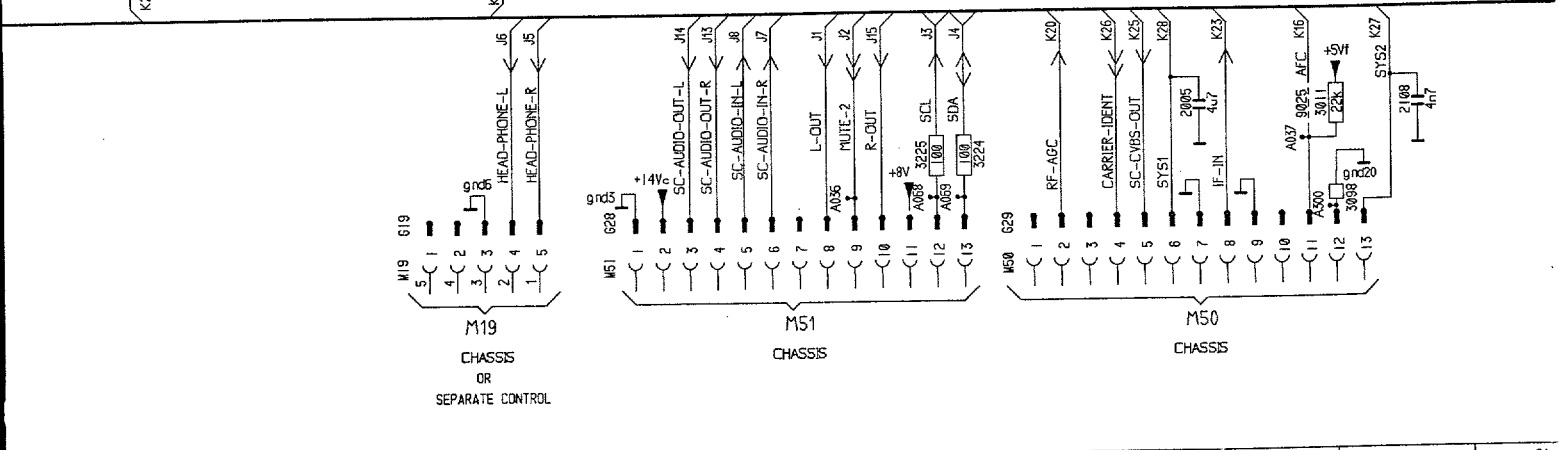
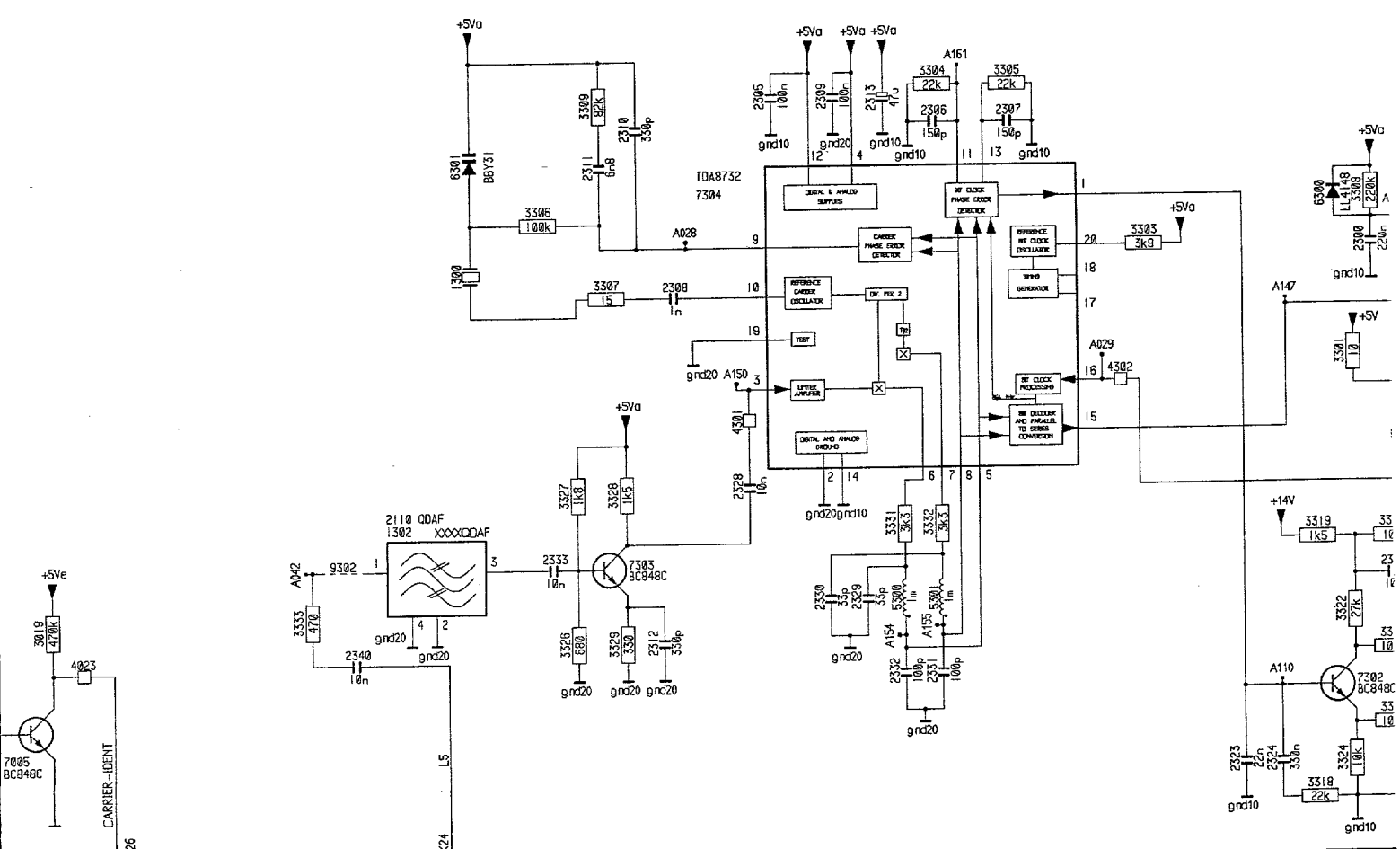


G28	F3	2325	C2	3328	C3	9206	G3
G29	B3	2328	C2	3329	C2	9207	E2
1000	B2	2329	C3	3331	C3	9209	G2
1001	A2	2330	C3	3332	C3	9300	D2
1100	A1	2331	C3	3333	A1	9301	C1
1101	B1	2332	C3	3336	D1	9302	C1
1102	A1	2333	C3	3337	C1		
1103	A3	2334	D1	4008	A1		
1104	B3	2335	D1	4010	B3		
1200	E2	2336	D2	4023	A2		
1300	C3	2340	A1	4031	A1		
1301	D2	2343	D2	4033	B2		
1302	C2	2344	C1	4100	C1		
2000	C2	2348	D1	4200	G3		
2001	B2	3000	C2	4201	F2		
2002	B2	3001	C1	4202	G3		
2003	A2	3002	C2	4203	F2		
2004	C2	3004	B1	4204	E1		
2005	A3	3011	A1	4205	E2		
2007	B2	3012	A2	4206	E1		
2008	B2	3013	B1	4207	G3		
2009	A2	3014	B1	4301	D3		
2010	A1	3015	B1	4302	D1		
2014	C2	3016	A1	4304	C2		
2015	D3	3018	A2	4305	G3		
2017	A2	3019	A2	4306	D1		
2018	C3	3027	E3	4307	D1		
2020	B2	3031	B1	5000	B3		
2021	B2	3033	E3	5001	A2		
2100	C1	3034	A2	5002	A1		
2101	C1	3036	A2	5003	A2		
2106	B3	3098	C3	5004	C2		
2107	C2	3100	A1	5100	B2		
2108	A2	3101	B1	5201	E2		
2200	E2	3102	A1	5300	C3		
2202	E1	3103	B3	5301	C3		
2203	E1	3104	B3	6003	C2		
2204	G3	3106	A3	6007	E3		
2205	G3	3107	A3	6100	B3		
2206	G3	3108	B1	6106	B3		
2207	G3	3109	B1	6107	B3		
2208	G3	3113	A3	6200	E2		
2209	G3	3114	A3	6201	E3		
2210	G3	3115	A3	6202	F3		
2211	E1	3116	A3	6203	F2		
2212	G3	3117	B3	6204	E3		
2214	E1	3118	C2	6206	H3		
2215	F2	3119	B3	6207	H3		
2216	F3	3200	F3	6208	H3		
2217	F2	3207	E1	6209	H3		
2218	F2	3208	F2	6300	D2		
2219	G3	3211	F3	6301	C3		
2220	H3	3212	F2	6302	C2		
2221	H3	3214	F2	7004	B2		
2222	F2	3218	F3	7005	A2		
2223	F2	3219	F3	7008	E3		
2224	E2	3220	E3	7010	A2		
2225	E2	3221	E3	7102	A3		
2226	F1	3222	G3	7103	A3		
2227	F3	3223	G3	7104	B3		
2228	E2	3224	F3	7105	B2		
2229	E1	3225	F3	7201	B1		
2230	E3	3230	G2	7202	H3		
2231	E2	3231	G2	7203	H3		
2232	E1	3232	E2	7204	G3		
2233	E2	3233	E3	7205	E2		
2234	E2	3237	G2	7206	E2		
2235	F3	3238	G3	7207	E2		
2236	D2	3240	E1	7208	H3		
2237	H3	3241	E1	7209	H3		
2238	G2	3300	C1	7302	C2		
2300	D2	3301	C1	7303	C2		
2301	D1	3302	D1	7304	D3		
2302	D1	3303	D2	7305	D1		
2303	D1	3304	D3	9002	E3		
2304	C1	3305	D3	9003	B1		
2305	D3	3306	C3	9006	B3		
2306	D3	3307	C3	9007	B3		
2307	D3	3308	D2	9008	B3		
2308	C3	3309	C3	9009	A2		
2309	D3	3315	D1	9010	A2		
2310	C3	3316	D2	9011	C1		
2311	C3	3317	D2	9012	D3		
2312	C2	3318	C2	9013	B2		
2313	D3	3319	C2	9020	D3		
2318	D1	3320	D2	9025	A2		
2319	D1	3321	C2	9200	E2		
2320	C2	3322	C2	9201	G3		
2321	C2	3323	C2	9202	G2		
2322	D2	3324	C2	9203	E3		
2323	C2	3326	C3	9204	E3		
2324	C2	3327	C3	9205	E2		



# Nicam BGL ZF-Tonmodul / Module FI-son Nicam BGL

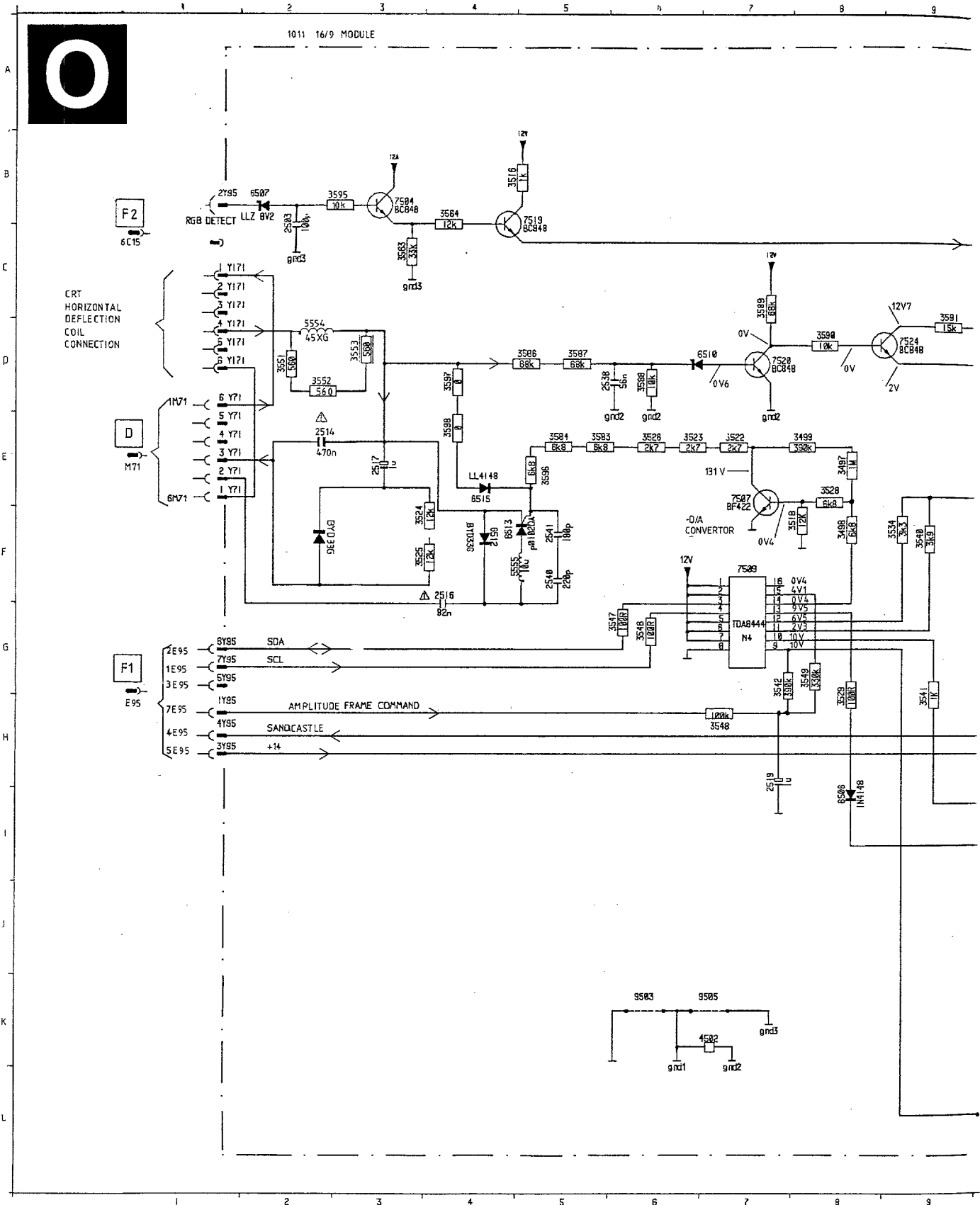
10 11 12 13 14 15 16 17 18 19 20 21



10 11 12 13 14 15 16 17 18 19 20 21



# Module 16/9 / Modul 16/9 / Module 16/9

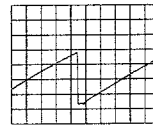


TP 0



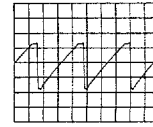
2V/div AC  
10µs/div

TP 1



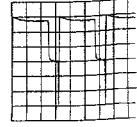
1V/div AC  
10µs/div

TP 2

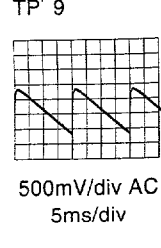
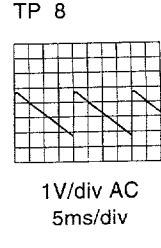
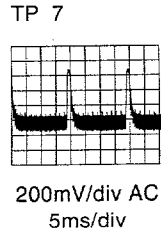
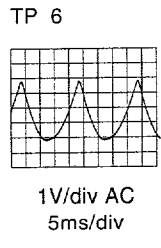
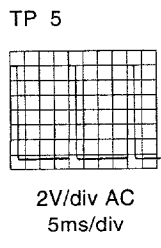
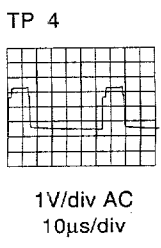
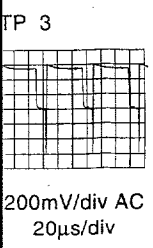
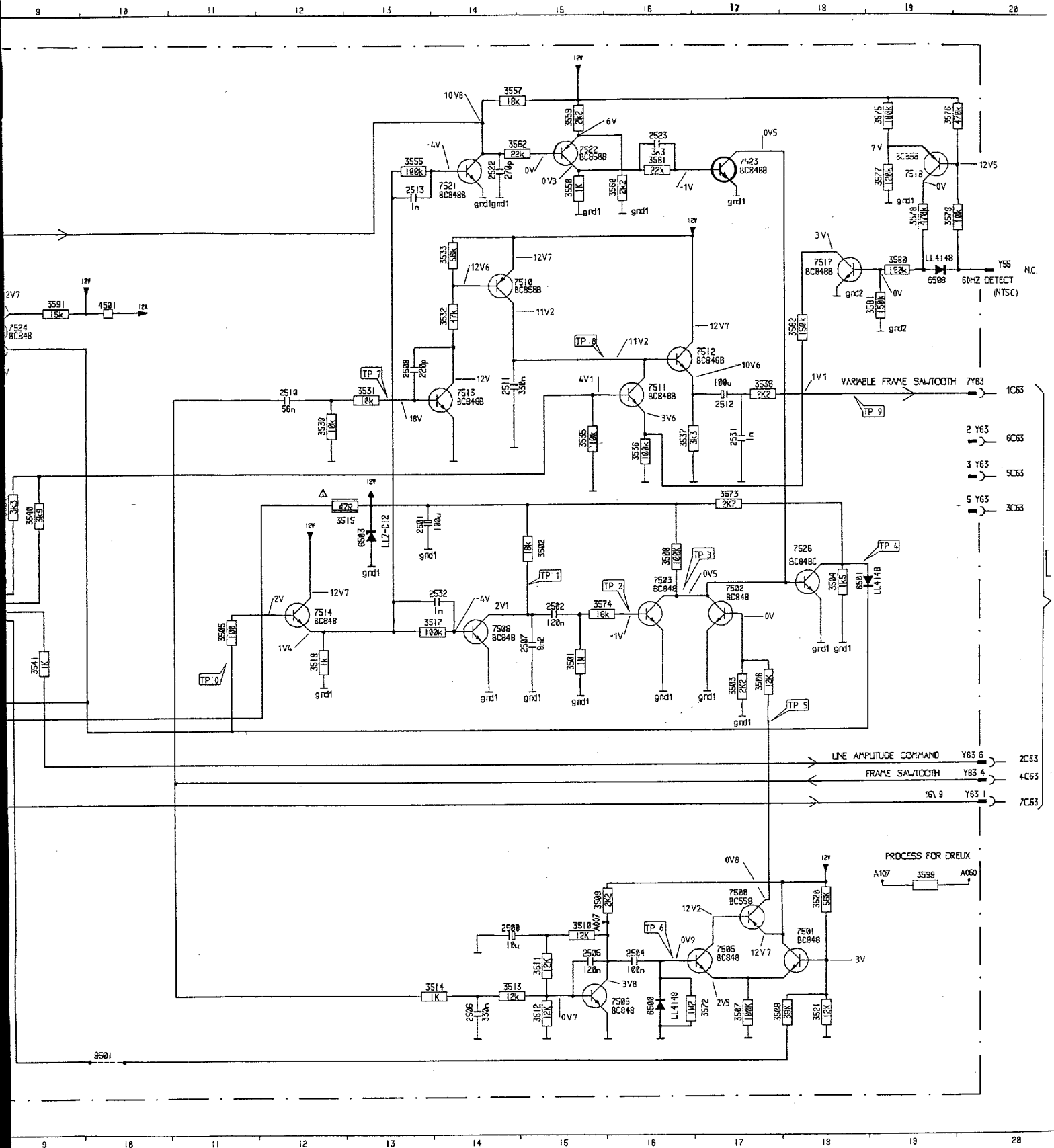


1V/div AC  
20µs/div

TP 3

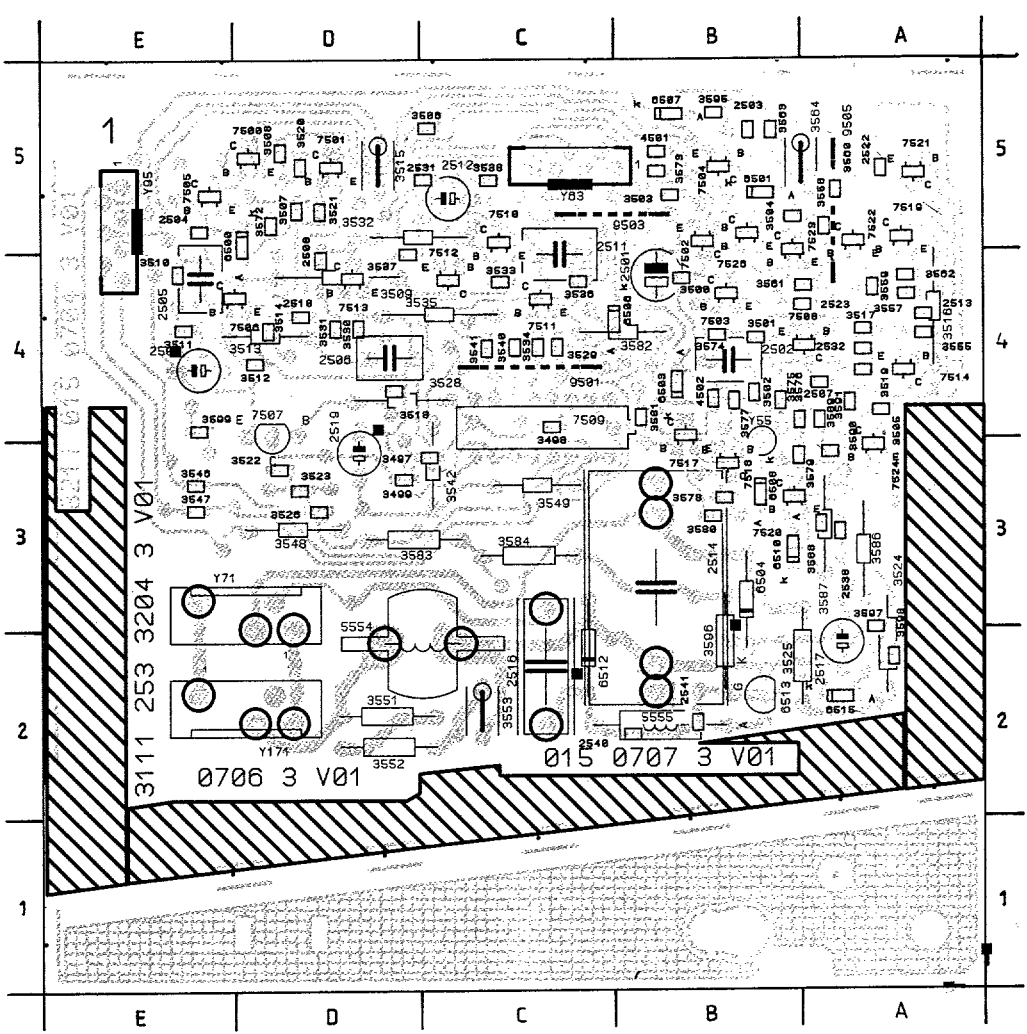
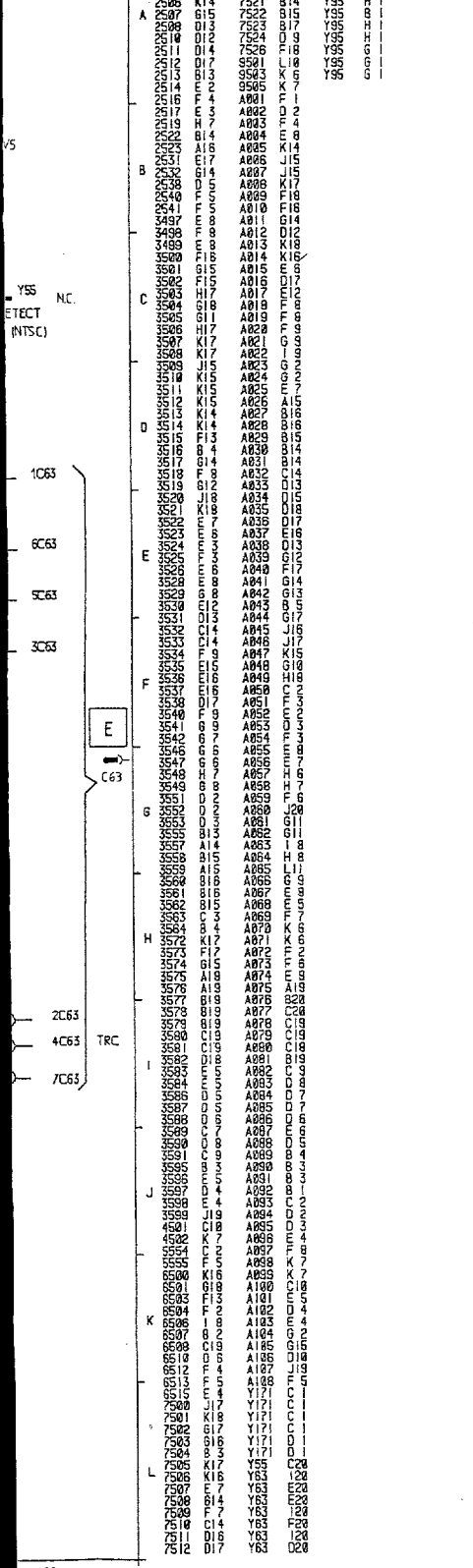


200mV/div A  
20µs/div





# 1011 MODULE 16/9



2501	B4	2522	A5	3506	C5	3522	D3	3540	C4	3562	A4	3586	A3	6501	B5	7506	D4	7524	A3
2502	B4	2523	A4	3507	D5	3523	D3	3541	C4	3563	B5	3587	A3	6503	B4	7507	D3	7526	B5
2503	B5	2531	C5	3508	D5	3524	A2	3542	C3	3564	A5	3588	A3	6504	B3	7508	A4	9501	C4
2504	E5	2532	A4	3509	D4	3525	A2	3546	E3	3572	D5	3589	A4	6506	B4	7509	C3	9503	B5
2505	E4	2538	A3	3510	E4	3526	D3	3547	E3	3573	B5	3590	A3	6507	B5	7510	C4	9505	A5
2506	D4	2540	B2	3511	E4	3528	D4	3548	D3	3574	B4	3591	A4	6508	B3	7511	C4	Y171	D2
2507	A4	2541	B2	3512	D4	3529	C4	3549	C3	3575	B4	3595	B5	6510	B3	7512	C4	Y55	B3
2508	D4	3497	C3	3513	D4	3530	D4	3551	D2	3576	A4	3596	B2	6512	C2	7513	D4	Y63	C5
2510	D4	3498	C3	3514	D4	3531	D4	3552	D2	3577	B4	3597	A2	6513	B2	7514	A4	Y71	D2
2511	C4	3499	D3	3515	D5	3532	D4	3553	C2	3578	B3	3598	A2	6515	A2	7517	B3	Y95	E5
2512	C5	3500	B4	3516	A4	3533	C4	3555	A4	3579	B3	3599	E3	7500	D5	7518	B3		
2513	A4	3501	B4	3517	A4	3534	C4	3557	A4	3580	B3	4501	B5	7501	D5	7519	A4		
2514	B3	3502	B4	3518	D4	3535	C4	3558	A5	3581	B4	4502	B4	7502	B4	7520	B3		
2516	C2	3503	B5	3519	A4	3536	C4	3559	A4	3582	B4	5554	D2	7503	B4	7521	A5		
2517	A2	3504	B5	3520	D5	3537	D4	3560	A5	3583	D3	5555	B2	7504	B5	7522	A4		
2519	D3	3505	A4	3521	D5	3538	C5	3561	A4	3584	C3	6500	D4	7505	E5	7523	B4		





This module consist the following circuits:

- vertical amplitude blanking
- horizontal amplitude blanking
- east/west correction
- line deflection detector

## 1. Horizontal and vertical blanking

The video blanking is made on the 16/9 module. This signal is caused by adding the line suppression signal directly to the right and left side and superimposing the sandcastle signal that is sent to the chassis.

### A) Blanking on the right side

Synchronized and triggered on the burst signal of the sandcastle this is done by R3505 and T5714 (T60). During the burst signal C2507 is discharged by T7508. when T7508 is blocked the voltage on C2507 begins to increase (T61) due to the current from the 14 Volt via R3502 and C2501. The time of the blanking is determined by C2502, R3501, 3574 and T7503 (T62). when T7503 is saturated (T63), the blanking command is zero and T7528 is blocked (T64).

### B) Blanking on the left side

Synchronisation by means of a burst pulse from the sandcastle and via R3555, C2513 and T7521. During line blanking, C2522 is discharged so T7522 and T7523 saturated → T7528 blocked.

### C) Vertical blanking

The vertical feedback sawtooth is present on R3514 and integrated (R3514, R3513 and C2505 form the integrator) to have a parabolla. This signal clamped by C2504 and D6500 to ground (T66). The voltage on kathode of D6500 (T66) is compared to the voltage of the base of T7501. When the voltage on the kathode is higher Vb of T7501 → T7500 and T7502 are saturated → T7528 blocked.

## 2. East/west correction

East-west correction is possible by varying the amplitude of the sawtooth. This variable sawtooth is available on the cathode of C2520 on the crt-module. The frame command for the amplitude that originates from the euro module is used for the synchronisation of the variable frame sawtooth. T7510 is used as the power source in order to create a perfect sawtooth on C2511. The level of C2511 is dependent on the level of pin 11 and pin 12 of IC7589. T7511 controls the current through R3538, which in turn controls the variable frame sawtooth.

## 3. Line deflection detector

Via connector pin 1Y171 and R3586, R3587 the line current is fed to D6510. If the line plug is connected then T7520 saturated → T7524 blocked → no action on sandcastle.

If the there is no current from the line deflection → T7520 blocked → T7524 is saturated → 12 Volt is added to the sandcastle → beam current cancelled (black screen).

Variable actions:

- 1 - RGB
- 2 - zoom
- 3 - corrections in 4/3, 16/9, panorama

### 1) RGB transmission

When RGB signals are present the RGB detect signal is "1" → T7519 is switched on → R3516 parallel with R3557 → reducing the blanking time on the left. If there are no RGB signals → no action.

### 2) Zoom

In zoom mode information is generated by software which is converted by IC7589 (TDA8444) in different variable output DC-voltages on the output pins (9 uptil 15) in the following situations:

- a) Frame zoom: pin 15 is used to adjust the frame in 16/9 mode  
pin 9 is used for the zoom and blanking frame
- b) East/west zoom: pin 11 is used as zoom function by steering T7511 via R3540  
pin 12 is used to adjust the sawtooth in 4/3 zoom max
- c) Line zoom: pin 10 is used to give line amplitude commands and zoom

### 3) Corrections in 4/3, 16/9, panorama

The variable output (pin 13 IC7589) is used to correct the line amplitude in panorama mode and 16/9 mode.

(16/9 supplement)

## Service menu

Fig. 7.1 shows the options in the Service Menu layouts. In the 16/9 model the option "E SIX./NINE" has been added in the "service menu".

For a detailed description of the "service default mode" and the "service menu" please refer to chapter 9 in the chassis manual GR2.4 AA.

## Default values in option "E SIX./NINE"

The default values are displayed as a two figure number in the middle of the bar at the bottom of the picture. The default value can be changed for the optimum picture dimensions of the set concerned using the "+" and "-" keys.

Option	Default value
"A HEIGHT" (picture height)	15
"B PARAB SIXT./NINE" (east-west correction 16/9)	04
"C WIDE" (picture width)	03
"D PARAB FOUR/THREE" (east-west correction 4/3)	15

For the default values of the options in the other menus please refer to chassis manual GR2.4 AA.

## Adjustments in 16/9 mode.

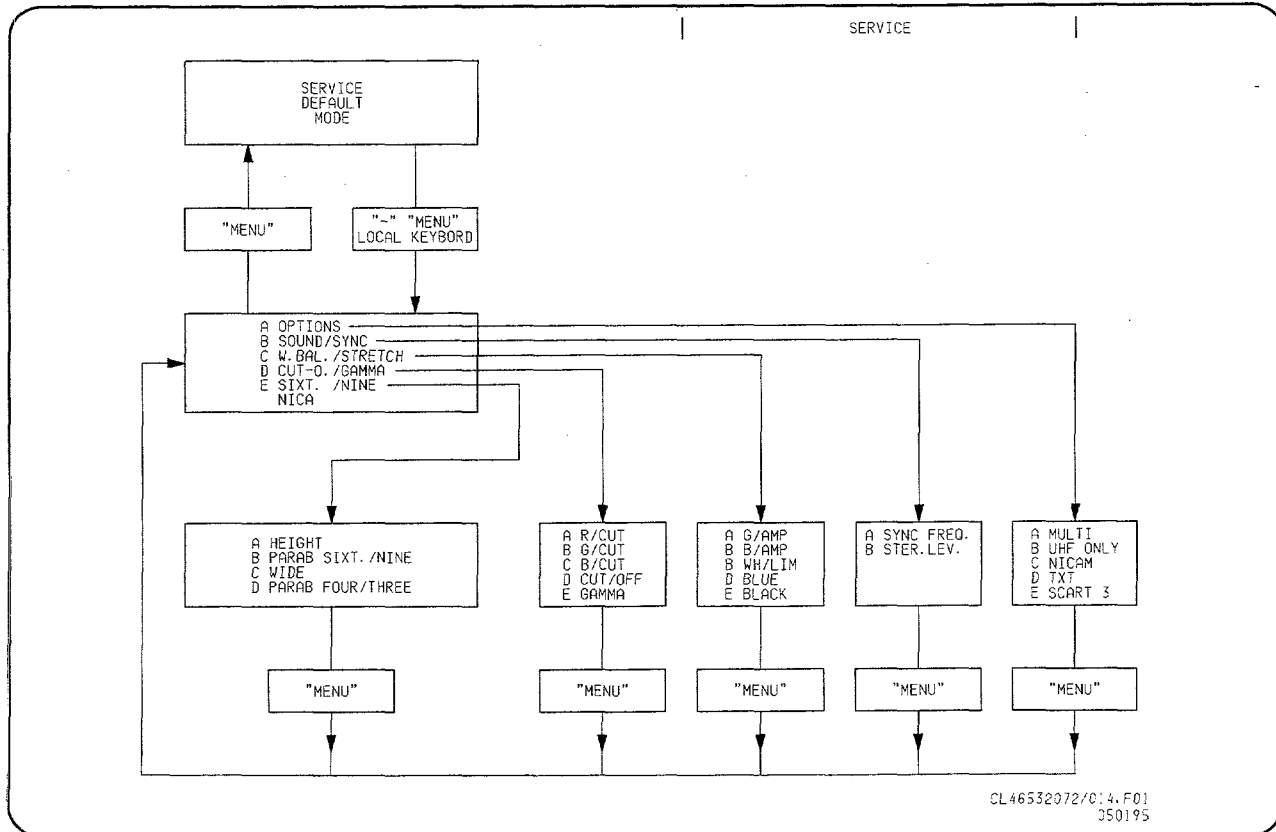
Following the replacement of the EEPROM (IC7710) and/or microprocessor (IC7708) diagram A. It is necessary to recalibrate the 16/9 adjustments. Use a test circle (antenna signal) or a convergence pattern (video generator).

The adjustments are now as follows:

Place the set in service mode.  
Select "E SIX./NINE" mode.

- Picture height**  
Select A (height), adjust the picture with +/- menu key in such a manner that the upper and lower edges just touch the mask. Now centre the picture using R3516.
- Picture width**  
A Select C (wide), adjust the picture with the +/- menu key so that the picture remains 7 cm from the mask on both the right and left side.  
B Select D (parab four/three), using the +/- menu key adjust so that the vertical lines are straight.  
C Repeat A if it is necessary!
- East/west adjustment in 16/9 mode**  
Select B (parab six./nine), using the +/- menu key adjust so that the vertical lines are straight.

Now switch to "standby".



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350195

Fig. 7.1

## 9. Directions for use

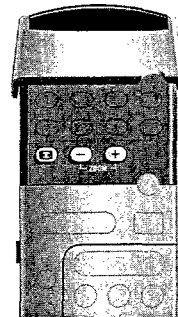
(16/9 supplement)

### Functions 16/9

Not all today's broadcasts are in a 16/9 wide screen format. the majority are still transmitted in a conventional 4/3 format.


The wide screen, super wide and zoom functions allow you to adapt the size of the transmitted picture to suit your wide screen receiver.



*The proportions 16/9 and 4/3 refer to the ratio of the width to the height of the television screen.*



#### Wide screen

Wide screen and panorama.



These functions are operated with the  key on your remote-control.

- Press the  key .
- ▷ The  symbol is briefly on displayed on the screen, the picture is enlarged horizontal (wide screen function).


*This function allows you to restore a picture transmitted in 16/9 format and is only useful for 16/9 broadcasts.*

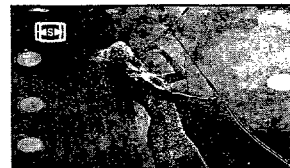


#### Panorama



- Press the  key again
- ▷ The  symbol is briefly on displayed on the screen, the picture is again enlarged horizontally but now only the edges of the image are stretched (panorama function).

*This function can be used to display a 4/3 broadcast over the whole of a 16/9 screen, thus giving maximum benefit from your large screen.*


- Press the  key again .
- ▷ The initial 4/3 format is restored.




#### Zooming

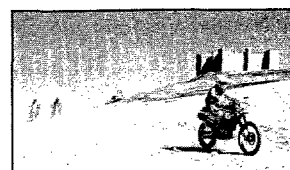
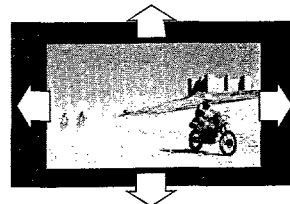
The zoom keys  and  enable an image to be enlarged whilst maintaining its proportions. This function is especially useful for 4/3 images transmitted in the cinemascope format (black bars above and below the picture).

*Zooming is not possible when the wide screen or panorama have been selected.*

- Press the  zoom key.
- ▷ Each time this key is pressed the image is enlarged. If the key is held down, the image is gradually enlarged until the maximum value is reached.

To return to the normal format:

- Press the  zoom key.
- ▷ Each time this key is pressed the image is reduced. If the key is held down the image is gradually reduced until the minimum value is reached.



# Spare parts list / Stükliste / Liste des pièces

3542	4822 116 52278	390k 5% 0.5W
3546	4822 051 20101	100Ω 5% 0.1W
3547	4822 051 20101	100Ω 5% 0.1W
3548	4822 116 52234	100k 5% 0.5W
3549	4822 116 52272	330k 5% 0.5W
3551▲	4822 050 25601	560Ω 1% 0.6W
3552▲	4822 050 25601	560Ω 1% 0.6W
3553▲	4822 052 10561	560Ω 5% 0.33W
3555	4822 051 20104	100k 5% 0.1W
3557▲	4822 051 20472	4k7 5% 0.1W
3558	4822 051 10102	1k 2% 0.25W
3559	4822 051 20222	2k2 5% 0.1W
3560	4822 051 20222	2k2 5% 0.1W
3561	4822 051 20223	22k 5% 0.1W
3562	4822 051 20223	22k 5% 0.1W
3563	4822 051 20823	82k 5% 0.1W
3564	4822 051 20824	820k 5% 0.1W
3572	4822 051 20105	1M 5% 0.1W
3573	4822 051 20272	2k7 5% 0.1W
3574	4822 051 20103	10k 5% 0.1W
3575	4822 051 20183	18k 5% 0.1W
3576	4822 051 20184	180k 5% 0.1W
3577	4822 051 20223	22k 5% 0.1W
3578	4822 051 20474	470k 5% 0.1W
3579	4822 051 20103	10k 5% 0.1W
3580	4822 051 20184	180k 5% 0.1W
3581	4822 051 20683	68k 5% 0.1W
3582	4822 116 52239	120k 5% 0.5W
3583	4822 116 52271	33k 5% 0.5W
3584	4822 116 52257	22k 5% 0.5W
3586	4822 116 52297	68k 5% 0.5W
3587	4822 116 52297	68k 5% 0.5W
3588	4822 051 20103	10k 5% 0.1W
3589	4822 051 20683	68k 5% 0.1W
3590	4822 051 20103	10k 5% 0.1W
3591	4822 051 20153	15k 5% 0.1W
3595	4822 051 10102	1k 2% 0.25W
3596	4822 116 52244	15k 5% 0.5W
3597	4822 051 20473	47k 5% 0.1W
3598	4822 051 20473	47k 5% 0.1W

5554▲ 4822 156 50097 COIL



6500	4822 130 80446	LL4148
6501	4822 130 80446	LL4148
6503	4822 130 81288	LLZ-C12
6504	4822 130 42489	BYD33G
6506	4822 130 80446	LL4148
6507	4822 130 82882	LLZ-F8V2
6508	4822 130 80446	LL4148
6510	4822 130 82882	LLZ-F8V2
6512	4822 130 42489	BYD33G
6513	4822 130 20293	P0102BA
6515	4822 130 80446	LL4148
6550	4822 130 80446	LL4148



7500	4822 130 42513	BC858C
7501	5322 130 42136	BC848C
7502	5322 130 42136	BC848C
7503	5322 130 42136	BC848C
7504	5322 130 42136	BC848C
7505	5322 130 42136	BC848C
7506	5322 130 42136	BC848C
7507	4822 130 41782	BF422
7508	5322 130 42136	BC848C
7509	4822 209 63995	TDA8444/N4
7510	4822 130 42513	BC858C
7511	5322 130 42136	BC848C
7512	5322 130 42136	BC848C
7513	5322 130 42136	BC848C
7514	5322 130 42136	BC848C
7517	5322 130 42136	BC848C
7518	4822 130 42513	BC858C
7519	5322 130 42136	BC848C
7520	5322 130 42136	BC848C
7521	5322 130 42136	BC848C
7522	4822 130 42513	BC858C
7523	5322 130 42136	BC848C
7524	5322 130 42136	BC848C
7526	5322 130 42136	BC848C

2202	4822 122 33177	10nF 20% 50V
2203	4822 126 13161	100nF 10% 25V
2204	4822 126 13161	100nF 10% 25V
2205	4822 122 33342	33nF 10% 63V
2206	4822 122 32646	5.6nF 10% 50V
2207	4822 122 32646	5.6nF 10% 50V
2208	4822 122 33342	33nF 10% 63V
2209	4822 122 33128	15nF 10% 63V
2210	4822 122 33128	15nF 10% 63V
2211	4822 126 13161	100nF 10% 25V
2212	4822 126 13161	100nF 10% 25V
2214	4822 124 41579	10µF 20% 50V
2215	4822 124 40196	220µF 20% 16V
2216	4822 124 40246	4.7µF 20% 63V
2217	4822 124 41643	100µF 20% 16V
2218	4822 124 40433	47µF 20% 25V
2219	4822 124 40246	4.7µF 20% 63V
2220	4822 124 40196	220µF 20% 16V
2221	4822 124 40196	220µF 20% 16V
2222	5322 121 42498	680nF 5% 63V
2223	5322 121 42498	680nF 5% 63V
2224	4822 122 32927	220nF 20% 50V
2225	4822 122 32927	220nF 20% 50V
2226	4822 124 41643	100µF 20% 16V
2227	4822 124 41643	100µF 20% 16V
2228	4822 124 41643	100µF 20% 16V
2229	4822 124 80702	100µF 20% 25V
2228	4822 124 41643	100µF 20% 16V
2230	5322 124 41431	22µF 20% 35V
2231	5322 124 41431	22µF 20% 35V
2232	5322 122 34098	10nF 10% 63V
2233	5322 122 34098	10nF 10% 63V
2234	4822 122 32927	220nF 20% 50V
2235	4822 122 32927	220nF 20% 50V
2236	4822 122 32927	220nF 20% 50V
2237	5322 124 41431	22µF 20% 35V
2238	5322 124 41431	22µF 20% 35V
2300	4822 121 42408	220nF 5% 63V
2301	4822 126 13161	100nF 10% 25V
2302	4822 126 13161	100nF 10% 25V
2303	4822 122 33514	68pF 5% 50V
2304	5322 122 31863	330pF 5% 50V
2305	4822 126 13161	100nF 10% 25V
2306	5322 122 33538	150pF 2% 63V
2307	5322 122 33538	150pF 2% 63V
2308	5322 122 34123	1nF 10% 50V
2309	4822 126 13161	100nF 10% 25V
2310	5322 122 31863	330pF 5% 50V
2311	5322 122 31866	6.8nF 10% 63V
2312	5322 122 31863	330pF 5% 50V
2313	4822 124 40433	47µF 20% 25V
2318	5322 122 31863	330pF 5% 50V
2319	4822 122 33514	68pF 5% 50V
2320	4822 122 33172	390pF 5% 50V
2321	5322 122 34123	1nF 10% 50V
2322	4822 122 33177	10nF 20% 50V
2323	5322 122 32654	22nF 10% 63V
2324	5322 121 42661	330nF 5% 63V
2325	5322 122 34123	1nF 10% 50V
2328	4822 122 33177	10nF 20% 50V
2329	5322 122 32659	33pF 5% 50V
2330	5322 122 32659	33pF 5% 50V
2331	5322 122 32531	100pF 5% 50V
2332	5322 122 32531	100pF 5% 50V
2333	4822 122 33177	10nF 20% 50V
2334	4822 126 13161	100nF 10% 25V
2335	4822 126 13161	100nF 10% 25V
2336	4822 124 40433	47µF 20% 25V
2340	4822 122 33177	10nF 20% 50V
2343	4822 122 33219	1.8nF 10% 50V
2343	5322 122 32654	22nF 10% 63V
2344	4822 122 33219	1.8nF 10% 50V
2344	5322 122 32654	22nF 10% 63V
2347	4822 124 41643	100µF 20% 16V
2348	4822 121 51319	1µF 10% 63V



3000	4822 051 20151	150Ω 5% 0.1W
3001	4822 101 11192	22k 30% L/N 0.1W
3002	4822 051 20181	180Ω 5% 0.1W
3004	4822 116 52289	5k 5% 0.5W
3011	4822 051 20223	22k 5% 0.1W
3012	4822 051 20223	22k 5% 0.1W
3013	4822 051 20101	100Ω 5% 0.1W
3013	4822 051 20181	180Ω 5% 0.1W
3013	4822 051 20391	390Ω 5% 0.1W
3014	4822 051 20123	12k 5% 0.1W
3015	4822 051 20223	22k 5% 0.1W
3016	4822 051 20562	5k 5% 0.1W
3018	4822 051 20106	10M 5% 0.1W
3019	4822 051 20474	470k 5% 0.1W
3027	4822 051 20122	1k2 5% 0.1W
3031	4822 051 20222	2k2 5% 0.1W
3033	4822 053 10688	608 5% 1W

3034	4822 051 20101	100Ω 5% 0.1W
3034	4822 116 52175	100Ω 5% 0.5W
3036	4822 051 20104	100k 5% 0.1W
3098	4822 051 20104	100k 5% 0.1W
3098	4822 051 20222	2k2 5% 0.1W
3098	4822 051 20564	560k 5% 0.1W
3100	4822 051 20561	560Ω 5% 0.1W
3101	4822 051 20561	560Ω 5% 0.1W
3102	4822 051 20561	560Ω 5% 0.1W
3103	4822 116 52233	10k 5% 0.5W
3104	4822 051 20103	10k 5% 0.1W
3106	4822 051 20104	100k 5% 0.1W
3107	4822 051 20104	100k 5% 0.1W
3108	4822 051 20471	470Ω 5% 0.1W
3109	4822 051 20471	470Ω 5% 0.1W
3113	4822 051 20104	100k 5% 0.1W
3114	4822 051 20222	2k2 5% 0.1W
3115	4822 051 20222	2k2 5% 0.1W
3116	4822 051 20103	10k 5% 0.1W
3117	4822 051 20222	2k2 5% 0.1W
3118	4822 051 20104	100k 5% 0.1W
3119	4822 116 52233	10k 5% 0.5W
3200	4822 051 10102	1k 2% 0.25W
3207	4822 051 20822	8k2 5% 0.1W
3208	4822 052 10181	180Ω 5% 0.33W
3211	4822 051 20122	1k2 5% 0.1W
3212	4822 051 20223	22k 5% 0.1W
3212	4822 051 20473	47k 5% 0.1W
3214	4822 051 20222	2k2 5% 0.1W
3218	4822 051 20474	470k 5% 0.1W
3219	4822 051 20564	560k 5% 0.1W
3220	4822 051 20563	56k 5% 0.1W
3221	4822 051 20563	56k 5% 0.1W
3222	4822 051 20823	8k2 5% 0.1W
3223	4822 051 20333	33k 5% 0.1W
3224	4822 051 20101	100Ω 5% 0.1W
3225	4822 051 20101	100Ω 5% 0.1W
3230	4822 051 20562	5k6 5% 0.1W
3231	4822 051 20332	3k3 5% 0.1W
3232	4822 051 10102	1k 2% 0.25W
3233	4822 051 10102	1k 2% 0.25W
3234	4822 052 10181	180Ω 5% 0.33W
3237	4822 051 20823	8k2 5% 0.1W
3238	4822 051 20333	33k 5% 0.1W
3240	4822 051 20101	100Ω 5% 0.1W
3241	4822 051 20101	100Ω 5% 0.1W
3300	4822 051 20563	56k 5% 0.1W
3301	4822 051 20109	10Ω 5% 0.1W
3302	4822 051 20228	2Ω2 5% 0.1W
3303	4822 051 20392	3k9 5% 0.1W
3304	4822 051 20223	22k 5% 0.1W
3305	4822 051 20223	22k 5% 0.1W
3306	4822 051 20104	100k 5% 0.1W
3307	4822 051 20159	15Ω 5% 0.1W
3308	4822 051 20224	220k 5% 0.1W
3309	4822 051 20823	8k2 5% 0.1W
3314	4822 051 20471	470Ω 5% 0.1W
3315	4822 051 20563	56k 5% 0.1W
3316	4822 051 10102	1k 2% 0.25W
3317	4822 051 20105	1M 5% 0.1W
3318	4822 051 20223	22k 5% 0.1W
3319	4822 117 11139	1k5 1% 0.1W
3320	4822 051 20103	10k 5% 0.1W
3321	4822 051 20104	100k 5% 0.1W
3322	4822 051 20273	27k 5% 0.1W
3323	4822 051 20104	100k 5% 0.1W
3324	4822 051 20103	10k 5% 0.1W
3326	4822 051 20681	680Ω 5% 0.1W
3327	4822 051 20182	1k8 5% 0.1W
3328	4822 117 11139	1k5 1% 0.1W
3329	4822 051 20331	330Ω 5% 0.1W
3331	4822 051 20332	3k3 5% 0.1W
3332	4822 051 20332	3k3 5% 0.1W
3333	4822 116 52224	470Ω 5% 0.5W
3334	4822 051 20122	1k2 5% 0.1W
3335	4822 051 20471	470Ω 5% 0.1W
3336	4822 051 20101	100Ω 5% 0.1W
3337	4822 051 20101	100Ω 5% 0.1W
3340	4822 051 20122	1k2 5% 0.1W
3341	4822 051 20471	470Ω 5% 0.1W
5000	4822 157 61898	Coil
5001	4822 157 71099	0.28µH
5002	4822 157 53066	15µH
5002	4822 157 53634	5.6µH
5002	4822 157 62767	8.2µH
5003	4822 157 71098	1.8µH
5004	4822 157 53302	1µH
5004	4822 157 53539	0.27µH
5100	4822 157 71098	1.8µH
5201	4822 157 71296	1500µH
5300	4822 157 50975	1 mH

5301	4822 157 50975	1 mH
6003	4822 130 80446	LL4148
6007	4822 130 81227	LLZ-F5V6
6100	4822 130 80888	BA682
6106	4822 130 80888	BA682
6107	4822 130 80888	BA682
6200	4822 130 80446	LL4148
6201	4822 130 80446	LL4148
6202	4822 130 82192	LLZ-C8V2
6203	4822 130 80446	LL4148
6204	4822 130 80446	LL4148
6205	4822 130 82192	LLZ-C8V2
6206	4822 130 80446	LL4148
6207	4822 130 80446	LL4148
6208	4822 130 80446	LL4148
6209	4822 130 80446	LL4148
6300	4822 130 80446	LL4148
6301	5322 130 34689	BBY31
6302	5322 130 80119	BBY40
7004	4822 209 33707	TDA9815/V2
7005	5322 130 42136	BC848C
7008	4822 130 44121	BC338
7010	5322 130 42136	BC848C
7102	5322 130 42136	BC848C
7103	5322 130 42136	BC848C
7104	5322 130 42136	BC848C
7105	5322 130 42136	BC848C
7201	5322 130 42136	BC848C
7202	4822 130 42513	BC858C
7203	5322 130 42136	BC848C
7204	4822 209 33706	TDA9861/V1
7205	4822 209 32863	TDA9840/V2
7206	5322 130 42136	BC848C
7207	5322 130 42136	BC848C
7208	5322 130 42136	BC848C
7209	4822 130 42513	BC858C
7302	5322 130 42136	BC848C
7303	5322 130 42136	BC848C
7304	4822 209 30909	TDA8732/C1
7305	4822 209 32959	SAA7282/AZP
7306	5322 130 42136	BC848C
7307	5322 130 42136	BC848C
8009 Scanning module [I]		
Various		
4822 212 31904	Scanning panel compl.	
4822 404 31381	Holder scanning panel	
4822 264 40207	3P male	
4822 267 40985	6P male black	
4822 265 40421	6P male white	
2500	4822 124 41525	100µF 20% 25V
2501	4822 121 51252	470nF 5% 63V
2502	4822 121 51319	1µF 10% 63V
2503	4822 121 51206	47nF 63V
2504	4822 121 41857	10nF 5% 250V
3500	4822 052 10228	2Ω2 5% 0.33W
3502	5322 116 82222	1Ω2 5% 0.5W
3503	5322 116 82222	1Ω2 5% 0.5W
3504	5322 116 82222	1Ω2 5% 0.5W
3506	4822 116 52186	22Ω 5% 0.5W
3507	4822 116 52186	22Ω 5% 0.5W
3509	4822 116 52224	470Ω 5% 0.5W
3510	4822 116 52215	220Ω 5% 0.5W
3511	4822 052 10108	1Ω 5% 0.33W
3512	4822 052 10108	1Ω 5% 0.33W
3513	4822 052 10108	1Ω 5% 0.33W
3514	4822 052 10108	1Ω 5% 0.33W
3516	4822 116 83964	10k 5% 0.5W
5500	4822 142 40343	Transformer
5501	4822 157 53252	Coil
5502	4822 157 71163	330µH
5503	4822 1	

# Spare parts list / Stükliste / Liste des pièces



7500	4822 130 63556	BC640-16
7501	4822 130 61262	BC639-16
7502	4822 130 44154	BF199
7503	4822 130 44154	BF199

## 1003 Eurotext 2 module [F]

### Various

4822 212 31871	Panel eurotext 2 3SC CF
4822 212 31872	Panel eurotext 2 NTX
4822 212 31873	Panel eurotext 2 TXT
4822 212 31874	Panel eurotext 2 TXT CF
4822 404 31419	Holder (scart)
4822 267 60243	21P scart (blue)
4822 267 30631	Cinch 2 fold
4822 267 50721	9P male white
4822 267 51276	9P female white
4822 265 31135	5P male (E26)
4822 267 40696	3P male (E27)
4822 267 40624	5P male
4822 265 41441	7P male (E95)
1816A	4822 252 51169 Fuse 250mA
1910	4822 242 81962 Crystal 13MHz

### II

2200	4822 121 51299	1nF 10% 50V
2201A	4822 124 40433	47µF 20% 25V
2202	4822 121 51299	1nF 10% 50V
2203A	4822 124 40433	47µF 20% 25V
2204	4822 122 31211	100pF 10% 500V
2205	4822 121 51252	470nF 5% 63V
2206	4822 122 31211	100pF 10% 500V
2207	4822 121 51252	470nF 5% 63V
2208	4822 121 51319	1µF 10% 63V
2209	4822 121 51252	470nF 5% 63V
2210	4822 121 51252	470nF 5% 63V
2211A	4822 124 40433	47µF 20% 25V
2212A	4822 124 40433	47µF 20% 25V
2213	4822 121 41857	10nF 5% 250V
2214	4822 121 41857	10nF 5% 250V
2215	5322 124 41431	22µF 20% 35V
2216	5322 124 41431	22µF 20% 35V
2217	4822 124 80791	470µF 20% 16V
2218	5322+24 41431	22µF 20% 35V
2219	5322 124 41431	22µF 20% 35V
2220	4822 122 31116	2.2nF 10% 500V
2221	4822 122 31116	2.2nF 10% 500V
2222	4822 122 31116	2.2nF 10% 500V
2223	4822 122 31116	2.2nF 10% 500V
2224	4822 116 52251	18K 5% 0.5W
2225	4822 116 52251	18K 5% 0.5W
2800	4822 124 41643	100µF 20% 16V
2801	5322 124 41431	22µF 20% 35V
2802	5322 124 41431	22µF 20% 35V
2803A	4822 122 33342	33nF 10% 63V
2805	4822 124 80791	470µF 20% 16V
2806	5322 124 41431	22µF 20% 35V
2807A	4822 124 40246	4.7µF 20% 63V
2808A	4822 124 40246	4.7µF 20% 63V
2809	5322 124 41431	22µF 20% 35V
2810	4822 124 41643	100µF 20% 16V
2811	4822 124 41643	100µF 20% 16V
2813	4822 121 51252	470nF 5% 63V
2814	4822 121 41856	22nF 5% 250V
2822	4822 126 13161	100nF 10% 25V
2825	4822 122 32139	12pF 2% 63V
2826	4822 122 32139	12pF 2% 63V
2830	5322 121 42386	100nF 5% 63V
2832	5322 122 32531	100pF 5% 50V
2833A	4822 124 40196	220µF 20% 16V
2834	4822 126 12944	47nF 10% 50V
2835A	4822 124 40246	4.7µF 20% 63V
2837A	5322 122 32269	6.8pF 5% 50V
2838	4822 124 41643	100µF 20% 16V
2890	4822 126 13161	100nF 10% 25V
2900A	4822 124 40246	4.7µF 20% 63V
2901A	4822 124 40433	47µF 20% 25V
2908	4822 122 31211	100pF 10% 500V
2909	4822 122 31211	100pF 10% 500V
2910A	4822 122 33177	10nF 20% 50V
2911	5322 126 10794	220pF 5% 63V
2912	5322 122 32448	10pF 5% 50V
2913	5322 122 32481	15pF 5% 50V
2914	4822 126 13161	100nF 10% 25V

2915	4822 126 13161	100nF 10% 25V
2916	5322 126 10794	220pF 5% 63V
2917A	4822 122 33177	10nF 20% 50V
2918	5322 122 32452	47pF 5% 63V
2920	4822 126 13161	100nF 10% 25V
2922	5322 122 32658	22pF 5% 50V
2925A	4822 122 33177	10nF 20% 50V
2926	5322 124 41431	22µF 20% 35V
2927	4822 124 41643	100µF 20% 16V
2928	4822 122 33575	220pF 5% 50V
3200	4822 116 52211	150Ω 5% 0.5W
3201	4822 051 20563	56k 5% 0.1W
3202	4822 116 52211	150Ω 5% 0.5W
3203	4822 051 20563	56k 5% 0.1W
3204	4822 050 11002	1k 1% 0.4W
3205	4822 050 11002	1k 1% 0.4W
3206	4822 051 20824	820k 5% 0.1W
3207	4822 051 20824	820k 5% 0.1W
3208	4822 116 52305	820k 5% 0.5W
3209	4822 051 20824	820k 5% 0.1W
3210	4822 051 20224	220k 5% 0.1W
3211	4822 051 20332	3k3 5% 0.1W
3212	4822 051 20224	220k 5% 0.1W
3213	4822 051 20332	3k3 5% 0.1W
3214	4822 051 20563	56k 5% 0.1W
3215	4822 051 20563	56k 5% 0.1W
3216	4822 116 52201	75Ω 5% 0.5W
3217	4822 116 52201	75Ω 5% 0.5W
3218	4822 051 20153	15k 5% 0.1W
3220	4822 051 20153	15k 5% 0.1W
3222	4822 051 20563	56k 5% 0.1W
3223	4822 051 20563	56k 5% 0.1W
3224	4822 051 20563	56k 5% 0.1W
3225	4822 051 20563	56k 5% 0.1W
3226	4822 051 20563	56k 5% 0.1W
3227	4822 051 20563	56k 5% 0.1W
3228	4822 051 20103	10k 5% 0.1W
3229	4822 051 20103	10k 5% 0.1W
3230	4822 051 20153	15k 5% 0.1W
3231	4822 051 20332	3k3 5% 0.1W
3232	4822 051 20153	15k 5% 0.1W
3233	4822 051 20332	3k3 5% 0.1W
3234	4822 116 52211	150Ω 5% 0.5W
3235	4822 116 52211	150Ω 5% 0.5W
3236	4822 116 52251	18k 5% 0.5W
3237	4822 116 52251	18k 5% 0.5W
3800A	4822 116 83953	75Ω 5% 0.125W
3801	4822 050 11201	120Ω 1% 0.4W
3802	4822 051 20101	100Ω 5% 0.1W
3803	4822 051 10102	1k 2% 0.25W
3804	4822 051 20561	560Ω 5% 0.1W
3805	4822 050 11201	120Ω 1% 0.4W
3806	4822 051 20562	56k 5% 0.1W
3807	4822 051 10102	1k 2% 0.25W
3808A	4822 116 83953	75Ω 5% 0.125W
3809	4822 116 80175	4k7 5% 0.5W
3810A	4822 116 83953	75Ω 5% 0.125W
3811	4822 050 11201	120Ω 1% 0.4W
3812	4822 051 20104	100k 5% 0.1W
3813	4822 051 20104	100k 5% 0.1W
3814	4822 116 52296	6k8 5% 0.5W
3815	4822 050 11002	1k 1% 0.4W
3816	4822 116 52175	100Ω 5% 0.5W
3817	4822 051 10102	1k 2% 0.25W
3818	4822 116 52199	68Ω 5% 0.5W
3819	4822 116 80175	4k7 5% 0.5W
3820	4822 116 52175	100Ω 5% 0.5W
3821	4822 051 20101	100Ω 5% 0.1W
3822	4822 116 52195	47Ω 5% 0.5W
3823	4822 116 52175	100Ω 5% 0.5W
3824	4822 051 20221	220Ω 5% 0.1W
3825	4822 051 20222	2k2 5% 0.1W
3826A	4822 052 10159	15Ω 5% 0.33W
3827	4822 116 52226	560Ω 5% 0.5W
3828	4822 116 52207	1k2 5% 0.5W
3829	4822 051 20562	56k 5% 0.1W
3830	4822 051 20561	560Ω 5% 0.1W
3831	4822 116 52296	6k8 5% 0.5W
3832	4822 117 11139	1k5 1% 0.1W
3833	4822 051 20101	100Ω 5% 0.1W
3834A	4822 053 10221	220Ω 5% 1W
3835	4822 050 11002	1k 1% 0.4W
3836	4822 051 20392	3k9 5% 0.1W
3837	4822 051 20104	100k 5% 0.1W
3838	4822 051 20332	3k3 5% 0.1W
3839	4822 051 20331	330Ω 5% 0.1W
3840	4822 051 20471	470Ω 5% 0.1W
3841	4822 117 11139	1k5 1% 0.1W
3842	4822 116 52175	100Ω 5% 0.5W
3843	4822 051 20223	22k 5% 0.1W
3845	4822 051 20221	220Ω 5% 0.1W

3846	4822 116 52215	220Ω 5% 0.5W
3847	4822 116 52175	100Ω 5% 0.5W
3848	4822 051 20101	100Ω 5% 0.1W
3849A	4822 051 20109	10Ω 5% 0.1W
3851	4822 051 20221	220Ω 5% 0.1W
3852	4822 051 20562	56k 5% 0.1W
3853	4822 051 20562	56k 5% 0.1W
3854	4822 050 11201	120Ω 1% 0.4W
3855	4822 051 20105	1M 5% 0.1W
3856	4822 051 20393	39k 5% 0.1W
3857	4822 051 20103	10k 5% 0.1W
3858A	4822 051 20472	4k7 5% 0.1W
3859	4822 051 20272	2k7 5% 0.1W
3860	4822 051 10102	1k 2% 0.25W
3861	4822 051 20103	10k 5% 0.1W
3862	4822 051 20473	47k 5% 0.1W
3863	4822 051 20473	47k 5% 0.1W
3864	4822 051 10102	1k 2% 0.25W
3865	4822 051 20103	10k 5% 0.1W
3866	4822 051 20473	47k 5% 0.1W
3867A	4822 116 83953	75Ω 5% 0.125W
3885	4822 050 11201	120Ω 1% 0.4W
3886	4822 050 11201	120Ω 1% 0.4W
3887	4822 050 11201	120Ω 1% 0.4W
3890A	4822 051 20472	4k7 5% 0.1W
3891A	4822 051 20472	4k7 5% 0.1W
3892A	4822 051 20472	4k7 5% 0.1W
3893	4822 116 52256	2k2 5% 0.5W
3895A	4822 116 83953	75Ω 5% 0.125W
3896	4822 050 11201	120Ω 1% 0.4W
3897A	4822 116 83953	75Ω 5% 0.125W
3898	4822 050 11201	120Ω 1% 0.4W
3899	4822 050 11201	120Ω 1% 0.4W
3900A	4822 052 10279	27Ω 5% 0.33W
3900A	4822 052 10828	83Ω 5% 0.33W
3901	4822 051 20271	270Ω 5% 0.1W
3903	4822 051 20101	100Ω 5% 0.1W
3904	4822 051 20221	220Ω 5% 0.1W
3903	4822 051 20331	330Ω 5% 0.1W
3903	4822 051 20561	560Ω 5% 0.1W
3910	4822 051 20153	15k 5% 0.1W
3911	4822 051 10102	1k 2% 0.25W
3912	4822 051 20471	470Ω 5% 0.1W
3913	4822 051 20471	470Ω 5% 0.1W
3914	4822 116 52219	330Ω 5% 0.5W
3915	4822 051 20682	6k8 5% 0.1W
3918	4822 051 20221	220Ω 5% 0.1W
3919	4822 051 20221	220Ω 5% 0.1W
3920	4822 051 20473	47k 5% 0.1W
3921	4822 116 52175	100Ω 5% 0.5W
3922	4822 116 52195	47Ω 5% 0.5W
3923	4822 051 20101	100Ω 5% 0.1W
3924	4822 116 52195	47Ω 5% 0.5W
3925	4822 051 20473	47k 5% 0.1W
3926	4822 051 20223	22k 5% 0.1W
3927	4822 051 20333	3k3 5% 0.1W
3928	4822 116 52276	3k9 5% 0.5W
3929	4822 051 10102	1k 2% 0.25W
5830	4822 152 20677	10µH
5920	4822 157 53634	5.6µH 10%
6201	4822 130 80446	LL4148
6206	4822 130 82921	LLZ-F3V9
6207	4822 130 82921	LLZ-F3V9
6208	4822 130 82921	LLZ-F3V9
6209	4822 130 82921	LLZ-F3V9
6800	4822 130 80446	LL4148
6801	5322 130 34955	BA482
6803	5322 130 34955	BA482
6804	4822 130 80446	LL4148
6805	4822 130 81015	LLZ-C10
6810	4822 130 82921	LLZ-F3V9
6830	4822 130 80446	LL4148
6831	4822 130 80446	LL4148
6900	4822 130 81227	LLZ-F5V6
6920A	4822 130 30621	1N4148
6921A	4822 130 30621	1N4148
6922	4822 130 80446	LL4148
6923	4822 130 80446	LL4148
7201		



Main carrier [A/B/C/D]		2261 4822 122 31116 2.2nF 10% 500V		2469 4822 124 41596 22µF 20% 50V			
Various		2300 4822 122 32482 22pF 2% 63V		2470 4822 122 31772 47pF 2% 63V			
▲ 4822 265 30389 2P male vert yellow		2301 4822 122 32999 2.2N 5%		2471 5322 121 42661 330nF 5% 63V		□	
4822 267 41113 3P female hor white		2301 5322 126 13457 2200pF 2% 63V		2473 5322 121 42661 330nF 5% 63V		3001▲ 4822 052 10399 39Ω 5% 0.33W	
4822 267 40794 3P female vert grey WTB		2303 4822 122 31768 180pF 2% 63V		2475 5322 122 31647 1nF 10% 63V		3002 4822 116 52257 22k 5% 0.5W	
4822 267 31694 3P female hor blue		2304 4822 122 31773 560pF 2% 63V		2476▲ 4822 122 32442 10nF 50V		3003 4822 116 52296 6k8 5% 0.5W	
4822 265 30499 3P female black		2304 4822 122 32999 2.2N 5%		2501 4822 122 33481 1800pF 2% 63V		3009 4822 116 52175 100Ω 5% 0.5W	
4822 264 40207 3P male vert WTB		2304 5322 126 13457 2200pF 2% 63V		2502 5322 124 41381 22µF 20% 50V		3010 4822 116 52175 100Ω 5% 0.5W	
4822 265 30877 3P male vert		2305 4822 126 10324 33pF 2% 63V		2503▲ 4822 122 32442 10nF 50V		3200 4822 051 10223 22k 2% 0.25W	
4822 267 40696 3P male vert white		2306 4822 122 31965 220pF 2% 63V				3201 4822 051 10562 5k6 2% 0.25W	
4822 267 40666 3P male vert blue		2307 4822 122 33496 100nF 10% 63V				3202 4822 051 10122 1k2 2% 0.25W	
4822 264 40239 3P male vert green		2308 4822 122 31797 22nF 10% 63V				3203 4822 116 83864 10k 5% 0.5W	
4822 265 30378 4P male vert WTB		2309 4822 122 31971 10pF 2% 63V				3204 4822 051 10101 100Ω 2% 0.25W	
4822 267 40699 4P male vert red		2310 4822 121 41857 10nF 5% 250V				3205 4822 051 10223 22k 2% 0.25W	
4822 290 40283 5p male vert green		2310 4822 121 42408 220nF 5% 63V				3206 4822 051 10562 5k6 2% 0.25W	
4822 267 30546 6P female vert grey		2311 4822 122 33496 100nF 10% 63V				3207 4822 116 52207 1k2 5% 0.5W	
4822 265 30582 6P female hor black		2312 4822 121 41857 10nF 5% 250V				3208 4822 116 52228 680Ω 5% 0.5W	
4822 265 40421 6P male vert WTB		2312 4822 121 41857 10nF 5% 250V				3208 4822 116 52263 2k7 5% 0.5W	
4822 267 50621 7P male vert white		2312 4822 121 42408 220nF 5% 63V				3208 4822 116 52289 5k6 5% 0.5W	
4822 267 60243 21p scart		2313 4822 125 50045 1p8-22p 250V				3209 4822 116 52228 680Ω 5% 0.5W	
4822 502 13712 Screw 12x3		2314 5322 121 42661 330nF 5% 63V				3209 4822 116 52263 2k7 5% 0.5W	
4822 492 70143 Spring 10x33		2314 5322 122 32818 2.2nF 10% 100V				3209 4822 116 52289 5k6 5% 0.5W	
4822 256 91879 Holder		2315 4822 122 31825 27pF 2% 63V				3220 4822 051 10392 3k9 2% 0.25W	
4822 256 92053 Fuse holder		2316 4822 122 33496 100nF 10% 63V				3222 4822 116 52234 100k 5% 0.5W	
4822 466 30395 Shield µC		2319▲ 4822 122 32442 10nF 50V				3223 4822 051 10109 10Ω 2% 0.25W	
4822 492 70871 Spring fix IC		2321 4822 122 31797 22nF 10% 63V				3224 4822 051 20222 2k2 5% 0.1W	
-1000 4822 210 10436 U944C/IEC		2322 4822 122 31797 22nF 10% 63V				3225 4822 051 10722 2k7 2% 0.25W	
1000 4822 210 10611 UV916M-VHF/JUH F		2323 4822 122 32542 47nF 10% 63V				3226 4822 051 10333 3k3 2% 0.25W	
1240▲ 4822 252 51174 Fuse 1.6A		2325 4822 122 31965 220pF 2% 63V				3227 4822 051 10330 3k3 2% 0.25W	
1242▲ 4822 252 51174 Fuse 1.6A		2325 4822 122 32542 47nF 10% 63V				3228 4822 116 52211 150Ω 5% 0.5W	
1300 4822 242 81807 Cristal 8,867570MHz		2326 4822 122 31839 82pF 2% 63V				3229 4822 051 10562 5k6 2% 0.25W	
1301 4822 242 70304 Cristal 8,867238 MHz		2328▲ 4822 122 32442 10nF 50V				3230 4822 051 10223 22k 2% 0.25W	
1534▲ 4822 252 51172 Fuse 3.15A		2329▲ 4822 122 32442 10nF 50V				3231▲ 4822 051 10472 4k7 2% 0.25W	
1559▲ 4822 252 51173 Fuse 1A		2330 4822 122 33496 100nF 10% 63V				3240▲ 4822 052 10828 8Ω 2% 0.33W	
1563 4822 526 10405 BEAD		2333 4822 122 33496 100nF 10% 63V				3242 4822 051 10563 5k6 2% 0.25W	
1564 4822 526 10405 Bead		2334 4822 122 33496 100nF 10% 63V				3243 4822 051 10563 5k6 2% 0.25W	
1580▲ 4822 252 51174 Fuse 1.6A		2336 4822 122 31797 22nF 10% 63V				3244▲ 4822 051 10103 10k 2% 0.25W	
1600▲ 4822 070 32502 Fuse 2.5A		2337 4822 122 31797 22nF 10% 63V				3245▲ 4822 051 10103 10k 2% 0.25W	
1601▲ 4822 252 51175 Fuse 2.5A		2338 4822 122 31797 22nF 10% 63V				3250 4822 116 80175 4k7 5% 0.5W	
1640 4822 526 10405 Bead		2339 4822 122 33496 100nF 10% 63V				3251 4822 116 80175 4k7 5% 0.5W	
1641 4822 526 10405 Bead		2340 4822 122 31797 22nF 10% 63V				3253 4822 116 52211 150Ω 5% 0.5W	
1642 4822 526 10405 Bead		2341 4822 122 31797 22nF 10% 63V				3254 4822 116 52211 150Ω 5% 0.5W	
1643 4822 526 10405 Bead		2342 4822 122 33496 100nF 10% 63V				3300 4822 051 10822 8k2 2% 0.25W	
1702 4822 242 81841 Cristal 8MHz		2343 4822 122 33496 100nF 10% 63V				3301 4822 051 10722 2k7 2% 0.25W	
1702 4822 242 81946 Cristal 8MHz (29")		2344 4822 122 33496 100nF 10% 63V				3302 4822 051 20222 2k2 5% 0.1W	
-II-		2345 4822 122 31797 22nF 10% 63V				3303 4822 051 10122 1k2 2% 0.25W	
2001 4822 124 40214 1000µF 20% 25V		2348▲ 4822 124 40196 220µF 20% 16V				3303 4822 051 10392 3k3 2% 0.25W	
2002 4822 122 31797 22nF 10% 63V		2349 5322 122 31647 1nF 10% 63V				3304 4822 051 10182 1k8 2% 0.25W	
2003 4822 122 33496 100nF 10% 63V		2350▲ 4822 124 40433 47µF 20% 25V				3305 4822 051 10431 430Ω 2% 0.25W	
2005▲ 4822 124 40196 220µF 20% 16V		2351 4822 122 31797 22nF 10% 63V				3306 4822 116 83864 10k 5% 0.5W	
2010 4822 124 40248 10µF 20% 63V		2352 5322 122 31647 1nF 10% 63V				3307 4822 051 10561 50Ω 2% 0.25W	
2010 4822 124 41579 10µF 20% 50V		2353 4822 122 33496 100nF 10% 63V				3307 4822 051 10681 680Ω 2% 0.25W	
2012 4822 122 31768 180pF 2% 63V		2354 4822 124-40242 1µF 20% 63V				3308 4822 051 20183 18k 5% 0.1W	
2031▲ 4822 124 41525 100µF 20% 25V		2355 4822 124 40849 330µF 20% 16V				3309 4822 051 10562 5k6 2% 0.25W	
2232 4822 122 31797 22nF 10% 63V		2356 4822 122 31797 22nF 10% 63V				3310▲ 4822 051 10472 4k7 2% 0.25W	
2236 4822 122 31644 2.2nF 10% 63V		2357 4822 122 31797 22nF 10% 63V				3311▲ 4822 051 10103 10k 2% 0.25W	
2236 4822 122 31784 4.7nF 10% 50V		2358 4822 122 31797 22nF 10% 63V				3312 4822 051 10331 330Ω 2% 0.25W	
2236 5322 122 31647 1nF 10% 63V		2359 4822 122 31765 100pF 2% 63V				3313 4822 051 10274 270k 2% 0.25W	
2237 4822 122 31947 100nF 20% 63V		2360 4822 122 33496 100nF 10% 63V				3314 4822 116 83864 10k 5% 0.5W	
2238 4822 122 32153 1.8nF 10% 63V		2361 4822 122 33496 100nF 10% 63V				3318 4822 116 52224 470Ω 5% 0.5W	
2238 4822 122 33496 2.7nF 10% 63V		2362 4822 122 33496 100nF 10% 63V				3319▲ 4822 051 10103 10k 2% 0.25W	
2238 5322 122 31647 1nF 10% 63V		2363 4822 122 31765 100pF 2% 63V				3321 4822 051 10473 47k 2% 0.25W	
2239 4822 122 31947 100nF 20% 63V		2365 5322 121 42661 330nF 5% 63V				3323 4822 116 52305 820k 5% 0.5W	
2240 4822 124 40214 1000µF 20% 25V		2366 4822 124 40248 10µF 20% 63V				3324 4822 051 10331 330Ω 2% 0.25W	
2240 4822 124 42449 2200µF 20% 25V		2366 4822 124 41579 10µF 20% 50V				3325 4822 116 52175 100Ω 5% 0.5W	
2241 5322 121 42386 100nF 5% 63V		2367 4822 124 40753 6.8µF 20% 63V				3326 4822 051 10101 100Ω 2% 0.25W	
2242 4822 124 40214 1000µF 20% 25V		2368 4822 126 13094 1µF 2% 63V				3327 4822 051 10331 330Ω 2% 0.25W	
2242 4822 124 42449 2200µF 20% 25V		2369 4822 121 51252 470nF 5% 63V				3328 4822 051 10102 1k 2% 0.25W	
2243 4822 121 41856 22nF 5% 250V		2370 4822 121 42408 220nF 5% 63V				3329 4822 116 52256 2k 5% 0.5W	
2245 4822 121 41856 22nF 5% 250V		2374 4822 122 31772 47pF 2% 63V				3330 4822 051 10109 10Ω 2% 0.25W	
2246 4822 124 41596 22µF 20% 50V		2378 4822 122 33496 100nF 10% 63V				3331 4822 051 10109 10Ω 2% 0.25W	
2248 4822 124 40849 330µF 20% 16V		2385 4822 122 31772 47pF 2% 63V				3332 4822 050 15609 56Ω 1% 0.4W	
2249 4822 122 31797 22nF 10% 63V		2386 4822 122 33481 1800pF 2% 63V				3333 4822 051 20222 2k2 5% 0.1W	
2252 4822 121 41857 10nF 5% 250V		2451 4822 122 33496 100nF 10% 63V				3334▲ 4822 053 11279 27Ω 5% 2W	
2253 4822 121 41857 10nF 5% 250V		2453 5322 124 41431 22µF 20% 35V				3334 4822 053 11399 39Ω 5% 2W	
2254 4822 121 51252 470nF 5% 63V		2455 4822 122 31773 560pF 2% 63V				3335 4822 116 52226 560Ω 5% 0.5W	
2255 4822 121 51252 470nF 5% 63V		2455 5322 122 31647 1nF 10% 63V				3336▲ 4822 052 10479 47Ω 5% 0.33W	
2256 4822 122 32142 270pF 2% 63V		2456 4822 124 40242 1µF 20% 63V				3342▲ 4822 051 10103 10k 2% 0.25W	
2257 4822 122 32142 270pF 2% 63V		2457 4822 122 33496 100nF 10% 63V				3343 4822 051 10473 47k 2% 0.25W	
2258 4822 121 51252 470nF 5% 63V		2458 4822 121 42937 2.7nF 1% 250V				3346 4822 051 10332 3k3 2% 0.25W	
2259 4822 121 51252 470nF 5% 63V		2459 4822 122 33496 100nF 10% 63V				3347 4822 116 52219 330Ω 5% 0.5W	
2260 4822 122 31116 2.2nF 10% 500V		2460 4822 122 31781 1500pF 10% 50V				3348 4822 116 52219 330Ω 5% 0.5W	
		2460 4822 122 32566 3.9nF 10% 63V				3349 4822 116 52219 330Ω 5% 0.5W	
		2460 4822 122 33498 2.7nF 10% 63V				3350 4822 050 11002 1k 1% 0.4W	
		2460 5322 122 33446 3.3nF 10% 63V				3356▲ 4822 050 21008 1Ω 1% 0.6W	
		2461 5322 122 31647 1nF 10% 63V				3358 4822 051 10331 330Ω 2% 0.25W	
		2462 4822 122 31797 22nF 10% 63V				3359 4822 116 52219 330Ω 5% 0.5W	
		2462 4822 122 33496 100nF 10% 63V				3361 4822 051 10101 100Ω 2% 0.25W	
		2465 4822 124 40198 470nF 20% 16V				3362 4822 051 10102 1k 2% 0.25W	
		2466 4822 124 40248 10µF 20% 63V				3363 4822 116 52175 100Ω 5% 0.5W	
		2466 4822 124 41579 10µF 20% 50V				3364 4822 050 21502 1k5 1% 0.6W	
		2467 4822 122 33496 100nF 10% 63V				3366 4822 116 52297 68k 5% 0.5W	
		2468 4822 124 22652 2.2µF 20% 50V				3367 4822 116 52175 100Ω 5% 0.5W	

3368	4822 116 52175	100Ω 5% 0.5W	3545	4822 113 80668	330Ω 5% 5W	3775	4822 051 10101	100Ω 2% 0.25W	6483A	4822 130 30621	1N4148
3369	4822 116 52175	100Ω 5% 0.5W	3545	4822 113 80676	220Ω 5% 5W	3776	4822 051 10562	5k6 2% 0.25W	6503	4822 130 42488	BYD33D
3370A	4822 051 10472	4k7 2% 0.25W	3546	4822 116 52206	120Ω 5% 0.5W	3779	4822 116 83864	10k 5% 0.5W	6504	4822 130 80446	LL4148
3371	4822 051 10332	3k3 2% 0.25W	3546	4822 116 52213	180Ω 5% 0.5W	3780A	4822 051 10103	10k 2% 0.25W	6505	4822 130 80446	LL4148
3375	4822 051 10109	10Ω 2% 0.25W	3546	4822 116 52217	270Ω 5% 0.5W	3781A	4822 051 10472	4k7 2% 0.25W	6542	4822 130 81222	LLZ-C15
3376	4822 051 10109	10Ω 2% 0.25W	3548	4822 116 52175	100Ω 5% 0.5W	3791	4822 051 10122	1k2 2% 0.25W	6542	4822 130 82345	LLZ-C22
3380	4822 051 10101	100Ω 2% 0.25W	3549	4822 050 21203	12k 1% 0.6W	3792	4822 051 10122	1k2 2% 0.25W	6546A	4822 130 83342	BY228-RAP15/10
3381	4822 051 10101	100Ω 2% 0.25W	3550	4822 050 21203	12k 1% 0.6W	3793	4822 051 10122	1k2 2% 0.25W	6547A	4822 130 41602	BYW95C/20
3385	4822 051 10102	1k 2% 0.25W	3551A	4822 050 25601	560Ω 1% 0.6W	3794	4822 116 52215	220Ω 5% 0.5W	6549A	4822 130 31983	BAT85
3450	4822 116 52238	12k 5% 0.5W	3552A	4822 050 25601	560Ω 1% 0.6W	3850	4822 116 52201	75Ω 5% 0.5W	6551	4822 130 42489	BYD33G
3451	4822 116 52175	100Ω 5% 0.5W	3553A	4822 052 10561	560Ω 5% 0.33W	3851A	4822 116 83953	75Ω 5% 0.125W	6560	4822 130 80446	LL4148
3453	4822 116 52251	18k 5% 0.5W	3560	4822 116 52244	15k 5% 0.5W	3852A	4822 116 83953	75Ω 5% 0.125W	6561	4822 130 30864	BZX79-C68
3454	4822 050 11002	1k 1% 0.4W	3560	4822 116 52244	15k 5% 0.5W	3853A	4822 116 83953	75Ω 5% 0.125W	6563A	4822 130 80915	BYD74C
3455	4822 051 10122	1k2 2% 0.25W	3561	4822 051 10332	3k3 2% 0.25W	3854A	4822 116 83953	75Ω 5% 0.125W	6570	4822 130 42489	BYD33G
3456A	4822 051 10103	10k 2% 0.25W	3561	4822 051 10682	6k8 2% 0.25W	3855	4822 116 52201	75Ω 5% 0.5W	6571	4822 130 42488	BYD33D
3457	4822 116 83726	27k 5% 0.125W	3561	4822 051 20222	2k2 5% 0.1W	3856	4822 116 52175	100Ω 5% 0.5W	6580	4822 130 80791	BYV28-200/20
3458	4822 117 11455	7k87 1%	3570A	4822 052 10688	60k 5% 0.33W	3860	4822 116 80176	1Ω 5% 0.5W	6585	4822 130 42489	BYD33G
3459	4822 116 52304	82k 5% 0.5W	3588A	4822 052 10271	270Ω 5% 0.33W	3861	4822 051 10159	15Ω 2% 0.25W	6590	4822 130 80881	LLZ-C33
3460	4822 116 52271	33k 5% 0.5W	3589A	4822 052 10271	270Ω 5% 0.33W	3862	4822 116 52218	300Ω 5% 0.5W	6591A	4822 130 30621	1N4148
3461	4822 100 10436	22k CARB LIN 0.1W	3590	4822 116 52272	330k 5% 0.5W	3863	4822 051 10223	22k 2% 0.25W	6592	4822 130 81144	LLZ-C30
3462	4822 116 52257	22k 5% 0.5W	3591	4822 051 10682	6k8 2% 0.25W	3864	4822 051 20222	2k2 5% 0.1W	6592	4822 130 82345	LLZ-C22
3463	4822 116 52251	18k 5% 0.5W	3592	4822 051 10681	680Ω 2% 0.25W	3865	4822 116 52284	47k 5% 0.5W	6592	4822 130 82346	LLZ-C27
3464	4822 051 10123	12k 2% 0.25W	3604A	4822 113 80593	1.5Ω 10% 5W	3866	4822 051 10333	33k 2% 0.25W	6610	4822 130 80446	LL4148
3465	4822 051 10394	390k 2% 0.25W	3606A	4822 052 10102	1Ω 5% 0.33W	3867	4822 116 52283	4k7 5% 0.5W	6611A	5322 130 80442	BZV85-C16
3466	4822 051 10681	680Ω 2% 0.25W	3610A	4822 052 10688	6k8 5% 0.33W	3868	4822 051 10394	390k 2% 0.25W	6612	4822 130 42488	BYD33D
3467	4822 053 20275	2M7 5% 0.25W	3610A	4822 052 10828	8Ω 2% 0.33W	3872	4822 051 10102	1k 2% 0.25W	6615	4822 130 80446	LL4148
3467	4822 053 20335	3M3 5% 0.25W	3616A	4822 050 24708	4Ω 7% 1% 0.6W	3886A	4822 051 10472	4k7 2% 0.25W	6617	4822 130 31456	BZV85-C5V1
3467	4822 053 20395	3M9 5% 0.25W	3616A	4822 157 52265	COIL	3887	4822 050 11002	1k 1% 0.4W	6621	4822 130 42488	BYD33D
3468	4822 051 10682	6k8 2% 0.25W	3617	4822 116 52213	180Ω 5% 0.5W	3888	4822 116 52289	5k6 5% 0.5W	6622A	4822 130 30621	1N4148
3469	4822 051 10229	22Ω 2% 0.25W	3619	4822 116 52182	15Ω 5% 0.5W	3890A	4822 051 10103	10k 2% 0.25W	6622A	4822 130 31933	1N5061
3470	4822 116 83864	10k 5% 0.5W	3620	4822 053 12121	120Ω 5% 3W	4xxx	4822 051 10008	0Ω 5% 0.25W	6625A	4822 130 31933	1N5061
3471	4822 116 52239	120k 5% 0.5W	3621A	4822 053 12279	27Ω 5% 3W	5001	4822 156 20966	47 μH	6630A	4822 130 33531	BY229F-600
3471	4822 116 52252	180k 5% 0.5W	3621A	4822 053 12479	47Ω 5% 3W	5240	4822 157 53066	15μH	6630A	4822 130 81175	BYD74G
3471	4822 116 52285	470k 5% 0.5W	3622	4822 053 12479	47Ω 5% 3W	5240	4822 157 71401	27μH	6640	4822 130 80914	BYD74B
3471	4822 116 83878	270k 5% 0.5W	3626	4822 113 80565	180Ω 5% 5W	5242	4822 157 70826	2.4μH	6641	4822 130 80914	BYD74B
3473	4822 116 83878	270k 5% 0.5W	3631	4822 050 21204	120k 1% 0.6W	5242	4822 157 70826	2.4μH	6641	4822 130 80914	BYD74B
3474	4822 051 10562	5k6 2% 0.25W	3631	4822 050 22204	220k 1% 0.6W	5242	4822 157 71401	27μH	6661	4822 130 42488	BYD33D
3475	4822 051 10184	180k 2% 0.25W	3634	4822 051 10272	2k7 2% 0.25W	5242	4822 157 70826	2.4μH	6666	4822 130 34329	BZX79-C43
3476	4822 051 10104	100k 2% 0.25W	3634	4822 051 10332	3k3 2% 0.25W	5242	4822 157 70826	2.4μH	6666	4822 130 34368	BZX79-C36
3477	4822 051 10008	0Ω 5% 0.25W	3635	4822 101 11187	1k 30% LIN 0.1W	5242	4822 157 70826	2.4μH	6675	4822 130 80914	BYD74B
3477	4822 051 10228	2Ω 2% 0.25W	3637	4822 116 52175	100Ω 5% 0.5W	5301	4822 157 63075	7.95μH	6697A	4822 130 31631	BYV10-20
3478	4822 051 10008	0Ω 5% 0.25W	3659	4822 051 10181	180Ω 2% 0.25W	5303	4822 157 70827	33μH	6699A	4822 130 31631	BYV10-20
3478	4822 051 10478	4Ω 7% 0.25W	3675	4822 116 52239	120k 5% 0.5W	5534A	4822 157 62771	Coil 90°	6699	4822 130 80914	BYD74B
3479	4822 116 52219	330Ω 5% 0.5W	3675	4822 116 52284	47k 5% 0.5W	5534A	4822 158 10728	Coil 110°	6704	4822 130 80446	LL4148
3480	4822 050 11002	1k 1% 0.4W	3677	4822 051 10108	1Ω 5% 0.25W	5541A	4822 157 63078	Driver transformer	6705	4822 130 80905	LLZ-F5V1
3481	4822 116 52283	4k7 5% 0.5W	3678	4822 116 52283	47k 5% 0.5W	5545A	4822 140 10499	LOT-21°-90°	6708	4822 130 81145	LLZ-F2V4
3482	4822 116 52283	4k7 5% 0.5W	3682A	4822 053 10561	560Ω 5% 1W	5545A	4822 140 10501	LOT	6709	4822 130 34142	BZV89-533
3483A	4822 052 10339	33Ω 5% 0.33W	3700	4822 116 52257	22k 5% 0.5W	5545A	4822 140 10501	LOT	6860	4822 130 82334	BAS85
3484	4822 051 20183	18k 5% 0.1W	3706A	4822 051 10103	10k 2% 0.25W	5545A	4822 140 10501	25°/28°BLS/16/9	6861A	4822 130 30621	1N4148
3485	4822 051 10682	6k8 2% 0.25W	3707	4822 051 10101	100Ω 2% 0.25W	5545A	4822 140 10503	LOT 21°-110°	6862	4822 130 80446	LL4148
3486	4822 051 10192	1k8 2% 0.25W	3708A	4822 051 10103	10k 2% 0.25W	5545A	4822 140 10515	LOT 29°-superflat	7003	4822 130 42133	BC817
3487	4822 116 52231	820Ω 5% 0.5W	3708	4822 051 10123	12k 2% 0.25W	5545A	4822 157 53069	Balance coil	7200	5322 130 42136	BC848C
3488	4822 051 10471	470Ω 2% 0.25W	3708	4822 051 10223	22k 2% 0.25W	5545A	4822 156 50097	Linearity LC90	7201	5322 130 42136	BC848C
3489	4822 051 10008	0Ω 5% 0.25W	3709	4822 116 52283	4k7 5% 0.5W	5545A	4822 157 63079	Linearity AT4042	7202	5322 130 42136	BC848C
3490	4822 116 52296	6k8 5% 0.5W	3710	4822 051 10104	100k 2% 0.25W	5563A	4822 157 51462	10μH	7240	4822 209 73853	TDA1521/N4
3501	4822 051 10229	22Ω 2% 0.25W	3718	4822 116 52215	220Ω 5% 0.5W	5582	4822 157 70826	2.4μH	7243	4822 130 42513	BC858C
3501	4822 051 10279	27Ω 2% 0.25W	3719	4822 116 52215	220Ω 5% 0.5W	5588A	4822 157 53252	22μH	7244	4822 130 42513	BC858C
3502A	4822 053 10122	1k2 5% 1W	3721A	4822 051 10103	10k 2% 0.25W	5606A	4822 157 53995	100μH	7248	5322 130 42136	BC848C
3502A	4822 053 10272	2k7 5% 1W	3722A	4822 051 10103	10k 2% 0.25W	5619	4822 156 21125	3.9μH	7249	5322 130 42136	BC848C
3503A	4822 052 10128	1Ω 5% 0.33W	3724A	4822 051 10103	10k 2% 0.25W	5619	4822 157 53139	4.7μH	7301	5322 130 42136	BC848C
3503A	4822 052 10158	15Ω 5% 0.33W	3725A	4822 051 10103	10k 2% 0.25W	5625A	4822 146 31062	Power trafo 21°	7302	4822 130 42513	BC858C
3504	4822 100 11684	100Ω 10% 0.1W	3727	4822 116 52217	270Ω 5% 0.5W	5625A	4822 148 81401	Power trafo 25°/28°/29°/21°- 110°	7303	4822 130 40855	BC337
3505	4822 051 10471	470Ω 2% 0.25W	3728	4822 116 52175	100Ω 5% 0.5W	5631	4822 157 70826	2.4μH	7304	5322 130 42718	BFS20
3506	4822 051 10334	330k 2% 0.25W	3729	4822 051 10911	91Ω 2% 0.25W	5631	4822 158 10551	27μH	7305	4822 209 30389	TDA4510/V8
3506	4822 051 10474	470k 2% 0.25W	3730	4822 051 10221	220Ω 2% 0.25W	5632	4822 157 53066	15μH 10%	7306	4822 209 33671	TDA4657/V2
3507	4822 051 10223	22k 2% 0.25W	3732	4822 053 11332	3k3 5% 2W	5632	4822 157 71403	15μH	7307	4822 209 12635	TDA4665/V3
3507	4822 051 10273	27k 2% 0.25W	3733	4822 050 23902	3k9 1% 0.6W	5675	4822 157 70826	2.4μH	7308	4822 209 32593	TDA4671/V1
3507	4822 051 10333	33k 2% 0.25W	3734	4822 116 52283	4k7 5% 0.5W	5701	4822 157 53253	27μH	7309	4822 209 33725	TDA4780/V2
3508	4822 051 10228	2Ω 2% 0.25W	3736	4822 116 52175	100Ω 5% 0.5W	5703	4822 156 20915	33μH	7310	5322 130 42136	BC848C
3509	4822 051 10228	2Ω 2% 0.25W	3737	4822 050 11002	1k 1% 0.4W	9341	4822 157 53575	3μS	7311	5322 130 42136	BC848C
3510	4822 051 10228	2Ω 2% 0.25W	3741	4822 051 10123	12k 2% 0.25W						

# Spare parts list / Stükliste / Liste des pièces

7706▲	5322 130 41982	BC848B
7707▲	5322 130 41982	BC848B
7708	4822 209 33793	Version 1.0 webas
7708	4822 209 33798	Version 1.0 otp w-nick
7708	4822 209 33827	Version 2.2 nordic
7708	4822 209 33918	Version 2.2 nordic europe
7708	4822 209 52643	Version 2.0 east eur
7708	4822 209 90076	Vers. W1169-1.2
7710	4822 209 32283	ST24C08B
7850	5322 130 42136	BC848C
7860	5322 130 42136	BC848C
7861	5322 130 42136	BC848C
7866	5322 130 42136	BC848C

## 1005 CRT module [E]

### Various

1005	4822 212 31888	CRT module (110° 21")
1005	4822 212 31885	CRT module (110°)
1005	4822 212 31628	CRT module (110° BLS)
1005	4822 212 31629	CRT module (90° NN)
1005	4822 212 31889	CRT module (29°)
1005	4822 212 31886	CRT module (16/9)
1005	4822 212 31887	CRT module (16/9 scavem)
▲	4822 267 51033	1P female
▲	4822 267 31858	1P female
▲	4822 290 40291	3P female
▲	4822 290 40284	3P female green
▲	4822 265 30499	3P female black
▲	4822 267 40794	3P female grey
▲	4822 265 31133	3P male white
▲	4822 267 50824	4P female grey
▲	4822 265 30378	4P male grey
▲	4822 290 40287	5P female green
▲	4822 290 40283	5P male grey
▲	4822 267 51275	7P female white
▲	4822 267 50621	7P male white
▲	4822 290 40295	7P male grey
▲	4822 265 40252	7P female grey
▲	4822 492 70871	Spring
▲	4822 256 91879	Holder
▲	4822 255 70261	CRT holder

### -II-

2301	4822 122 31769	18pF 2% 63V
2301	4822 122 31825	27pF 2% 63V
2301	4822 122 32482	22pF 2% 63V
2301	4822 126 10324	33pF 2% 63V
2331	4822 122 31769	18pF 2% 63V
2331	4822 122 31825	27pF 2% 63V
2331	4822 122 32482	22pF 2% 63V
2331	4822 126 10324	33pF 2% 63V
2344▲	4822 124 40246	4.7µF 20% 63V
2361	4822 122 31769	18pF 2% 63V
2361	4822 122 31825	27pF 2% 63V
2361	4822 122 32504	15pF 2% 63V
2391	4822 121 43878	27pF 2%N150 500V
2392	4822 124 80213	4.7µF 20% 100V
2393	4822 122 32542	47nF 10% 63V
2411▲	4822 124 80067	4.7µF 20% 63V
2421	4822 122 32482	22pF 2% 63V
2431	4822 121 41689	100nF 10% 250V
2432	5322 124 41378	33µF 20% 35V
2433▲	4822 126 12274	1500pF
2434	5322 122 32334	220pF 10% 100V
2435▲	4822 126 12274	1500pF
2436	4822 122 32542	47nF 10% 63V
2520	5322 124 41299	68µF 20% 25V
2521	4822 122 32541	27nF 10% 63V
2521	4822 122 32891	68nF 10% 63V
2522	4822 121 42408	220nF 5% 63V
2522	4822 121 51356	180nF 10% 63V
2522	5322 121 42661	330nF 5% 63V
2523	4822 122 31759	18nF
2523	4822 122 31981	33nF +-0.5pF 50V
2526	4822 121 41857	10nF 5% 250V
2526	4822 121 42687	3.3nF 10% 63V
2526	4822 121 43856	4.7nF 5% 250V
2526	4822 121 51093	6.8nF 5% 250V
2531	4822 121 42408	220nF 5% 63V
2531	4822 121 43396	120nF 5% 63V
2531	5322 121 42465	68nF 5% 63V

2532	4822 124 80066	1µF 20% 63V
2532▲	4822 124 80067	4.7µF 20% 63V
2533	4822 124 40242	1µF 20% 63V
2533▲	4822 124 40246	4.7µF 20% 63V
2534	5322 122 31647	1nF 10% 63V
3301	4822 051 10131	130Ω 2% 0.25W
3302	4822 051 10182	1k8 2% 0.25W
3302	4822 051 10302	3k 2% 0.25W
3302	4822 051 10362	3k6 2% 0.25W
3303▲	4822 051 10242	2k4 2% 0.25W
3303	4822 051 10272	2k7 2% 0.25W
3303	4822 051 20222	2k2 5% 0.1W
3304	4822 116 52239	120k 2% 0.5W
3305	4822 051 10104	100k 2% 0.25W
3305	4822 051 10123	12k 2% 0.25W
3305	4822 051 10154	150k 2% 0.25W
3305	4822 051 10184	180k 2% 0.25W
3305	4822 051 10823	82k 2% 0.25W
3306	4822 116 52219	330Ω 5% 0.5W
3309	4822 051 10108	1Ω 5% 0.25W
3309	4822 051 10479	47Ω 2% 0.25W
3310	4822 116 52219	330Ω 5% 0.5W
3311▲	4822 053 12153	15k 5% 3W
3312▲	4822 052 10271	270Ω 5% 0.33W
3313▲	4822 052 10271	270Ω 5% 0.33W
3314	4822 050 21502	1k5 1% 0.6W
3315	4822 051 10184	180k 2% 0.25W
3315	4822 051 10823	82k 2% 0.25W
3316	4822 051 10224	220k 2% 0.25W
3316	4822 051 10823	82k 2% 0.25W
3331	4822 051 10131	130Ω 2% 0.25W
3332	4822 051 10182	1k8 2% 0.25W
3332	4822 051 10302	3k 2% 0.25W
3332	4822 051 10362	3k6 2% 0.25W
3333	4822 116 52256	2k2 5% 0.5W
3333	4822 116 52259	2k4 5% 0.5W
3334	4822 116 52263	2k7 5% 0.5W
3334	4822 116 52239	120k 5% 0.5W
3338	4822 051 10108	1Ω 5% 0.25W
3338	4822 051 10479	47Ω 2% 0.25W
3340	4822 116 52219	330Ω 5% 0.5W
3341▲	4822 053 12153	15k 5% 3W
3342▲	4822 052 10271	270Ω 5% 0.33W
3343▲	4822 052 10271	270Ω 5% 0.33W
3344	4822 050 21502	1k5 1% 0.6W
3345	4822 051 10681	680Ω 2% 0.25W
3361	4822 116 52208	130Ω 5% 0.5W
3362	4822 051 10182	1k8 2% 0.25W
3362	4822 051 10302	3k 2% 0.25W
3362	4822 051 10362	3k6 2% 0.25W
3364▲	4822 051 10472	4k7 2% 0.25W
3364	4822 051 10562	5k6 2% 0.25W
3368	4822 051 10108	1Ω 5% 0.25W
3368	4822 051 10479	47Ω 2% 0.25W
3370	4822 116 52219	330Ω 5% 0.5W
3371▲	4822 053 12153	15k 5% 3W
3372▲	4822 052 10271	270Ω 5% 0.33W
3373▲	4822 052 10271	270Ω 5% 0.33W
3374	4822 050 21502	1k5 1% 0.6W
3375	4822 051 10184	180k 2% 0.25W
3375	4822 051 10823	82k 2% 0.25W
3376	4822 051 10224	220k 2% 0.25W
3376	4822 051 10823	82k 2% 0.25W
3382	4822 051 10102	1k 2% 0.25W
3383	4822 116 52284	47k 5% 0.5W
3384	4822 116 52277	39k 5% 0.5W
3385	4822 051 10104	100k 2% 0.25W
3385	4822 051 10473	47k 2% 0.25W
3391	4822 116 52234	100k 5% 0.5W
3391	4822 116 52284	47k 5% 0.5W
3392	4822 051 10123	12k 2% 0.25W
3392	4822 051 10562	5k6 2% 0.25W
3394	4822 051 10562	5k6 2% 0.25W
3395	4822 051 10122	1k2 2% 0.25W
3395	4822 051 10223	22k 2% 0.25W
3396	4822 051 10104	100k 2% 0.25W
3398	4822 051 10008	0Ω 5% 0.25W
3410	4822 051 10182	1k8 2% 0.25W
3411	4822 116 52222	390Ω 5% 0.5W
3413	4822 116 52222	390Ω 5% 0.5W
3414	4822 051 10439	43Ω 2% 0.25W
3414	4822 116 52193	39Ω 5% 0.5W
3415	4822 116 52222	390Ω 5% 0.5W
3421	4822 051 10154	150k 2% 0.25W
3424	4822 051 20222	2k2 5% 0.1W
3431▲	4822 052 10181	180Ω 5% 0.33W
3431▲	4822 052 10271	270Ω 5% 0.33W
3432▲	4822 052 10129	12Ω 5% 0.33W
3432▲	4822 052 10229	22Ω 5% 0.33W
3433▲	4822 052 10108	1Ω 5% 0.33W
3433▲	4822 052 10128	1Ω 5% 0.33W

3433▲	4822 052 10188	1Ω 5% 0.33W
3434	4822 050 21502	1k5 1% 0.6W
3435	4822 050 21502	1k5 1% 0.6W
3436	4822 053 20825	8M2 5% 0.25W
3442	4822 116 52239	120k 5% 0.5W
3443▲	4822 051 10242	2k4 2% 0.25W
3443	4822 051 10272	2k7 2% 0.25W
3443	4822 051 20222	2k2 5% 0.1W
3446	4822 051 10683	68k 2% 0.25W
3447	4822 051 10102	1k 2% 0.25W
3447	4822 051 10471	470Ω 2% 0.25W
3448	4822 051 10008	0Ω 5% 0.25W
3448	4822 051 10152	1k5 2% 0.25W
3450	4822 051 10154	150k 2% 0.25W
3451	4822 051 10122	1k2 2% 0.25W
3452▲	4822 051 10103	10k 2% 0.25W
3455	4822 050 11002	1k 1% 0.4W
3455	4822 051 10102	1k 2% 0.25W
3456	4822 050 11002	1k 1% 0.4W
3457	4822 051 10244	240k 2% 0.25W
3457	4822 051 10334	330k 2% 0.25W
3512	4822 051 10101	100Ω 2% 0.25W
3512▲	4822 051 10103	10k 2% 0.25W
3512	4822 051 10228	22Ω 5% 0.25W
3512	4822 051 10339	33Ω 2% 0.25W
3512	4822 051 10479	47Ω 2% 0.25W
3518▲	4822 051 10103	10k 2% 0.25W
3518	4822 051 10151	150Ω 2% 0.25W
3518	4822 051 10471	470Ω 2% 0.25W
3518	4822 051 10821	820Ω 2% 0.25W
3520	4822 116 52211	150Ω 5% 0.5W
3521	4822 051 10122	1k2 2% 0.25W
3521	4822 100 20171	2k2 10%LIN 0.05W
3521	4822 101 20902	4k7 10%LIN 0.05W
3522	4822 051 10152	1k5 2% 0.25W
3522	4822 051 10272	2k7 2% 0.25W
3522	4822 051 10392	3k9 2% 0.25W
3523	4822 051 10393	39k 2% 0.25W
3524	4822 051 10683	68k 2% 0.25W
3524	4822 051 56203	62k 1% 0.125W
3525	4822 100 20169	10k 10%LIN 0.05W
3525	4822 100 20644	22k 10% LIN 0.05W
3526	4822 050 21205	1M2 1% 0.6W
3526	4822 050 26803	68k 1% 0.6W
3526	4822 050 26804	680k 1% 0.6W
3526	4822 053 20125	1M2 5% 0.25W
3526	4822 053 20155	1M5 5% 0.25W
3527	4822 051 10104	100k 2% 0.25W
3527	4822 051 10154	150k 2% 0.25W
3527	4822 051 10334	330k 2% 0.25W
3527	4822 051 10683	68k 2% 0.25W
3528	4822 051 20222	2k2 5% 0.1W
3529	4822 051 10008	0Ω 5% 0.25W
3529	4822 051 10471	470Ω 2% 0.25W
3530	4822 051 10008	0Ω 5% 0.25W
3530	4822 051 10102	1k 2% 0.25W
3531	4822 051 10008	0Ω 5% 0.25W
3531	4822 051 10104	100k 2% 0.25W
3532▲	4822 051 10103	10k 2% 0.25W
3533	4822 116 52233	10k 5% 0.5W
3533	4822 116 52269	3k3 5% 0.5W
3533	4822 116 52303	8k2 5% 0.5W
3533	4822 116 83864	10k 5% 0.5W
3534	4822 051 10124	120k 2% 0.25W
3534▲	4822 052 10828	8Ω 5% 0.33W
3535	4822 051 10008	0Ω 5% 0.25W
3535	4822 051 10474	470k 2% 0.25W
3571	4822 051 10273	27k 2% 0.25W
3572	4822 051 10153	15k 2% 0.25W
3575	4822 051 10182	1k8 2% 0.25W
3578	4822 116 52245	150k 5% 0.5W
3580▲	4822 051 10103	10k 2% 0.25W
4xxx	4822 051 10008	0Ω 5% 0.25W
5401	4822 156 20966	47 µH
5401	4822 157 50964	100µH
5401	4822 157 50965	15µH
5401	4822 157 52392	27µH
5401	4822 157 71404	100µH
5530	4822 152 20559	choke 390µH
6301	4822 130 30842	BAV21
6		