Recommended Safety Parts

| ### AB22 256 92053 ### Suse holder ### AB22 276 10239 ### Sure processing 2 pins male for degeussing 4822 265 00596 2 pins male for mains 4822 267 60243 ### Sure processing 2 pins male for mains 4822 270 10448 ### UV913/IEC ## | Item | Part No. | Description |
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| 1001 | | 4822 265 40596 | |
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| 1001 | | | |
| 1500 | | | |
| 250 mA fuse 2015 4822 124 41525 2014 5322 126 10223 2034 5322 126 10223 2034 5322 126 10223 2035 5322 126 10223 2046 5322 126 10223 2076 1096 30V 2101 5322 126 10223 2076 1096 30V 2117 5322 126 10223 2076 1096 30V 2117 5322 126 10223 2076 1096 30V 2115 4822 122 33177 215 4822 124 41525 215 5322 122 10223 2076 1097 2097 2097 2097 2097 2097 2097 2097 2 | | | |
| 2015 4822 124 41525 100uF 20% 25V 2041 5322 126 10223 4.7nF 10% 63V 2044 5322 126 10223 4.7nF 10% 63V 2080 5322 126 20623 4.7nF 10% 63V 2101 5322 126 10223 4.7nF 10% 63V 2101 5322 126 10223 4.7nF 10% 63V 2117 5322 126 10223 4.7nF 10% 63V 2117 5322 126 10223 4.7nF 10% 63V 2115 4822 122 33177 10nF 20% 25V 2157 4822 124 41525 100uF 20% 25V 2158 5322 126 10223 4.7nF 10% 63V 2170 4822 122 3177 10nF 20% 50V 2171 5322 126 10223 4.7nF 10% 63V 2170 4822 122 33177 10nF 20% 50V 2171 5322 126 10223 4.7nF 10% 63V 2263 5322 122 23654 22nF 10% 63V 2264 4822 122 33177 10nF 20% 50V 2273 5322 122 32654 22nF 10% 63V 2272 5322 122 34123 1nF 10% 50V 2273 5322 122 32654 22nF 10% 63V 2274 5322 122 33177 10nF 20% 50V 2293 4822 122 33177 10nF 20% 50V 2366 5322 126 10223 4.7nF 10% 63V 2366 5322 126 10223 4.7nF 10% 63V 2364 4822 126 13503 820pF 10% 2KV 2446 4822 121 70457 8.2nF 5% 1.6KV 2446 4822 121 70523 1.2nF 10% 63V 2445 4822 126 11503 820pF 10% 2KV 2446 4822 121 70523 1.2nF 10% 63V 2450 4822 121 10457 8.2nF 5% 1.6KV 2446 4822 121 70523 1.2nF 10% 63V 2500 4822 121 70285 470nF 10% 250V 2500 4822 121 70285 470nF 10% 250V 2504 4822 126 11141 2.2nF 10% 1KV 2504 4822 126 11381 2.1nF 10% 50V 2509 4822 126 11141 2.2nF 10% 1KV 2504 4822 126 11382 1nF 10% 50V 2504 4822 126 11382 1nF 10% 50V 2505 4822 126 11382 1nF 10% 50V 2506 4822 126 11382 1nF 10% 50V 2507 4822 126 11382 1nF 10% 50V 2508 4822 126 11382 1nF 10% 50V 2509 4822 126 11380 2nF 10% 1KV 2509 4822 126 11380 2nF 10% 100 Nms 5% 0.33W 3014 4822 05 | | | |
| 2043 5322 126 10223 4.7nF 10% 63V 2044 5322 126 10223 4.7nF 10% 63V 2101 5322 126 10223 4.7nF 10% 63V 2117 5322 126 10223 4.7nF 10% 63V 2125 5322 122 32654 22nF 10% 63V 2157 4822 122 33177 10nF 20% 50V 2158 5322 126 10223 4.7nF 10% 63V 2157 4822 122 34125 100uF 20% 25V 2157 5322 126 10223 4.7nF 10% 63V 2158 5322 126 10223 4.7nF 10% 63V 2170 4822 122 34177 10nF 20% 50V 2171 5322 126 10223 4.7nF 10% 63V 2170 4822 122 33177 10nF 20% 50V 2171 5322 126 10223 4.7nF 10% 63V 2263 5322 122 32654 2264 4822 122 33177 10nF 20% 50V 2273 5322 122 32654 2276 10823 4.7nF 10% 63V 2272 5322 122 32654 2271 5322 122 32654 2272 100 63V 2273 5322 122 32654 2271 5322 122 33177 10nF 20% 50V 2273 5322 122 32654 2272 122 34123 1nF 10% 50V 2273 5322 122 34123 1nF 10% 50V 2292 4822 122 33177 10nF 20% 50V 2293 4822 122 33177 10nF 20% 50V 2293 4822 122 33177 10nF 20% 50V 2293 4822 122 33177 10nF 20% 50V 2366 5322 126 10223 4.7nF 10% 63V 2366 5322 126 10223 4.7nF 10% 63V 2371 5322 122 32654 22nF 10% 63V 2445 4822 126 11023 4.7nF 10% 63V 2446 4822 121 70523 1 22nF 10% 63V 2446 4822 121 70523 1 22nF 10% 63V 2446 4822 121 70523 1 22nF 10% 63V 2448 4822 126 11503 820pF 10% 2kV 2446 4822 121 70523 1 22nF 10% 63V 2446 4822 121 70523 1 22nF 10% 63V 2450 4822 126 11141 2.nF 10% 63V 2500 4822 126 1141 2.nF 10% 63V 2504 4822 126 1141 2.nF 10% 63V 2505 4822 126 1141 2.nF 10% 63V 2506 4822 126 11382 1.nF 10% 63V 2508 4822 126 1141 2.nF 10% 63V 2509 4822 126 1141 2.nF 10% 63V 2500 4822 126 11504 2.nF 10% 63V 2500 4822 126 11003 2.0F 10% 63V 2500 4822 126 11009 2.0F 10% 63V 2500 4822 126 11009 2.0F 10% 63V 2.0F 10% 63V 2.0F 10% 63V | | | |
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| 2117 5322 126 10223 4.7nF 10% 63V 2125 5322 122 32654 22nF 10% 63V 2157 4822 122 34123 1nF 10% 50V 2158 5322 122 34123 1nF 10% 50V 2171 5322 126 10223 4.7nF 10% 63V 22171 5322 126 10223 4.7nF 10% 63V 2261 4822 122 33177 10nF 20% 50V 2263 5322 122 32654 22nF 10% 63V 2274 5322 122 32654 22nF 10% 63V 2275 5322 122 32654 22nF 10% 63V 2271 5322 122 32654 22nF 10% 63V 2272 5322 122 34123 1nF 10% 50V 2271 5322 122 32654 22nF 10% 63V 2272 5322 122 34123 1nF 10% 50V 2291 4822 122 33177 10nF 20% 50V 2293 4822 122 33177 10nF 20% 50V 2393 4822 122 33177 10nF 20% 50V 2350 5322 126 10223 4.7nF 10% 63V 2354 4822 122 33177 10nF 20% 50V 2356 5322 126 10223 4.7nF 10% 63V 2371 5322 122 32654 22nF 10% 63V 2371 5322 122 3654 22nF 10% 63V 2371 5322 122 3674 20 10nF 20% 50V 2454 4822 126 13435 1.2nF 10% 26V 2445 4822 126 13435 1.2nF 10% 26V 2446 4822 121 70457 8.2nF 50% 1.6kV 2446 4822 121 70285 470nF 10% 250V 2500 4822 124 14206 68hF 20% 385V 2500 4822 124 14141 2.2nF 10% 1kV 2504 4822 126 11341 2.2nF 10% 1kV 2504 4822 126 11342 1.2nF 10% 1kV 2504 4822 126 11362 1.2nF 10% 1kV 2504 4822 126 11363 3.3nF 20% 400V 2534 4822 126 11382 1nF 10% 50V 2530 4822 124 42104 68hF 20% 385V 2500 4822 126 11141 2.2nF 10% 1kV 2504 4822 126 11382 1nF 10% 1kV 2505 4822 124 42104 68hF 20% 385V 2506 4822 124 42104 68hF 20% 385V 2507 4822 126 11382 1nF 10% 1kV 2508 4822 124 41525 100 F 00 K 1kV 2526 4822 124 4104 38 7 F 00 K 1kV 2526 4822 124 4104 39 T 00 K 1kV 2526 4822 124 4104 30 T 00 K 1kV 2526 4822 124 4104 30 T 00 K 1kV 2526 4822 124 116 130 3 3.3nF 20% 400V 2530 4822 124 110 50 K 1kV 2526 4822 126 11382 1nF 10% 1kV 2526 4822 126 11382 1nF 10% 1kV 2526 4822 126 11382 1nF 10% 1kV 2526 4822 126 11363 2 1nF 10% 1kV 2526 4822 126 10023 3 3 3 0 5 3 0 3 0 3 0 3 0 3 0 3 0 3 0 | 2080 | | 22nF 10% 63V |
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| 2157 4822 124 41525 100uF 20% 25V 1157 5322 122 34123 1nF 10% 50V 2171 5322 126 10223 4.7nF 10% 63V 2171 5322 126 10223 4.7nF 10% 63V 2261 4822 122 33177 10nF 20% 50V 2263 5322 122 32654 22nF 10% 63V 2277 5322 122 32654 22nF 10% 63V 2277 5322 122 34123 1nF 10% 50V 2273 5322 122 34123 1nF 10% 50V 2291 4822 122 33177 10nF 20% 50V 2293 4822 122 33177 10nF 20% 50V 2293 4822 122 33177 10nF 20% 50V 2366 5322 126 10223 4.7nF 10% 63V 2371 5322 122 32654 22nF 10% 63V 2371 5322 123 32654 22nF 10% 63V 2371 5322 123 32654 22nF 10% 63V 2371 5322 126 32654 22nF 10% 63V 2371 5322 127 32654 22nF 10% 63V 2371 5322 122 32654 22nF 10% 63V 2445 4822 126 11503 820pF 10% 2KV 2446 4822 121 70457 8.2nF 5% 1.6KV 2446 4822 121 70457 8.2nF 5% 1.6KV 2446 4822 121 70457 8.2nF 5% 1.6KV 2446 4822 121 42365 30nF 5% 250V 2450 4822 126 11141 2.nF 10% 1KV 2504 4822 126 11141 2.nF 10% 1KV 2504 4822 126 11141 2.nF 10% 1KV 2504 4822 126 11414 2.nF 10% 1KV 2506 4822 126 1141 2.nF 10% 1KV 2506 4822 126 11382 1nF 10% 50V 47K 20V 3286 5322 126 10223 4.7nF 10% 63V 3001 4822 052 1033 3.nF 5% 0.33W 301 4822 052 1033 3.nF 5% 0.33W 301 4822 052 1030 10 0.nm 5% 0.33W | | 5322 122 32654 | 22nF 10% 63V |
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| 3007 4822 116 83953 75 ohms 5% 0.125W Jumper 3032 4822 051 20101 120 ohms 5% 0.1W 3124 4822 051 10109 10 ohms 5% 0.33W 3141 4822 051 10472 4k7 2% 0.25W 3292 4822 116 83953 75 ohms 35% 0.125W 3292 4822 051 10103 10k 2% 0.25W 3306 4822 051 10103 10k 2% 0.25W 3345 4822 051 1020 22 ohms 5% 0.5W 3401 4822 052 11229 22 ohms 5% 0.5W 3408 4822 051 1022 2k2 5% 0.33W 3408 4822 052 11474 47 ohms 5% 0.5W 3408 4822 052 10222 2k2 5% 0.33W 3411 4822 052 10222 2 ohms 5% 0.33W 3411 4822 052 10238 2 ohms 5% 0.33W 3411 4822 052 10278 2 ohms 5% 0.33W 3411 4822 052 10248 2 ohms 5% 0.33W 3411 4822 052 10248 2 ohms 5% 0.33W 3411 4822 052 1028 2 ohms 5% 0.33W 3411 4822 052 1028 2 ohms 5% 0.33W 3412 4822 052 1028 2 ohms 5 5% 0.33W 3412 4822 052 1028 2 ohms 5 5% 0.33W 3412 4822 052 1028 3 ohms 3 5% 0.33W 3415 4822 052 10280 1 k8 1% 0.6W 3416 4822 050 21802 1 k8 1% 0.6W 3419 4822 051 20008 | | | |
| 3019 4822 051 20008 Jumper 3032 4822 051 20121 120 ohms 5% 0.1W 3124 4822 052 10109 10 ohms 5% 0.33W 3141 4822 051 10472 4k7 2% 0.25W 3257 4822 116 83953 75 ohms 35% 0.125W 3292 4822 051 10103 10k 2% 0.25W 3306 4822 051 20008 Jumper 3345 4822 052 11229 22 ohms 5% 0.5W 3401 4822 052 11471 47 ohms 5% 0.5W 3401 4822 052 1109 10 ohms 5% 0.5W 3408 4822 052 10222 2k2 5% 0.33W 3401 4822 052 10222 2k2 5% 0.33W 3411 4822 052 10228 2 ohms 2 5% 0.33W 3411 4822 052 10238 3 ohms 3 5% 0.33W 3411 4822 052 10338 3 ohms 3 5% 0.33W 3411 4822 052 10278 2 ohms 7 5% 0.33W 3411 4822 052 1028 2 ohms 2 5% 0.33W 3412 4822 052 10278 2 ohms 7 5% 0.33W 3413 4822 052 1028 2 ohms 2 5% 0.33W 3414 4822 052 1038 3 ohms 3 5% 0.33W 3415 4822 052 1028 2 ohms 2 5% 0.33W 3416 4822 052 1028 1088 2 ohms 2 5% 0.33W 3417 4822 052 1028 2 ohms 3 5% 0.33W 3418 4822 052 1028 2 ohms 3 5% 0.33W 3419 4822 050 21802 1 k8 1% 0.6W 3419 4822 051 20008 Jumper | | | |
| 3124 4822 052 10109 10 ohms 5% 0.33W 3141 4822 051 10472 4k7 2% 0.25W 3257 4822 116 83953 75 ohms 35% 0.125W 3292 4822 051 10103 10k 2% 0.25W 3306 4822 051 20008 Jumper 3345 4822 052 11229 22 ohms 5% 0.5W 3401 4822 052 11471 47 ohms 5% 0.5W 3408 4822 052 11109 10 ohms 5% 0.5W 3408 4822 052 10222 2k2 5% 0.33W 3411 4822 052 10222 2k2 5% 0.33W 3411 4822 052 1028 2 ohms 5 % 0.33W 3411 4822 052 10278 2 ohms 7 5% 0.33W 3411 4822 052 10278 2 ohms 7 5% 0.33W 3411 4822 052 10278 2 ohms 7 5% 0.33W 3411 4822 052 1028 2 ohms 7 5% 0.33W 3411 4822 052 1028 2 ohms 7 5% 0.33W 3412 4822 052 1028 2 ohms 7 5% 0.33W 3412 4822 052 1028 2 ohms 3 5% 0.33W 3415 4822 052 1028 2 ohms 3 5% 0.33W 3416 4822 052 1028 1 ohms 7 5% 0.33W 3416 4822 052 1028 1 ohms 7 5% 0.33W 3416 4822 052 1028 1 ohms 7 5% 0.33W 3416 4822 050 21802 1 ohms 7 5% 0.33W 3416 4822 050 21802 1 ohms 7 5% 0.33W 3419 4822 051 20008 Jumper | 3019 | 4822 051 20008 | Jumper |
| 3141 4822 051 10472 4k7 2% 0.25W 3257 4822 116 83953 75 ohms 35% 0.125W 3292 4822 051 10103 10k 2% 0.25W 3395 4822 051 10103 10k 2% 0.25W 3306 4822 051 1220 22 ohms 5% 0.5W 3345 4822 052 11471 47 ohms 5% 0.5W 3401 4822 052 10222 2k2 5% 0.33W 3408 4822 051 1022 2k2 5% 0.33W 3411 4822 052 10228 2 ohms 5% 0.33W 3411 4822 052 1028 2 ohms 7 5% 0.33W 3411 4822 052 1028 2 ohms 7 5% 0.33W 3411 4822 052 1028 2 ohms 7 5% 0.33W 3412 4822 052 1028 2 ohms 2 5% 0.33W 3415 4822 052 1028 3 ohms 3 5% 0.33W 3416 4822 052 1028 1 ohms 2 5% 0.33W 3417 4822 052 1028 2 ohms 7 5% 0.33W 3418 4822 052 1028 2 ohms 2 5% 0.33W 3419 4822 050 21802 1k8 1% 0.6W 3419 4822 051 20008 Jumper | | | |
| 3292 4822 051 10103 10k 2% 0.25W 3295 4822 051 10103 10k 2% 0.25W 3306 4822 051 20008 Jumper 3345 4822 052 11229 22 ohms 5% 0.5W 3345 4822 052 11471 47 ohms 5% 0.5W 3401 4822 052 1109 10 ohms 5% 0.5W 3408 4822 052 10222 2k2 5% 0.33W 3408 4822 053 10681 68 ohms 5% 1 W 3411 4822 052 10228 2 ohms 2 5% 0.33W 3411 4822 052 10278 2 ohms 2 5% 0.33W 3411 4822 052 10338 3 ohms 3 5% 0.33W 3411 4822 052 10478 4 ohms 7 5% 0.33W 3412 4822 052 10478 2 ohms 2 5% 0.33W 3412 4822 052 10478 3 ohms 3 5% 0.33W 3415 4822 052 10338 3 ohms 3 5% 0.33W 3416 4822 052 1028 10478 4 ohms 7 5% 0.33W 3417 4822 052 1028 10478 4 ohms 7 5% 0.33W 3418 4822 052 10288 10478 5% 0.33W 3419 4822 050 21802 1048 1% 0.6W 3419 4822 051 20008 Jumper | | | |
| 3295 4822 051 10103 10k 2% 0.25W 3306 4822 051 20008 Jumper 3345 4822 052 11229 22 ohms 5% 0.5W 3345 4822 052 11471 47 ohms 5% 0.5W 3401 4822 052 1109 10 ohms 5% 0.5W 3408 4822 052 10222 2k2 5% 0.33W 3411 4822 052 10228 2 ohms 2 5% 0.33W 3411 4822 052 10278 2 ohms 2 5% 0.33W 3411 4822 052 10278 3 ohms 3 5% 0.33W 3411 4822 052 10278 4 ohms 7 5% 0.33W 3411 4822 052 10278 2 ohms 7 5% 0.33W 3412 4822 052 1028 2 ohms 2 5% 0.33W 3415 4822 052 1028 3 ohms 3 5% 0.33W 3416 4822 052 1028 3 ohms 3 5% 0.33W 3416 4822 052 1028 10388 3 ohms 3 5% 0.33W 3415 4822 052 1028 2 ohms 2 5% 0.33W 3416 4822 050 21802 10388 3 ohms 3 5% 0.33W 3416 4822 050 21802 10388 3 ohms 3 5% 0.33W 3419 4822 051 20008 Jumper | | | |
| 3345 4822 052 11229 22 ohms 5% 0.5W 3345 4822 052 11471 47 ohms 5% 0.5W 3401 4822 052 11109 10 ohms 5% 0.5W 3408 4822 052 10222 2k2 5% 0.33W 3408 4822 052 10222 2k2 5% 0.33W 3411 4822 052 10228 2 ohms 2 5% 0.33W 3411 4822 052 10278 2 ohms 7 5% 0.33W 3411 4822 052 10338 3 ohms 3 5% 0.33W 3411 4822 052 10478 4 ohms 7 5% 0.33W 3411 4822 052 10478 2 ohms 2 5% 0.33W 3412 4822 052 10288 2 ohms 2 5% 0.33W 3412 4822 052 10338 3 ohms 3 5% 0.33W 3415 4822 052 1038 3 ohms 3 5% 0.33W 3416 4822 050 21802 1k8 1% 0.6W 3419 4822 051 20008 Jumper | | | |
| 3345 4822 052 11471 47 ohms 5% 0.5W 3401 4822 052 11109 10 ohms 5% 0.5W 3408 4822 052 10222 2k2 5% 0.33W 3408 4822 053 10681 68 ohms 5% 1W 3411 4822 052 10228 2 ohms 2 5% 0.33W 3411 4822 052 10278 2 ohms 2 5% 0.33W 3411 4822 052 10338 3 ohms 3 5% 0.33W 3411 4822 052 10478 4 ohms 7 5% 0.33W 3412 4822 052 10228 2 ohms 2 5% 0.33W 3412 4822 052 10338 3 ohms 3 5% 0.33W 3415 4822 052 10338 3 ohms 3 5% 0.33W 3416 4822 050 21802 1k8 1% 0.6W 3419 4822 051 20008 Jumper | | | • |
| 3401 4822 052 11109 10 ohms 5% 0.5W 3408 4822 052 10222 2k2 5% 0.33W 3408 4822 053 10681 68 ohms 5% 1 W 3411 4822 052 10228 2 ohms 2 5% 0.33W 3411 4822 052 10278 2 ohms 7 5% 0.33W 3411 4822 052 10338 3 ohms 3 5% 0.33W 3411 4822 052 10478 4 ohms 7 5% 0.33W 3412 4822 052 10228 2 ohms 2 5% 0.33W 3412 4822 052 10228 3 ohms 3 5% 0.33W 3415 4822 052 1028 10478 4 ohms 7 5% 0.33W 3416 4822 050 21802 1 048 1 0.6W 3419 4822 050 21802 1 0.6W 3419 4822 051 20008 Jumper | | | |
| 3408 | | | |
| 3411 4822 052 10228 2 ohms 2 5% 0.33W 3411 4822 052 10278 2 ohms 7 5% 0.33W 3411 4822 052 10338 3 ohms 3 5% 0.33W 3411 4822 052 10478 4 ohms 7 5% 0.33W 3412 4822 052 10228 2 ohms 2 5% 0.33W 3412 4822 052 10338 3 ohms 3 5% 0.33W 3415 4822 050 21802 1k8 1% 0.6W 3416 4822 050 21802 1k8 1% 0.6W 3419 4822 051 20008 Jumper | | | |
| 3411 4822 052 10278 2 ohms 7 5% 0.33W 3411 4822 052 10338 3 ohms 3 5% 0.33W 3411 4822 052 10478 4 ohms 7 5% 0.33W 3412 4822 052 10228 2 ohms 2 5% 0.33W 3412 4822 052 10338 3 ohms 3 5% 0.33W 3415 4822 050 21802 1k8 1% 0.6W 3416 4822 050 21802 1k8 1% 0.6W 3419 4822 051 20008 Jumper | | | |
| 3411 4822 052 10478 4 ohms 7 5% 0.33W 3412 4822 052 10228 2 ohms 2 5% 0.33W 3412 4822 052 10338 3 ohms 3 5% 0.33W 3415 4822 050 21802 1k8 1% 0.6W 3416 4822 050 21802 1k8 1% 0.6W 3419 4822 051 20008 Jumper | | | 2 ohms 7 5% 0.33W |
| 3412 4822 052 10228 2 ohms 2 5% 0.33W 3412 4822 052 10338 3 ohms 3 5% 0.33W 3415 4822 050 21802 1k8 1% 0.6W 3416 4822 050 21802 1k8 1% 0.6W 3419 4822 051 20008 Jumper | | | |
| 3415 4822 050 21802 1k8 1% 0.6W 3416 4822 050 21802 1k8 1% 0.6W 3419 4822 051 20008 Jumper | 3412 | 4822 052 10228 | 2 ohms 2 5% 0.33W |
| 3416 4822 050 21802 1k8 1% 0.6W 3419 4822 051 20008 Jumper | | | |
| · | 3416 | | |
| Telete | 3419 | 4822 051 20008 | Jumper |
| Telete | | | |
| | | | Telete |

Recommended Safety Parts

| Reco | ommende | ed Safety Parts |
|--------------|--|--|
| ltem | Part No. | Description |
| 3448 | 4822 052 10108 | 10hm 5% 0.33W |
| 3448 3448 | 4822 052 10109 4822 052 11568 | 10 ohms 5% 0.33W 5 ohms 6 5% 0.5W 1ohm 5% 0.33W |
| 3449 | 4822 052 10108 | 1ohm 5% 0.33W |
| 3452 | 4822 052 10108 | 1ohm 5% 0.33W |
| 3452 3452 | 4822 052 10478 4822 052 11109 | 10hm 5% 0.33W 4 ohms 7 5% 0.33W 10 ohms 5% 0.5W |
| 3454 | 4822 052 11102 | 1k 5% 0.5W |
| 3470 | 4822 052 10478 | 4 ohms 7 5% 0.33W |
| 3470 3501 | 4822 052 10828 4822 116 40137 | 1k 5% 0.5W 4 ohms 7 5% 0.33W 8 ohms 2 5% 0.33W PTC/PTC/36 ohms / 265V |
| 3503 | 4822 053 21475 4822 053 21475 | 4M7 5% 0.5W |
| 3504 | 4822 053 21475 | 4M7 5% 0.5W 4 ohms 7 1% 0.6W |
| | 4822 050 24708 4822 050 24703 | |
| 3544 | 4822 052 10108 | 47k 1% 0.6W 1 ohm 5% 0.33W 1k8 1% 0.6W |
| 3547 3554 | 4822 050 21802 | 1k8 1% 0.6W |
| 3557 | 4822 053 11003 | 68 ohm 5% 2W 270 ohms 5% 2W 4k7 5% 0.1W |
| 3617 | 4822 051 20472 | 4k7 5% 0.1W |
| 3623 | 4822 051 10103 | 10k 2% 0.25W 10uH10% Line output transformer |
| 5445 | 4822 140 10406 | Line output transformer |
| | | AT2079/40 |
| 5453 5454 | 4822 157 51462 | 10uH 10% Linearity coil AT4042/92 |
| 5470 | 4822 157 51462 | 10uH 10% |
| 5500 | 4822 157 51462 4822 212 22978 4822 157 50963 | Mains filter |
| 5515 5560 | 4822 157 50963 | 2.2kH 20% |
| 5601 | 4822 157 51462 | 10uH 10% |
| 6053 | 4822 157 51462 4822 157 51462 4822 130 30621 | 1N4148 |
| I 6112 | 4822 12D 2D621 | 1 N I I I I I I I I I I I I I I I I I I |
| 6502 | 4822 130 30621 4822 130 31933 | 1N5061 |
| | | |
| 6504 6505 | 4822 130 31933 4822 130 31933 | 1N5061 1N5061 |
| 6522 | 4822 130 31933 4822 130 31933 4822 130 30621 | 1N4148 |
| I 6561 | 4822 130 81175 | BYD74G |
| 6658 6663 | 4822 130 30621 4822 209 30563 | 1N4148 TLXR5400 LED |
| 6849 | 4822 130 30621 | 1N4148 |
| 7030 | 4822 130 30621 5322 130 41982 5322 130 41982 | BC848B |
| 7126 7127 | 5322 130 41982 5322 130 41982 | |
| 7141 | 5322 130 41982 5322 130 41982 | BC848B |
| 7142 | 5322 130 41982 | BC848B |
| 7143 | 5322 130 41982 5322 130 41982 5322 130 41982 | BC848B |
| 7242 | 5322 130 41982 | BC848B |
| 7243 | 5322 130 41982 | BC848B CQY80NG |
| 7514 7550 | 4822 130 91451 4822 130 41344 | |
| 7561 | 4822 130 44197 | BC558B |
| 7571 7640 | 5322 130 41982 5322 130 41982 | |
| 7654 | 5322 130 41982 | |
| 7665 | 5322 130 41982 | |
| 7670 7672 | 5322 130 41982 5322 130 41982 | |
| 7674 | 5322 130 41982 | |
| 7686 | 5322 130 41982 | |
| 7710 7711 | 5322 130 41982 5322 130 41982 | BC848B BC848B |
| 7713 | 5322 130 41982 | BC848B |
| 7715 7732 | 5322 130 41982 5322 130 41982 | |
| 7750 | 4822 130 41344 | BC848B BC337 |
| 7751 | 4822 130 41344 | BC337 |
| 7754 | 5322 130 41982 | BC848B |
| 7755 7856 | 5322 130 41982 5322 130 41982 | BC848B BC848B |
| 7858 | 5322 130 41982 | BC848B |
| 7875 7876 | 5322 130 41982 5322 130 41982 | |
| 7876 | 4822 255 70306 | |
| 2282 | 5322 122 32654 | 22nF 10% 63V |
| 3200 3235 | 4822 052 10101 4822 052 10108 | 100 ohm 5% 0.33W 1ohm 5% 0.33W |
| 7206 | 5322 130 41982 | BC848B |
| 7219 | 5322 130 41982 | BC848B |
| 7228 | 5322 130 41982 4822 255 70305 | |
| 1236 | 4822 255 70305 | 500mA fuse |
| 1236 | 4822 071 51002 | 1 A fuse |
| 3241 7235 | 4822 052 10101 5322 130 41982 | 100 ohm 5% 0.33W BC848B |
| | 4822 130 44197 | BC558B |
| 7245 | 5322 130 41982 | BC848B |
| 7255 | 5322 130 41982 | BC848B |

Teletext Adjustments

Description diagram E Teletext

There are 2 different executions for teletext processing; a 1 page TXT execution by teletext decoder IC7700 only or a 4 page TXT execution by teletext decoder 107700 and extra microprocessor IC7702:

* 1 page TXT by teletext decoder IC7700; For the 1 page teletext execution a 40 pins SAA5254 VT 1.1 (VIP + ECCT + 1 k RAM memory) teletext decoder is used with built-in 1k RAM memory. This teletext decoder makes use of the central microprocessor 107600 and is controlled via the 120 bus (at pins 24-25 107700).

* 4 page TXT by teletext decoder IC7700 and extra microprocessor IC7702;

For the 4 page teletext execution a 48 pins SAA5281 VT 1.8 (VIP + ECOT +4k RAM memory) teletext decoder with 4k built-in RAM and an extra μ C IC7702 is used. This μ C is a slave of the master μ C IC7600 and controls the extra featuring of WST, TOP and FLOE. In both cases:

*CVBS-TXT signal is coming from the CVBS-INT or CVBS-EXT (see IC7140 source select), so teletext from both the antenna-signal and from pin 20 of the scart can be displayed.

* <u>Peaking filter</u> C2736, L5734, R3734 and R3755 is only present in scandinavian sets and is used for peaking filter.

* RGB teletext info (R-TXT, B-TXT and G-TXT) is directly fed to the video controller IC7015-60 on diagram D)

* The fast blanking signal from teletext (FBL TXT) is added to all other fast blanking signals (see diagram A). The total FAST BLANKING signal is used for blanking and source select control of IC7015-6D.

* NIL (Non Inter Lace) signal is fed to the frame amplifier to switch the frame to 25Hz non interlaced mode which is needed for teletext displaying.

* **CONTRAST** signal is used to set a minimal level of contrast in TXT mode.

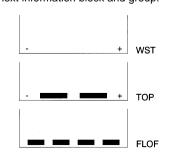
* Supply voltages +50 and +50 supply the teletext processing. These supply voltages are derived from the +8T coming from the LOT. In both cases 1 page and 4 page execution, the teletext concept is of the so called VT type; this means that the VIP and CCT are combined in one VT teletext decoder.

General specification for both IVT decoders:

- 1. Suitable for processing the following teletext
- the "World System Teletext" (WST)
- the 'UK' page choice system; FLOF (Full Level

The teletext page is extended with a status line which gives information about pages coupled by the transmitter to the coloured RO-buttons (FastText)

 the "german" choice system; TOP (Table Of Pages) the teletext page is extended with a status line which gives information about the next information block and group.



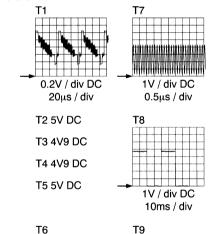
2. For 4 page teletext execution the possibility to

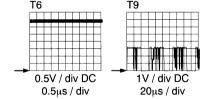
- 1 display memory; for the page displayed on the TV screen
- 3 background memories; for reducing the waiting time
- the content of the 3 background memories depends on the teletext system. Depending on the transmission the teletext decoder selects one of the following possibilities:
- * WST: page -1, page +1, page +2
- * FLOF: 3 pages coupled to the coloured RObuttons (red/green/yellow)
- * TOP: next group, next page and basic top table

The main functions of both IVT teletext decoders:

- 1. Analogue part for:
- * Sync-separation
- * Teletext data extraction* Data clock regeneration
- * Transfer of clock, data and composite sync signals to the digital part
- The sync-separator slicing level is adaptive so that it can operate with a range of video amplitudes and signal distortions
- The data-slicer uses an adaptive signal recognition and clock-phasing algorithm so that it can operate with a wide range of clock run-in amplitudes
- Digital part for decoding of the world teletext standards
- On board 4 pages memory (for 4 page teletext execution only)
- * Automatic detection of WST, FLOF or TOP
- * Packet 26 flicker free character processing

Teletext





Electrical Adjustments

1. Adjustments on the main panel (Fig. 7.1)

1.1 +100V power supply voltage

Connect a voltmeter (DC) across C2530. Adjust **R3535** for a voltage of +100V (14 to 17") or +92V5 for 20-21" at a black picture (beam current 0 mA).

1.2 Horizontal centring

Is adjusted with potentiometer R3354.

1.3 Picture height

Is adjusted with potentiometer **R3410**.

| 1.4 Vertical centring

Can be adjusted by eventually mounting one of the resistors R3401 and/or R3408.

1.5 Focusing

Is adjusted with the focusing potentiometer in the line output transformer.

1.6 IF filter (only for sets with SECAM LL' reception possibility):

Connect a signal generator (e.g. PM5326) via a capacitor of 5p6 to pin 17 of the tuner and adjust the frequency for 40.4 MHz.
Connect an oscilloscope to pin 1 of filter 1015.
Switch on the set and select system Europe (BG/L is "low" for BGIDK reception).
Adjust L5012 for a minimum amplitude.

1.7 AF

a. For sets with SECAM LL' reception possibility: Connect a signal generator (e.g. PM5326) as indicated in point 1 .6. Connect a voltmeter to pin 44 of IC7015/6A.

Adjust the frequency for 33.9 MHz and select system France (L/L' is "high" for L' reception). Adjust L5040 for 3V5 (DC).

Next adjust the frequency for 38.9 MHz and select system Europe (L/L' is "low" for BGIDK reception). Adjust L5043 for 3V5 (DC).

b. For sets <u>without SECAM LL</u>' reception possibility:

Connect a signal generator (e.g. PM5326) as indicated above and adjust the frequency for 38.9 MHz (for PAL I at 39.5 MHz). Connect a voltmeter to pin 44 of IC7015/6A. Adjust L5040 for 3V5 (DC).

.8 RF AGC

If the picture of a strong local transmitter is reproduced distorted, adjust potentiometer R3021 until the picture is undistorted.

Or: Connect a pattern generator (e.g. PM5518) to the aerial input with RE signal amplitude =1 mV. Connect a multimeter (DC) at pin 5 of tuner. Adjust **R3021** so that voltage at pin 5 of tuner is $7V5 \pm 0V5$ (DC).

2. Adjustments on the CRT panel (Fig. 7.2)

2.1 Vg2 cut-off points of picture tube

Apply a pattern generator (e.g PM551 8) and set it to a white raster pattern.

Adjust contrast and Vg2 at minimum (Vg2 with

potentiometer in line output transformer to the left). Adjust brightness until the DC voltage across potentiometer 3213 is 0V.
Adjust R3207 (B), R3220 (G) and R3234 (R) for a level of 115V on the collectors of transistors 7205, 7218 and 7227 (resp R3264 (B), R3274 (G) and R3302 (R) and T57265-7275-7285 for 20" narrow neck). Adjust Vg2 potentiometer until the gun that first emits light is just no longer with the collectors with the

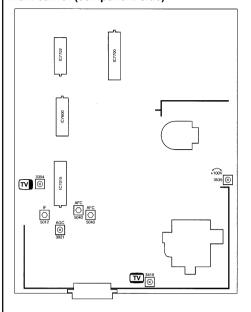
20" narrow neck). Adjust **Vg2** potentiometer until the gun that first emits light is just no longer visible. Adjust the two **other** guns with the respective controls (3207, 3220 or 3234 or for 20" 3264, 3274 or 3302 for 20") until just no light will be visible.

2.2 Grey scale (white D)

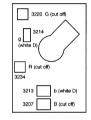
Apply a test pattern signal and adjust the set for normal operation. Allow the set to warm up for about 10 minutes.

Adjust R3213 and R3214 (R3263 and R3273 for 20") until the desired grey scale has been obtained.

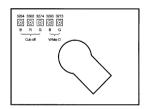
| Main carrier (component side)



CRT panel mini neck 14-15-17-21"



CRT panel narrow neck 20"



Repair facilities

Functional blocks

On both the service printing on the copper and the component side, functional blocks are indicated by a line and text.

Test points

The AA5 chassis is equipped with test points in the service printing on both sides of monoboard. These test points are referring to the functional blocks as mentioned above:

P1-P2-P3, etc: Test points for the power supply L1-L2-L3, etc: Test points for the line drive and line output circuitry

E1-E2-E3, etc: Test points for the frame drive and frame output circuitry

S1-S2-S3, etc: Test points for the synchronisation circuitry

V1-V2-V3, etc: Test points for the video processing circuitry

A1-A2-A3, etc: Test points for the audio processing circuitry

C1-C2-C3, etc: Test points for the control

T1-T2-T3, etc: Test points for the teletext processing circuitry

The numbering is done in a for diagnostics logical sequence; always start diagnosing within a functional block in the sequence of the relevant test points for that functional block.

Repair facilities Cont'd

Service default mode (SDM)

The service default mode is a pre-defined mode which can be used when for faultfinding (especially when the TV gives no picture at all). All oscillograms and DC voltages in this service manual are measured in the service default

Entering the service default mode can be done in 2 ways:

- 1. By short-circuiting the service pins Si and S2 of the microcomputer (pin 7 of 107600) while switching on the set with the mains switch
- 2. From normal operation mode by pressing the button "DEFAULT" on the DST (Dealer Service Tool) RC7150.

Leaving the service default mode to normal operation can only be done by the stand-by on the remote control (so not via mains switch "off"; after mains switch "off" and then "on" again the set will start up in the Service Default Mode again to enable easy faultfinding).

Functions of the service default mode (see Fig 8.1):

- 1. All analog settings (volume, contrast, brightness and saturation) are in the mid position (in iC with Vi .0 the volume in the SDM is set at 25%, from Vi .1 onwards the volume in the SDM is set at 50%)
- 2. For VST sets are to program number 1 indicated in the right top corner
- 3. For PLL sets are tuned to 475.25 MHz 4. Delta volume settings are not used (delta volume setting per program in reference with the PP volume setting which is valid for all
- 5. OSD error message (present available error code) is displayed continuously
- 6. Store open and store close commands will act as search and auto store
- 7. Automatic switch off function (set switches "off" after 15 minutes no DENT) will be switched off
- 8 Hotel mode will be disabled

programs)

- 9. All other functions remain normal controllable
- 10.A counter in the middle of the screen indicate the normal operation hours of the set in a hexadecimal code (every time the set is switched "on" the counter is incremented by 1 hour, so +i at the counter).
- 11. An "S" in the middle of the screen (next to the counter) indicate that the set is in the service default mode

Counter + "5" for SDM 0023 S active + prog nr.

Fig. 8.1

Service Menu (SM)

Entering the service menu can be done in 2

- 1. From service default mode by simultaneously pressing the buttons "-" and "+" buttons on the local keyboard.
- 2. From normal operation mode by pressing the button "ALIGN" on the DST RC7150.

Leaving the service menu to normal operation can be done in 2 ways:

- 1. Via the stand-by on the remote control
- 2. Via mains switch "off"

For reading a new option setting, the set must be switched "on" by the mains switch (so not by stand-by as by then the EEPROM settings are not read).

Functions of the service menu (see Fig 8.2);

- 1. Software version of the microprocessor used in that typical set is displayed in the right top
- 2. A counter in the middle of the screen indicate the normal operation hours of the set in a hexadecimal code (every time the set is switched "on" the counter is incremented by i hour, so+1 at the counter).
- 3. The "S" in the middle of the screen next to the counter indicate that the set is in the service default mode
- 4. Error code history; The 5 last different error codes occurred are stored in the EEPROM memory; last error code detected will be displayed on the right side (see for an overview of all possible error codes Fig. 8.4).

00000

means no error codes present in the buffer

means one error code present in the buffer; error code 3

00032

means two error codes present in the buffer; last detected error code is error code 2, previous detected error code is error code 3

The error code history buffer is cleared as soon as the Service Menu is left by the stand-by command. In case the Service Menu is left by the mains switch "off" the error code history buffer will not be cleared.

Counter + "S" for SM → 0023 S 1.0 active + software version 00032 Error code history ☐ SYSTEM BG+I
☐ I Option setting bar YNNYYNNNYYYN

Fig. 8.2

5. Option setting;

The options of the set can be changed in the service menu. In the 2 bottom lines the options are given. Control of the options is with the following kevs on the remote control:

* PROGRAM +/ -

Select the option to be changed;

Via the "PROGRAM +/-" button to option to be changed can be selected by scrolling through the possible options in the upper row from left to right (via the "PROGRAM +" button) or from right to left (via the "PROGRAM -" button). The selected option will be displayed in the upper row, the present "Y" or "N" status of that option (see table 8.3) will be blinking in the bottom row (when arrived at the end of the row the scrolling will be continued at the other side)

MENII +/-

Change the selected option via "MENU +/-" buttons the selected option can be changed. The selected Y (yes) or N (no) blinks and via either "MENU +" or the "MENU you toggle through the "Y" or "N" possibility.

The options (both the changed and the notchanged options) are stored in the EEPROM as soon as the service menu is left (by stand-by or mains switch "off"). The new option settings are only read after mains switch "on" (so not after

switching on the set from stand-by mode).

The following table indicates the possible options and there technical consequences:

| Text displayed in the upper option row | In case the "N" or "Y" blinks, it can be | The technical consequence for the selected option | | |
|--|---|--|--|--|
| | | for the selected option | | |
| in the service menu | changed | | | |
| SINGLE | → NN | → For a PAL BG only set | | |
| SYSTEM I | → NY | → For a PAL I only set | | |
| SYSTEM BG+L | → YN | → For a PAL BG + SECAM LL' set | | |
| SYSTEM BG+L+I | → YY | → For a PAL BGI or PAL EGOKI + SECAM LL' set | | |
| PLL TUNER | N | → For a VST tuner set | | |
| | Υ | → For a PLL tuner set | | |
| NO TXT | → NN | → For a set without teletext | | |
| 1P TXT | → NY | → For a set with 1 page WST teletext | | |
| 4P TXT | → YN | → For a set with 4 page FLOF teletext | | |
| 16/9 SWITCH | N | → Disable 16/9 switching possibility | | |
| | Υ | → Enable 16/9 switching possibility | | |
| S-VIDEO | N | → For a set without SVHS connectors | | |
| | Y | → For a set with SVHS connectors | | |
| SCART | N | → For a set without a scart connector | | |
| | Υ | → For a set with a scart connector | | |
| | | Note: The SCART option can only be | | |
| | | changed when the S-VIDEO option is "N" | | |
| SHARPNESS | N | → Disable sharpness control | | |
| | Υ | → Enable sharpness control | | |
| LOCAL MENU | N | → No ring menu after pressing | | |
| | Υ | "MENU" on the local keyboard | | |
| | | → Ring menu after pressing "MENU" on the local keyboard | | |
| 40 PROGRAMS | N | → 70 programs can be stored | | |
| | Υ | → 40 programs can be stored | | |
| SLEEPTIMER | N | → Disable sleeptimer function | | |
| | Υ | → Enable sleeptimer function | | |
| FOR GERMANY | N | → Disable ATS function | | |
| ONLY | Υ | → Enable ATS function only works when ATS software is present) | | |

Fig. 8.3

Error messages

The microcomputer also detects errors in circuits connected to the I ~ (Inter IC) bus. These error messages are communicated via OSD (On Screen Display) and a flashing LED both in normal operation and in the service menu (error code history buffer):

 In normal operation; In normal operation both the "OSD error message" and the "LED error" indication will display the present detected error. The displaying of both the OSD and the LED error indica-

tion will only take a limited time. 2. In the service default mode; In the service default mode both the "OSD error

message" and the "LFD error" indication will display the present detected error. In the service default mode both the OSD and the LED error indication will be displayed permanently. 3. In the service menu;

In the service menu both the "OSD error number" (in the error code history) and the "LED error" indication will display the present detected error. In the service default mode both the OSD and the LED error indication will be displayed continuously.

Reset volume/program (delta volume) for all programs at once

It is also possible to leave the service menu with the MENU button. After one time pressing the MENU button in the service menu, a new menu is entered (see Fig. 8.5) in which the volume/ programs-settings (also called delta volume settings) of nil. programs can be deleted. In case YES is selected via the MENU+ button, all volume/program-settings are deleted at once. After another time pressing the MENU button the TV will switch to normal operation (when the service menu is entered via the pins Si and S2) or service default mode (when the service menu is entered with the DST).

| Counter +"S" for SM | 0023 S 1.0 |
|---------------------|----------------------|
| active + software | |
| version | |
| Error code history | 00032 |
| Reset all volume | ☐ RESET VOL/PROG [#] |
| | NO YES |
| | |

Fig. 8.5

| "OSD error message" normal operation) | "OSD error number" (service menu) | "LED error" "on/off" in SEC | Error description | Possible defective component |
|--|--|--------------------------------|--------------------------|------------------------------------|
| No indication | 0 | No blinking LED | No error | _ |
| ERROR: RAM | 1 | 1 sec on / 1 sec off | kC error | 1C7600 |
| ERROR: BUS | 2 | 2 sec on / 2 sec oft | General 1 ² C | 1 ² C bus is blocked |
| ERROR: EEPROM | 3 | 3 sec on / 3 sec oft | EEPROM error | 1C7655 |
| ERROR: TELETEXT | 4 | 4 sec on / 4 sec oft | Teletext error | 1C770017702 or option wrong |
| ERROR: TUNER | 5 | 5 sec on / 5 sec oft | PLL tuner error | PLL tuner or option wrong |

Hotel mode

Hotel mode "on"

The hotel is activated when pressing simultaneously the "MENU" button on the local keyboard and the "SLEEPTIMER or OSD" button on the remote control while program 38 is selected for at least 3 seconds. When the hotel mode is activated, this is

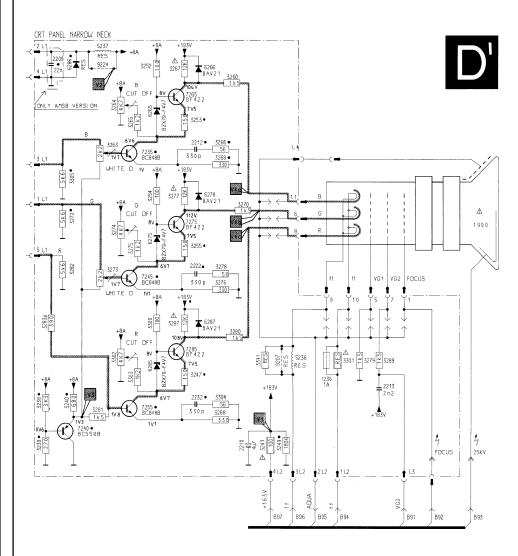
indicated by a "H+" on the OSD (this will be displayed until the set is switched of by the mains switch or via stand-by).

Hotel mode "off" Repeat above mentioned procedure once again. When the hotel mode is de-activated,

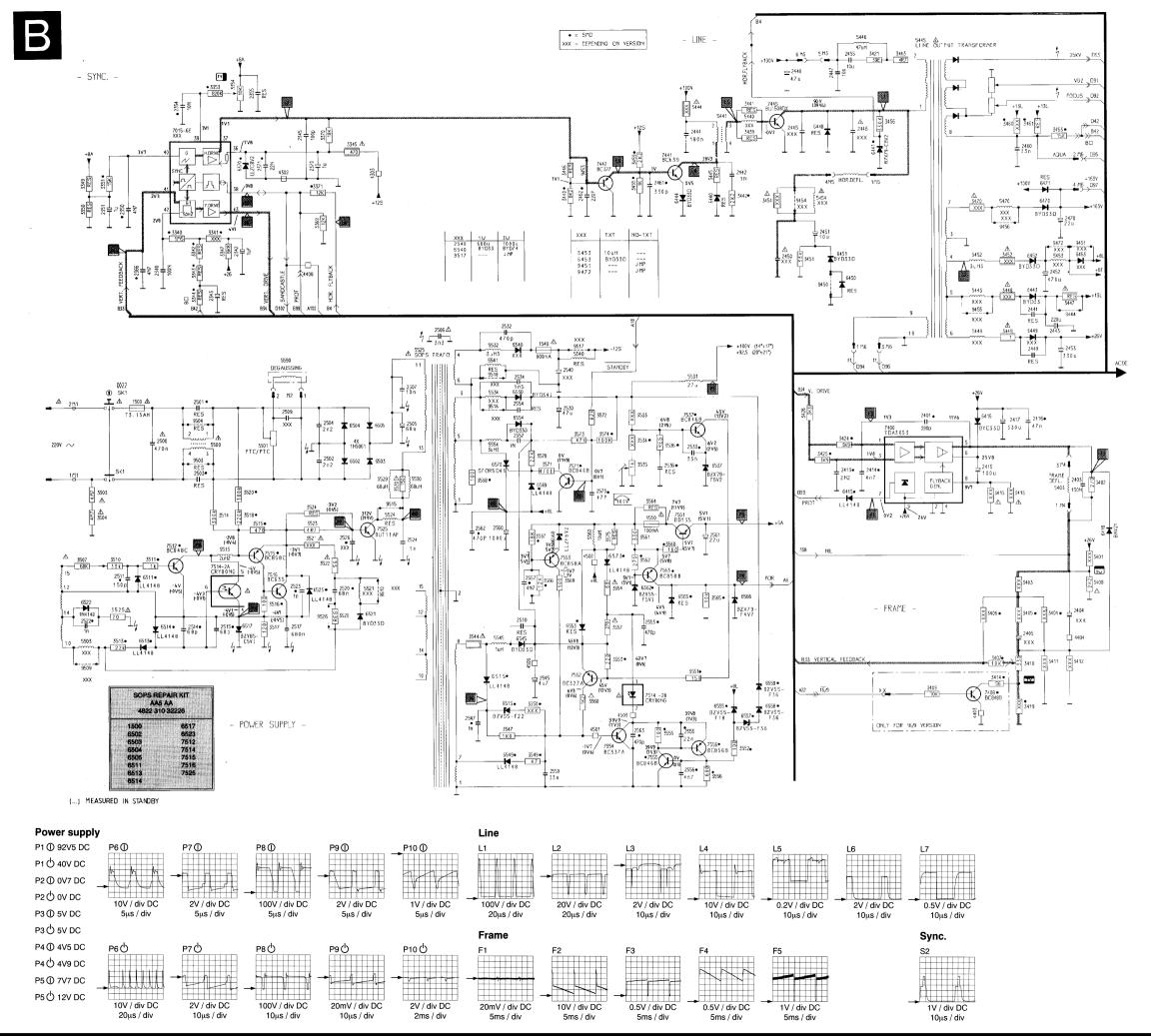
this is indicated by a "H-" on the OSD (this will

- be displayed until the set is switched of by the mains switch or via stand-by).
- Functions of the hotel mode
 - The volume present on the moment the hotel mode was switched "on" is the maximum volume level in the hotel mode.
- The install mode can not be opened (the message "LOCKED" will be displayed for 3 seconds if a store open command is given)
- The delta volume menu can not be entered.
- PP (personal preference) can not be stored (the message "LOCKED" will be displayed for 3 seconds if a PP-store command is given).
- At switch "on" (by mains switch or remote control) program number 1 will always be

CRT PCB (20"narrow neck) **Diagram**



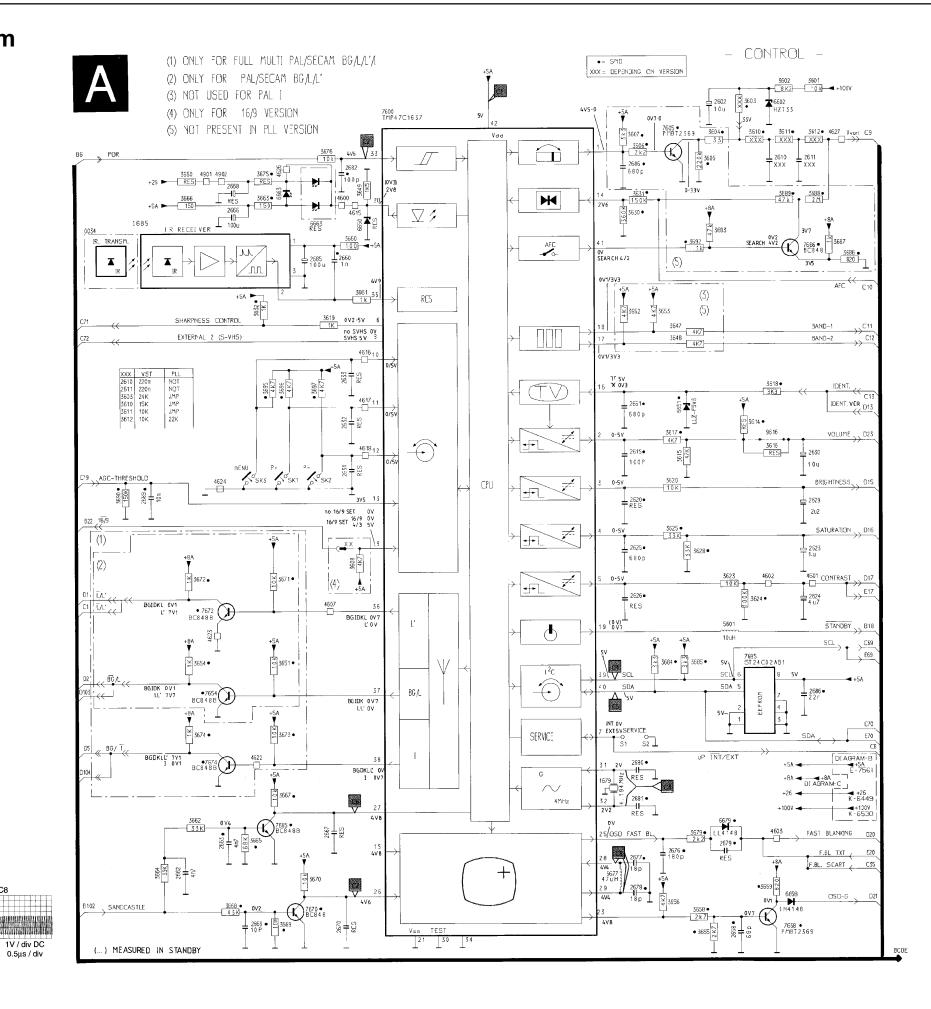




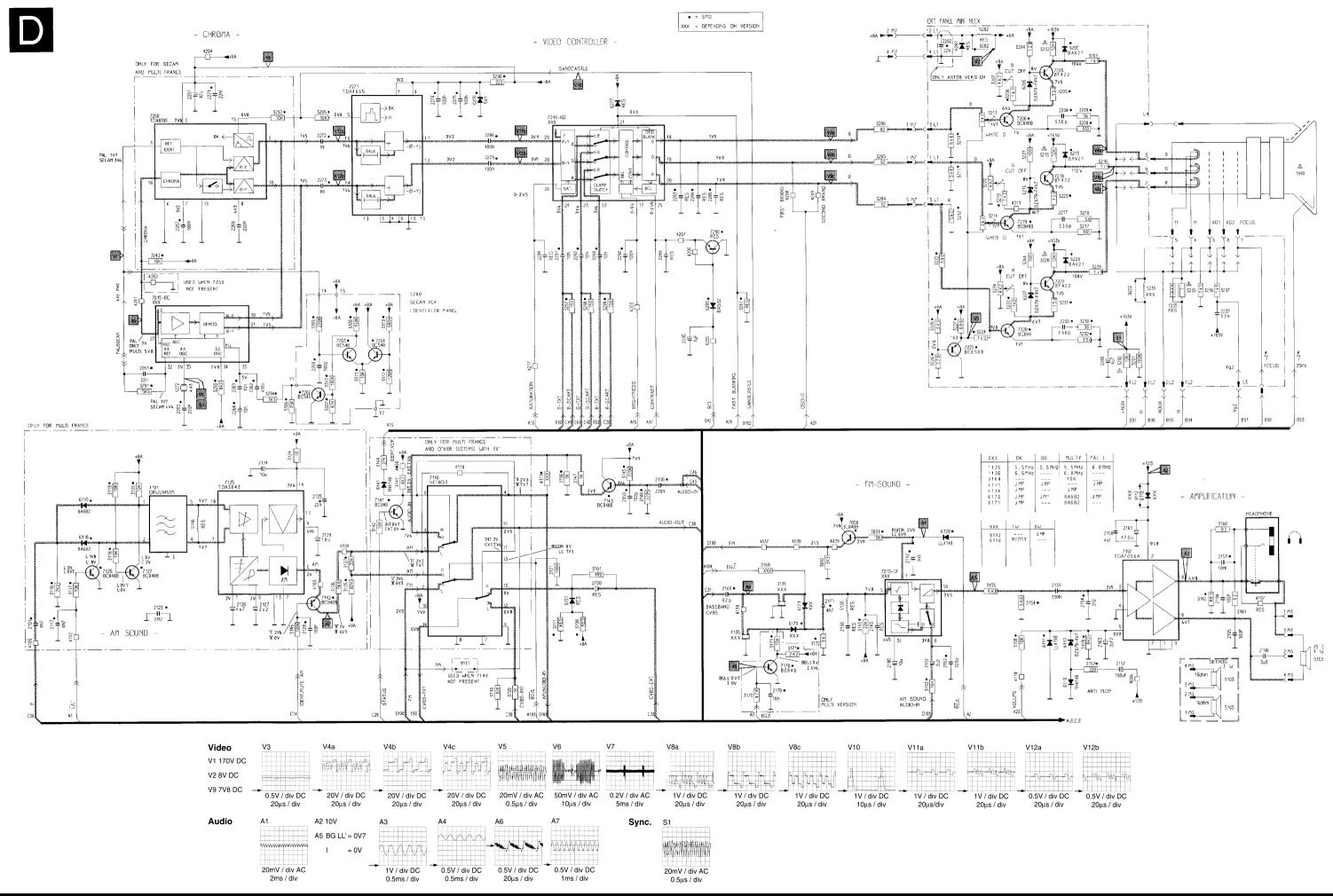
Controls C1 5V DC C2 4V6 DC

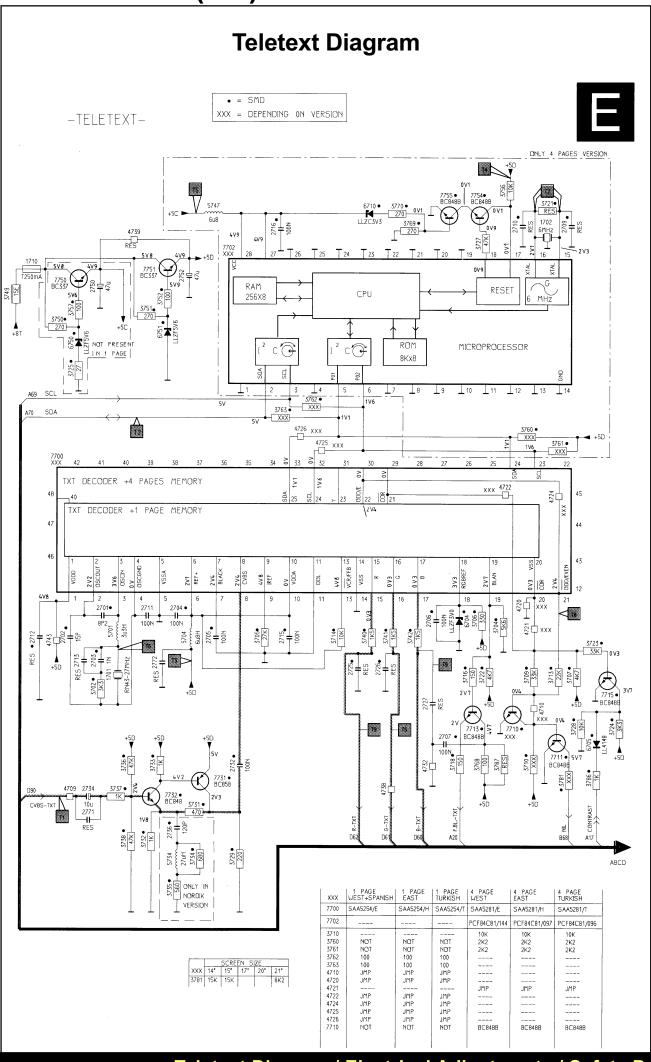
C5 5V DC

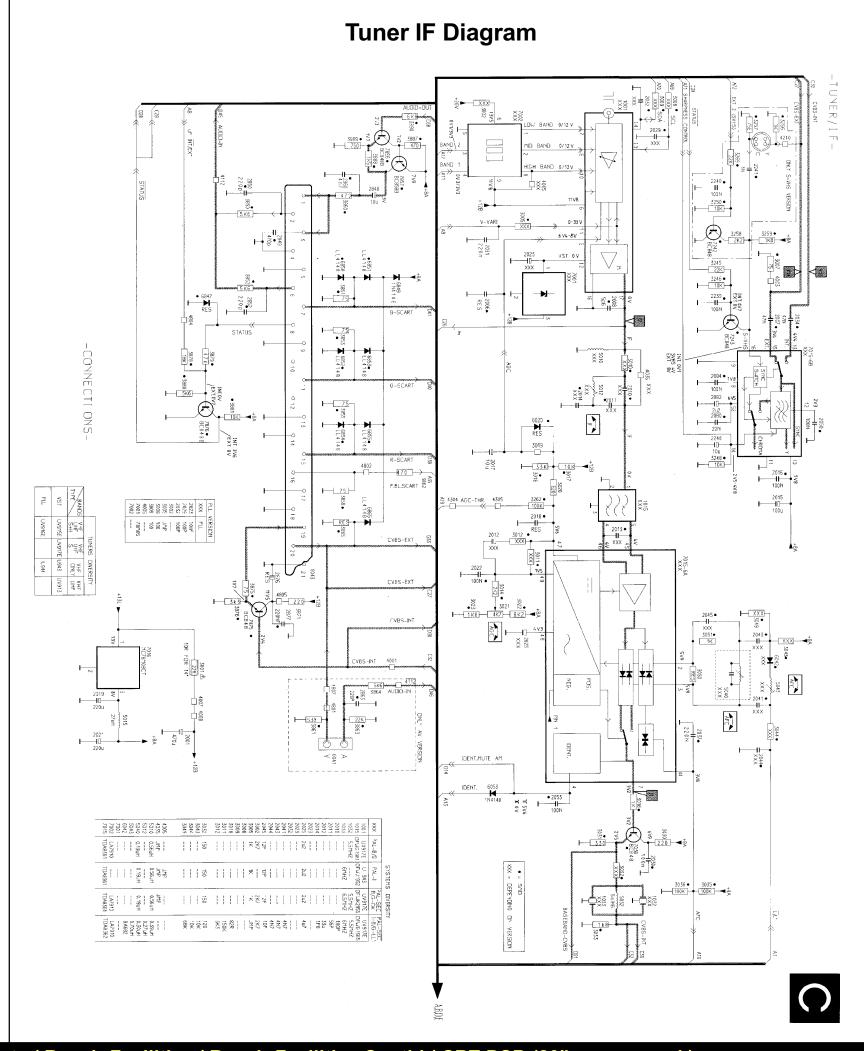
Control PCB Diagram



Video & Audio CRT PCB (14", 15", 17", 21" mini neck) Diagram







Teletext Diagram / Electrical Adjustments / Safety Parts / Repair Facilities / Repair Facilities Cont'd / CRT PCB (20" narrow neck)