

Service
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Service Manual

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Connecting Facilities

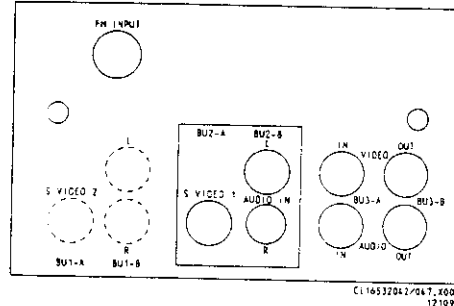
2-1 CHASSIS MK2

1.1 CHASSIS MK2

Technical data

Specification of the terminal sockets

REAR



S-VHS (S VIDEO 1/2)



- 1 - L
- 2 - L

3 - Y: $\ominus$ 1V_{pp}/75Ω

4 - C: $\ominus$ 285mV_{pp}/75Ω

S-VHS AUDIO

$\ominus$ Cinch Audio $\ominus$ 0,5V RMS $\geq$ 10kΩ

CINCH VIDEO

$\ominus$ Cinch CVBS $\ominus$ 1V_{pp}/75Ω

$\ominus$ Cinch CVBS $\oplus$ 1V_{pp}/75Ω

CINCH AUDIO

$\ominus$ Cinch Audio $\ominus$ 0,5V RMS $\geq$ 10kΩ

$\ominus$ Cinch Audio $\oplus$ 0,2-2V RMS $\geq$ 10kΩ

FRONT

$\ominus$ 3.5mm 1 $\oplus$ 2x8Ω; 20mW

Mains voltage : 150-276 V ; 50/60 Hz ($\pm$ 5%)
: 90-276 ; 50/60 Hz ($\pm$ 5%) (for multivoltage)

Power cons. at 230V~ : 21" 60W (stand-by $\leq$ 10W)
: 25" 75W (stand-by $\leq$ 10W)
: 28" 78W (stand-by $\leq$ 10W)

Aerial input impedance TV : 75Ω - coax
Aerial input impedance FM : 75Ω (/73 only)

Min. aerial input VHF : 30μV
Min. aerial input UHF : 40μV
Max. aerial input VHF/UHF : 100mV
Aerial input FM : 7μV (/73 only)

Pull-in range colour sync : $\pm$ 300Hz (NTSC 3.58 : $\pm$ 250Hz)
Pull-in range horizontal sync : $\pm$ 600Hz
Pull-in range vertical sync : $\pm$ 5Hz

Picture tube range : 21" A51JAR43X06MZW (Northern Hemisphere)
: 21" A51JAR45X01MZW (Southern Hemisphere)
: 25" A59JMZ140X01 (Northern Hemisphere)
: 25" A59JMZ141X01 (Neutral)
: 25" A59JMZ142X01 (Southern Hemisphere)
: 28" A66JMZ40X03 (Northern Hemisphere)
: 28" A66JMZ41X03 (Neutral)
: 28" A66JMZ42X03 (Southern Hemisphere)



: 4W; 20Hz-14kHz

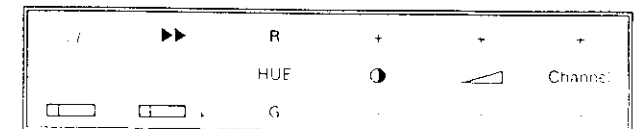
TV Systems : /50/52/75/79: PAL BG
: /73: PAL I
: /58/59/62: PAL/SECAM BGDK
: /56: PAL/SECAM BGDK; NTSC 3.58/4.43

Indications : On Screen Display (OSD)
: 1- LED (I, O, RCS)

VCR programs : 0 - 49

Tuning and operating system : ☐ VST
UV913 : Band I: 45.25 - 82.25 MHz
: Band II: 163.25 - 224.25 MHz
: UHF: 471.25 - 855.25 MHz
UV915E (/62) : Band I: 48.25 - 168.25 MHz
: Band II: 175.25 - 447.25 MHz
: UHF: 455.25 - 855.25 MHz
UV917E (/58) : Band I: 43.25 - 154.25 MHz
: Band II: 161.25 - 294.25 MHz
: UHF: 471.25 - 855.25 MHz
UV963 (/75) : Band I: 45.25 - 102.25 MHz
: Band II: 136.25 - 294.25 MHz
: UHF: 471.25 - 855.25 MHz
UV973 (/73) : Band II: 175.25 - 247.25 MHz
: UHF: 471.25 - 855.25 MHz

Local operating functions :



1. A set to be repaired should always be connected to the mains via a suitable isolating transformer.
2. Safety regulations demand that the set be restored to its original condition and that the components identical to the original types be used. Safety components are marked by the symbol .

3. To prevent damage to IC's and transistors any flash-over of the EHT should be avoided. To prevent damage to the picture tube the method, indicated in Fig. 3.1, has to be applied to discharge the picture tube. Make use of an EHT probe and a universal meter (position DC-V). Discharge until the reading of the meter is 0V (after approx 30s).

1. ESD

All IC's and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.

When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools on the same potential.

5. The deflection and multipole units have been adjusted in an optimum way in the factory. Adjustment of these units during repair is thus not recommended.

6. **Removing the EHT cable.**
After removal of the tube and nip out of the clamping rings N with a screwdriver or side-cutting pliers, the EHT cable may be pulled off the line output transformer (see Fig. 3.2). When refitting the cable, first press the clamping ring onto the transformer until a click is heard; after this the cable may be pressed home. Make sure that the cable is pressed down well.

7. Proceed with care when testing the EHT section and the picture tube.
8. Never replace any modules or any other parts while the set is switched on.
9. Wear safety goggles during replacement of the picture tube.
10. Use plastic instead of metal alignment tools. This in order to preclude short-circuit or to prevent a specific circuit from being rendered unstable.

11. Upon a repair of a transistor or IC assembly i.e. a transistor or IC with heatsink and spring remounting should be carried out in the following order:
 - Mount transistor or IC on heatsink with spring.
 - Mount assembly and resolder the joints at last.

1. Do not use heatsinks as earth reference.
2. The direct voltages and waveforms should be measured relative to the nearest earthing point on the printed circuit board.
3. The DC voltages and oscillograms are where necessary measured with (I) and without (X) aerial signal, minimum brightness and maximum saturation and contrast (see diagrams). Voltages and oscillograms in the power supply section have been measured for both normal operation (D) and in the stand-by mode (C). As an input signal a colour bar pattern has been used.
4. Connectors used for the modules (board to board) are gold-plated and must be replaced by the same type only.
5. The accessibility of the circuits on plugged boards can be increased through application of extension printed circuit boards.
Code numbers of extension printed circuit boards:
6-fold 4822 395 30259
8-fold 4822 214 31402

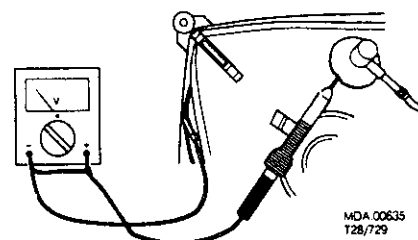


Fig. 3.1

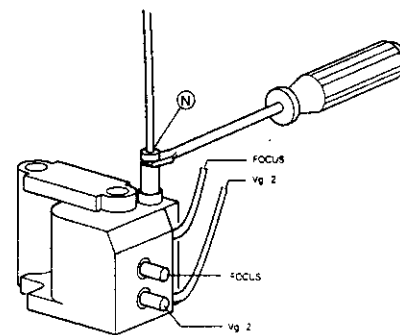


Fig. 3.2

MDA 02136
128/915

Mechanical instructions

1. Service position

Mono carrier:

To facilitate troubleshooting and repairing the set, the chassis can, after disconnecting the degaussing cable and the two loudspeaker connecting cables, be pulled out of the cabinet, and placed behind the set on the LOT side of the chassis.

VIVO sound module:

Keep the mono carrier in its original position. Pull the VIVO sound module about 1cm backwards. Lift the right-hand side of the module and remove the module.

Place the module on the left-hand side.

2. Servicing of SMD's (Surface Mounted Devices)

2.1 General cautions on handling and storage.

- a. Oxidation on the SMD's terminals results in poor soldering. Do not handle SMD's with bare hands.
- b. Avoid for storage places with sulfur or chlorine gas, direct sunlight, high temperatures or a high degree of humidity. As a result the capacitance or resistance value of the SMD's may be affected.
- c. Rough handling of circuit boards containing SMD's may cause damage to the components as well as the circuit boards. Circuit boards containing SMD's should never be bent or flexed. Different circuit board materials expand and contract at different rates when heated or cooled and the components and/or solder connections may be damaged due to the stress. Never rub or scrape SMD components as this may cause the value of the component to change. Similarly, do not slide the circuit board across any surface.

2.2 Removal of SMD's

- a. Heat the solder (for 2-3 seconds) at each terminal of the SMD. Small components can, by means of litze wire and a limited horizontal force, be removed with the soldering iron. They can also be removed with a solder sucker (see Fig. 4.1A) or.
- b. While holding the SMD with a pair of tweezers take it off gently using the soldering iron's heat applied to each terminal (see Fig. 4.1B).
- c. Remove the excess solder on the solder lands by means of litze wire or a solder sucker (see Fig. 4.1C).

Caution on removal:

- a. When handling the soldering iron, use suitable pressure and be careful.
- b. When removing the SMD, do not use undue force with the pair of tweezers.
- c. The soldering iron to be used (approx. 30W), must preferably be provided with a thermal control (soldering temperature about 225 to 250°C).
- d. The SMD, once removed, must never be used again.

2.3 Attachment of SMD's

- a. Locate the SMD on the solder lands by means of tweezers and solder the component at one side. Ensure that the component is positioned well on the solder lands (see Fig. 4.2A).
- b. Next complete the soldering of the terminals of the component (see Fig. 4.2B).

Caution on attachment:

- a. When soldering the SMD terminals, do not touch them directly with the soldering iron. The soldering must be as quick as possible; care must be taken to avoid damage to the terminals and the body itself.
- b. Keep the SMD's body in contact with the printed board when soldering.
- c. The soldering iron to be used (approx. 30W) must preferably be provided with a thermal control (soldering temperature about 225 to 250°C).
- d. Soldering should not be done outside the solder land.
- e. Soldering flux (of rosin) may be used but should not be acidic.
- f. After soldering, let the SMD cool down gradually in room temperature.
- g. The quantity of solder must be proportional with the size of the solder land. If the quantity is too great, the SMD might crack or the solder lands might be torn loose from the printed board (see Fig. 4.3).

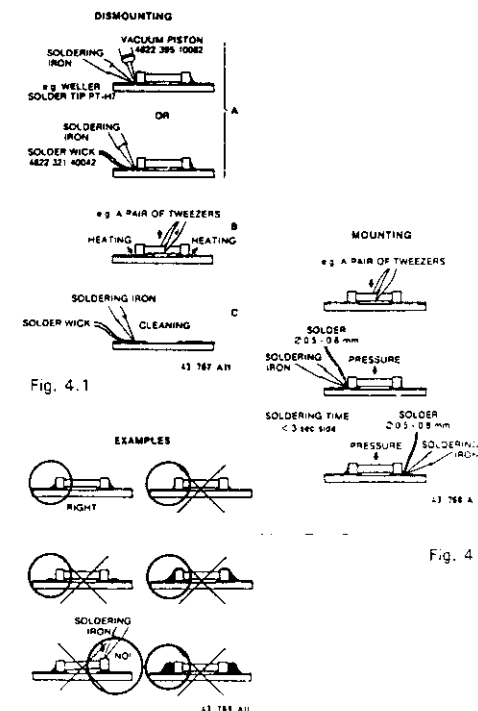
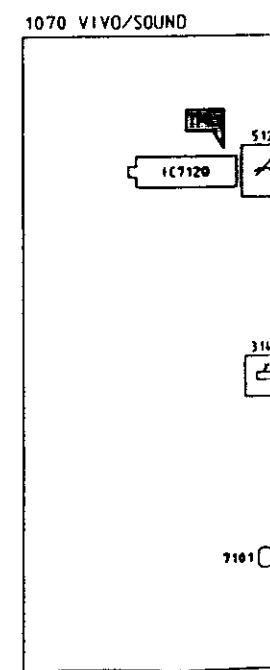
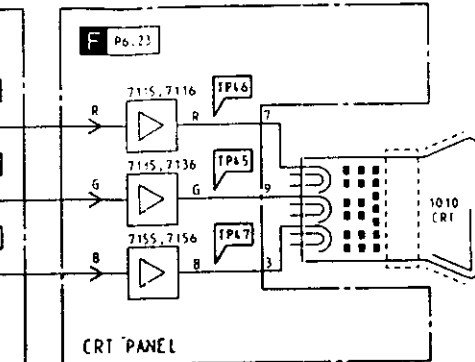
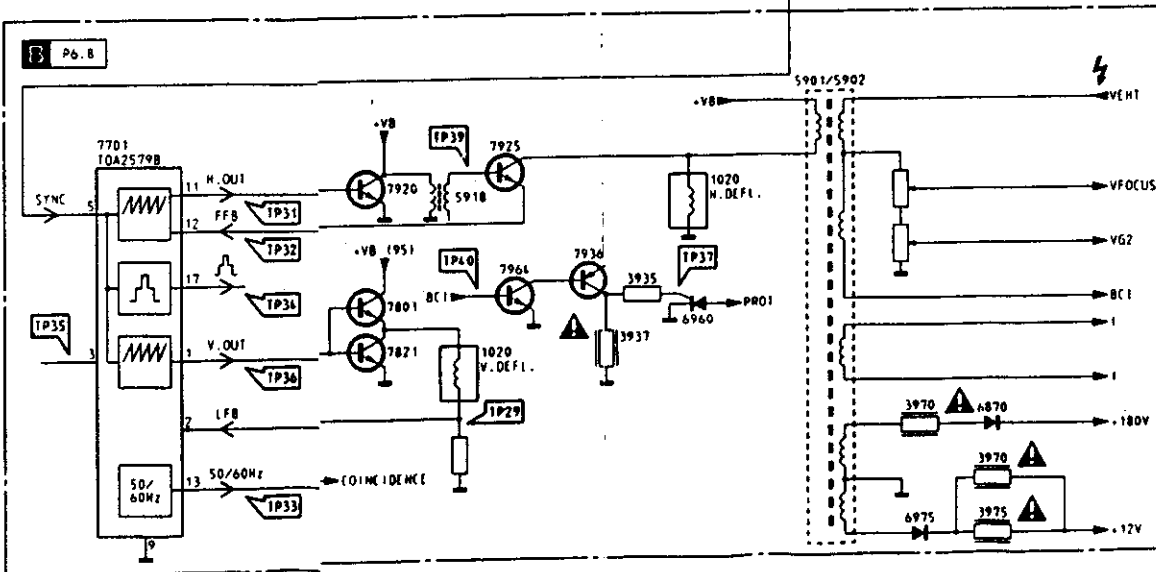
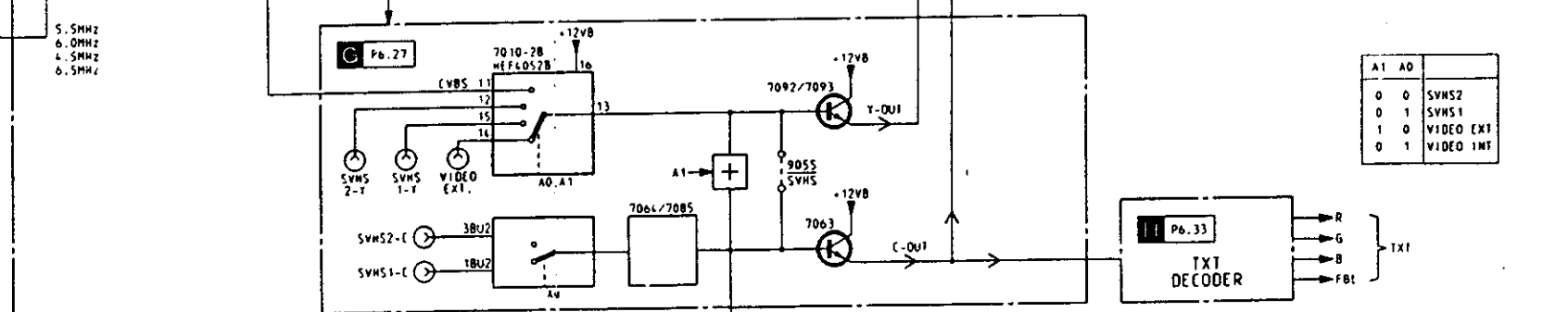
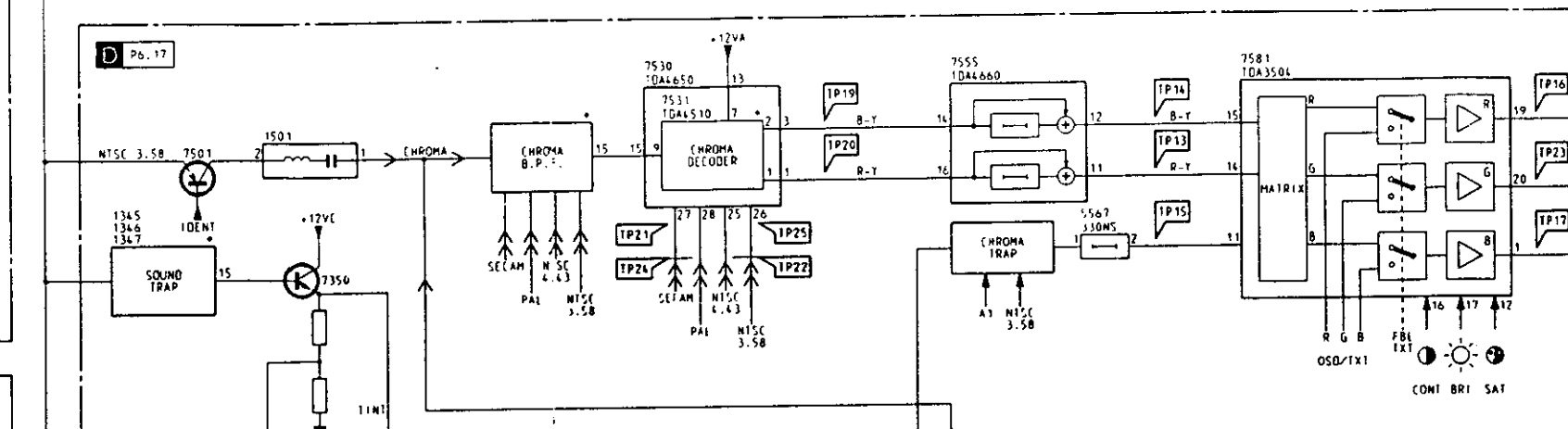
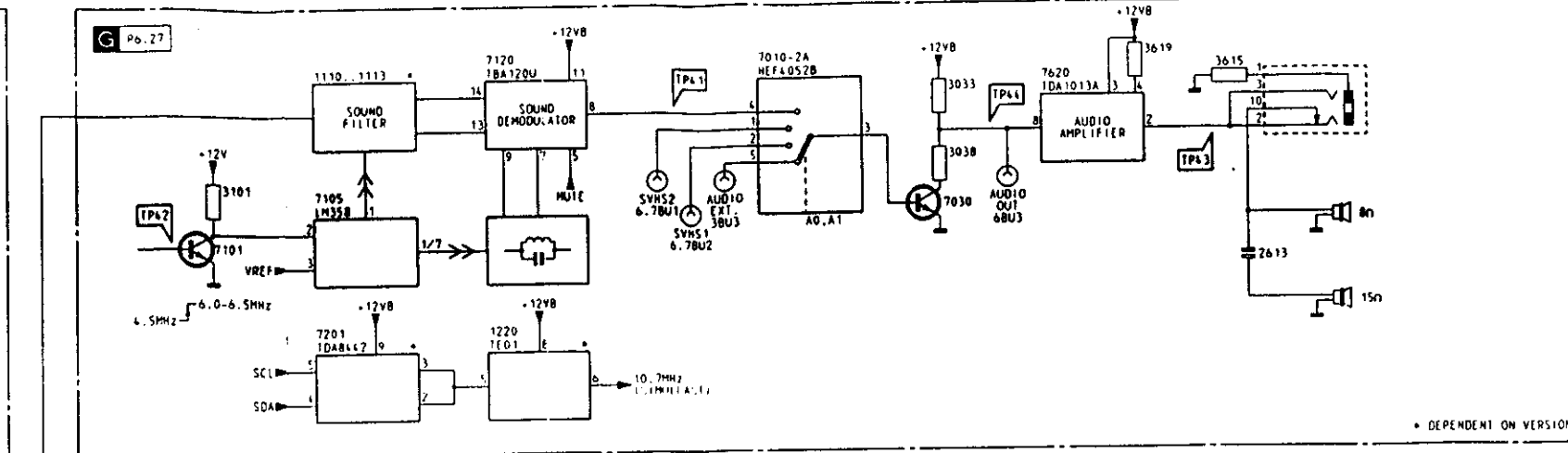
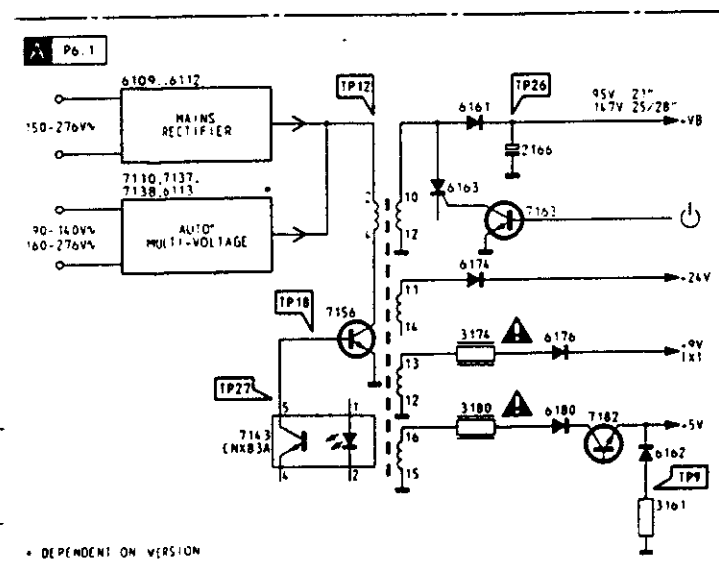
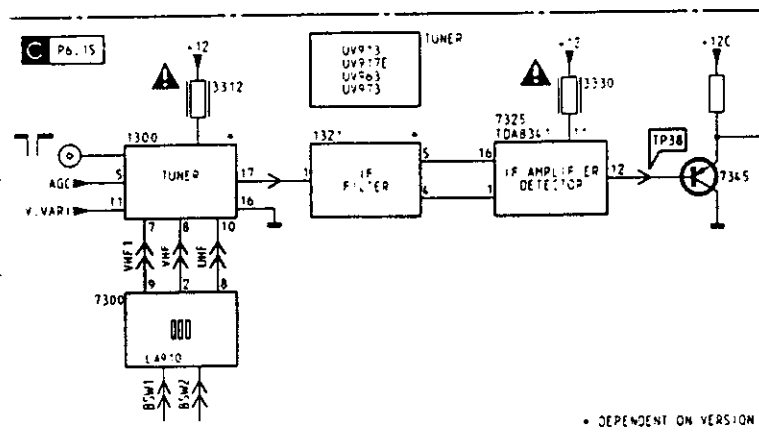
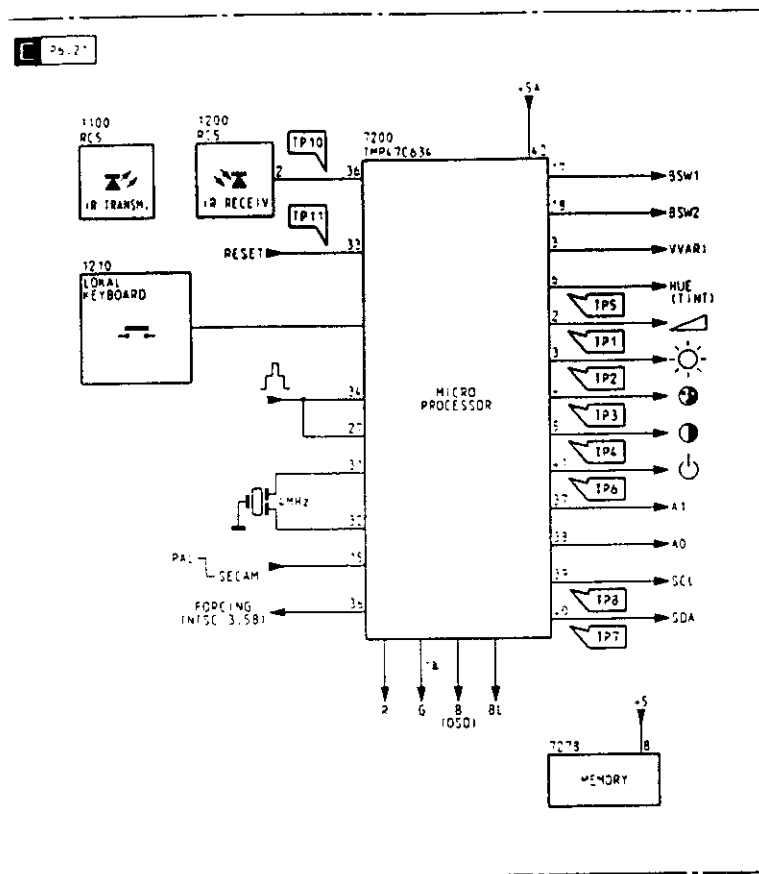
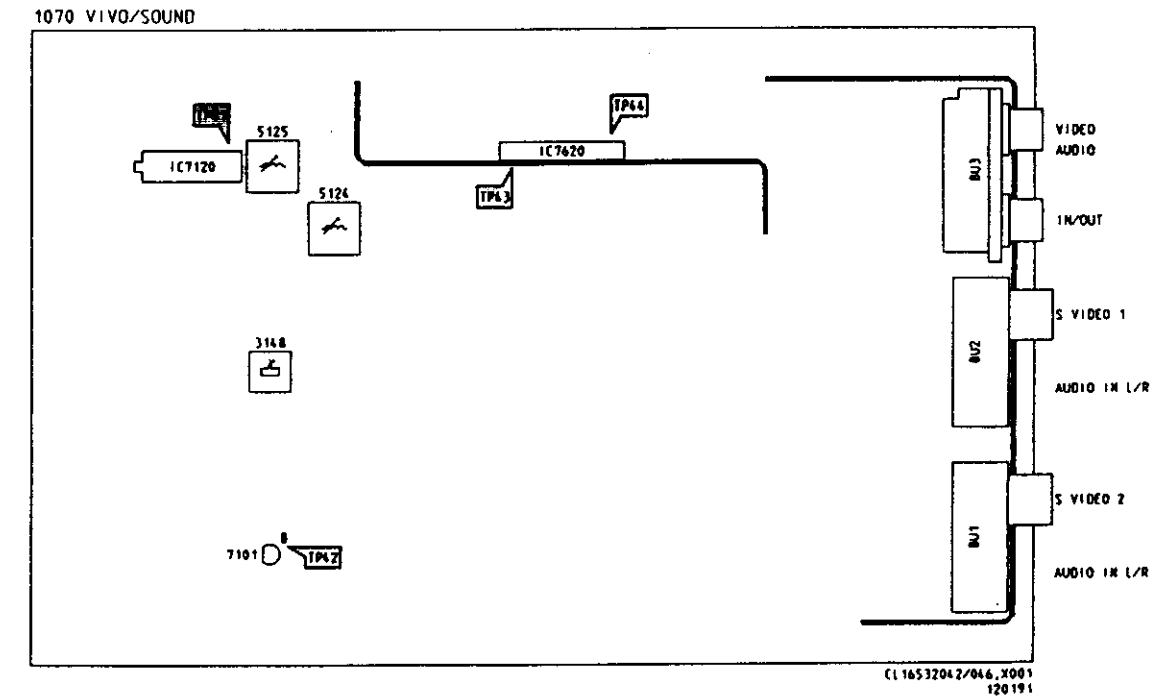
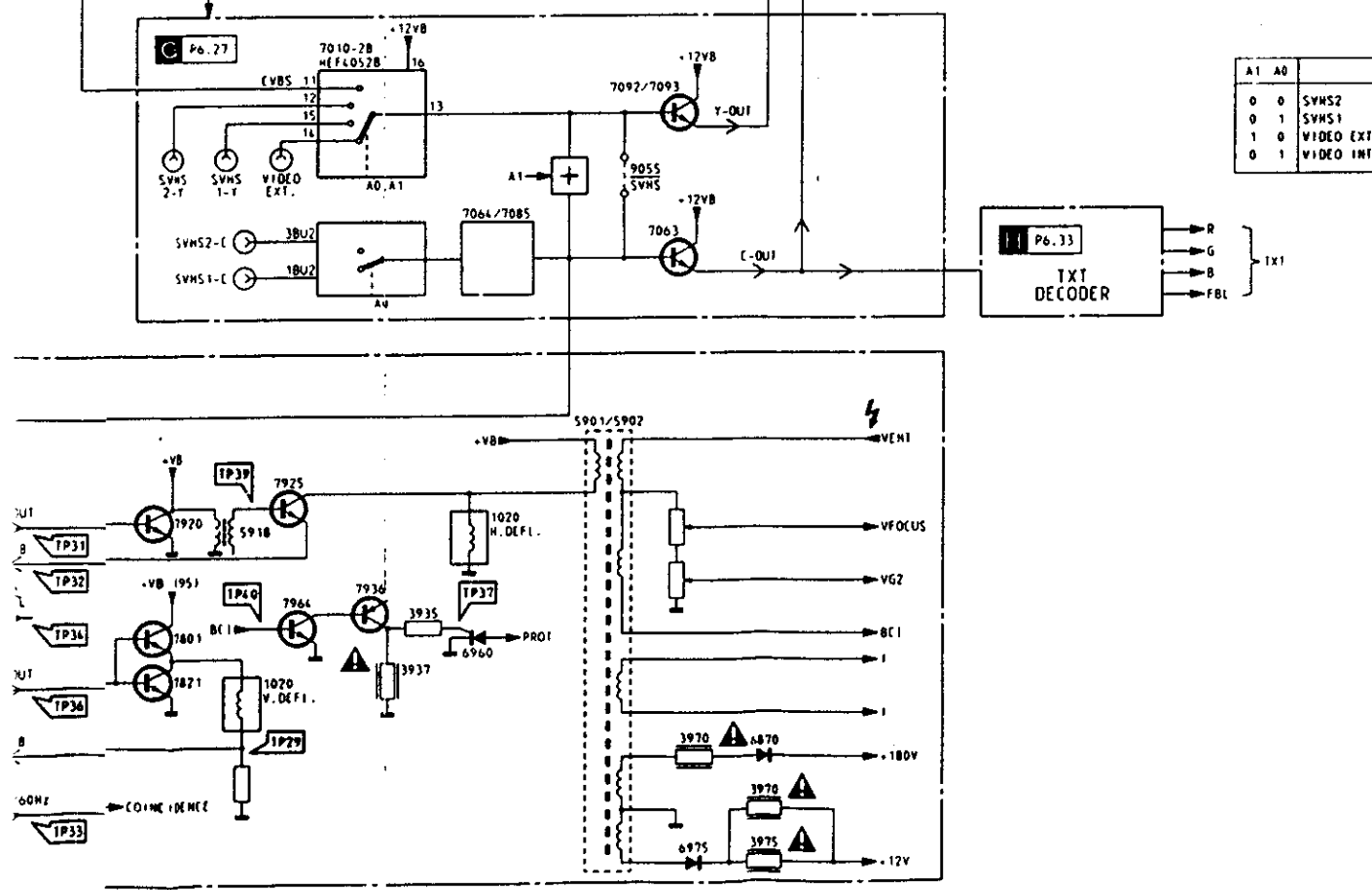
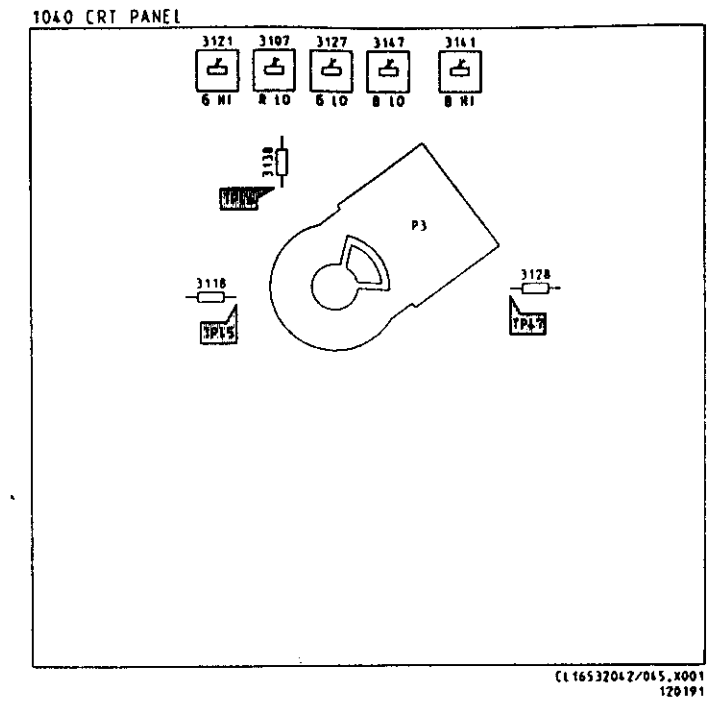
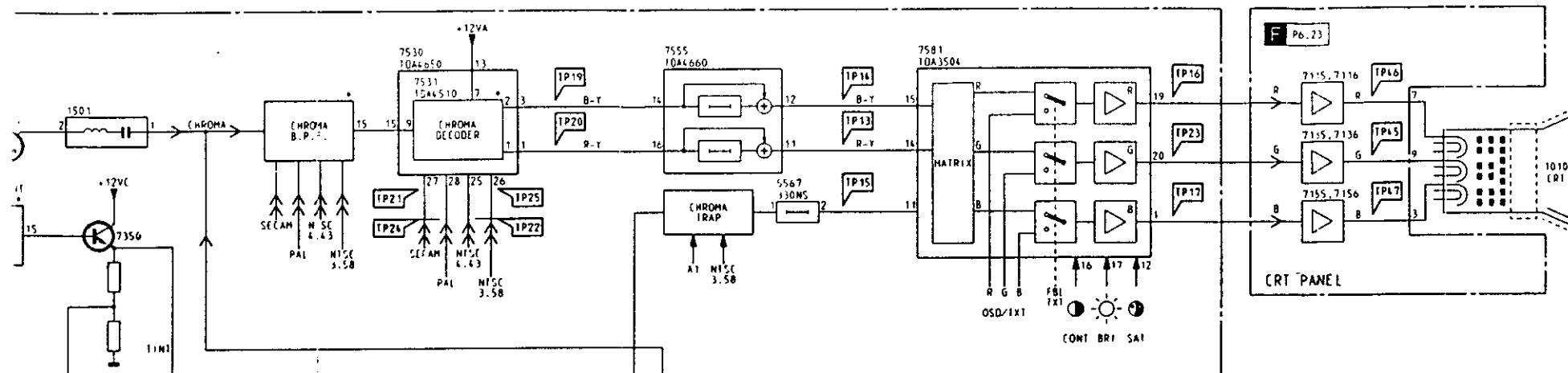
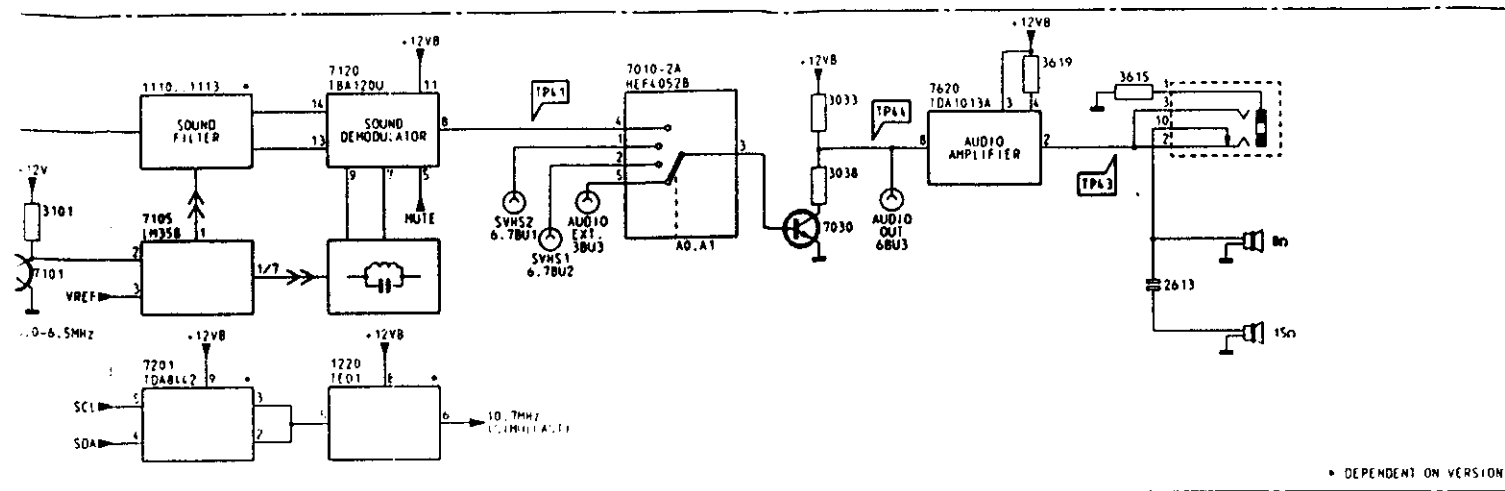


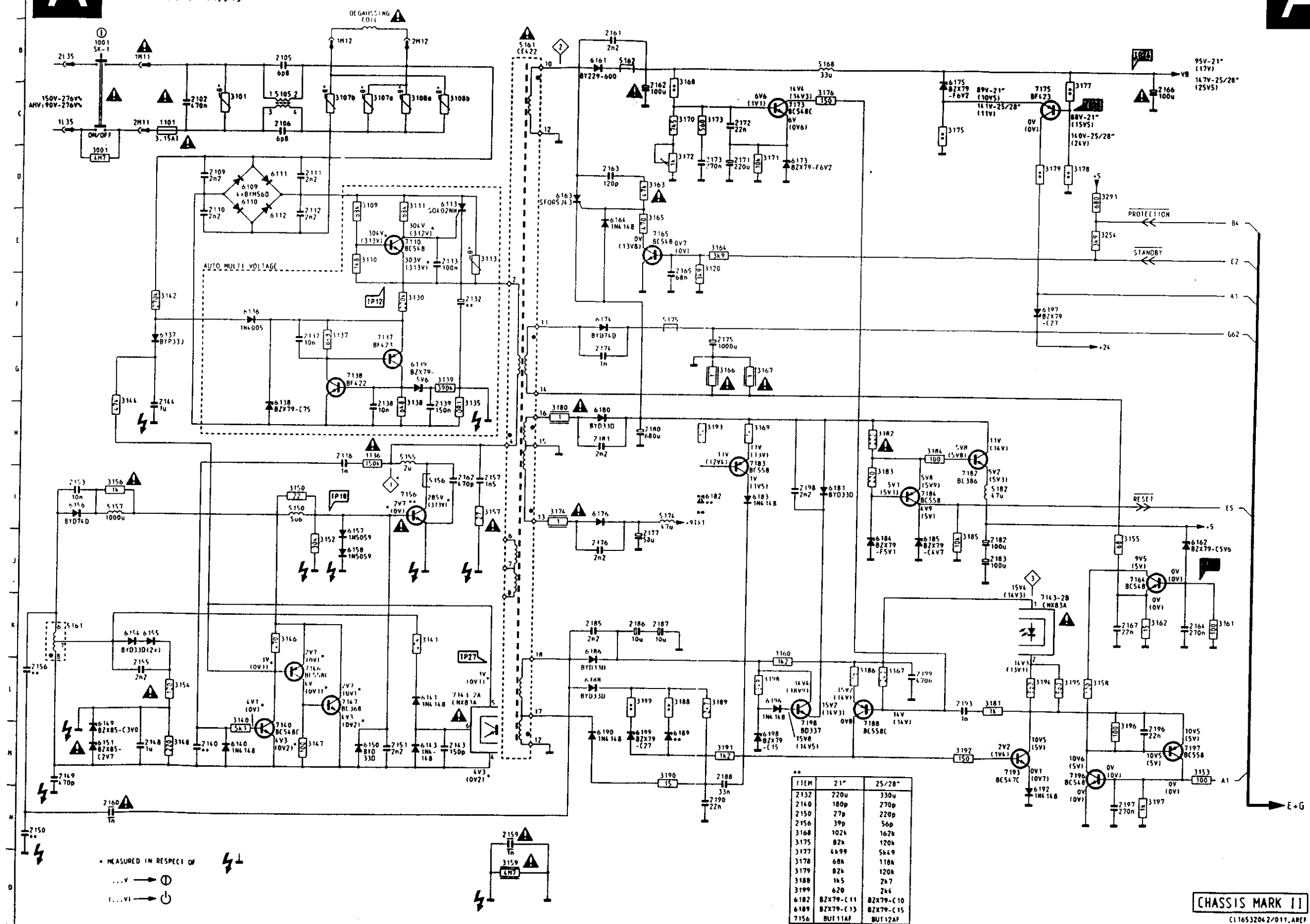
Fig. 4.1

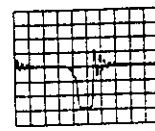
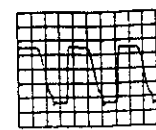
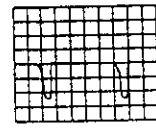
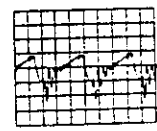
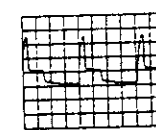
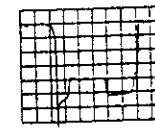
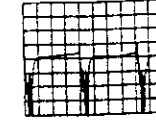
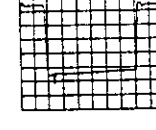
Fig. 4

Fig. 4.3



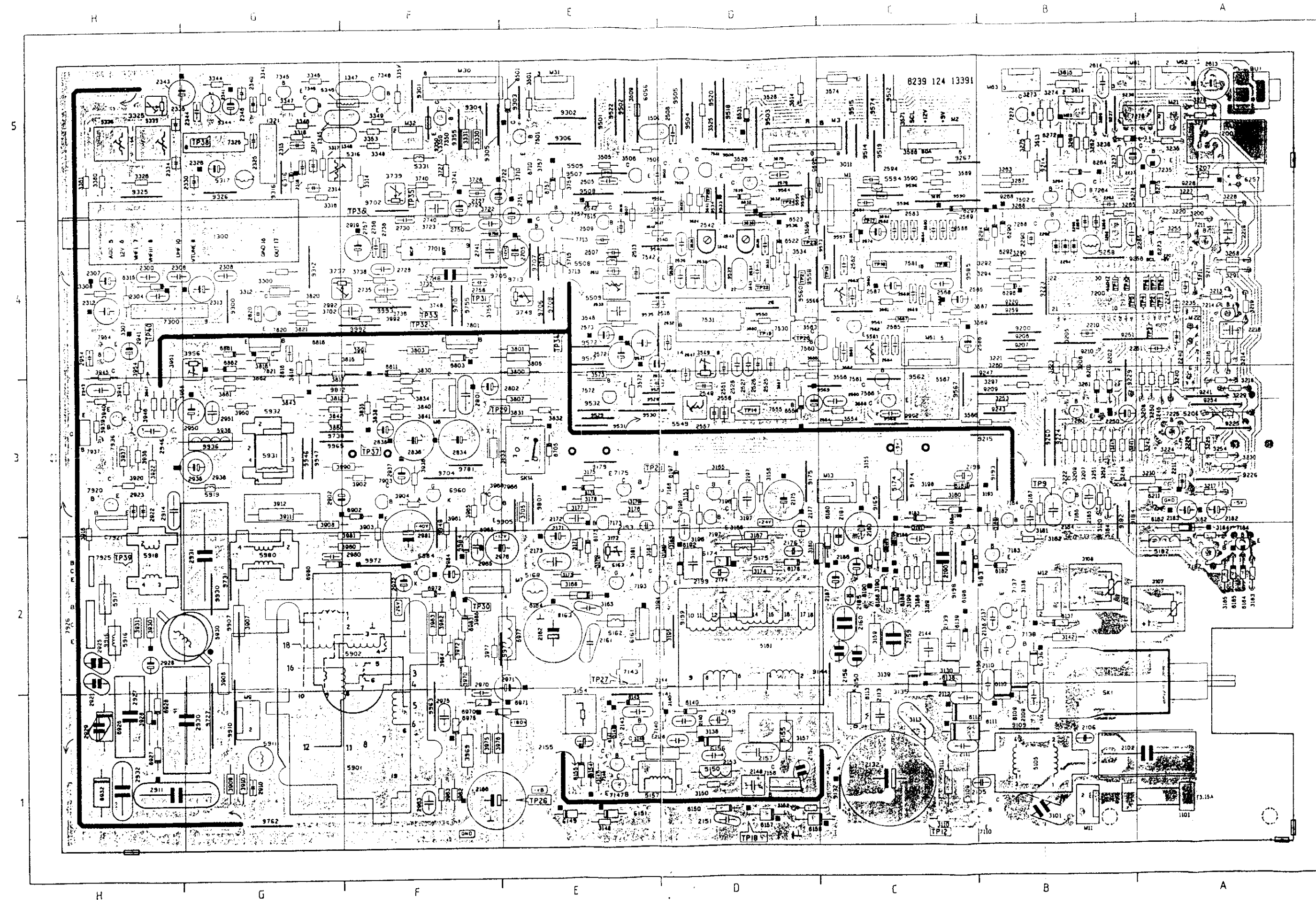




0.1kV/DIV 2μs/DIV
1Ⓢ0.1kV/DIV 5μs/DIV
1Ⓢ50V/DIV 5μs/DIV
2Ⓢ50V/DIV 10μs/DIV
2Ⓢ0.2V/DIV 5μs/DIV
3Ⓢ2V/DIV 2ms/DIV
3Ⓢ1V/DIV 2μs/DIV
TP18Ⓢ0.5V/DIV 2ms/DIV
TP18Ⓢ1V/DIV 2μs/DIV
TP27Ⓢ1V/DIV 2ms/DIV
TP27Ⓢ

Measured at ✕

1101 B1	2531 E3	3139 C2	3300 G4	3838 F3	6156 D1	7560 C4	9574 C6
1200 A5	2532 D4	3140 D1	3307 H4	3840 F3	6157 D1	7561 C3	9585 C4
1266 B4	2533 E4	3141 E1	3308 H4	3841 F3	6158 D1	7562 C4	9590 C6
1300 H4	2534 F4	3142 B2	3312 G4	3842 G3	6161 E2	7566 C3	9596 D6
1321 G5	2535 D4	3144 D2	3314 F6	3843 G3	6162 A2	7572 E3	9598 C6
1346 G5	2536 D4	3146 E1	3316 G5	3846 G3	6163 E2	7581 C4	9702 F6
1348 G5	2538 D4	3147 E1	3317 G5	3881 G3	6164 E2	7701 F4	9704 F3
1347 F5	2540 D4	3148 E1	3318 G5	3882 G3	6173 E2	7713 E4	9705 F4
1801 B5	2541 E4	3150 D1	3325 H5	3902 F3	6174 D2	7767 E4	9708 E4
1843 B4	2542 D4	3152 D1	3326 H5	3903 F2	6175 E3	7801 F4	9707 E4
1843 D4	2543 D4	3153 D3	3330 F5	3904 F3	6176 D2	7820 G4	9708 E4
2102 A1	2546 E4	3154 E1	3331 F5	3908 G2	6180 C2	7821 G4	9710 F4
2105 B1	2547 D3	3155 C3	3341 G5	3907 G2	6181 C3	7803 F3	9713 E4
2106 B1	2548 D3	3156 D1	3344 G5	3908 G3	6182 B2	7820 H3	9727 G1
2108 B1	2550 C3	3157 D1	3346 G5	3909 G1	6183 C3	7921 H3	9731 G2
2110 B1	2551 D4	3158 D3	3348 G5	3910 G1	6184 A2	7926 H2	9738 G3
2111 C1	2554 D3	3159 C2	3347 G5	3911 G3	6185 A2	7928 H2	9755 F4
2112 C1	2556 D3	3160 C2	3348 F5	3912 G3	6188 C2	7938 H3	9762 G1
2113 C1	2558 D3	3161 B3	3349 F5	3916 H3	6188 C2	7937 H3	9781 F3
2132 C1	2558 C4	3162 B2	3350 F5	3920 H3	6189 C2	7964 H4	9801 E3
2137 B2	2559 C4	3163 E2	3351 F5	3922 H3	6190 C2	7968 F3	9812 G3
2138 B2	2561 C4	3164 B3	3353 F5	3928 H1	6192 D2	9109 B1	9905 E3
2139 C2	2562 C4	3165 D3	3360 H5	3930 H2	6196 C3	9132 C1	9907 G2
2140 D1	2562 C4	3166 D2	3361 H5	3931 H2	6197 D3	9141 E1	9910 G1
2143 E1	2564 C4	3167 D2	3601 E5	3935 H3	6198 C2	9144 C2	9916 H2
2144 C2	2565 C4	3168 E2	3503 D5	3936 F3	6199 C2	9185 C3	9930 G2
2148 D1	2566 C3	3169 B3	3505 E5	3937 H3	6201 B3	9174 C3	9936 G3
2149 D1	2568 C4	3170 E2	3506 F5	3938 H3	6202 B3	9176 D3	9946 G3
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2153 D1	2574 C4	3174 D2	3614 D5	3946 H3	6272 B5	9184 B3	9956 G3
2156 E1	2582 C4	3175 E3	3622 D5	3947 H3	6273 A4	9193 B3	9972 F2
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2157 D1	2584 C4	3177 E3	3625 D5	3951 H3	6275 A5	9199 D2	9984 F2
2159 C2	2585 C4	3178 E3	3626 D5	3954 H4	6280 B4	9200 B4	9992 F4
2160 C2	2586 C4	3179 E3	3627 E4	3955 H3	6292 B4	9206 B4	9993 F4
2181 E2	2587 C4	3180 C2	3628 D5	3956 G4	6294 B4	9207 B4	SU1 A5
2182 E2	2588 C4	3181 E2	3632 D5	3961 F3	6296 B4	9209 B3	M1 C5
2183 E2	2589 C4	3182 A2	3633 D4	3962 F1	6297 C5	9210 B4	M2 C5
2184 B3	2590 C4	3183 A2	3634 D4	3963 F1	6316 H4	9211 A4	M3 D5
2185 B3	2594 C5	3184 A2	3636 D4	3965 F3	6316 G5	9214 B5	M6 F3
2186 F1	2595 C5	3185 A2	3638 D4	3966 F3	6501 E5	9216 B3	M7 F2
2187 B3	2596 C5	3186 O2	3639 D4	3969 F1	6522 D4	9220 B4	M9 G1
2171 E2	2613 A5	3187 E2	3541 D5	3970 F2	6523 D4	9223 B4	M11 B1
2172 E3	2614 B5	3188 C2	3642 E4	3972 F2	6531 D6	9224 B3	M12 B2
2173 E2	2705 E4	3189 C2	3648 E4	3975 F1	6532 D5	9225 A3	M13 C3
2174 D2	2722 F5	3190 C2	3649 D3	3976 F1	6542 E6	9226 A3	M21 A5
2175 D3	2724 F5	3191 C2	3650 D4	3977 F2	6554 D3	9228 A5	M22 A4
2176 D2	2727 F5	3192 D2	3654 C3	3980 F2	6705 E3	9229 B3	M23 B5
2177 D2	2728 F4	3193 B3	3656 D3	3981 F2	6710 F5	9236 B5	M30 F5
2180 C2	2730 F4	3194 E2	3657 D3	3982 F2	6757 E5	9237 B5	M31 E5
2181 C2	2735 F4	3195 D2	3658 C3	3983 F2	6803 F4	9241 A3	M32 F5
2182 A3	2736 F4	3196 D3	3660 C4	3984 F2	6811 F4	9243 B3	M51 C4
2183 A3	2740 F5	3197 D3	3661 C4	3985 F2	6816 G4	9247 B3	M61 A5
2185 C2	2741 F4	3198 C3	3662 C4	3986 F2	6881 G4	9261 B4	M62 A5
2186 C2	2748 F4	3199 C2	3663 D4	3991 F4	6882 G4	9264 A3	M63 B5
2187 C2	2750 F4	3200 A4	3665 D4	3992 F4	6902 F3	9266 B4	SK14 E3
2188 C2	2751 E4	3205 B3	3666 B3	6105 B1	6926 H1	9268 B4	
2189 C2	2756 F4	3206 B3	3667 C4	6150 D1	6927 H1	9269 B3	
2190 C2	2756 F4	3206 B4	3668 C4	6155 D1	6928 H1	9267 C5	
2193 E3	2757 F4	3207 B3	3669 C4	6157 D1	6932 H1	9268 B5	
2194 D3	2758 F4	3208 A3	3669 C4	6161 D1	6960 F3	9300 G4	
2197 D3	2801 F3	3208 B3	3670 D5	6162 E2	6866 F2	9301 F5	
2198 C3	2802 F3	3210 A3	3671 C5	6168 E2	6870 F1	9302 E5	
2199 D2	2816 G4	3211 A4	3672 E3	6174 C3	6871 E1	9303 E5	
2207 A4	2820 G4	3213 A4	3673 E3	6175 D2	6872 F2	9304 F5	
2210 B4	2834 F3	3214 A4	3674 C5	6182 A2	6875 F1	9305 F5	
2211 A3	2838 F3	3216 A4	3687 C4	6206 A3	6880 G2	9308 E5	
2218 A4	2838 F3	3217 A3	3688 C5	6207 A5	6883 F2	9312 G4	
2219 A4	2802 G3	3218 A3	3689 C5	6268 B4	6884 F2	9318 G5	
2236 A4	2910 G1	3219 A4	3690 C5	6316 G5	7110 B1	9325 H5	
2237 B5	2911 H1	3220 A5	3691 C5	6317 G5	7137 B2	9328 G5	
2240 A4	2914 H3	3221 B4	3694 C4	6331 F5	7138 B2	9350 F5	
2245 A4	2918 G4	3222 B3	3695 D4	6335 H5	7140 E1	9355 F5	
2250 B3	2922 H3	3223 B3	3696 C4	6338 H5	7143 E2	9501 E5	
2251 A4	2923 H3	3224 A3	3614 B5	6344 G5	7145 E1	9502 E5	
2258 B4	2925 H2	3225 A3	3615 B5	6345 F5	7147 E1	9503 D5	
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2285 B4	2928 H2	3228 A5	3707 E4	6509 E4	7165 B3	9508 D5	
2290 B4	2929 H1	3229 A3	3710 E5	6549 D3	7173 E3	9507 E5	
2282 B4	2930 G1	3230 A3	3711 E5	6561 C4	7175 E3	9508 E5	
2294 B4	2931 G3	3235 A5	3712 E4	6566 C4	7182 A2	9509 E5	
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2307 H4	2941 H4	3242 A3	3735 F4	6901 G2	7198 D3	9517 E4	
2308 G4	2943 H3	3245 A3	3736 F4	6902 G1	7198 C2	9518 D5	
2312 H4	2946 H3	3246 B3	3737 F4	6911 G1	7197 D3	9519 C5	
2313 G4	2950 G3	3247 B3	3738 F4	6916 H2	7200 A4	9520 D5	
2314 G5	2951 G3	3250 A3	3739 F5	6917 H2	7211 A4	9522 E5	
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2317 G5	2955 F2	3253 B3	3748 F4	6930 G2	7235 A5	9529 E3	
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2340 G5	2980 G2	3261 B3	3800 E4	6109 R2	7300 H4	9536 E4	
2341 G5	2981 F2	3262 B5	3801 E4	6110 B1	7325 G5	9538 D4	
2343 G5	2984 F2	3263 B5	3803 F4	6111 C1	7345 G5	9539 D4	
2344 G5	2992 F4	3264 B5	3805 E4	6112 C1	7346 G5	9540 E4	
2345 G5	3011 C5	3265 B4	3807 E3	6113 C1	7348 F5	9542 E5	
2346 G5	3101 B1	3267 B5	3812 G3	6136 B2	7501 E5	9557 C4	
2603 B5	3107 A2	3268 B5	3815 F4	6137 B2	7502 B5	9558 D4	
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2611 E4	3113 C1	3278 A5	3821 G4	6149 E1	7631 D4	9568 C3	
2613 E4	3120 B3	3279 A5	3830 F3	6150 D1	7641 D5	9569 C3	
2615 E4	3130 C2	3280 B4	3831 E3	6151 E1	7642 E4	9572 E4	
2616 E4	3135 C2	3281 A4	3832 E3	6155 E1	7655 D3	9573 C4	
2625 D4	3136 D1	3282 B4	3833 F3				
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B

B

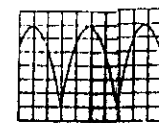
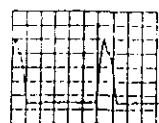
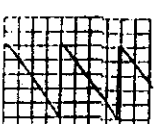
Synchronisation

Horizontal

Vertical

- SEE TABLE
- MOUNTED ON HEATSINK
- PIN NUMBER OUTSIDE FOR 21"
- PIN NUMBER OUTSIDE FOR 25/28"

CHASSIS MARK II

CL 16532042/012, BREF
12/10/912V/DIV 5ms/DIV
TP290.2V/DIV 10µs/DIV
TP312V/DIV 10µs/DIV
TP322V/DIV 10µs/DIV
TP340.5V/DIV 5ms/DIV
TP350.5V/DIV 5ms/DIV
TP361V/DIV 10µs/DIV
TP39

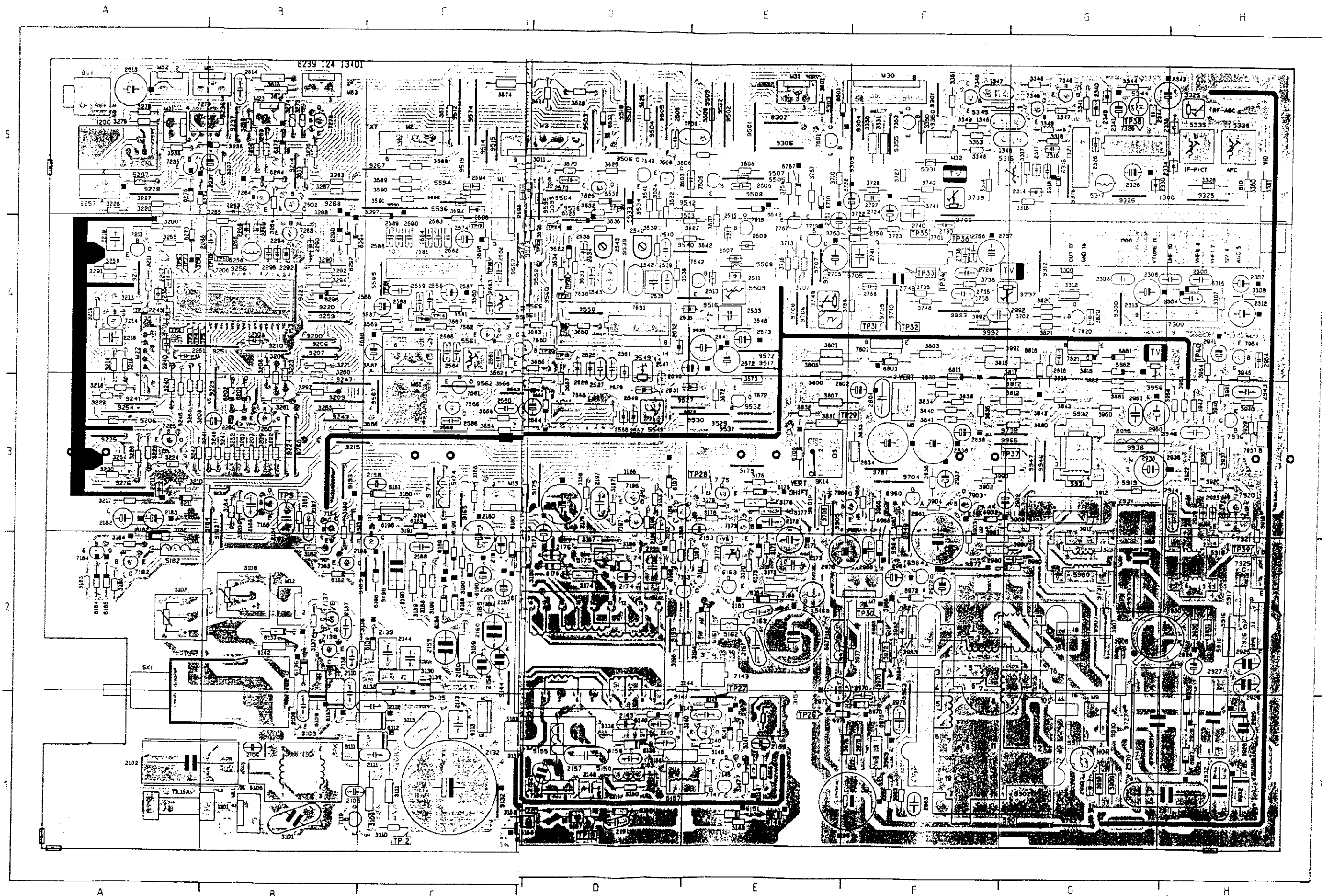
1060 Carrier Panel (Component side)

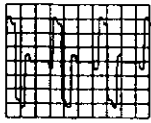
CHASSIS MK2 6.14

1101 B1	2633 E4	3144 D2	3317 G5	3802 F3	8178 D2	7903 F3	9731 G2
1200 A6	2634 D4	3148 E1	3318 G5	3803 F2	8180 C2	7920 H3	9738 G3
1266 B4	2635 D4	3147 E1	3325 H5	3804 F3	8181 C3	7921 H3	9766 F4
1300 H4	2638 D4	3148 E1	3328 H6	3808 G2	8182 B2	7925 H2	9782 G1
1321 G5	2640 D4	3150 D1	3330 F6	3807 G2	8183 C3	7928 H2	9781 F3
1346 G5	2641 E4	3152 D1	3331 F6	3808 G1	8184 A2	7938 H3	9801 E3
1348 G5	2642 D4	3153 D3	3341 G5	3809 G3	8185 A2	7937 H3	9812 G3
1347 F5	2643 E4	3154 E1	3344 G5	3810 G1	8186 C2	7964 H4	9806 E3
1601 E5	2644 D4	3155 C3	3345 G5	3811 G3	8188 C2	7966 F3	9807 G2
1642 D4	2645 E4	3156 D1	3346 G5	3812 G3	8189 C2	8108 B1	9810 G1
1643 D4	2646 E4	3157 D1	3347 G5	3816 H3	8190 C2	9132 C1	9818 H2
1644 D4	2647 D3	3158 D1	3348 F5	3820 H3	8192 D2	9141 C1	9830 G2
2102 A1	2648 D3	3159 C2	3348 F5	3822 H3	8193 C3	9144 C2	9838 G3
2106 B1	2650 C3	3158 C2	3350 F6	3828 H1	8197 D3	9155 C3	9848 G3
2108 B1	2651 D4	3180 C3	3351 F6	3830 H2	8198 C2	9174 C3	9847 G3
2109 B1	2654 D3	3181 B3	3351 F6	3831 H2	8199 C2	9175 D3	9848 F3
2110 B1	2658 D3	3182 B2	3353 F6	3836 H3	8201 B3	9179 E3	9853 F1
2111 C1	2658 D3	3183 E2	3360 H6	3836 H3	8202 B3	9182 B3	9866 G3
2112 C1	2659 C4	3184 B3	3361 H6	3838 F3	8211 A3	9183 C2	9872 F2
2113 C1	2659 C4	3185 D3	3601 E6	3837 H3	8257 A6	9184 B3	9877 F2
2132 C1	2661 C4	3168 D2	3603 D6	3839 H3	8264 B5	9193 B3	9884 F2
2137 B2	2662 C4	3167 D2	3606 E5	3840 H3	8272 B5	9198 C2	9892 F4
2138 B2	2663 C4	3168 E2	3606 E5	3841 H3	8273 A4	9199 D2	9893 F4
2139 C2	2664 C4	3169 B3	3607 E4	3845 H4	8274 A6	9200 B4	9894 F4
2140 D1	2666 C4	3170 E2	3609 E5	3846 H3	8274 A6	9206 B4	9895 F4
2143 E1	2666 C3	3171 E2	3613 B6	3847 H3	8275 A6	9207 B4	9896 F4
2144 C2	2669 C4	3172 E2	3614 D6	3850 G3	8290 B4	9209 B3	9897 F4
2148 D1	2670 D6	3173 E2	3622 D5	3951 H3	8292 B4	9210 B4	9898 F4
2149 D1	2672 E4	3174 D2	3624 D5	3954 H4	8294 B4	9211 A4	9899 F4
2150 C2	2673 E4	3176 E3	3625 D5	3955 H3	8296 B4	9214 B5	9900 F4
2151 D1	2674 C4	3176 E3	3626 D5	3956 G4	8297 C6	9216 B3	9901 F4
2152 D1	2682 C4	3177 E3	3627 E4	3961 F3	8316 H4	9220 B4	9902 F4
2153 D1	2683 C4	3178 E3	3628 D6	3962 F1	8318 G6	9220 B4	9903 F4
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2156 C2	2685 C4	3180 C2	3633 D4	3965 F3	8622 D4	9224 B3	9905 F4
2157 D1	2686 C4	3181 E2	3634 D4	3966 F3	8623 D4	9225 A3	9906 F4
2158 C2	2687 C4	3182 A2	3635 D4	3969 F1	8631 D5	9226 A3	9907 F4
2159 C2	2688 C4	3183 A2	3638 D4	3970 F2	8632 D5	9228 A5	9908 F4
2160 C2	2689 C4	3184 A2	3639 D4	3972 F2	8642 E5	9229 B3	9909 F4
2161 E2	2690 C4	3185 A2	3641 D6	3975 F1	8654 D3	9236 B5	9910 F4
2162 E2	2694 C6	3186 D2	3642 E4	3976 F1	8705 E3	9237 B5	9911 F4
2163 E2	2696 C6	3187 E2	3648 E4	3977 F2	8710 E5	9241 A3	9912 F4
2164 B3	2696 C6	3188 C2	3649 D3	3980 F2	8767 E5	9243 B3	9913 F4
2165 B3	2696 C6	3189 C2	3650 D4	3981 F2	8803 F4	9247 B3	9914 F4
2166 F1	2613 A6	3189 C2	3650 D4	3982 F2	8811 F4	9251 B4	9915 F4
2167 B3	2614 B6	3190 C2	3654 C3	3983 F2	8816 G4	9254 A3	9916 F4
2171 E2	2706 E4	3191 C2	3655 D3	3984 F2	8861 G4	9256 B4	9917 F4
2172 E2	2722 F5	3192 D2	3657 D3	3985 F2	8862 G4	9259 B4	9918 F4
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2174 D2	2727 F6	3194 E2	3660 C4	3990 F3	8926 H1	9267 C6	9920 F4
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2182 A3	2741 F4	3200 A4	3667 C4	6167 D1	8985 F2	9304 F5	9926 F4
2183 A3	2748 F4	3205 B3	3668 C4	6161 D1	8970 F1	9305 F5	9927 F4
2185 C2	2750 F4	3208 B4	3669 C4	6162 E2	8971 E1	9308 E5	9928 F4
2186 C2	2751 E4	3207 B3	3670 D6	6168 E2	8972 F2	9312 G4	9929 F4
2188 C2	2756 F4	3208 A3	3671 C5	6174 C3	8975 F1	9316 G6	9930 F4
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2207 A4	2838 F3	3218 A3	3691 C5	6335 H6	7146 E1	9604 D6	9938 F4
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2290 B4	2932 H1	3240 A3	3735 F4	6902 G1	7211 A4	9628 E3	9953 F4
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2627 D4	3139 C2	3308 H4	3845 G3	8175 E3	7821 G4	9727 G1	9990 F4
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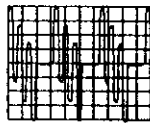
6.10 6.11 CHASSIS MK2

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2926	-	220p
2930	470n	380n
2931	-	470n
2932	39n	22n
2935	-	4μ7
2936	4μ7	-
2937	68μ	220μ
2946	8n2	4n7
2950	-	68μ
2951	-	270n
2954	22p	-
2963	15n	33n
2965	47n	-
2972	-	10μ
2980	-	2n2
2981	-	1000μ
2984	-	68μ
2992	-	470n
3902	-	1M
3903	-	10k
3904	-	1k
3905	-	680R
3907	-	100k
3908	10k	7k5
3909	200R	470R





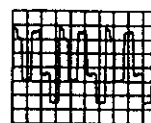
0.2V/DIV 20 μ s/DIV
TP13



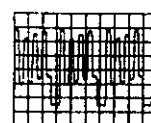
0.2V/DIV 20 μ s/DIV
TP14



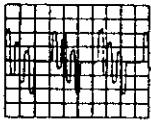
0.1V/DIV 20 μ s/DIV
TP15



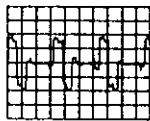
1V/DIV 20 μ s/DIV
TP16



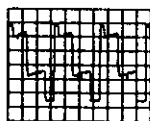
1V/DIV 20 μ s/DIV
TP17



0.2V/DIV 20 μ s/DIV
TP19

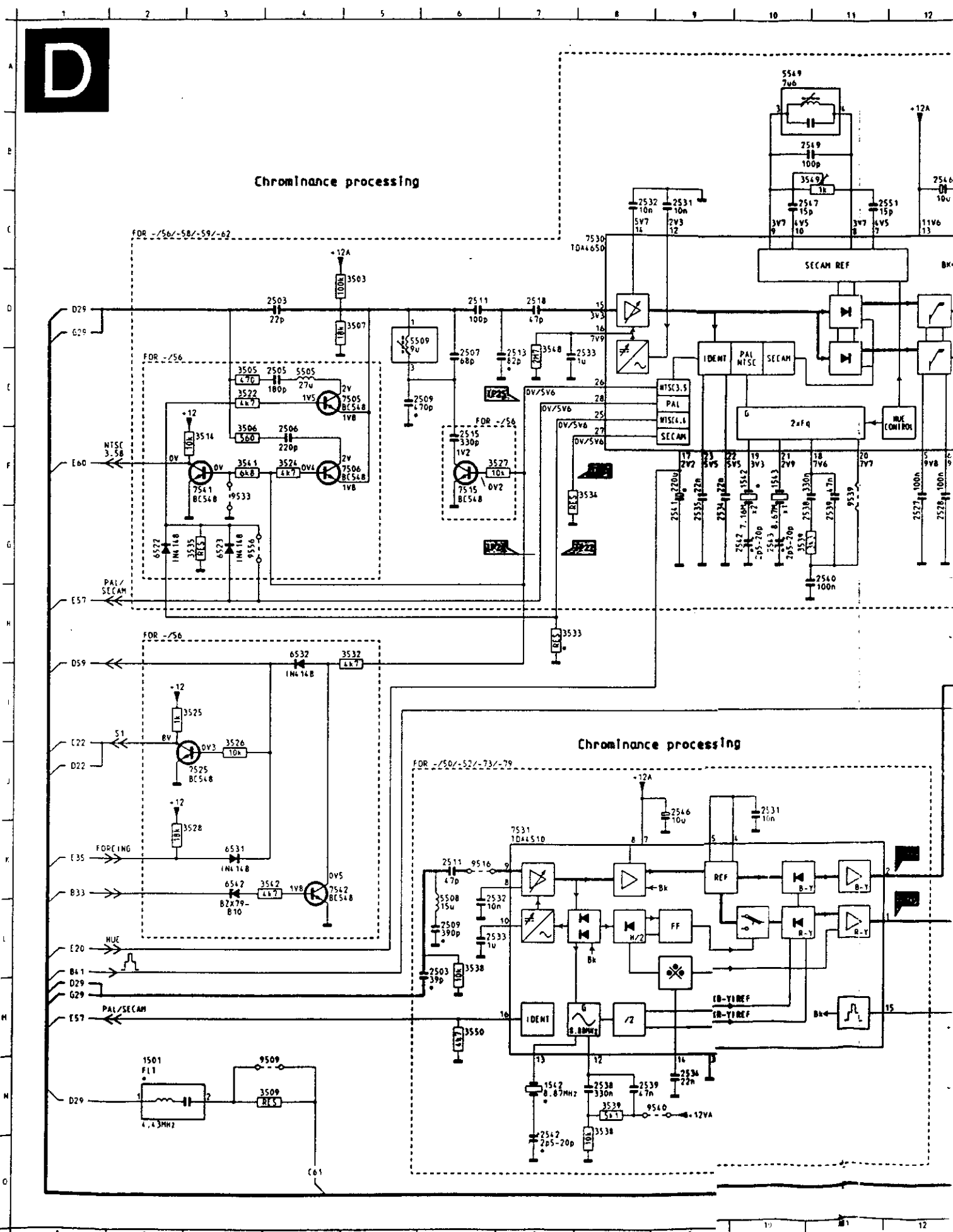


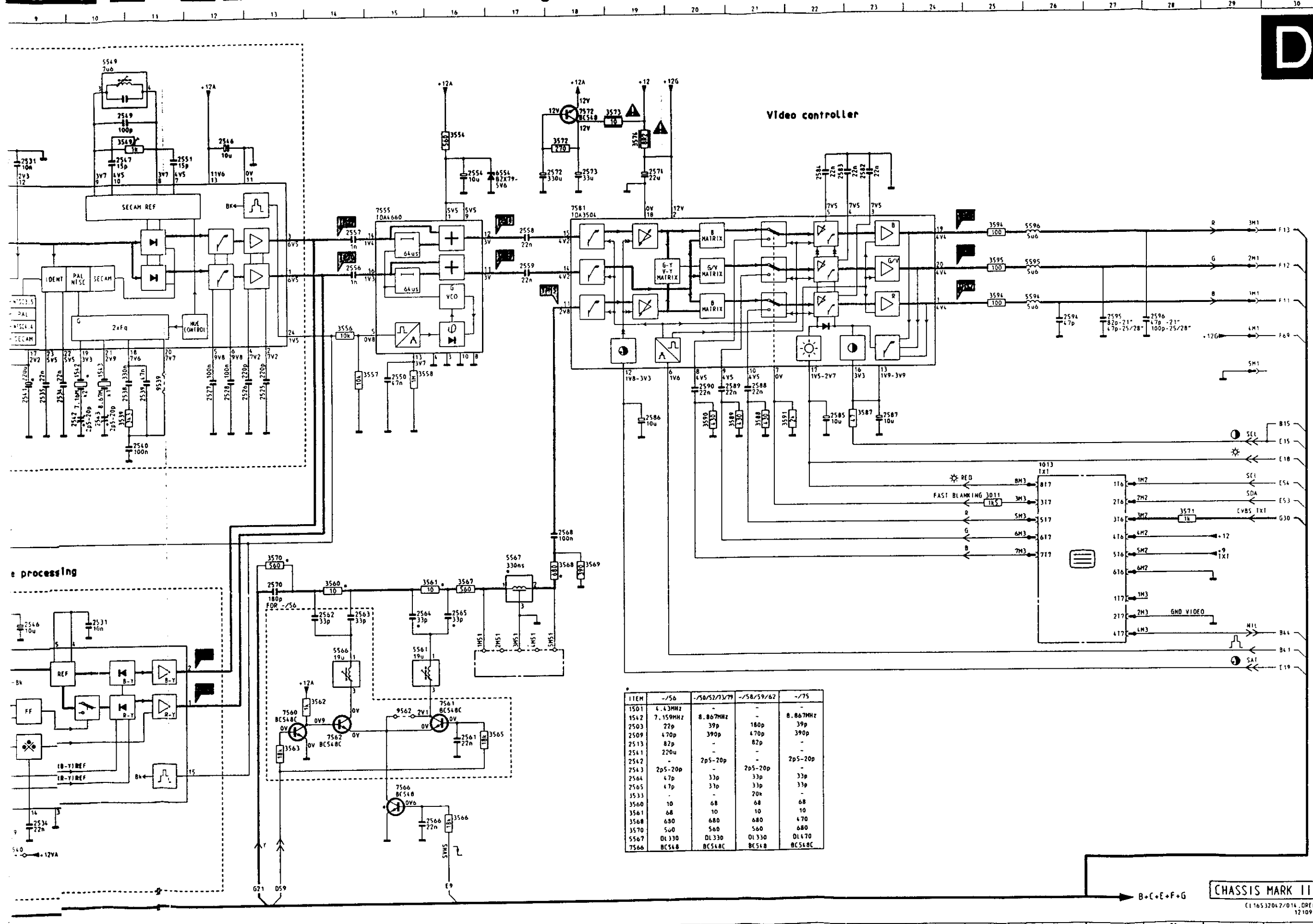
0.2V/DIV 20 μ s/DIV
TP20



1V/DIV 20 μ s/DIV
TP23

Measured with a PAL colour bar



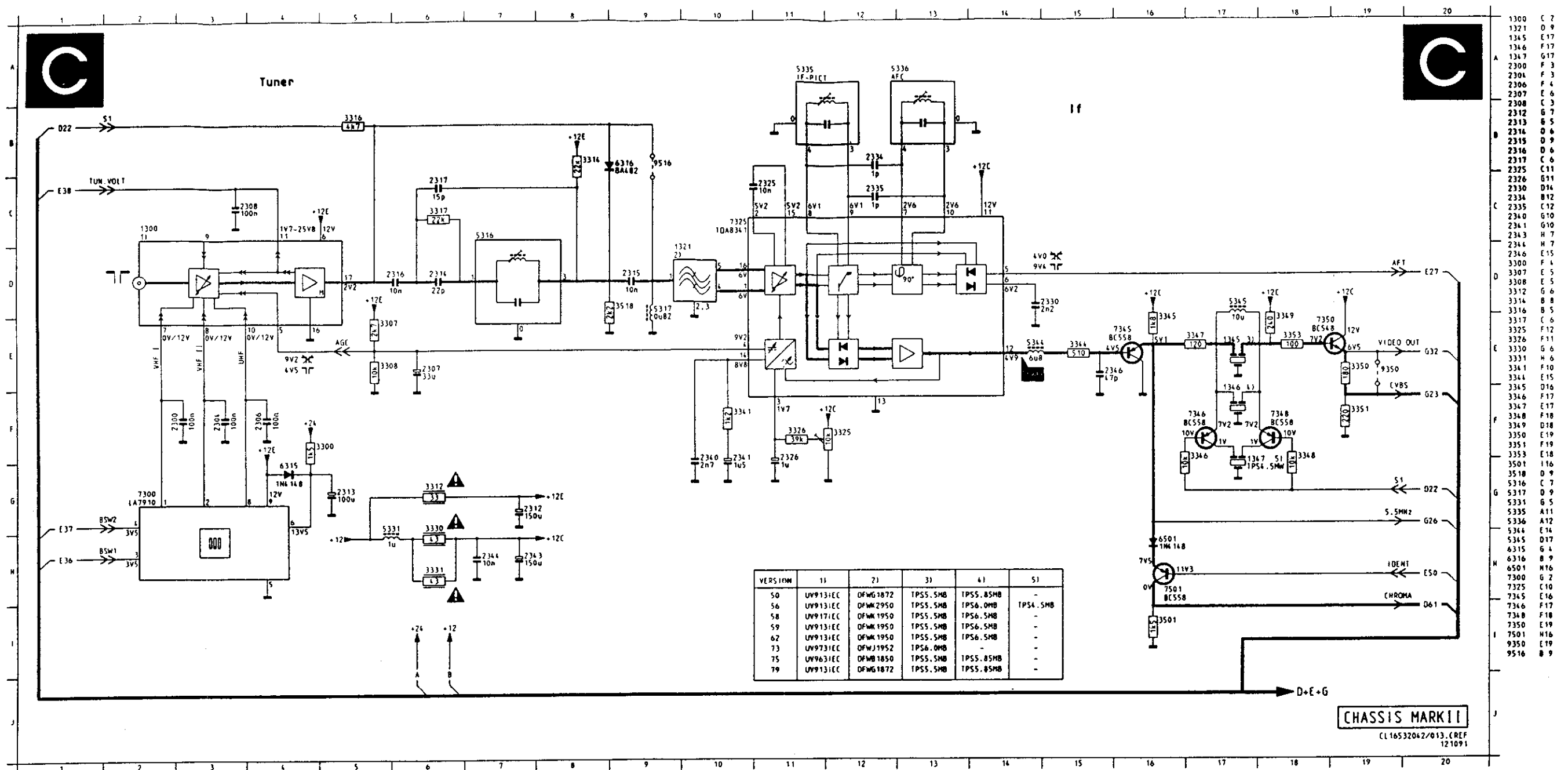


D

1013	M26	3574	B19
1501	M 2	3587	G23
1542	M 7	3588	G21
1543	F10	3589	G21
1543	F10	3590	G20
2503	D 4	3591	G22
2503	I 6	3594	D25
2505	E 4	3594	E25
2506	F 4	3595	E25
2507	E 4	3595	E 4
2509	E 5	3598	L 6
2509	I 6	3599	D 5
2511	D 6	3549	A10
2511	K 6	3561	K15
2513	E 7	3566	K16
2515	F 6	3567	J17
2518	D 7	3594	E26
2525	F13	3595	E26
2526	F13	3596	D26
2527	F12	6522	G 2
2528	F12	6523	G 3
2531	E 9	6531	K 3
2531	J10	6532	K 4
2532	E 8	6542	A 3
2532	I 6	6544	C17
2533	E 7	7505	E 4
2533	L 6	7506	F 4
2534	M 9	7515	F 6
2534	F 9	7525	J 3
2535	F 9	7530	C 8
2538	M 8	7531	K 7
2538	F11	7541	F 3
2539	M 8	7542	D15
2539	F11	7555	D15
2540	G11	7560	I13
2541	F 9	7561	I16
2542	G10	7562	I14
2542	D 7	7566	M15
2543	G10	7572	B18
2546	B12	7581	D18
2547	E10	9516	K 6
2549	B10	9533	F 3
2550	F15	9539	F11
2551	E11	9540	N 9
2554	C16	9556	G 3
2556	E14	9562	L15
2558	D17		
2559	E17		
2561	L16		
2562	J14		
2564	J14		
2564	J15		
2565	J16		
2566	M15		
2568	I18		
2570	I13		
2572	C18		
2573	C18		
2574	C19		
2582	C23		
2583	C22		
2584	C22		
2585	G22		
2586	G19		
2587	G23		
2588	G21		
2589	G20		
2590	G20		
2594	E26		
2595	C27		
2596	E28		
3011	M25		
3503	D 5		
3505	E 3		
3506	F 3		
3507	D 5		
3509	M 4		
3514	F 3		
3522	E 3		
3525	I 2		
3526	J 3		
3527	F 6		
3528	K 2		
3532	M 5		
3533	H 7		
3534	F 8		
3535	G 3		
3538	M 8		
3538	L 6		
3539	M 8		
3539	G10		
3541	F 3		
3542	K 4		
3548	D 7		
3549	B10		
3550	M 6		
3554	B16		
3556	F14		
3557	F15		
3560	J14		
3561	J16		
3562	L14		
3563	M13		
3565	L17		
3566	M16		
3567	J16		
3568	I18		
3569	I18		
3570	J13		
3571	I28		
3572	B18		
3573	B19		

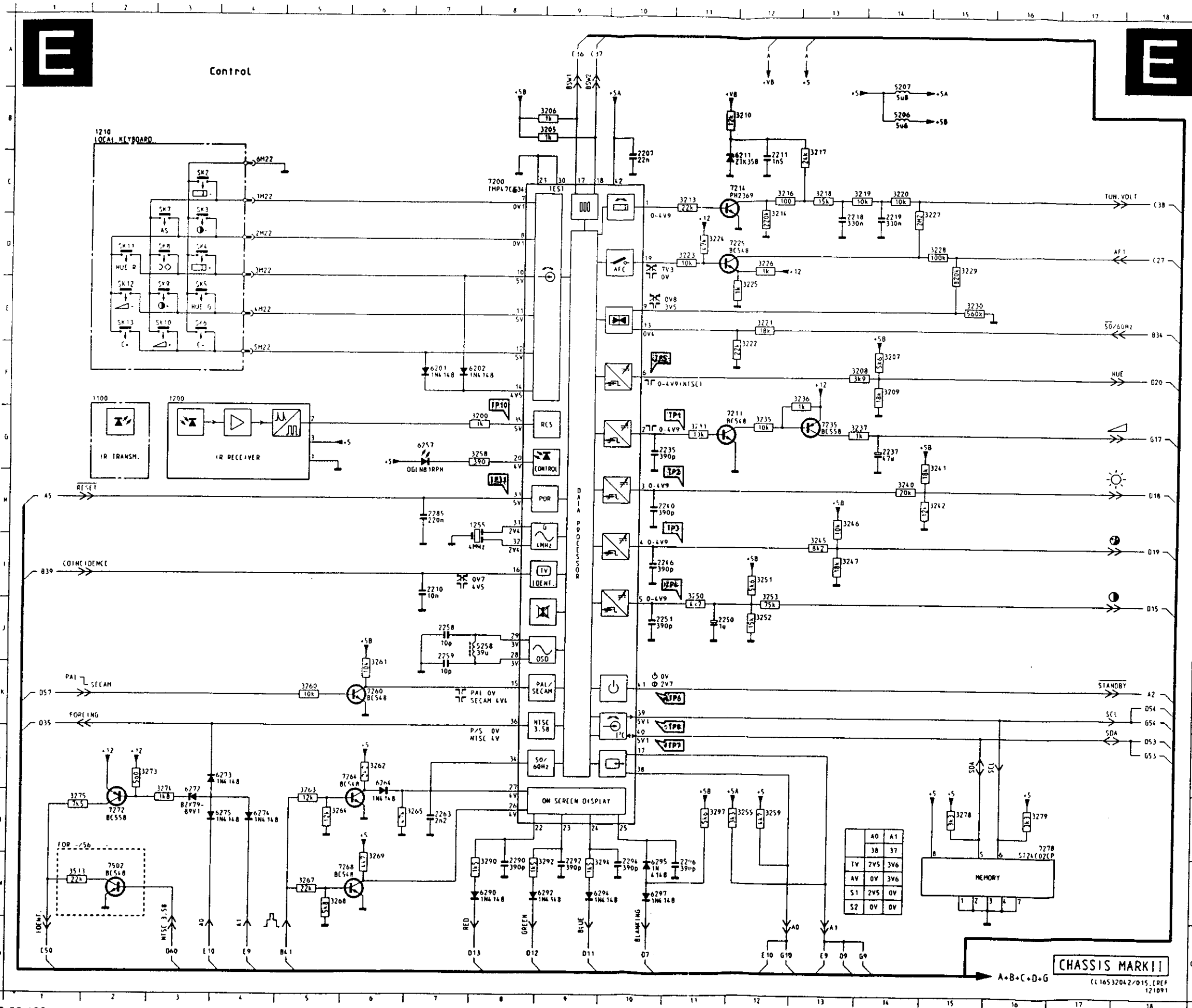
CHASSIS MARK II

CL16532047/014 DREF 121091



0.5V/DIV 20μs/DIV
TP38

Measured with a PAL colour bar

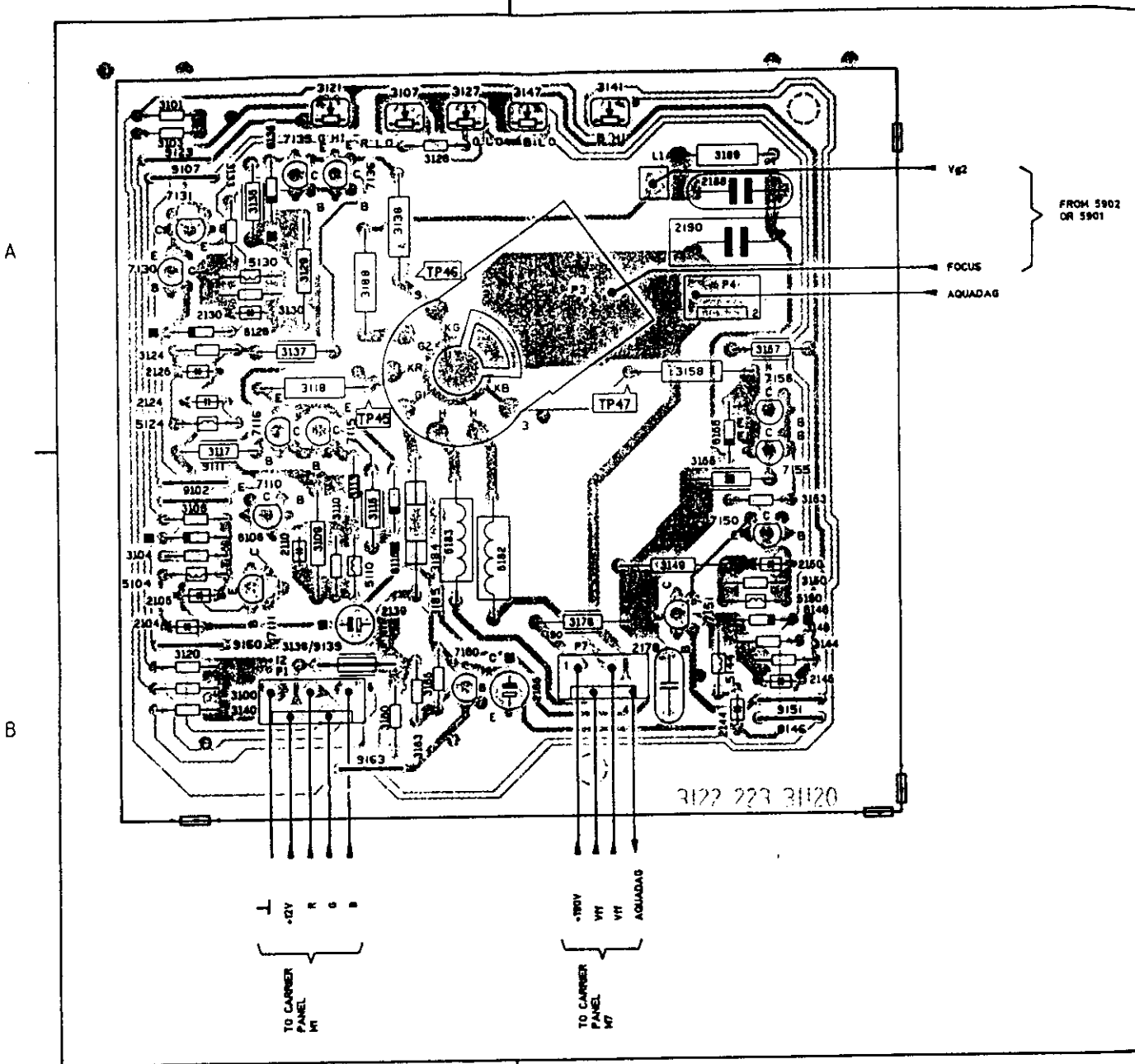


1100	F 2
1200	F 3
1210	B 2
1255	M 8
2207	C 10
2210	I 7
2211	C 12
2218	D 13
2219	D 14
2235	G 10
2237	G 14
2240	M 10
2246	M 10
2250	J 11
2251	J 10
2258	J 9
2259	J 7
2263	M 7
2285	M 7
2290	M 8
2292	M 9
2294	M 10
2296	M 11
3200	G 8
3205	B 9
3206	B 9
3207	F 14
3208	F 13
3209	F 14
3210	B 11
3211	G 11
3213	C 11
3214	C 12
3216	C 12
3217	B 13
3218	C 13
3219	C 13
3220	C 14
3221	E 12
3222	E 12
3223	D 11
3224	D 11
3225	E 12
3226	D 12
3227	C 14
3228	D 15
3229	D 15
3230	E 15
3236	F 13
3237	G 13
3240	M 14
3241	G 15
3242	M 15
3245	I 13
3246	M 13
3247	I 13
3250	I 11
3251	I 12
3252	J 12
3253	I 12
3255	M 12
3258	G 8
3259	M 12
3260	K 5
3261	J 6
3262	I 6
3263	M 5
3264	M 5
3265	M 7
3267	M 5
3268	M 5
3269	M 6
3273	L 2
3274	M 3
3275	M 1
3278	M 15
3279	M 16
3290	N 8
3292	N 9
3294	N 9
3297	M 11
3513	M 1
5206	B 14
5207	A 14
5258	J 8
6201	F 7
6202	F 7
6211	C 11
6257	G 7
6264	L 6
6272	M 3
6273	L 4
6274	M 4
6275	M 4
6290	N 8
6294	N 9
6295	M 10
6297	M 10
7200	C 8
7211	G 11
7214	C 11
7225	D 11
7235	G 13
7260	K 6
7264	L 6
7268	M 6
7272	M 2
7278	M 17
7502	N 2

1040 CRT Panel (Copper side)

CHASSIS MK2

6.24

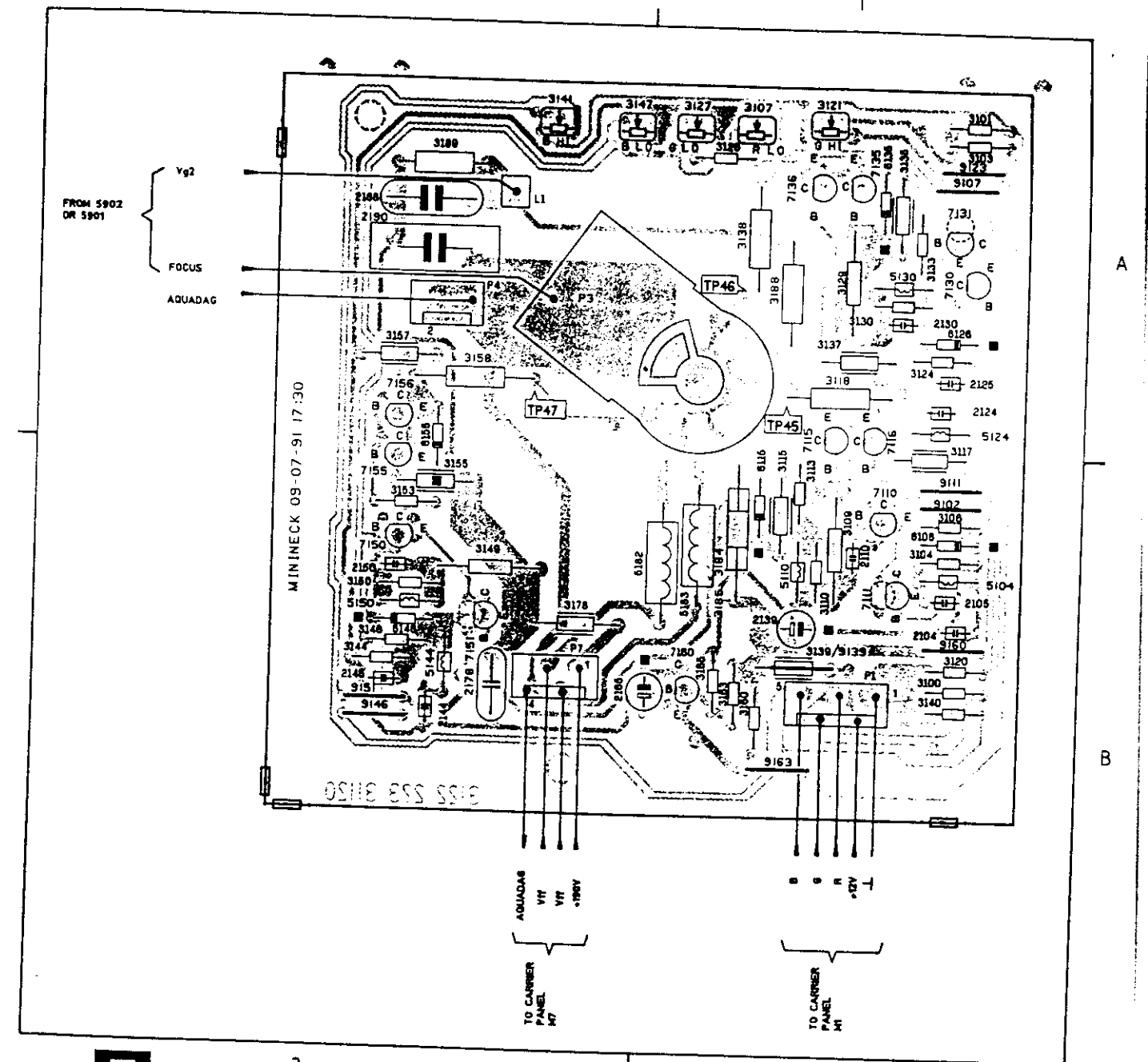


2104 B1	3138 A1	7110 B1
2105 B1	3139 B1	7111 B1
2110 B1	3140 B1	7116 A1
2124 A1	3141 A2	7118 A1
2125 A1	3144 B2	7130 A1
2130 A1	3146 B2	7131 A1
2139 B1	3147 A2	7135 A1
2144 B2	3149 B2	7136 A1
2145 B2	3150 B2	7160 B2
2160 B2	3163 B2	7161 B2
2165 B1	3166 B2	7165 B2
2188 A2	3167 A2	7168 A2
2180 A2	3168 A2	7160 B1
3100 B1	3160 B1	8102 B1
3101 A1	3163 B1	8107 A1
3103 A1	3165 B1	8111 B1
3104 B1	3178 B2	8123 A1
3109 B1	3184 B1	8139 B1
3107 A1	3185 B1	8148 B2
3109 B1	3188 A1	8161 B2
3110 B1	3189 A2	8160 B1
3113 B1	6104 B1	9163 B1
3116 B1	6110 B1	L1 A2
3117 B1	6124 A1	P1 B1
3118 A1	6130 A1	P3 A1
3120 B1	6144 B2	P4 A2
3121 A1	6150 B2	P7 B2
3124 A1	6182 B1	
3126 A1	6183 B1	
3127 A1	6108 B1	
3129 A1	6115 B1	
3130 A1	6126 A1	
3133 A1	8136 A1	
3136 A1	8146 B2	
3137 A1	8165 A2	

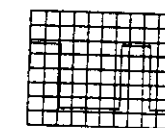
6.23

CHASSIS MK2

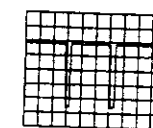
1040 CRT Panel (Component side)



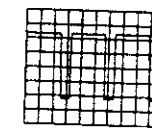
E



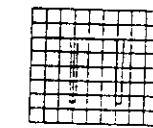
1V/DIV 5μs/DIV
TP1



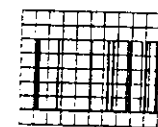
1V/DIV 10μs/DIV
TP2



1V/DIV 10μs/DIV
TP3



1V/DIV 10μs/DIV
TP4



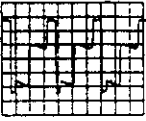
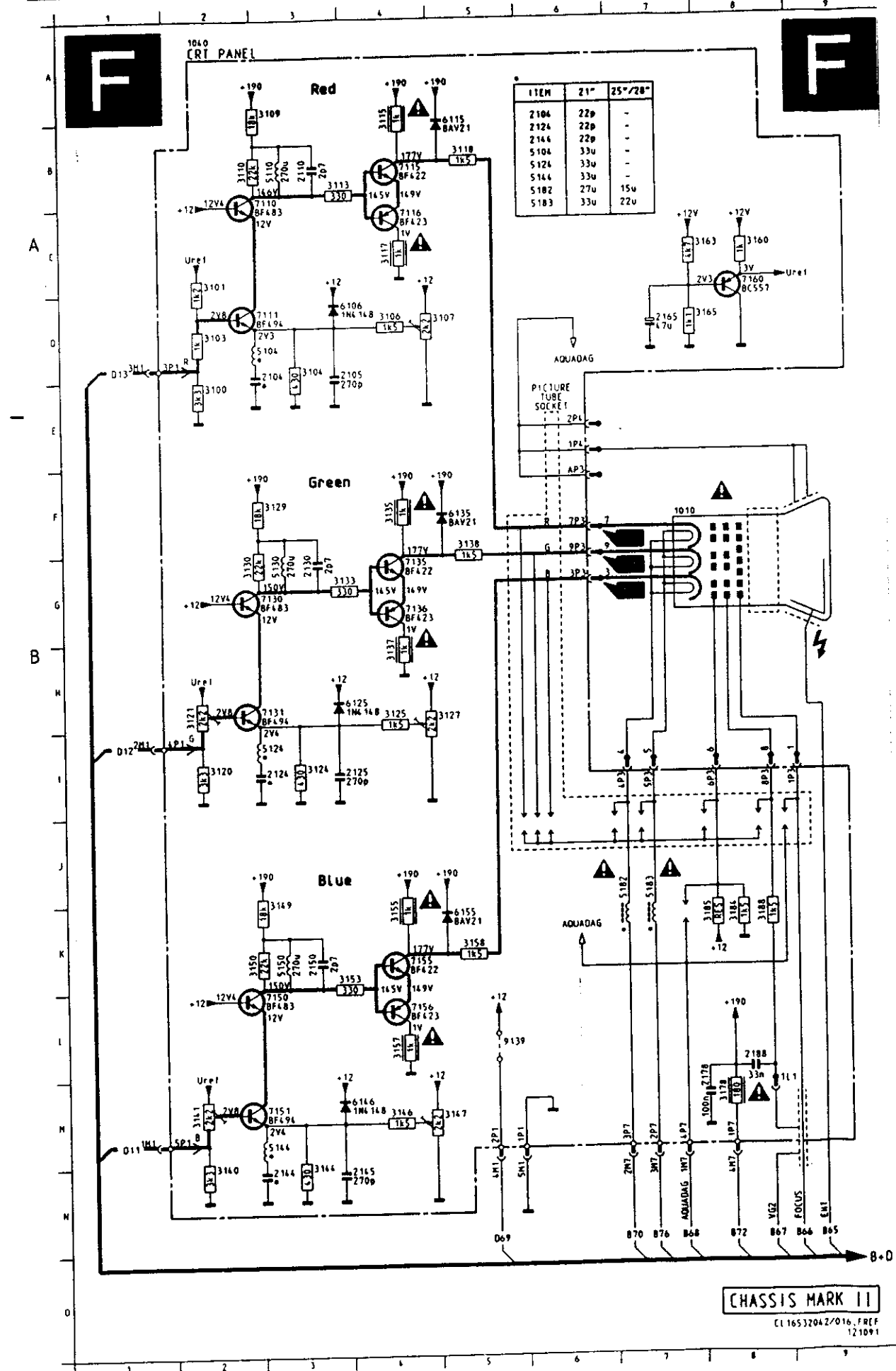
1V/DIV 0.1s/DIV
TP5

Measured at $\propto$

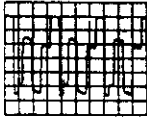
Duty cycle of squarewaves at TP1, 2, 3 and 4 depends on volume-, brightness-, saturation- and contrast settings
Duty cycle varies from 1 - 100%

6.25 CHASSIS MK2

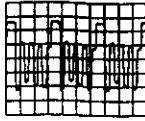
CRT Panel



20V/DIV 20μs/DIV
TP45



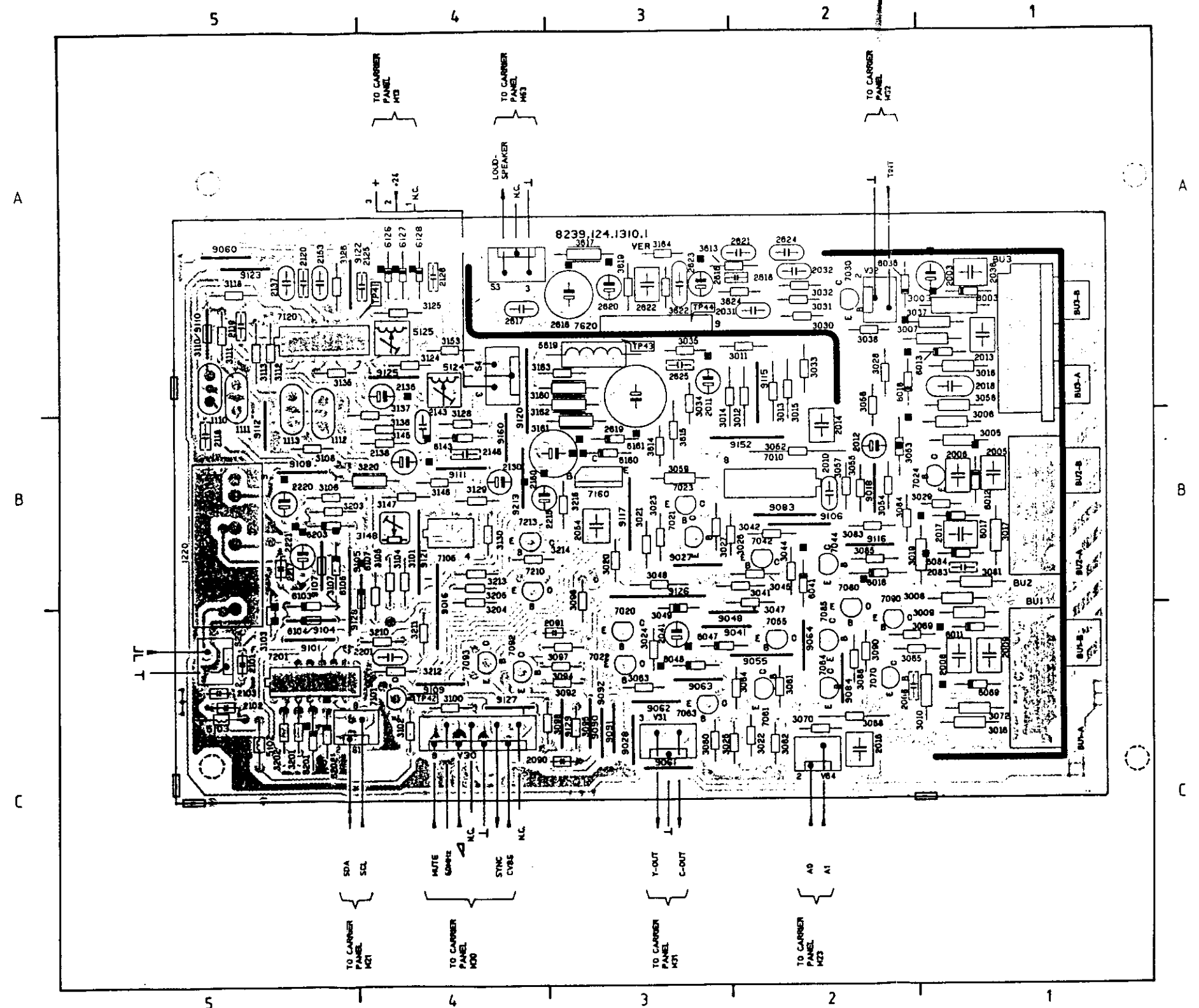
20V/DIV 20μs/DIV
TP46



20V/DIV 20μs/DIV
TP47

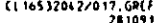
Measured with a PAL colour bar

CHASSIS MK2 **6.32**

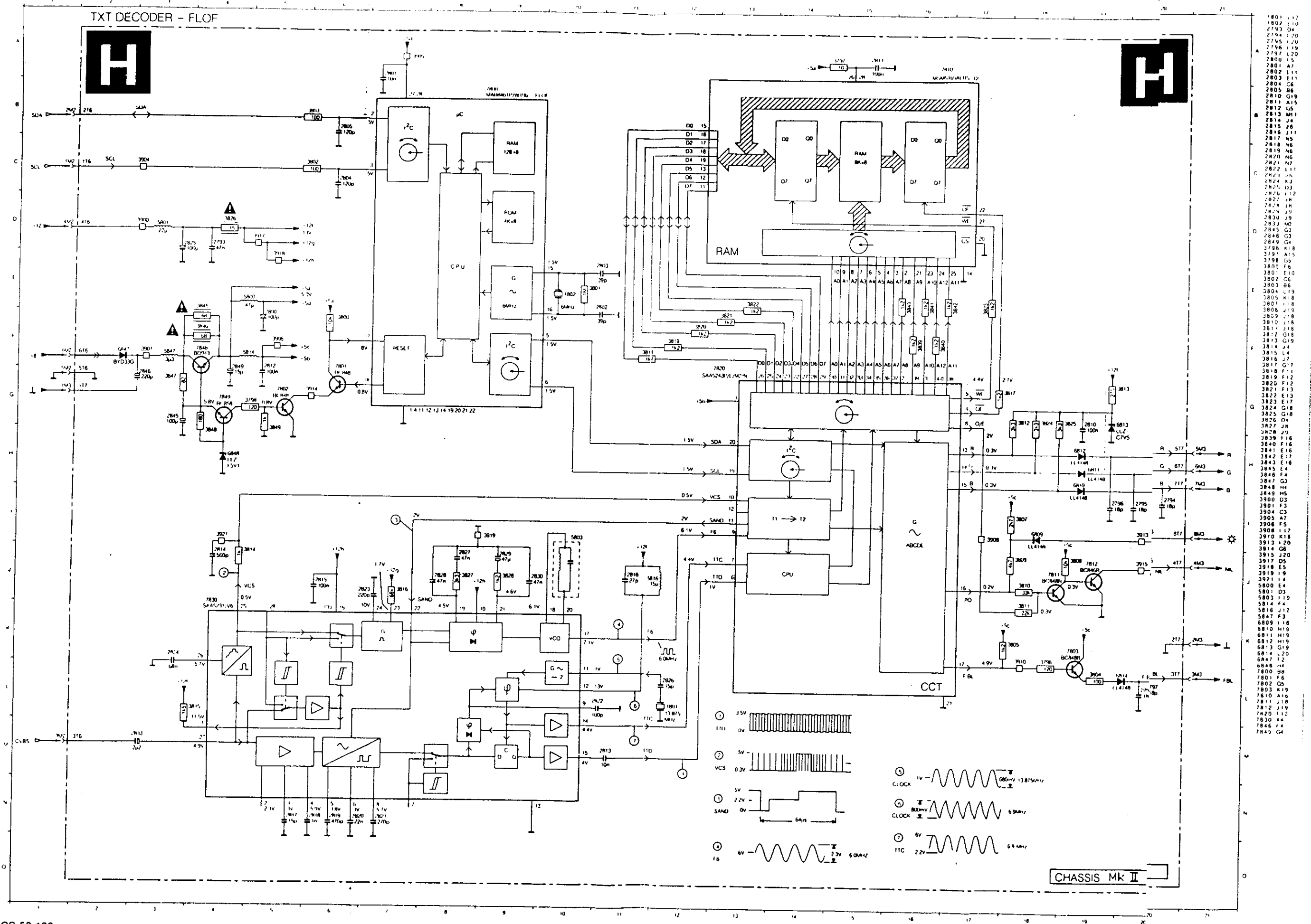


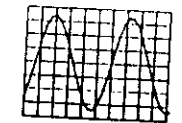
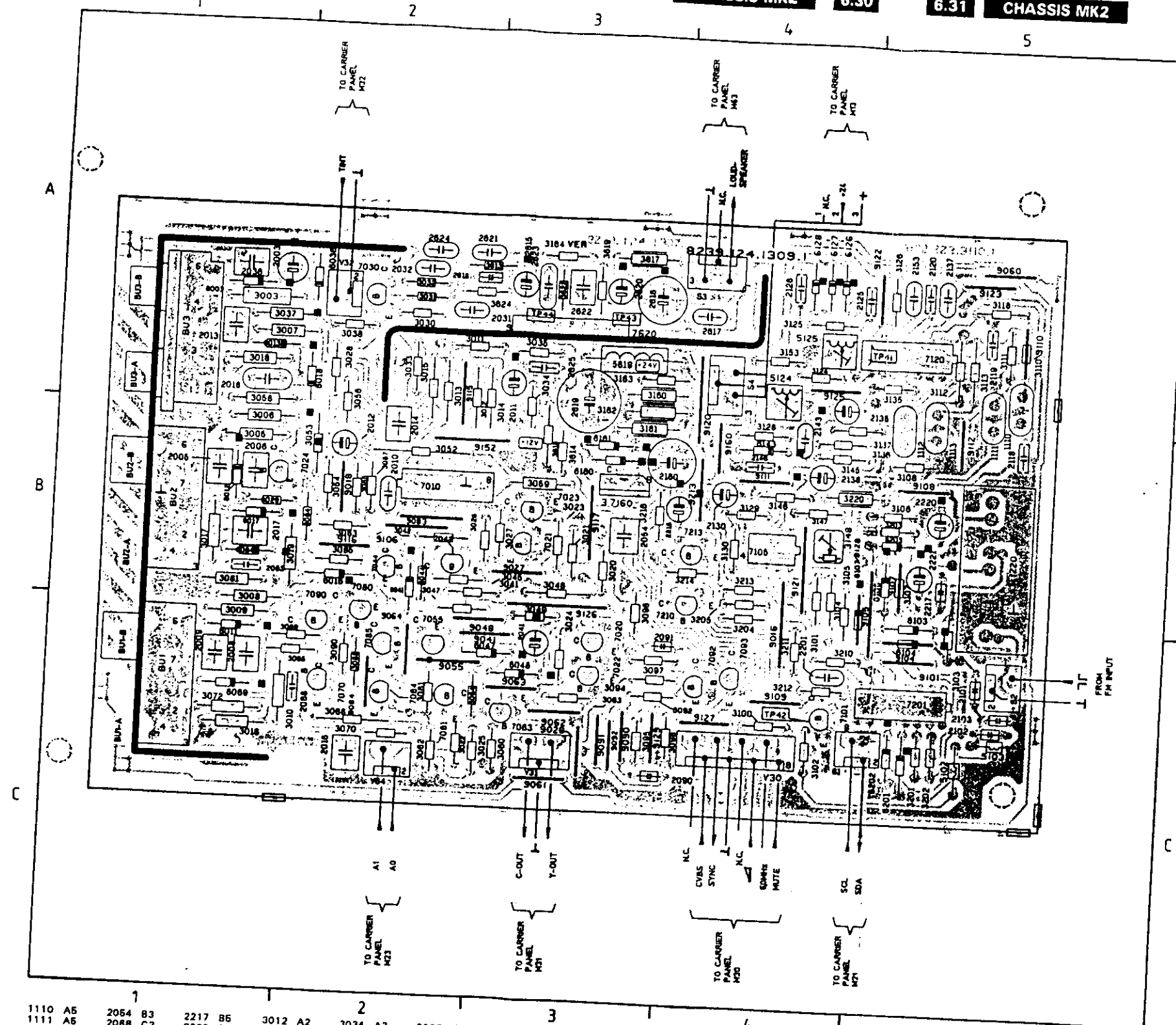
1070
WVD SCULS PANEL



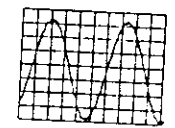


A	1070	A	2	3065	K19	7085	M21
	1110	C	7	3068	K19	7090	M20
	1111	D	7	3069	L11	7092	I25
	1112	E	7	3070	L18	7093	I26
	1113	F	7	3072	L18	7101	G
	1270	G	6	3081	M18	7105	G11
	2003	F26	3083	M17	7105	F	4
	2005	D14	3085	M18	7120	D	9
	2006	C14	3088	M18	7160	M	4
	2008	B14	3090	M18	7201	J	3
B	2009	B14	3092	I26	7210	M	7
	2010	B19	3094	M17	7213	M	8
	2011	B15	3094	M24	7620	B23	
	2012	I15	3095	I24	9055	K22	
	2013	E27	3096	M25	9090	I23	
	2014	D16	3097	I25	9091	J26	
	2016	F14	3098	I26	9104	F	5
	2017	F14	3100	G	9167	C	6
	2018	G14	3101	F	9110	C	7
	C	2031	E21	3102	O	2	9128
2032		D22	3103	O	4		
2035		A23	3104	F	4	9162	A16
2041		F21	3105	G	5		
2045		G14	3106	G	6		
2068		K18	3107	C	6		
2083		M15	3108	C	6		
2090		M25	3110	C	7		
2091		M25	3111	D	7		
D		2101	O	3	3112	E	7
	2102	O	3	3113	F	7	
	2103	O	3	3118	D	8	
	2118	E	8	3124	J11		
	2119	E	8	3125	J10		
	2120	D11	3126	L11			
	2125	K14	3128	L10			
	2126	G11	3129	G	6		
	2130	G	6	3130	G	6	
	E	2136	C10	3135	B11		
2137		G11	3136	E12			
2138		G11	3137	G11			
2143		K11	3145	J11			
2146		M12	3146	J12			
2153		F15	3147	F11			
2160		M	4	3148	F11		
2201		I	5	3153	E14		
2215		M	7	3160	G	3	
F		2217	C	5	3161	H	3
	2220	K	8	3162	M	3	
	2221	K	7	3163	I	3	
	2613	D28	3201	L	5		
	2614	D29	3202	L	5		
	2615	E24	3203	K	6		
	2616	E27	3204	K	6		
	2617	E27	3205	L	6		
	2618	E24	3210	M	6		
	G	2619	E26	3211	M	7	
2620		B24	3212	M	7		
2621		E25	3213	L	8		
2622		E24	3214	M	8		
2623		D24	3216	M	8		
2624		E22	3220	K	8		
2625		B23	3231	E25			
3003		F27	3614	E23			
3005		D14	3614	D29			
H		3006	C14	3615	D23		
	3007	E26	3615	B28			
	3008	B14	3617	D26			
	3009	B14	3619	A25			
	3010	F16	3622	D24			
	3011	B16	3624	E23			
	3012	B16	5102	O	3		
	3013	B16	5103	D	4		
	3014	B16	5124	I11			
	I	3015	B16	5125	I10		
3016		B16	5619	A26			
3017		H13	6003	F26			
3018		H13	6011	C17			
3019		F16	6012	C17			
3020		H18	6013	D17			
3021		I18	6016	F17			
3022		J17	6017	F17			
3023		J19	6018	G17			
J		3024	J19	6036	B23		
	3025	J17	6037	F20			
	3026	M20	6047	E21			
	3027	M20	6048	G21			
	3028	M17	6069	L19			
	3029	M18	6084	M15			
	3030	C21	6103	D	5		
	3031	D21	6104	E	6		
	3032	C21	6105	D	5		
	K	3033	A22	6107	E	6	
3034		C20	6126	K10			
3035		D20	6127	K10			
3037		A23	6128	L10			
3038		B22	6143	J11			
3041		F21	6160	I	4		
3042		F22	6161	I	5		
3044		G22	6201	L	2		
3045		G22	6202	L	3		
L		3047	G21	6203	K	6	
	3048	I20	7010	B18			
	3049	I21	7020	I18			
	3052	M16	7021	I19			
	3053	M16	7022	J19			
	3054	M16	7023	J20			
	3055	M16	7024	M17			
	3056	G14	7030	C22			
	3057	I16	7042	F22			
	M	3058	M15	7044	G22		
3059		G14	7055	I21			
3060		I24	7061	K22			
3061		I22	7063	I23			
3062		M21	7064	K20			
3063		I23	7070	I20			
3064		I21	7080	M19			

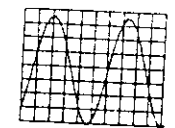




0.1V/DIV 0.2ms/DIV
TP41



2V/DIV 0.2ms/DIV
TP43 max

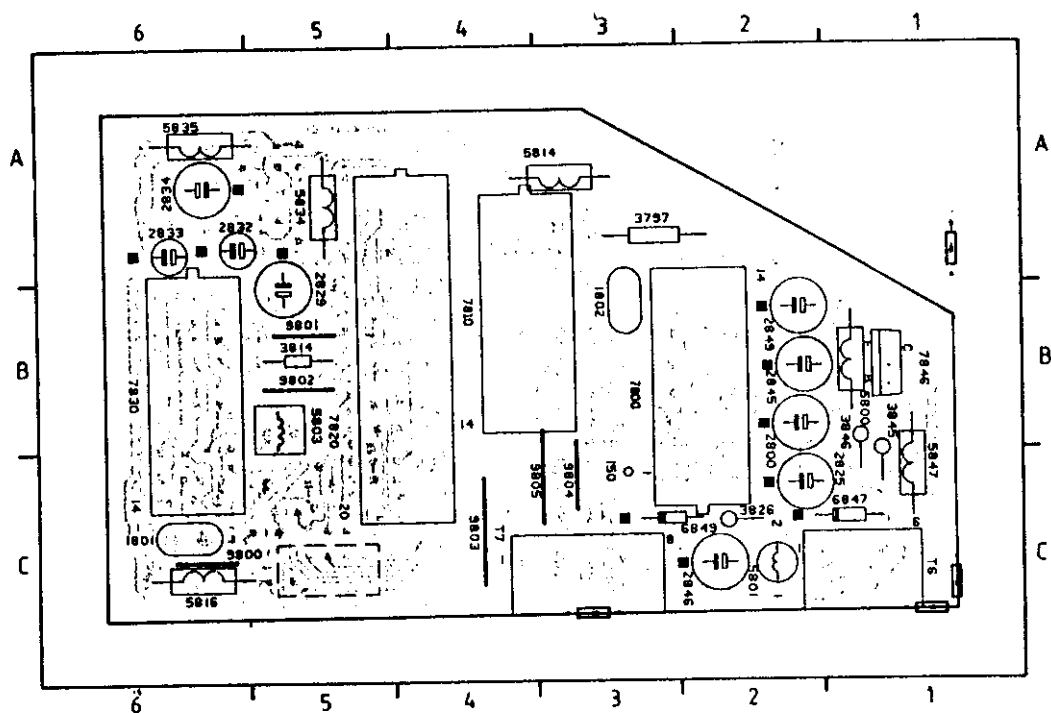


0.1V/DIV 0.2ms/DIV
TP44

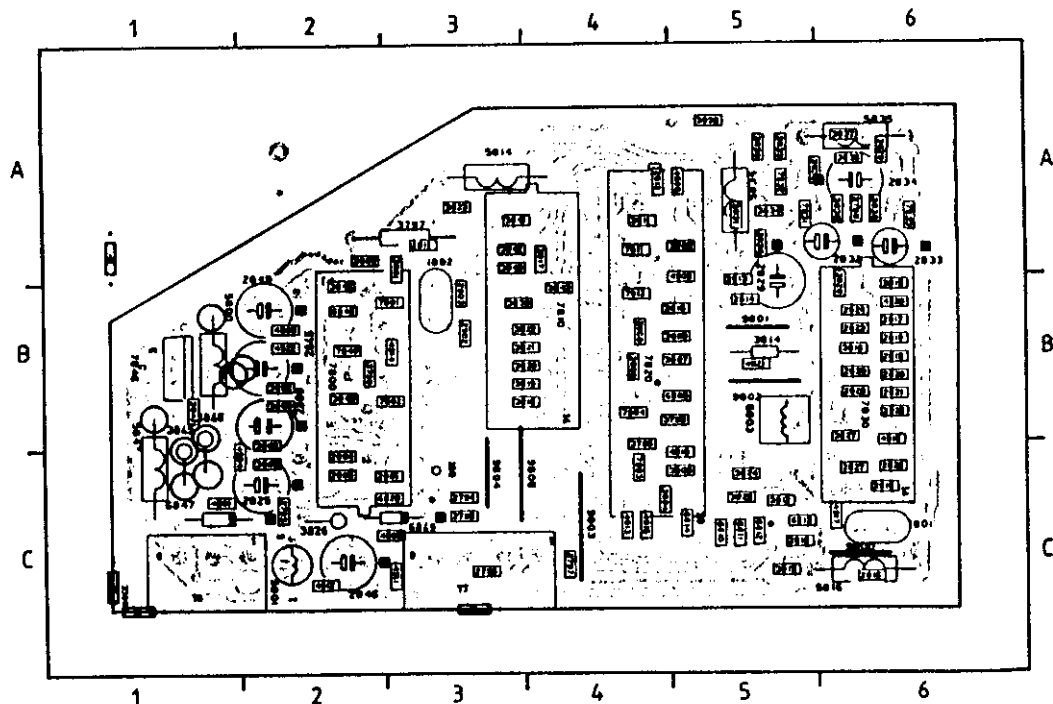
Measured
with a
PAL
colour bar
5,5 MHz

1110 A5	2054 B3	2217 B5	3012 A2	3034 A3	3063 C3	3103 C6	3147 B4	3615 B3	6084 B1	7044 B2	8028 C3	9111 B4	S3 A4
1111 A5	2088 C2	2220 B6	3013 A2	3036 A3	3064 C3	3104 B4	3148 B4	3617 A3	8103 B5	7056 C2	9041 C3	9112 B5	S4 A4
1112 B6	2083 B1	2221 B6	3014 A3	3037 A1	3065 C2	3105 B4	3153 A4	3619 A3	8104 C6	7061 C2	9048 C3	9115 A2	V30 A4
1120 B6	2080 C3	2816 A3	3016 A2	3038 A2	3068 C2	3108 B6	3160 A3	3622 A3	8105 B6	7063 C2	9055 C2	9118 B2	V31 C3
1220 C6	2091 C3	2818 A3	3018 C1	3041 B2	3069 C2	3107 B6	3161 B3	3624 A2	8107 B6	7064 C2	9060 A5	9117 B3	V32 A2
2002 A5	2101 C5	2817 A4	3017 B1	3042 B2	3070 C2	3108 B6	3162 A3	8102 C6	8128 A4	7070 C2	9061 C3	9120 A4	V84 C2
2006 B1	2102 C5	2818 A2	3018 A1	3044 B2	3072 C1	3110 A5	3163 A3	8103 C6	8128 A4	7070 C2	9062 C3	9121 B4	
2008 B1	2103 C5	2819 A3	3019 B2	3046 B2	3081 B1	3111 A5	3164 A3	8104 C6	8129 A4	7080 C2	9063 C3	9122 A5	
2008 C1	2118 B5	2820 A3	3020 B3	3047 B2	3083 B2	3112 A5	3201 C5	8124 A4	8124 A4	7085 C2	9064 C2	9123 A5	
2010 B2	2119 A5	2821 A2	3021 B3	3048 B3	3084 B2	3113 A5	3202 C5	8125 A4	8143 A4	7086 C2	9065 C3	9124 A5	
2011 A3	2120 A6	2822 A3	3022 C2	3049 C3	3085 B2	3118 A5	3203 B5	8149 A3	8180 B3	7087 C2	9066 C2	9125 A5	
2102 B2	2126 A4	2823 A3	3023 B3	3062 B2	3088 C2	3124 A4	3204 B4	8003 A1	8181 B3	7088 C4	9067 C3	9126 A5	
2013 A1	2128 A4	2824 A2	3024 C3	3063 B2	3090 C2	3125 A4	3205 B4	8011 C1	8201 C5	7101 C4	9068 C2	9127 A5	
2014 B2	2130 B4	2825 A3	3025 C3	3064 B2	3092 C3	3126 A5	3210 C4	8012 B1	8202 C6	7105 B4	9069 C3	9128 B3	
2016 C2	2137 A6	3003 A1	3026 B3	3065 B2	3094 C3	3128 B4	3211 C4	8013 A1	8203 B5	7120 A6	9070 C3	9129 C3	
2017 B1	2138 B4	3006 B1	3027 B3	3066 B2	3095 C3	3129 B4	3212 C4	8016 B2	7010 B2	7180 B3	9101 C5	9152 B2	
2018 A1	2143 B4	3008 B1	3028 A2	3067 B2	3096 C3	3130 B4	3213 B4	8017 B1	7020 C3	7210 C6	9104 C6	9160 B4	
2031 A2	2146 B4	3007 A1	3029 B1	3068 A1	3097 C3	3135 A5	3214 B4	8018 A2	7021 B3	7210 B4	9105 B6	9213 B4	
2032 A2	2163 A5	3008 B1	3030 A2	3069 B3	3098 C4	3136 B4	3218 B3	8038 A2	7022 C3	7213 B4	9106 C4	9107 B6	
2036 A1	2201 C4	3010 C1	3031 A2	3080 C3	3100 C4	3137 B4	3220 B4	8041 B2	7023 B3	7820 A3	9108 B6	9109 C4	
2041 C3	2216 B4	3011 A2	3032 A2	3081 C2	3101 B4	3146 B4	3613 A3	8047 C3	7024 B1	8018 B2	9108 C4	S1 C6	
			3033 A2	3082 C2	3102 C4	3148 B4	3614 B3	8048 C3	7030 A2	8027 B3	9110 A5	S2 C6	
								8089 C1	7042 B2				

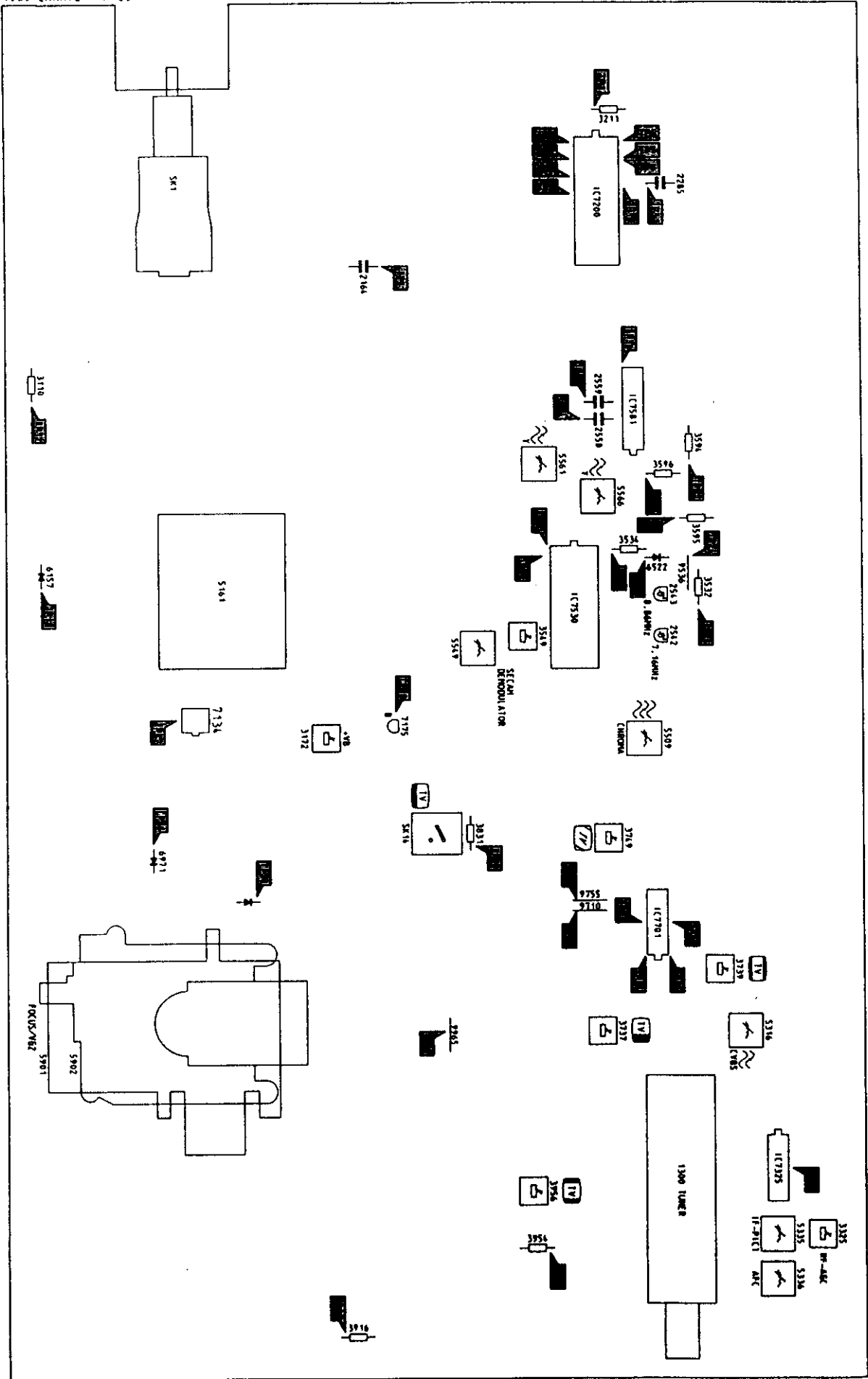
TXT Panel



1801	C8	2814	B6	2834	A6	3811	A4	3830	A6	3850	B2	6800	B1	7801	B2	9806	C4
1802	A3	2815	C6	2836	A5	3812	C6	3831	A5	3852	B2	6801	C2	7802	B2	T6	C1
2793	C2	2816	C6	2848	C2	3813	C5	3832	A5	3999	A5	6803	B6	7803	C4	T7	C3
2794	C3	2817	B6	2849	B2	3814	B6	3833	A5	4900	B2	6814	A3	7804	B4		
2795	C3	2818	B6	3795	B4	3815	B6	3834	A5	4901	C1	6816	C6	7810	B4		
2796	C3	2819	B6	3796	C4	3816	B6	3835	A6	4904	C1	6834	A6	7811	A4		
2797	C4	2820	B6	3797	A3	3817	A4	3836	A6	4905	C2	6835	A6	7812	B4		
2798	A6	2821	B6	3798	B2	3818	B3	3837	A6	4906	A6	6847	B1	7820	B4		
2800	B2	2822	B6	3800	A2	3819	B3	3838	A6	4908	B5	6809	B4	7830	B6		
2801	C2	2823	B6	3801	A3	3820	B3	3839	U3	4910	C4	6810	C5	7831	A5		
2802	B3	2824	B6	3802	B2	3821	B3	3840	A3	4911	C3	6811	C6	7832	A5		
2803	B3	2825	C2	3803	C2	3822	B3	3841	A3	4912	C2	6812	C5	7833	A6		
2804	C2	2826	C6	3804	C4	3823	A3	3842	A3	4913	C4	6813	C5	7846	B1		
2805	C2	2827	C6	3805	C4	3824	C6	3843	B4	4916	C4	6814	C5	7849	B2		
2808	B4	2828	B6	3806	B4	3825	C5	3845	B1	4917	C6	6820	C2	9800	C6		
2810	C5	2829	A5	3807	B4	3826	C2	3846	B1	4918	B6	6847	C1	9801	B5		
2811	A3	2830	B6	3808	A5	3827	B6	3847	B1	4920	B6	6848	B2	9802	B5		
2812	A4	2832	A6	3809	B4	3828	B6	3848	B2	4921	B5	6849	C3	9803	C4		
2813	B5	2833	A6	3810	B4	3829	A6	3849	B2	4922	B2	7800	B2	9804	C3		



1060 CARRIER PANEL



Note: Where the adjustment mention a generator signal, colour pattern generator PM5518 has been used.

1. Settings on the carrier panel

1.1 +147V (95V) power supply voltage

Connect a voltmeter (DC) across C2162. Adjust potentiometer 3172 to $+147V \pm 0.5V$ (25" and 28") or $95V \pm 0.5V$ (21").

1.2 Horizontal synchronization

Short circuit pin 5 of IC7701 to ground. Apply an aerial signal. Adjust potentiometer 3749 until the picture is straight. Remove the short circuit.

1.3 Horizontal centring

Set the brightness and contrast control to nominal. Adjust with potentiometer 3737.

1.4 Picture width

Is adjusted with potentiometer 3956.

1.5 Vertical centring

Is adjusted with switch SK14.

1.6 Picture height

Is adjusted with potentiometer 3739.

1.7 Focusing

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

1.8 RF AGC

If the picture of a strong local transmitter is reproduced distorted, adjust potentiometer 3325 until the picture shows no distortion.

1.9 Chroma bandpass filter

To carry out these alignments, it is recommended to have the set switched off!

a. 4.43 MHz

Connect a generator which can provide a 4.433MHz sinewave (e.g. PM5138) to resistor R3570. Set amplitude of the signal to 0.3V_{pp}. Short circuit emitter and collector of TS7561 and emitter and collector of TS7566. Connect probe to pin 11 of IC7581. Adjust L5561 for minimum amplitude of the 4.43MHz signal. Remove short circuits.

b. 3.58MHz (if applicable)

Set the generator to 3.580MHz. Short circuit emitter and collector of TS7562 and emitter and collector of TS7566. Connect probe to pin 11 of IC7581. Adjust L5566 for minimum amplitude of the 3.58MHz signal. Remove short circuits.

1.10 Circuit "Cloche": 4.286MHz (only sets with SECAM)

Use a signal generator with a colour bar according SECAM norm. Adjust L5509 until there is no distortion on the picture.

1.11 Subcarrier oscillator

a. PAL sets (TDA4510)

Apply a PAL colour signal with 4.43MHz subcarrier. Connect point 11 of IC7531 to ground. Adjust C2542 until the colour is practically stable. Remove the interconnection.

b. PAL/SECAM sets (TDA4650)

Apply a PAL colour signal with 4.43MHz subcarrier. Connect point 17 of IC7530 to ground. Adjust C2543 until the colour is practically stable. Remove the interconnection.

c. MULTI system sets (TDA4650)

Repeat setting 1.14b. Apply a NTSC colour signal with 3.58MHz subcarrier. Connect point 17 of IC7520 to ground. Adjust C2542 until the colour is practically stable. Remove the interconnection.

1.12 SECAM demodulators for PAL/SECAM sets (TDA4650)

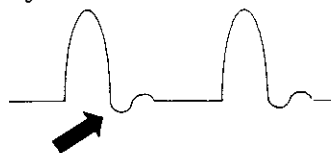
Connect a pattern generator and supply a SECAM black pattern. Connect a probe to pin 3 (B-Y) of IC7530 (channel A). Connect a probe to pin 1 (R-Y) IC7530 (channel B). Turn R3549 fully clockwise. Set L5549 to minimum amplitude of the B-Y signal (channel A). Set R3549 to minimum amplitude of the R-Y signal (channel B). Repeat these settings of L5549 and R3549 for optimal performance.

1.13 The picture demodulator

Connect a signal generator with a cross hatch. Set oscilloscope to 1μs/DIV. Connect an oscilloscope to pin 12 of IC7325 and adjust L5335 so that the overshoot response is minimum, see fig 7.1. Select a colour bar signal and verify if the picture is alright.

1.14 Alignment of I.F.-response curve

Connect a signal generator with a cross hatch. Set oscilloscope to 1μs/DIV. Connect an oscilloscope to pin 12 of IC7325 and adjust L5316 for minimum distortion and maximum amplitude of the signal.



1.15 AFC

Connect a D.C. voltmeter to pin 5 of IC7325. Short circuit base and emitter of TS7525. Connect a signal generator and adjust coil L5336 for a voltage of 6.0V $\pm$ 0.5V.

2. Settings on the CRT panel

2.1 VG2 adjustment

Connect a signal generator (e.g. PM5515) and set it to white raster pattern.

Set contrast and the Vg₂ potmeter (in line output transformer) minimum. Adjust with brightness control the top video level at pin 3 of plug P1 (on CRT panel) to the same voltage level as the emitter of transistor of transistor TS7160.

Note: store this value as Personal Preference (PP)! Pre-adjust the black level preset potmeters of each gun, 3107 (R); 3127 (G) and 3147 (B), to give a black level of 150V on pins 7,9 and 3 (RGB for 21") or pins 8,6 and 11 (RGB for 25" / 28") on the picture tube socket.

Adjust the Vg₂ potmeter until one of the colours just becomes visible. Adjust the other two guns by means of the corresponding resistors (3107, 3127 or 3147) until the colours just become visible.

2.2 White-D adjustment

Use the same signal as prescribed in 1.8. Press the PP button if the brightness setting has changed.

Set contrast to nominal.

Adjust potmeters 3121 (R-Y) and 3141 (B-Y) to have a correct White-D picture.

Note: Store nominal values for contrast, saturation and brightness as Personal Preference when settings 1.8 and 1.9 have been carried out.

3. Settings on the Vivo/Sound Module

VERSION	SOUNDCARRIER
/50 /52 /75 /79	5,5 MHz
/56	Multi 4,5 MHz/5,5 MHz/ 6,0 MHz/6,5 MHz
/58 /62	5,5 MHz/6,5 MHz
/73	Simulcast 6,0 MHz TV 10,7 MHz FM

3.1 The 5,5 MHz sound section

Apply a generator signal (PAL or SECAM B/G) whose sound carrier is (FM) modulated with a frequency of for instance 1 kHz.

Measure with an oscilloscope at pin 8 of IC7120 (oscilloscope in the AC mode) and adjust L5125 for a maximum amplitude.

3.2 The 4,5 MHz sound section

Apply a generator signal (NTSC) whose sound carrier is (FM) modulated with a frequency of for instance 1 kHz.

Measure with an oscilloscope at pin 8 of IC7120 (oscilloscope in the AC mode) and adjust L5125 for a maximum amplitude.

3.3 The 6,5 MHz sound section

Apply a generator signal (SECAM L) whose sound carrier is (FM) modulated with a frequency of for

instance 1 kHz.

Connect pin 14 of IC7120 to +12V via a 4k7 resistor. Measure the DC-voltage at pin 8 of IC7120 and take note of this voltage (say V_x). Disconnect pin 14 from the +12V.

Adjust L5124 initially to obtain a DC-voltage of approximately 8,5V on pin 7 of IC7105.

Adjust R3148 until the voltage at pin 8 of IC7120 is the measured value V_x.

Readjust L5125 and R3148 until:

- pin 7 of IC7105 = V_x V

- pin 8 of IC7120 = 8,5V

3.4 The 10,7 MHz and 6,0 MHz sound section

Apply a generator signal (PAL or SECAM B/G) whose sound carrier is (FM) modulated with a frequency of for instance 1 kHz.

Measure with an oscilloscope at pin 8 of IC7120 (oscilloscope in the AC mode) and adjust L5124 maximum amplitude for 10,7MHz and L5125 for maximum amplitude for 6,0 MHz.

4. Settings on the TXT Panel

Connect pin 22 of IC7830 to ground. Connect a frequency counter to pin 17 of IC7830 and adjust 5803 for 6,000 Mhz $\pm$ 30 kHz.

Repair tips

Error messages displayed via OSD and flashing LED
(on time is 58msec; off time is variable)

Error message on the screen	Off time (ms)	Description of error	Possible defective component
F0	58	Internal Ram	IC7200
F1	87	Timer error	IC7200
F2	116	EEPROM error	IC7273
F3	145	Simulcast error	IC7201
F4	174	TXT-error	IC7800 IC7820

Note:

If there is no picture the off time of the LED indication can be measured by means of an oscilloscope, in order to nevertheless be able to determine which error message has been generated.

CHASSIS MK2

8.1.0.1

CHASSIS MK2

Spare parts list

060 Carrier Panel

4822 267 31441	jack 3,5mm	2106	4822 128 11987	6,8pF 500V	2251	4822 122 33528	390pF 5% 50V
4822 255 41242	socket for TS7158	2109	4822 122 32769	2,2nF 1KV	2258	4822 122 32185	10pF 2% 100V
4822 265 30351	5p male (-> P1)	2110	4822 122 32769	2,2nF 1KV	2259	4822 122 32185	10pF 2% 100V
4822 267 40583	5p female (-> P1)	2111	4822 122 32769	2,2nF 1KV	2263	4822 122 33531	2n2 10% 50V
4822 265 40421	6p male (-> T8)	2112	4822 122 32769	2,2nF 1KV	2285	4822 121 41741	220nF 10% 63V
4822 267 50861	8p male (-> T7)	2113	5322 121 42386	100nF 5% 63V	2290	4822 122 33528	390pF 5% 50V
4822 265 30389	2p male (-> def1)	2132	4822 124 22351	0,33µF 50V	2292	4822 122 33528	390pF 5% 50V
4822 267 30389	2p female (-> def1)	2132	4822 124 23189	330µF 20% 400V	2294	4822 122 33528	390pF 5% 50V
4822 265 30378	4p male (-> P2)	2138	4822 122 33352	1nF 10% 1KV	2298	4822 122 33528	390pF 5% 50V
4822 267 40597	4p female (-> P2)	2137	4822 121 42472	10nF 10% 50V	2300	4822 121 42094	100nF 10% 63V
4822 265 30389	2p male (-> def1)	2138	5322 121 42485	68nF 5% 63V	2304	4822 121 42094	100nF 10% 63V
4822 267 30389	2p female (-> def1)	2138	4822 121 42472	10nF 10% 50V	2308	4822 121 42094	100nF 10% 63V
4822 265 30389	2p male (-> mains)	2139	4822 121 43047	1µF 10% 63V	2307	4822 124 40272	33µF 20% 18V
4822 267 30389	2p female (mains)	2139	4822 121 41854	150nF 5% 63V	2308	4822 121 42094	100nF 10% 63V
4822 265 30389	2p male (-> deg.)	2140	4822 128 11985	270pF 5% 50V	2312	4822 124 40195	150µF 20% 16V
4822 267 30389	2p female (-> deg.)	2140	4822 128 11974	180pF 5% 50V	2313	4822 124 42124	100µF 20% 35V
4822 264 40207	3p male (-> S4)	2143	4822 126 11973	150pF 5%	2314	4822 126 11985	27pF 5%
4822 267 40582	3p female (-> S4)	2144	4822 121 43047	1µF 10% 63V	2315	4822 122 33307	10µF 5% 50V
4822 265 20464	2p male (-> S1)	2148	4822 121 43047	1µF 10% 63V	2316	4822 122 33307	10µF 5% 50V
4822 265 20438	2p female (-> S1)	2149	4822 128 11978	470pF 10% 500V	2317	4822 126 10096	15pF 5% 50V
4822 265 20464	2p male (-> V64)	2150	4822 128 11979	27pF 5% 2KV	2325	4822 122 33307	10nF 5% 50V
4822 265 20438	2p female (-> V64)	2150	4822 128 11989	220pF 10% 2KV	2328	4822 124 40242	1µF 20% 63V
4822 267 50861	8p male (-> V30)	2151	4822 126 11958	2,2nF 10% 500V	2330	4822 122 33531	2n2 10% 50V
4822 265 40253	8p female (-> V30)	2152	4822 122 40594	470pF 10% 1KV	2334	4822 126 11293	1pF 0,25% 50V
4822 264 40207	3p male (-> V31)	2153	4822 121 41815	10nF 10% 100V	2335	4822 126 11293	1pF 0,25% 50V
4822 267 40582	3p female (-> V31)	2155	4822 122 33531	2n2 10% 50V	2340	4822 122 30057	2,7nF 10% 100V
4822 264 40207	3p male (-> LS)	2156	4822 128 11981	39pF 5% 2KV	2340	4822 122 33305	2,7nF 5% 50V
4822 267 40582	3p female (-> LS)	2156	4822 126 11988	5,6pF 5% 2KV	2341	4822 124 40243	1,5µF 20% 63V
4822 265 30389	2p male (-> LS)	2157	4822 122 32771	1,5nF 10% 2KV	2343	4822 124 40195	150µF 20% 16V
4822 267 30389	2p female (-> LS)	2159	4822 122 33284	470pF 20% 400V	2344	4822 122 33307	10nF 5% 50V
4822 264 40207	3p male (-> S3)	2159	4822 122 40602	1nF 20% 400V	2346	4822 122 33292	47pF 5% 50V
4822 267 40582	3p female (-> S3)	2160	4822 122 40602	1nF 20% 400V	2503	4822 122 33291	39pF 5% 50V
Various		2161	4822 122 33824	2,2nF 10% 1KV	2503	4822 122 33524	22pF 5% 50V
4822 177 10964	SWITCH SK14	2162	4822 124 22349	100µH 10% 160V	2505	4822 122 33296	180pF 5% 50V
4822 258 91573	LED HOLDER	2163	4822 128 11977	120pF 5% 500V	2508	4822 126 11328	220pF 5%
4822 218 21057	KEYBOARD ASSY	2164	4822 121 51115	270nF 10% 63V	2507	4822 122 33855	68pF 5% 50V
4822 410 81853	BUTTON PUSH	2165	5322 121 42485	68nF 5% 63V	2509	4822 122 33528	390pF 5% 50V
4822 403 70538	BRACKET TXT	2166	4822 124 22349	100µH 10% 180V	2509	4822 128 11975	470pF 5%
4822 258 30274	HOLDER FUSE	2167	4822 122 40608	22nF 20% 50V	2511	4822 122 33292	47pF 5% 50V
4822 278 13193	MAINS SWITCH	2171	4822 124 40196	220pF 20% 16V	2511	4822 126 11972	100pF 5%
4822 070 33152	FUSE T 3.15A	2172	4822 122 40608	22nF 20% 50V	2513	4822 122 31237	82pF 2% 100V
4822 212 22983	INFRA RED RDS	2173	4822 121 51115	270nF 10% 63V	2515	4822 122 33526	330pF 5% 50V
4822 242 72527	4.00MHz RESON.	2174	4822 126 11135	1nF 10% 500V	2516	4822 122 33292	47pF 5% 50V
4822 210 10459	UV9131EC	2175	5322 124 41468	1000µF 20% 40V	2525	4822 122 33299	220pF 5% 50V
4822 210 10462	UV9531EC	2176	4822 122 33531	2n2 10% 50V	2526	4822 122 33299	220pF 5% 50V
4822 210 10483	UV9731EC	2177	4822 124 22808	68µF 20% 18V	2527	4822 121 42094	100nF 10% 63V
4822 210 10405	UV9171EC	2180	4822 124 40432	1500µF 20% 25V	2528	4822 121 42094	100nF 10% 63V
4822 242 81078	OPWG1872	2181	4822 122 33531	2n2 10% 50V	2531	4822 122 33307	10nF 5% 50V
4822 242 72197	OPWK2950	2182	4822 124 40178	100µF 20% 10V	2532	4822 122 33307	10nF 5% 50V
4822 242 70938	OPWJ1952	2183	4822 124 40178	100µF 20% 10V	2533	4822 121 43047	1µF 10% 63V
4822 218 20541	OPWB1950	2185	4822 122 33531	2n2 10% 50V	2534	4822 122 40808	22nF 20% 50V
4822 242 71813	OPWK1950	2186	4822 124 40435	10µF 20% 50V	2535	4822 122 40808	22nF 20% 50V
4822 242 72088	5.5 MHz	2187	4822 124 40435	10µF 20% 50V	2538	4822 121 51244	330nF 5% 50V
4822 153 30025	6.0 MHz	2188	5322 121 42489	33nF 5% 250V	2539	4822 121 51399	47nF 10% 50V
4822 242 81079	5.850 000 MHz	2190	4822 121 51099	22nF 1% 63V	2540	4822 121 42094	100nF 10% 63V
4822 153 30025	6.0 MHz	2193	4822 122 33302	1nF 5% 50V	2541	4822 124 41554	22µF 20% 10V
4822 242 71375	6.5 MHz	2196	4822 122 40608	22nF 20% 50V	2542	4822 125 50534	20pF 150V
4822 242 71207	4.5 MHz	2197	4822 121 51115	270nF 10% 63V	2543	4822 125 50534	20pF 150V
4822 242 81077	4.430 000 MHz	2198	4822 122 33531	2n2 10% 50V	2546	4822 124 40435	10µF 20% 50V
4822 242 70304	8,867238 MHz	2199	4822 121 51252	470nF 5% 63V	2547	4822 126 10096	15pF 5% 50V
4822 242 70738	7,159090 MHz	2207	4822 122 40606	22nF 20% 50V	2549	4822 122 33293	100pF 5% 50V
4822 242 70304	8,867238 MHz	2210	4822 122 33307	10nF 5% 50V	2550	4822 121 51399	47nF 10% 50V
4822 242 73552	14,875 000 MHz	2211	4822 122 33303	1,5nF 5% 50V	2551	4822 126 10098	15pF 5% 50V
4822 242 71508	6.0 MHz	2218	4822 121 51244	330nF 5% 50V	2554	4822 124 40435	10µF 20% 50V
		2219	4822 121 51244	330nF 5% 50V	2558	4822 122 33302	1nF 5% 50V
		2235	4822 122 33528	390pF 5% 50V	2558	4822 122 33399	1nF 20% 63V
		2237	4822 124 41506	47µF 20% 16V	2557	4822 122 33302	1nF 5% 50V
		2240	4822 122 33528	390pF 5% 50V	2557	4822 122 33399	1nF 20% 63V
		2245	4822 122 33528	390pF 5% 50V	2558	4822 122 40606	22nF 20% 50V
		2250	4822 124 40242	1µF 20% 63V	2559	4822 122 40606	22nF 20% 50V

Spare parts list

CHASSIS MK2 10.2

1060 Carrier Panel

2501	4822 122 40608	22nF 20% 50V	2818	5322 122 31847	1nF 10% 63V	3110	4822 116 52249	1k8 5% 0.5W
2562	4822 122 33289	33pF 5% 50V	2819	4822 122 31727	470pF 5% 63V	3111	4822 053 10883	68k 5% 1W
2563	4822 122 33288	33pF 5% 50V	2820	4822 122 31797	22nF 10% 63V	3113	4822 116 40222	PTC 270
2564	4822 122 33289	33pF 5% 50V	2820	4822 122 33307	10nF 5% 50V	3120	4822 116 52276	3k8 5% 0.5W
2564	4822 122 33292	33pF 5% 50V	2821	4822 122 32142	270pF 5% 63V	3130	4822 053 11224	22k 5% 2W
2565	4822 122 33289	33pF 5% 50V	2822	4822 122 31765	100pF 5% 50V	3135	5322 113 41021	0.1 10% 3.5W
2565	4822 122 33292	33pF 5% 50V	2823	4822 122 31895	220pF 5% 63V	3138	4822 053 11154	150k 5% 2W
2566	4822 122 40608	22nF 20% 50V	2824	4822 122 32891	68nF 10% 63V	3137	4822 116 52298	6k8 5% 0.5W
2568	4822 121 42094	100nF 10% 63V	2825	4822 124 41525	100pF 20% 25V	3138	4822 116 52175	100Q 5% 0.5W
2570	4822 128 11976	270pF 5% 50V	2828	4822 122 32504	15pF 5% 50V	3138	4822 116 52298	6k8 5% 0.5W
2572	4822 124 40849	330pF 20% 16V	2827	4822 122 32542	47nF 10% 63V	3139	4822 116 52175	100Q 5% 0.5W
2573	4822 124 40272	33pF 20% 16V	2828	4822 122 32542	47nF 10% 63V	3139	4822 116 52222	390Q 5% 0.5W
2574	4822 124 22833	22pF 20% 35V	2829	4822 124 41506	47pF 20% 16V	3140	4822 116 52288	5k1 5% 0.5W
2582	4822 122 40608	22nF 20% 50V	2830	4822 122 32542	47nF 10% 63V	3141	4822 116 52284	47k 5% 0.5W
2583	4822 122 40608	22nF 20% 50V	2833	4822 124 41578	2.2uF 20% 50V	3142	4822 050 22704	270k 1% 0.6W
2584	4822 122 40608	22nF 20% 50V	2834	4822 124 41886	1uF 20% 35V	3144	4822 116 52284	47k 5% 0.5W
2585	4822 124 41456	10uF 20% 63V	2834	4822 124 42335	200pF 20% 50V	3146	4822 116 52224	470Q 5% 0.5W
2586	4822 124 41456	10uF 20% 63V	2836	4822 124 42335	200pF 20% 50V	3147	4822 116 52175	100Q 5% 0.5W
2587	4822 124 40435	10pF 20% 50V	2836	4822 124 41886	1uF 20% 35V	3148	4822 116 52215	220Q 5% 0.5W
2588	4822 122 40608	22nF 20% 50V	2838	4822 124 22806	68pF 20% 16V	3150	4822 116 52186	22Q 5% 0.5W
2589	4822 122 40608	22nF 20% 50V	2838	4822 124 40433	47pF 20% 25V	3152	4822 116 52287	30k 5% 0.5W
2590	4822 122 40606	22nF 20% 50V	2845	4822 124 40178	100uF 20% 10V	3153	4822 116 52175	100Q 5% 0.5W
2594	4822 122 33292	47pF 5% 50V	2848	4822 124 41554	220pF 20% 10V	3154	4822 113 80579	120Q 10% 7W
2595	4822 122 33292	47pF 5% 50V	2849	4822 124 21212	15pF 20% 40V	3155	4822 116 52199	68Q 5% 0.5W
2595	4822 122 33293	100pF 5% 50V	2902	4822 124 40242	1uF 20% 63V	3156	4822 053 11102	1k 5% 2W
2596	4822 122 33292	47pF 5% 50V	2910	4822 128 11958	2.2nF 10% 500V	3157	4822 111 91881	27Q 5% 5W
2596	4822 122 33293	100pF 5% 50V	2910	4822 128 11959	3.9nF 10% 500V	3158	4822 116 52175	100Q 5% 0.5W
2613	4822 124 41376	4.7uF 20% 50V	2911	4822 121 40518	100nF 10% 250V	3159	4822 053 21475	4.7M 5% 0.5W
2614	4822 122 33252	1nF 10% 1KV	2914	4822 121 41689	100nF 10% 250V	3160	4822 053 11122	1.2k 5% 2W
2705	4822 124 40198	220pF 20% 16V	2922	4822 126 11957	1.2nF 10% 500V	3181	4822 116 52175	100Q 5% 0.5W
2722	4822 124 22833	22pF 20% 35V	2925	4822 122 31895	1nF 10% 2KV	3162	4822 116 52182	15Q 5% 0.5W
2724	4822 124 40242	1uF 20% 63V	2925	4822 122 50078	560pF 10% 2KV	3163	4822 053 10473	47k 5% 1W
2727	4822 122 33299	220pF 5% 50V	2928	4822 122 32569	220pF 10% 2KV	3164	4822 116 52278	3k9 5% 0.5W
2728	4822 121 42094	100nF 10% 63V	2927	4822 122 33382	9.1nF 5% 2KV	3165	4822 050 24701	40Q 1% 0.6W
2730	4822 122 33304	1.8nF 5% 50V	2928	4822 124 40756	1uF 20% 100V	3166	4822 053 10108	10 5% 1W
2730	4822 122 33529	1.2nF 10% 50V	2930	4822 121 42376	470nF 5% 250V	3167	4822 053 10108	10 5% 1W
2735	4822 121 42094	100nF 10% 63V	2930	4822 121 43888	360nF 5% 250V	3168	4822 050 21024	102k 1% 0.6W
2736	4822 122 33527	100pF 10% 50V	2931	4822 121 42917	470nF 5% 200V	3168	4822 050 21624	162k 1% 0.6W
2740	4822 121 51244	330nF 5% 50V	2932	4822 121 40488	22nF 10% 400V	3169	4822 050 11002	1k 1% 0.4W
2741	4822 121 51244	330nF 5% 50V	2932	4822 121 43137	39nF 10% 250V	3170	4822 050 17502	7.5k 1% 0.4W
2748	4822 121 42937	2.7uF 1% 250V	2935	4822 124 40769	4.7uF 20% 100V	3171	4822 116 52233	10k 5% 0.5W
2750	4822 121 42094	100nF 10% 63V	2936	4822 124 41376	4.7uF 20% 50V	3172	4822 100 11349	1k 30% LIN
2751	4822 124 22633	22uF 20% 35V	2937	4822 124 40435	10uF 20% 50V	3173	4822 116 52226	560Q 5% 0.5W
2756	4822 122 33307	10nF 5% 50V	2941	4822 124 40242	1uF 20% 63V	3174	4822 052 10108	10 5% 0.33W
2757	4822 124 41525	100uF 20% 25V	2943	4822 121 42007	100nF 10% 100V	3175	4822 116 52233	120k 5% 0.5W
2758	4822 126 10334	470pF 10% 50V	2943	4822 121 42094	100nF 10% 63V	3175	4822 116 52304	82k 5% 0.5W
2793	4822 122 32542	47nF 10% 63V	2946	4822 121 42081	8.2nF 10% 400V	3176	4822 116 52211	150Q 5% 0.5W
2794	4822 122 31769	18pF 5% 50V	2946	4822 121 43343	4.7nF 10% 400V	3177	4822 050 24992	4.99k 1% 0.6W
2795	4822 122 31769	18pF 5% 50V	2950	4822 124 40744	68pF 20% 40V	3177	4822 050 25432	5.49k 1% 0.6W
2796	4822 122 31769	18pF 5% 50V	2951	4822 121 41911	270nF 10% 63V	3178	4822 050 21184	118k 1% 0.6W
2797	4822 122 31769	18pF 5% 50V	2954	4822 122 33524	22pF 5% 50V	3178	4822 050 26803	68k 1% 0.5W
2800	4822 124 40178	100uF 20% 10V	2963	5322 121 42489	33nF 5% 250V	3179	4822 116 52239	120k 5% 0.5W
2801	4822 122 32442	10nF 50V	2963	4822 121 51362	15nF 5% 100V	3179	4822 116 52304	82k 5% 0.5W
2801	4822 121 41689	100nF 10% 250V	2965	4822 121 42935	47nF 5% 100V	3180	4822 052 10108	10 5% 0.33W
2802	4822 124 41678	22uF 20% 25V	2970	4822 126 11958	2.2nF 10% 500V	3181	4822 050 11062	1k 1% 0.4W
2802	4822 122 31972	39pF 5% 50V	2971	4822 124 40764	22uF 20% 100V	3182	4822 116 52216	220Q 5% 0.5W
2802	4822 124 41578	8.8uF 20% 63V	2971	4822 124 41596	22uF 20% 50V	3183	4822 116 52215	220Q 5% 0.5W
2803	4822 122 31972	39pF 5% 50V	2972	4822 124 40435	10uF 20% 50V	3184	4822 116 52175	100Q 5% 0.5W
2804	4822 122 31769	120pF 5% 50V	2975	4822 126 11958	2.2nF 10% 500V	3185	4822 116 52233	100k 5% 0.5W
2805	4822 122 31769	120pF 5% 50V	2976	4822 124 40201	1000pF 20% 16V	3186	4822 116 52182	16Q 5% 0.5W
2810	4822 122 33496	100nF 10% 63V	2980	4822 126 11958	2.2nF 10% 500V	3187	4822 116 52216	240Q 5% 0.5W
2811	4822 122 33496	100nF 10% 63V	2981	4822 124 42343	1000pF 20% 50V	3188	4822 116 52243	1.5k 5% 0.5W
2812	4822 122 33496	100nF 10% 63V	2984	4822 124 22606	56pF 20% 16V	3188	4822 116 52263	2.7k 5% 0.5W
2813	4822 122 32442	10nF 50V	2992	4822 121 51252	470nF 5% 63V	3189	4822 050 22702	2.7k 1% 0.8W
2814	4822 122 31773	560pF 5% 50V	3011	4822 116 52276	3k9 5% 0.5W	3190	4822 116 52182	15Q 5% 0.5W
2815	4822 122 33496	100nF 10% 63V	3101	4822 218 21033	VDR	3191	4822 116 52207	1k 2.5% 0.5W
2816	4822 122 33293	100pF 5% 50V	3107	4822 116 40206	PTC 100 + 30Q	3192	4822 116 52211	150Q 5% 0.5W
2816	4822 126 11984	3.3pF 0.25%	3108	4822 116 40206	PTC 100 + 30Q	3193	4822 050 11002	1k 1% 0.4W
2817	4822 122 32504	15pF 5% 50V	3109	4822 053 10683	5k 5% 1W	3194	4822 116 52228	560Q 5% 0.5W
						3195	4822 116 52228	560Q 5% 0.5W

Spare parts list

CHASSIS MK2 10.4

1060 Carrier Panel

3818	4822 051 10122	1k2 2% 0.25W	3950	4822 116 52178	10Q 5% 0.5W	5901	4822 157 52949	22uH 10%
3819	4822 051 10122	1k2 2% 0.25W	3951	4822 116 52283	4k7 5% 0.5W	5903	4822 157 52825	60uH
3820	4822 051 10122	1k2 2% 0.25W	3954	4822 050 11002	1k 1% 0.4W	5914	4822 157 53608	10uH
3820	4822 116 52224	470Q 5% 0.5W	3954	4822 116 80178	1Q 5% 0.5W	5918	4822 157 52224	15uH
3821	4822 116 52175	100Q 5% 0.5W	3955	4822 116 52297	68k 5% 0.5W	5847	4822 157 51157	3.3uH
3821	4822 051 10122	1k2 2% 0.25W	3955	4822 116 80178	1Q 5% 0.5W	5901	4822 140 10431	LINE TRAFO
3822	4822 051 10122	1k2 2% 0.25W	3958	4822 100 11213	22k 30%	5902	4822 140 10429	LINE TRAFO
3822	4822 051 10122	1k2 2% 0.25W	3961	4822 116 52257	22k 5% 0.5W	5911	4822 157 52505	33uH 10%
3823	4822 051 10122	1k2 2% 0.25W	3962	4822 116 52297	68k 5% 0.5W	5916	4822 157 60171	FERR BEAD
3824	4822 051 10332	3k3 2% 0.25W	3963	4822 116 52284	47k 5% 0.5W	5918	4822 148 10111	LINE DRIVER
3825	4822 051 10332	3k3 2% 0.25W	3965	4822 116 52233	10k 5% 0.5W	5930	4822 157 52688	LIN CORR.
3826	4822 052 10159	15Q 5% 0.33W	3966	4822 116 52228	880Q 5% 0.5W			
3827	4822 051 10332	3k3 2% 0.25W	3969	4822 111 50503	1k 10% 0.25W	5930	4822 157 63702	COIL
3828	4822 051 10829	82Q 2% 0.25W	3970	4822 052 11109	10Q 5% 0.5W	5931	4822 157 52315	COIL
3830	4822 050 11002	1k 1% 0.4W	3972	4822 052 11109	10Q 5% 0.5W	5932	4822 158 10728	TRANSFORMER
3830	4822 116 52217	270Q 5% 0.5W	3975	4822 052 11128	1.2Q 5% 0.5W	5936	4822 158 21293	150Q uH
3831	4822 050 21502	15k 1% 0.6W	3975	4822 052 11568	506 5% 0.5W	5977	5322 157 52539	15uH 7.5%
3831	4822 050 21503	15k 1% 0.6W	3976	4822 052 11568	5.6Q 5% 0.5W	5980	4822 157 62827	LIN CORR.
3832	4822 051 10333	33k 2% 0.25W	3976	4822 052 11568	5.6Q 5% 0.5W			
3832	4822 116 52256	2k2 5% 0.5V	3977	4822 116 52175	100Q 5% 0.5W			
3833	4822 052 11138	103 5% 0.5W	3980	4822 050 21009	10Q 1% 0.6W	5109	4822 130 82745	BYM56D
3833	4822 052 11249	24Q 5% 0.5W	3981	4822 050 21009	10Q 1% 0.6W	6110	4822 130 82745	BYM56D
3834	4822 116 52273	3k6 5% 0.5W	3982	4822 050 21009	10Q 1% 0.6W	6111	4822 130 82745	BYM56D
3834	4822 050 21503	15k 1% 0.6W	3983	4822 050 21009	10Q 1% 0.6W	6112	4822 130 82745	BYM56D
3835	4822 116 52223	430Q 5% 0.5W	3984	4822 050 11002	1k 1% 0.4W	6113	4822 130 20269	SA0402NH
3835	4822 116 52228	560Q 5% 0.5W	3990	4822 111 50464	4.7M 5% 0.33W	6136	4822 130 81497	1N4005GP
3838	4822 116 52185	20Q 5% 0.5W	3991	4822 116 52222	390Q 5% 0.5W	6137	4822 130 42606	BYD33J
3838	4822 116 52189	30Q 5% 0.5W	3991	4822 116 52235	1M 5% 0.5W	6138	4822 130 28086	BT152-800R
3839	4822 051 10122	1k2 2% 0.25W	3992	4822 116 52235	1M 5% 0.5W	6138	4822 130 34685	BZX79-C75
3840	4822 051 10122	1k2 2% 0.25W	3999	4822 051 10182	1.8k 2% 0.25W	5139	4822 130 34233	BZX79-C5V1
3840	4822 116 80891	1.5Q 5% 0.2W				6139	4822 130 34173	BZX79-C5V6
3840	4822 116 81154	2Q 2% 5% 0.5W	4xxx jumper			6140	4822 130 30621	1N4148
3841	4822 116 81154	2Q 2% 5% 0.5W				6141	4822 130 30821	1N4148
3841	4822 051 10122	1k2 2% 0.25W				6143	4822 130 30621	1N4148
3842	4822 051 10122	1k2 2% 0.25W				6149	4822 130 82868	BZX85-C3V0
3842	4822 116 52241	1k3 5% 0.5W	5105	4822 212 23611	MAINS FILTER	6150	4822 130 42488	BYD33D
3843	4822 116 52303	8k2 5% 0.5W	5105	4822 158 30224	TRANSFORMER	6151	4822 130 82857	BZX85-C2V7
3843	4822 051 10122	1k2 2% 0.25W	5138	4822 158 10551	2.7uH	6154	4822 130 42488	BYD33D
3845	4822 052 10689	68Q 5% 0.33W	5150	4822 157 51216	5.6uH	6155	4822 130 42488	BYD33D
3846	4822 052 10689	68Q 5% 0.33W	5155	4822 157 51757	2uH	6156	4822 130 82035	BYD74D
3847	4822 051 10829	82Q 2% 0.25W	5157	4822 157 63884	COIL ASSY	6158	5322 130 34459	1N5059
3848	4822 051 10181	180Q 2% 0.25W	5181	4822 148 81216	TRANSFORMER	6158	5322 130 34459	1N5059
3849	4822 051 10102	1k 2% 0.25W	5182	4822 148 81221	TRANSFORMER	6181	4822 130 32119	BY229-600
3860	4822 050 11002	1k 1% 0.4W	5182	4822 157 52681	FERR BEAD	6182	4822 130 34173	BZX79-C5V6
3902	4822 116 52234	100k 5% 0.5W	5168	4822 157 52505	33uH 10%	6183	4822 130 20215	SF0R5J43
3903	4822 116 52233	10k 5% 0.5W	5174	4822 158 20966	47uH 10%	6184	4822 130 30621	1N4148
3904	4822 116 52276	3k 9 5% 0.5W	5175	4822 157 52681	FERR BEAD	6173	4822 130 34167	BZX79-F6V2
3906	4822 053 21224	220k 5% 0.5W	5182	4822 158 20966	47uH 10%	6174	4822 130 82035	BYD74D
3907	4822 053 21104	100k 5% 0.5W	5206	4822 157 53834	5.6uH 10%	6175	4822 130 34167	BZX79-F6V2
3908	4822 116 52233	10k 5% 0.5W	5207	4822 157 53634	5.6uH 10%	6176	4822 130 42488	BYD33D
3908	4822 116 52299	7k5 5% 0.5W	5258	4822 157 53949	39uH 5%	6180	4822 130 42488	BYD33D
3909	4822 052 11201	200Q 5% 0.5W	5318	4822 157 63888	34.4 MHz	6181	4822 130 42488	BYD33D
3909	4822 052 11471	470Q 5% 0.5W	5317	4822 157 60339	8.2uH	6182	4822 130 34197	BZX79-C12
3910	4822 052 11201	200Q 5% 0.5W	5331	4822 157 52223	1uH	6183	4822 130 30621	1N4148
3911	4822 053 11892	6.8k 5% 2W	5335	4822 157 63687	39 MHz	6184	4822 130 34233	BZX79-F5V1
3912	4822 116 83546	6.8k 10% 3W	5335	4822 157 63703	COIL	6185	4822 130 34174	BZX79-C4V7
3916	4822 116 52191	33Q 5% 0.5W	5336	4822 157 63686	38.9 MHz	6186	4822 130 42488	BYD33D
3920	4822 116 52185	47Q 5% 0.5W	5344	4822 157 82235	6.8uH	6188	4822 130 42488	BYD33D
3922	4822 053 10103	10k 5% 1W	5345	4822 157 51999	10uH 10%	6189	4822 130 34195	BZX79-C13
3928	4822 116 52284	27k 5% 0.5W	5345	4822 157 52278	12uH 10%	6189	4822 130 34281	BZX79-C15
3930	4822 052 11102	1k 5% 0.5W	5505	4822 157 53001	27uH 10%	6190	4822 130 30621	1N4148
3930	4822 052 11471	470Q 5% 0.5W	5506	4822 157 53066	15uH 10%	6192	4822 130 30621	1N4148
3935	4822 050 11002	1k 1% 0.4W	5509	4822 157 63899	9uH 6%	6198	4822 130 30621	1N4148
3937	4822 052 10188	1.8Q 5% 0.33W	5549	4822 157 63701	7.6uH 6%	6197	4822 130 34379	BZX79-C27
3937	4822 052 10398	3.9Q 5% 0.33W	5581	4822 157 63685	19uH 6%	6198	4822 130 34281	BZX79-C15
3939	4822 050 11002	1k 1% 0.4W	5586	4822 157 63885	19uH 6%	6199	4822 130 34379	BZX79-C27
3940	4822 116 52283	2k7 5% 0.5W	5587	4822 157 51056	DL 330ns	6201	4822 130 30621	1N4148
3940	4822 116 52298	6.8k 5% 0.5W	5594	4822 157 53634	5.6uH 10%	6202	4822 130 30621	1N4148
3941	4822 116 52284	47k 5% 0.5W	5595	4822 157 53634	5.6uH 10%	6211	4822 130 82037	HZT33
3945	4822 116 52284	47k 5% 0.5W	5598	4822 157 53634	5.6uH 10%	6257	4822 130 81482	LN81RPH
3946	4822 116 52234	100k 5% 0.5W	5600	4822 158 20966	DL 330ns			

060 Carrier Panel

198	4822 116 52175	100Q 5% 0.5W
197	4822 050 11002	1k 1% 0.4W
198	4822 050 23902	3k9 1% 0.6W
199	4822 116 52259	2.4k 5% 0.5W
199	4822 116 52288	510k 5% 0.5W
200	4822 050 11002	1k 1% 0.4W
205	4822 050 11002	1k 1% 0.4W
206	4822 050 11002	1k 1% 0.4W
207	4822 116 52289	5.6k 5% 0.5W
208	4822 116 52276	3.9k 5% 0.5W
209	4822 116 52251	18k 5% 0.5W
210	4822 053 10223	22k 5% 1W
210	4822 050 21203	12k 1% 0.6W
211	4822 116 52233	10k 5% 0.5W
213	4822 116 52257	22k 5% 0.5W
214	4822 116 52258	220k 5% 0.5W
216	4822 116 52175	100Q 5% 0.5W
217	4822 116 52251	18k 5% 0.5W
218	4822 116 52244	15k 5% 0.5W
219	4822 116 52233	10k 5% 0.5W
220	4822 116 52233	10k 5% 0.5W
221	4822 116 52251	18k 5% 0.5W
222	4822 116 52257	22k 5% 0.5W
223	4822 116 52233	10k 5% 0.5W
224	4822 116 52284	47k 5% 0.5W
225	4822 050 11002	1k 1% 0.4W
226	4822 050 11002	1k 1% 0.4W
227	4822 116 81682	2M2 5% 0.5W
228	4822 116 52234	100k 5% 0.5W
229	4822 116 52305	820k 5% 0.5W
230	4822 116 52292	560k 5% 0.5W
235	4822 116 52233	10k 5% 0.5W
236	4822 050 11002	1k 1% 0.4W
237	4822 050 11002	1k 1% 0.4W
240	4822 116 52257	22k 5% 0.5W
241	4822 116 52251	18k 5% 0.5W
242	4822 116 52238	12k 5% 0.5W
245	4822 116 52295	6k8 5% 0.5W
246	4822 116 52289	5k8 5% 0.5W
247	4822 116 52293	6k2 5% 0.5W
250	4822 116 52283	4k7 5% 0.5W
251	4822 116 52283	5k8 5% 0.5W
252	4822 116 52244	15k 5% 0.5W
253	4822 116 52301	75k 5% 0.5W
254	4822 116 52276	3k9 5% 0.5W
255	4822 116 52269	3k3 5% 0.5W
258	4822 116 52222	390Q 5% 0.5W
259	4822 116 52283	4k7 5% 0.5W
260	4822 116 52233	10k 5% 0.5W
261	4822 116 52233	10k 5% 0.5W
262	4822 116 52256	2k2 5% 0.5W
263	4822 116 52238	12k 5% 0.5W
264	4822 116 52238	12k 5% 0.5W
265	4822 116 52284	47k 5% 0.5W
267	4822 116 52297	22k 5% 0.5W
268	4822 116 52293	5k9 5% 0.5W
269	4822 116 52283	4k7 5% 0.5W
273	4822 116 52249	1k8 5% 0.5W
274	4822 116 52239	7k5 5% 0.5W
278	4822 116 52269	3k3 5% 0.5W
279	4822 116 52269	3k3 5% 0.5W
290	4822 116 52228	680Q 5% 0.5W
291	4822 116 52243	1k5 5% 0.5W
292	4822 116 52243	1k5 5% 0.5W
294	4822 116 52243	1k5 5% 0.5W
297	4822 116 52289	5k8 5% 0.5W
300	4822 116 52243	1k5 5% 0.5W
307	4822 116 52263	2k7 5% 0.5W
308	4822 116 52233	10k 5% 0.5W

3312	4822 052 10339	33Q 5% 0.33W
3314	4822 116 52257	22k 5% 0.5W
3316	4822 116 52283	4k7 5% 0.5W
3317	4822 116 52257	22k 5% 0.5W
3318	4822 116 52258	2k2 5% 0.5W
3325	4822 100 20186	10k LIN 0.1W
3326	4822 116 52277	39k 5% 0.5W
3330	4822 052 10439	43Q 5% 0.33W
3331	4822 052 10439	43Q 5% 0.33W
3341	4822 116 52207	1k2 5% 0.5W
3344	4822 116 52225	510Q 5% 0.5W
3345	4822 116 52249	1k8 5% 0.5W
3346	4822 116 52233	10k 5% 0.5W
3347	4822 116 52205	120Q 5% 0.5W
3348	4822 116 52233	10k 5% 0.5W
3349	4822 116 52216	240Q 5% 0.5W
3350	4822 116 52213	180Q 5% 0.5W
3351	4822 116 52215	220Q 5% 0.5W
3353	4822 116 52175	100Q 5% 0.5W
3360	4822 116 52264	27k 5% 0.5W
3381	4822 116 52245	150k 5% 0.5W
3381	4822 116 52234	100k 5% 0.5W
3381	4822 116 52269	3.3k 5% 0.5W
3381	4822 116 52234	100k 5% 0.5W
3381	4822 116 52303	8.2k 5% 0.5W
3501	4822 116 52243	1.5k 5% 0.5W
3503	4822 116 52234	100k 5% 0.5W
3503	4822 116 52284	47k 5% 0.5W
3505	4822 116 52224	470Q 5% 0.5W
3506	4822 116 52226	560Q 5% 0.5W
3507	4822 116 52225	510Q 5% 0.5W
3507	4822 116 52251	18k 5% 0.5W
3507	4822 116 52303	8.2k 5% 0.5W
3513	4822 116 52257	22k 5% 0.5W
3514	4822 116 52233	10k 5% 0.5W
3522	4822 116 52283	4.7k 5% 0.5W
3524	4822 116 52283	4.7k 5% 0.5W
3525	4822 050 11002	1k 1% 0.4W
3526	4822 116 52233	10k 5% 0.5W
3527	4822 116 52233	10k 5% 0.5W
3528	4822 116 52251	18k 5% 0.5W
3532	4822 116 52283	4.7k 5% 0.5W
3533	4822 116 52254	20k 5% 0.5W
3538	4822 116 52233	10k 5% 0.5W
3539	4822 116 52269	3k3 5% 0.5W
3541	4822 116 52299	6k8 5% 0.5W
3542	4822 116 52283	4k7 5% 0.5W
3548	4822 050 22705	2M7 1% 0.6W
3548	4822 111 50464	4M7 5% 0.33W
3549	4822 100 11348	1k LIN 30k
3550	4822 116 52283	4k7 5% 0.5W
3554	4822 116 52228	560Q 5% 0.5W
3556	4822 116 52233	10k 5% 0.5W
3557	4822 116 52233	10k 5% 0.5W
3558	4822 116 52235	1k1 5% 0.5W
3560	4822 116 52199	68Q 5% 0.5W
3560	4822 116 52176	10Q 5% 0.5W
3561	4822 116 52176	10Q 5% 0.5W
3561	4822 116 52199	68Q 5% 0.5W
3562	4822 050 11002	1k 1% 0.4W
3563	4822 116 52251	18k 5% 0.5W
3565	4822 116 52251	18k 5% 0.5W
3566	4822 116 52251	18k 5% 0.5W
3567	4822 116 52226	560Q 5% 0.5W
3568	4822 116 52228	680Q 5% 0.5W
3569	4822 116 52222	390Q 5% 0.5W
3570	4822 116 52222	390Q 5% 0.5W
3571	4822 050 11002	1k 1% 0.4W
3572	4822 116 52217	270Q 5% 0.5W

3573	4822 052 10109	10Q 5% 0.33W
3574	4822 052 10828	8.2Q 5% 0.33W
3587	4822 116 52195	47Q 5% 0.5W
3588	4822 116 52221	360Q 5% 0.5W
3588	4822 116 52222	390Q 5% 0.5W
3589	4822 116 52221	360Q 5% 0.5W
3589	4822 116 52222	390Q 5% 0.5W
3590	4822 116 52221	360Q 5% 0.5W
3591	4822 116 52298	6k8 5% 0.5W
3594	4822 116 52175	100Q 5% 0.5W
3595	4822 116 52175	100Q 5% 0.5W
3596	4822 116 52175	100Q 5% 0.5W
3614	4822 050 21005	1M 1% 0.6W
3615	4822 050 11001	100Q 1% 0.4W
3702	4822 116 52283	4k7 5% 0.5W
3705	4822 052 11478	4.27 5% 0.5W
3707	4822 116 52244	15k 5% 0.5W
3710	4822 116 52283	4k7 5% 0.5W
3713	4822 116 52289	5k8 5% 0.5W
3715	4822 116 52267	30k 5% 0.5W
3722	4822 116 52186	22Q 5% 0.5W
3723	4822 116 52289	5k6 5% 0.5W
3727	4822 116 52249	1k8 5% 0.5W
3735	4822 116 52292	560Q 5% 0.5W
3736	4822 116 52234	100k 5% 0.5W
3737	4822 100 20186	10k LIN 0.1W
3738	4822 116 52301	75k 5% 0.5W
3739	4822 101 21154	200k 25%
3740	4822 116 52258	220k 5% 0.5W
3741	4822 116 52301	75k 5% 0.5W
3748	4822 116 52267	30k 5% 0.5W
3749	4822 100 20186	10k LIN 0.1W
3750	4822 050 11002	1k 1% 0.4W
3754	4822 116 52213	180Q 5% 0.5W
3755	4822 116 52276	3k9 5% 0.5W
3757	4822 116 52283	4k7 5% 0.5W
3758	4822 051 10392	3k9 2% 0.25W
3796	4822 116 90536	120Q 1% 0.125W
3797	4822 116 52176	10Q 5% 0.5W
3798	4822 116 90536	120Q 1% 0.125W
3800	4822 051 10103	10k 2% 0.25W
3800	4822 050 26801	680Q 1% 0.6W
3801	4822 050 26801	680Q 1% 0.6W
3801	4822 051 10105	1M 5% 0.25W
3802	4822 051 10101	100Q 2% 0.25W
3803	4822 051 10101	100Q 2% 0.25W
3803	4822 116 52182	15Q 5% 0.5W
3803	4822 050 21308	103 1% 0.6W
3804	4822 051 10101	100Q 2% 0.25W
3805	4822 051 10122	1.2k 2% 0.25W
3805	4822 053 10242	2.4k 5% 1W
3807	4822 053 10242	2.4k 5% 1W
3807	4822 051 10622	6.2k 2% 0.25W
3808	4822 051 10103	10k 2% 0.25W
3809	4822 051 10132	1k3 2% 0.25W
3810	4822 051 10333	33k 2% 0.25W
3811	4822 051 10223	22k 2% 0.25W
3812	4822 051 10332	3k3 2% 0.25W
3812	4822 116 52182	15Q 5% 0.5W
3813	4822 051 10361	360Q 2% 0.25W
3814	4822 050 11002	1k 1% 0.4W
3815	4822 051 10152	1k5 2% 0.25W
3815	4822 053 11161	160Q 5% 2W
3815	4822 053 11189	18Q 5% 2W
3816	4822 116 52256	2k2 5% 0.5W
3816	4822 051 10883	8k 2% 0.25W
3817	4822 051 10122	1k2 2% 0.25W
3817	4822 116 52266	3k 5% 0.5W
3818	4822 116 52175	100Q 5% 0.5W

1060 Carrier Panel

6272	4822 130 30862	BZX79-89V1
6273	4822 130 30821	1N4148
6274	4822 130 30821	1N4148
6275	4822 130 30821	1N4148
6290	4822 130 30821	1N4148
6292	4822 130 30821	1N4148
6294	4822 130 30821	1N4148
6296	4822 130 30821	1N4148
6297	4822 130 30821	1N4148
6315	4822 130 30621	1N4148
6318	5322 130 34955	BA482
6501	4822 130 30621	1N4148
6522	4822 130 30621	1N4148
6523	4822 130 30621	1N4148
6524	4822 130 30621	1N4148
6531	4822 130 30621	1N4148
6532	4822 130 30621	1N4148
6542	4822 130 61219	BZX79-B10
6554	4822 130 34173	BZX79-C5-V5
6705	4822 130 30621	1N4148
6710	4822 130 30621	1N4148
6757	4822 130 31253	BZX79-C2V4
6803	4822 130 42806	BYD33J
6809	4822 130 80446	LL4148
6810	4822 130 80446	LL4148
6811	4822 130 80446	LL4148
6811	4822 130 42806	BYD33J
6812	4822 130 80446	LL4148
6813	4822 130 81512	LLZ-C6V2
6814	4822 130 80446	LL4148
6818	4822 130 30843	BA315
6847	4822 130 42809	BYD33G
6848	4822 130 80905	LLZ-F5V1
6861	4822 130 30821	1N4148
6882	4822 130 30821	1N4148
6902	5322 130 34583	BZX79-C2V7
6928	4822 130 41275	BY228
6927	4822 130 42806	BYD33J
6928	4822 130 42806	BYD33J
6932	4822 130 32058	8YW958
6960	4822 130 20202	BT1490
6965	4822 130 30821	1N4148
6970	4822 130 42806	BYD33J
6971	4822 130 42806	BYD33J
6972	4822 130 42806	BYD33J
6975	4822 130 42806	BYD33J
6990	4822 130 42806	BYD33J
6993	4822 130 42806	BYD33J
6984	4822 130 20202	BT1490
		
7110	4822 130 40938	BC548
7132	4822 130 41648	BF423
7138	4822 130 41782	BF422
7140	4822 130 44198	BC548C
7143	4822 130 82034	CNX83A
7146	5322 130 80068	BC558C
7147	5322 130 44847	BC388
7156	4822 130 42879	BUT11AF
7158	4822 130 82735	BUT12AF
7164	4822 130 40938	BC548
7165	4822 130 40938	BC548
7173	4822 130 44198	BC548C
7175	4822 130 41846	BF423
7182	5322 130 44847	BC388
7183	4822 130 40941	BC558
7184	4822 130 40941	BC558
7188	5322 130 80068	BC558C
7193	4822 130 44503	BC547C
7196	4822 130 40938	BC548

Spare parts list

CHASSIS MK2 10.6

1070 Vivo/Sound Module

S1	4822 265 20464	2p male (-> M21)
S1	4822 265 20438	2p fem (-> M21)
S3	4822 284 40207	3p male (-> M63)
S3	4822 287 40582	3p fem (-> M63)
S4	4822 264 40207	3p male (-> M13)
S4	4822 287 40582	3p fem (-> M13)
V30	4822 287 50861	8p male (-> M30)
V30	4822 265 40253	8p fem (-> M30)
V31	4822 264 40207	3p male (-> M31)
V31	4822 287 40582	3p fem (-> M31)
V64	4822 265 20464	2p male (-> M23)
V64	4822 265 20438	2p fem (-> M23)
	4822 287 20387	2p cinch + svhs
	4822 267 40622	4P cinch
Various		
1110	4822 242 72547	5.5 MHz
1111	4822 242 71725	4.5 MHz
1112	4822 242 71713	6.0 MHz
1113	4822 242 72057	6.5 MHz
1220	4822 210 10461	FM TUNER TE01
-H-		
2003	4822 124 40195	150pF 20% 16V
2005	4822 121 51244	330nF 5% 50V
2006	4822 121 51244	330nF 5% 50V
2008	4822 121 51244	330nF 5% 50V
2009	4822 121 51244	330nF 5% 50V
2010	4822 121 42094	100nF 10% 63V
2011	4822 124 41598	22pF 20% 50V
2012	4822 124 41598	22pF 20% 50V
2013	4822 121 51244	330nF 5% 50V
2014	4822 121 51244	330nF 5% 50V
2016	4822 121 42008	470nF 10% 63V
2017	4822 121 42008	470nF 10% 63V
2018	4822 121 42008	470nF 10% 63V
2031	4822 121 42094	100nF 10% 63V
2032	4822 121 43104	33nF 10% 100V
2036	4822 121 42008	470nF 10% 63V
2054	4822 121 42008	470nF 10% 63V
2068	4822 121 40608	22nF 20% 50V
2083	4822 121 40608	22nF 20% 50V
2090	4822 126 11328	220pF 5%
2091	4822 122 33293	100pF 5%
2101	4822 122 33307	10nF 80% 50V
2102	4822 126 11131	18pF 5% 50V
2103	4822 122 33295	150pF 5% 50V
2118	4822 121 40608	22nF 20% 50V
2118	4822 122 30103	22nF 80% 63V
2119	4822 122 33449	47nF 30% 50V
2120	4822 121 40608	22nF 20% 50V
2120	4822 122 30103	22nF 80% 63V
2125	4822 122 33307	10nF 20% 50V
2128	4822 122 33307	10nF 80% 50V
2130	4822 124 40242	1uF 20% 63V
2136	4822 124 40248	10uF 20% 63V
2137	4822 121 40608	22nF 20% 50V
2138	4822 124 21443	2.2uF 20% 50V
2143	4822 121 43104	33nF 10% 100V
2146	4822 121 40608	22nF 20% 50V
2153	4822 121 51399	47nF 10% 50V
2153	4822 121 42237	47nF 10% 63V
2180	4822 124 22283	220uF 20% 25V
2201	4822 121 42094	100nF 10% 63V
2215	4822 124 40244	2.2uF 20% 63V
2217	4822 122 30103	22nF 80% 63V
2220	4822 124 40433	47uF 20% 25V
2221	4822 124 40242	1uF 20% 63V
2615	4822 124 40435	10uF 20% 50V
2618	4822 124 22348	330uF 20% 35V
2617	4822 121 42094	100nF 10% 63V
2618	4822 122 33532	3n3 10% 50V
2619	5322 124 41468	1000pF 20% 40V
2620	4822 124 40242	1uF 20% 63V
2621	4822 121 51587	88nF 5% 50V
2622	4822 121 51244	330nF 5% 50V
2623	4822 121 41761	5.8nF 10% 400V
2624	4822 121 42094	100nF 10% 63V
2625	4822 122 33307	10nF 80% 50V
3003	4822 051 10759	75Q 2% 0.25W
3005	4822 050 21802	1k 1% 0.6W
3006	4822 050 21802	1k 1% 0.6W
3007	4822 050 21802	1k 1% 0.6W
3008	4822 050 21802	1k 1% 0.6W
3009	4822 050 21802	1k 1% 0.6W
3010	4822 050 22201	220Q 1% 0.5W
3011	4822 116 52258	220k 5% 0.5W
3012	4822 116 52258	220k 5% 0.5W
3013	4822 116 52258	220k 5% 0.5W
3014	4822 116 52258	220k 5% 0.5W
3015	4822 116 52258	220k 5% 0.5W
3016	4822 050 27509	75Q 1% 0.6W
3017	4822 050 27509	75Q 1% 0.6W
3018	4822 050 27509	75Q 1% 0.6W
3019	4822 050 22201	220Q 1% 0.6W
3020	4822 116 52283	4k 7.5% 0.5W
3021	4822 116 52233	10k 5% 0.5W
3022	4822 116 52233	10k 5% 0.5W
3023	4822 116 52233	10k 5% 0.5W
3024	4822 116 52233	10k 5% 0.5W
3025	4822 116 52233	10k 5% 0.5W
3026	4822 116 52207	1k 2.5% 0.5W
3027	4822 116 52207	1k 2.5% 0.5W
3028	4822 116 52284	47k 5% 0.5W
3029	4822 051 10333	33k 2% 0.25W
3030	4822 116 52284	47k 5% 0.5W
3031	4822 116 52233	10k 5% 0.5W
3032	4822 116 52297	68k 5% 0.5W
3033	4822 116 52253	2k 5% 0.5W
3034	4822 116 52284	47k 5% 0.5W
3035	4822 116 52284	47k 5% 0.5W
3037	4822 050 21002	1k 0.1% 0.5W
3038	4822 050 11002	1k 1% 0.4W
3041	4822 116 52289	3k 3.5% 0.5W
3042	4822 050 11002	1k 1% 0.4W
3044	4822 116 52231	820Q 5% 0.5W
3045	4822 116 52228	580Q 5% 0.5W
3047	4822 116 52222	390Q 5% 0.5W
3048	4822 116 52251	18k 5% 0.5W
3049	4822 051 10333	33k 2% 0.25W
3052	4822 116 52258	220k 5% 0.5W
3053	4822 116 52258	220k 5% 0.5W
3054	4822 116 52258	220k 5% 0.5W
3055	4822 116 52258	220k 5% 0.5W
3058	4822 050 11002	1k 1% 0.4W
3057	4822 116 52283	4k 7.5% 0.5W
3058	4822 050 22201	220Q 1% 0.6W
3059	4822 050 22201	220Q 1% 0.6W
3080	4822 116 52199	68Q 5% 0.5W
3081	4822 116 52231	820Q 5% 0.5W
3082	4822 116 52228	580Q 5% 0.5W
3083	4822 050 11002	1k 1% 0.4W
3084	4822 050 11002	1k 1% 0.4W
3085	4822 050 11002	1k 1% 0.4W
3086	4822 050 11002	1k 1% 0.4W
3087	4822 050 11002	1k 1% 0.4W
3088	4822 116 52233	10k 5% 0.5W
3089	4822 116 52233	10k 5% 0.5W
3090	4822 116 52233	10k 5% 0.5W
3092	4822 050 11002	1k 1% 0.4W
3094	4822 116 52268	3k 5% 0.5W
3095	4822 116 52225	510Q 5% 0.5W
3096	4822 050 11002	1k 1% 0.4W
3097	4822 116 52222	390Q 5% 0.5W
3098	4822 116 52222	390Q 5% 0.5W
3100	4822 116 52233	10k 5% 0.5W
3101	4822 116 52269	3k 3.5% 0.5W
3102	4822 116 52224	470Q 5% 0.5W
3103	4822 116 52207	1k 2.5% 0.5W
3104	4822 116 52269	3k 3.5% 0.5W
3105	4822 116 52269	3k 3.5% 0.5W
3106	4822 116 52207	1k 2.5% 0.5W
3108	4822 116 52207	1k 2.5% 0.5W
3110	4822 116 52207	1k 2.5% 0.5W
3111	4822 116 52207	1k 2.5% 0.5W
3111	4822 116 52213	180Q 5% 0.5W
3112	4822 116 52213	180Q 5% 0.5W
3112	4822 116 52207	1k 2.5% 0.5W
3113	4822 116 52207	1k 2.5% 0.5W
3118	4822 050 11002	1k 1% 0.4W
3124	4822 116 52244	15k 5% 0.5W
3125	4822 116 52244	15k 5% 0.5W
3126	4822 116 52258	220k 5% 0.5W
3128	4822 116 52258	220k 5% 0.5W
3129	4822 116 52254	20k 5% 0.5W
3130	4822 116 52254	20k 5% 0.5W
3135	4822 116 52283	4k 7.5% 0.5W
3136	4822 116 51682	2M2 5% 0.5W
3137	4822 116 52277	39k 5% 0.5W
3145	4822 116 52234	100k 5% 0.5W
3148	4822 116 52257	22k 5% 0.5W
3147	4822 116 52276	3k 5% 0.5W
3148	4822 100 11212	2k2 30% LIN
3160	4822 052 10151	150Q 5% 0.33W
3161	4822 052 10151	150Q 5% 0.33W
3162	4822 052 10151	150Q 5% 0.33W
3163	4822 116 52253	2k 5% 0.5W
3164	4822 116 52245	150k 5% 0.5W
3164	4822 116 52234	100k 5% 0.5W
3164	4822 116 52269	3k 3.5% 0.5W
3184	4822 116 52291	58k 5% 0.5W
3201	4822 116 52286	3k 5% 0.5W
3202	4822 116 52291	58k 5% 0.5W
3203	4822 116 52308	9k1 5% 0.5W
3204	4822 116 52287	30k 5% 0.5W
3205	4822 116 52297	68k 5% 0.5W
3210	4822 116 52284	47k 5% 0.5W
3211	4822 116 52249	1k8 5% 0.5W
3212	4822 050 11002	1k 1% 0.4W
3213	4822 116 52283	4k 7.5% 0.5W
3214	4822 116 52283	4k 7.5% 0.5W
3218	4822 116 52234	100k 5% 0.5W
3220	4822 052 10279	27Q 5% 0.33W
3813	4822 116 52269	3k 3.5% 0.5W
3814	4822 116 52207	1k 2.5% 0.5W
3815	4822 116 52228	880Q 5% 0.5W
3817	4822 052 10338	3.3Q 5% 0.33W
3819	4822 116 52258	220k 5% 0.5W
3822	4822 051 10122	1k 2% 0.25W
3824	4822 116 52263	2k 7.5% 0.5W
3879	4822 116 52303	8k 2.5% 0.5W
3879	4822 116 52333	10k 5% 0.5W
3879	4822 050 27509	75Q 1% 0.6W
3881	4822 050 27509	75Q 1% 0.6W
3883	4822 051 10333	33k 2% 0.25W
3884	4822 116 52303	8k 2.5% 0.5W
3885	4822 050 11002	1k 1% 0.4W
3888	4822 116 52233	10k 5% 0.5W
3890	4822 116 52233	10k 5% 0.5W
3892	4822 050 11002	1k 1% 0.4W
3894	4822 116 52268	3k 5% 0.5W
3895	4822 116 52225	510Q 5% 0.5W
3896	4822 050 11002	1k 1% 0.4W
3897	4822 116 52222	390Q 5% 0.5W
3898	4822 116 52222	390Q 5% 0.5W
3900	4822 116 52233	10k 5% 0.5W
3902	4822 050 11002	1k 1% 0.4W
3904	4822 116 52268	3k 5% 0.5W
3905	4822 116 52225	510Q 5% 0.5W
3906	4822 050 11002	1k 1% 0.4W
3907	4822 116 52222	390Q 5% 0.5W
3908	4822 116 52222	390Q 5% 0.5W
3909	4822 116 52233	10k 5% 0.5W
3910	4822 116 52233	10k 5% 0.5W
3911	4822 116 52269	3k 3.5% 0.5W
3912	4822 116 52224	470Q 5% 0.5W
3913	4822 116 52207	1k 2.5% 0.5W
3914	4822 116 52269	3k 3.5% 0.5W
3915	4822 116 52269	3k 3.5% 0.5W
3916	4822 116 52207	1k 2.5% 0.5W
3918	4822 116 52207	1k 2.5% 0.5W
3919	4822 116 52207	1k 2.5% 0.5W
3920	4822 116 52207	1k 2.5% 0.5W
3921	4822 116 52207	1k 2.5% 0.5W
3922	4822 116 52207	1k 2.5% 0.5W
3923	4822 116 52207	1k 2.5% 0.5W
3924	4822 116 52207	1k 2.5% 0.5W
3925	4822 116 52207	1k 2.5% 0.5W
3926	4822 116 52207	1k 2.5% 0.5W
3927	4822 116 52207	1k 2.5% 0.5W
3928	4822 116 52207	1k 2.5% 0.5W
3929	4822 116 52207	1k 2.5% 0.5W
3930	4822 116 52207	1k 2.5% 0.5W
3931	4822 116 52207	1k 2.5% 0.5W
3932	4822 116 52207	1k 2.5% 0.5W
3933	4822 116 52207	1k 2.5% 0.5W
3934	4822 116 52207	1k

1070 Vivo/Sound Module

1040 CRT Panel

5102	4822 152 20878	33μH 10%
5103	4822 157 00123	8,8μH 10%
5124	4822 157 83894	10,7 MHz
5125	4822 157 83893	5,5 MHz
5125	4822 156 21451	12,5μH 8%
5125	4822 157 83711	6μH
5619	4822 152 20549	47μH 7,5%

6003	4822 130 61219	8ZX79-C10
6011	4822 130 61219	8ZX79-C10
6012	4822 130 61219	8ZX79-C10
6013	4822 130 61219	8ZX79-C10
6016	4822 130 61219	8ZX79-C10
6017	4822 130 61219	8ZX79-C10
6018	4822 130 61219	8ZX79-C10
6036	4822 130 61219	8ZX79-C10
6041	4822 130 30621	1N4148
6047	4822 130 30621	1N4148
8048	4822 130 30621	1N4148
6069	4822 130 61219	8ZX79-C10
6084	4822 130 61219	8ZX79-C10
6103	4822 130 30621	1N4148
6104	4822 130 30621	1N4148
6105	4822 130 30621	1N4148
6107	4822 130 30621	1N4148
6120	5322 130 31684	8B809
6127	5322 130 31684	8B809
6128	5322 130 31684	8B809
6143	4822 130 30621	1N4148
6160	4822 130 34197	8ZX79-C12
6181	4822 130 30621	1N4148
6201	4822 130 34197	8ZX79-C12
6202	4822 130 34197	8ZX79-C12
6203	4822 130 30621	1N4148

7010	4822 209 10263	HEF4052BP
7020	4822 130 40938	BC548
7021	4822 130 40938	BC548
7022	4822 130 40938	BC548
7023	4822 130 40938	BC548
7024	4822 130 40938	BC548
7030	4822 130 44198	BC548C
7042	4822 130 40941	BC558
7044	4822 130 40938	BC548
7055	4822 130 41448	BF324
7061	4822 130 40941	BC558
7063	4822 130 40938	BC548
7064	4822 130 40938	BC548
7070	4822 130 40938	BC548
7080	4822 130 40938	BC548
7085	4822 130 40938	BC548
7090	4822 130 40938	BC548
7092	4822 130 40938	BC548
7093	4822 130 40938	BC548
7101	4822 130 40938	BC548
7105	4822 209 70672	LM358N
7120	4822 209 62523	TBA120UB
7160	4822 130 41748	BD825
7201	4822 209 71703	TDA8442/N3
7210	4822 130 40938	BC548
7213	4822 130 40938	BC548
7620	4822 209 61758	TDA1013B.N1

P1	4822 265 30351	5p male (-> M1)
P1	4822 267 40583	5p fern (-> M1)
P2	4822 265 30378	4p male (-> M7)
P2	4822 267 40587	4p fern (-> M7)
P4	4822 265 30389	2p male (-> equal)
	4822 255 70254	holder valve

2104	4822 126 11968	22pF 5% 100V
2105	4822 126 11971	270pF 10% 50V
2110	4822 126 11969	2,7pF 0,25% 50V
2124	4822 126 11968	22pF 5% 100V
2125	4822 126 11971	270pF 10% 50V
2130	4822 126 11969	2,7pF 0,25% 50V
2144	4822 126 11968	22pF 5% 100V
2145	4822 126 11971	270pF 10% 50V
2150	4822 126 11969	2,7pF 0,25% 50V
2165	4822 124 40433	47μF 20% 25V
2178	4822 121 41689	100nF 10% 250V
2188	4822 121 41928	33nF 10% 630V

3100	4822 116 52209	3k3 5% 0,5W
3101	4822 116 52207	1k2 5% 0,5W
3103	4822 050 11002	1k 1% 0,4W
3104	4822 116 52224	470Ω 5% 0,5W
3105	4822 116 52243	1k5 5% 0,5W
3107	5322 100 11541	2K2 LIN
3109	4822 053 10183	18k 5%
3110	4822 116 52257	22k 5% 0,5W
3113	4822 116 52219	330Ω 5% 0,5W
3115	4822 052 10102	1k0 5% 0,33W
3117	4822 052 10102	1k0 5% 0,33W
3118	4822 111 91333	2k2 10%
3120	4822 116 52269	3k 3 5% 0,5W
3121	5322 100 11541	2K2 LIN
3124	4822 116 52224	470Ω 5% 0,5W
3126	4822 116 52243	1k 5 5% 0,5W
3127	5322 100 11541	2K2 LIN
3129	4822 053 10183	18k 5%
3130	4822 116 52257	22k 5% 0,5W
3133	4822 116 52219	330Ω 5% 0,5W
3135	4822 052 10102	1k0 5% 0,33W
3137	4822 052 10102	1k0 5% 0,33W
3138	4822 111 91333	2k2 10%
3140	4822 116 52269	3k 3 5% 0,5W
3141	5322 100 11541	2K2 LIN
3144	4822 116 52224	470Ω 5% 0,5W
3146	4822 116 52243	1k 5 5% 0,5W
3147	5322 100 11541	2K2 LIN
3149	4822 053 10183	18k 5%
3150	4822 116 52257	22k 5% 0,5W
3153	4822 116 52219	330Ω 5% 0,5W
3155	4822 052 10102	1k0 5% 0,33W
3157	4822 052 10102	1k0 5% 0,33W
3158	4822 111 91333	2k2 10%
3160	4822 050 11002	1k 1% 0,4W
3163	4822 116 52283	4k 7 5% 0,5W
3165	4822 116 52205	1k 1 5% 0,5W
3178	4822 052 10181	180Ω 5% 0,33W
3184	4822 111 91333	2k2 10%
3188	4822 111 91333	2k2 10%

5104	4822 152 20878	33μH 10%
5110	4822 157 52991	270μH 10%
5124	4822 152 20678	33μH 10%

6106	4822 130 30621	1N4148
6115	4822 130 30842	BAV21
6126	4822 130 30621	1N4148
6135	4822 130 30842	BAV21
6146	4822 130 30821	1N4148
6155	4822 130 30842	BAV21

7110	4822 130 42607	BF483
7111	4822 130 44195	BF494
7115	4822 130 41782	BF422
7116	4822 130 41648	BF423
7130	4822 130 42607	BF483
7131	4822 130 44195	BF494
7135	4822 130 41782	BF422
7138	4822 130 41846	BF423
7150	4822 130 42607	BF483
7151	4822 130 44195	BF494
7155	4822 130 41782	BF422
7156	4822 130 41846	BF423
7160	4822 130 44258	BC557