

Produced By:

**Commodore International Spare Parts GmbH
Braunschweig, West Germany**

SERVICE MANUAL

**1084S-P1
PAL VERSION**

SEPTEMBER, 1990

PN-314688-01

1059

INTERNATIONAL EDITION

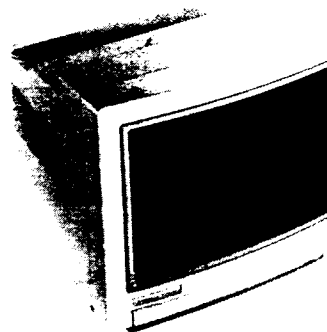
COMMODORE "INTERNATIONAL EDITION" SERVICE MANUALS CONTAIN PART NUMBER INFORMATION WHICH MAY VARY ACCORDING TO COUNTRY. SOME PARTS MAY NOT BE AVAILABLE IN ALL COUNTRIES.

TECHNICAL DATA**General**

- mains voltage 220-240 V (10%)
- mains frequency 50 Hz
- power consumption 75 W

Picturetube

- size 14"
- deflection angle 90°
- EHT 25KV
- slot triplet pitch 0.42 mm
- type M34EAQ10X

**Video**

- vertical frequency 50 Hz (47-62,5 Hz)
- horizontal frequency 15625 Hz (± 60 Hz)
- bandwidth 8 Mz
- characters 2000

Audio

- loudspeaker 16 Ω /1 W/3"
- output power 1 W

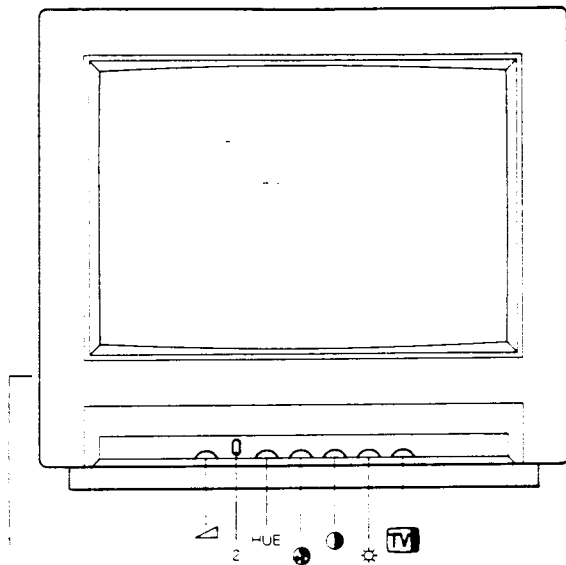
REMARKS

- 1) The direct voltages indicated in the circuit diagram are average voltages. They have been measured under the following conditions:
Contrast and brightness to minimum.
- 2) The oscillograms have been measured under the following conditions:
Signal from a RGB pattern generator (SBC 522) on colour bar pattern.
Adjust brightness and contrast for mechanical mid-position (click position).

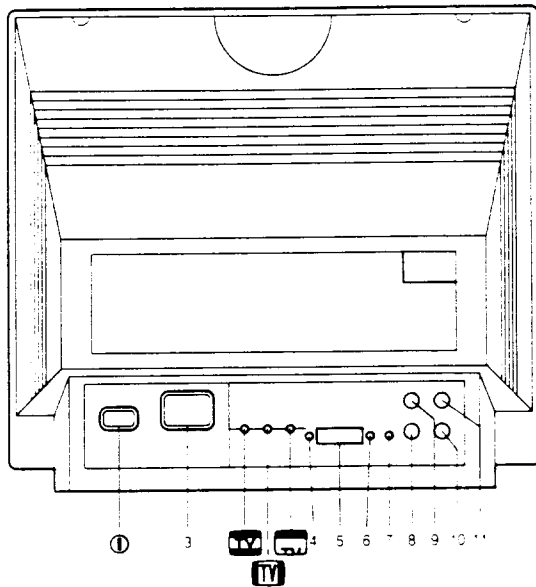
WARNING

All ICs 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 also at this potential.

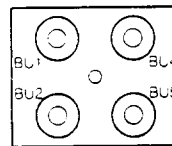
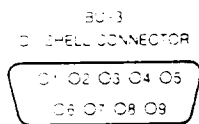




1. Headphones connection
2. "GREEN" switch
3. Mains voltage connector
4. RGB ANALOG/TTL switch
5. "D" SHELL connector
6. RGB/CVBS, LCA switch
7. LCA/CVBS switch
8. Luminance/CVBS input
9. Chrominance input
10. AUDIO-L input
11. AUDIO-R input



INPUT AND OUTPUT SOCKETS

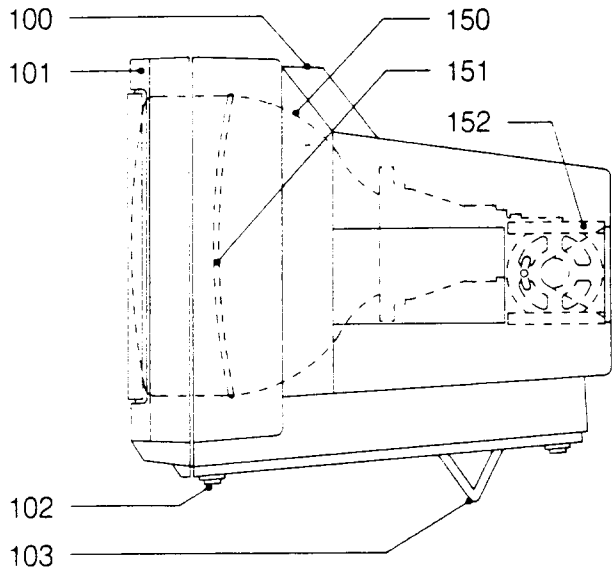


PIN	SIGNAL (GAIN)	SENSITIVITY	IMPEDANCE
1	NC		
2	NC		
3	RED	Linear 0.7V	75Ω
4	GREEN		75Ω
5	BLUE		75Ω
6	INTENSITY	TTL LEVEL	75Ω
7	LINEAR SYNC	LINEAR	
8	HOR SYNC	TTL LEVEL	75Ω
9	VER SYNC	TTL LEVEL	75Ω

BU	SIGNAL	SENSITIVITY	IMPEDANCE
BU1	CHROMINANCE	0.35V rms	75Ω
BU2	LUMINANCE CVBS	0.35V rms	75Ω
BU4	AUDIO R	117mV rms	10kΩ
BU5	AUDIO L	117mV rms	10kΩ

PIN	SIGNAL	SENSITIVITY	IMPEDANCE
1	NC		
2	LEFT CHANNEL	2.1V rms	32Ω
3	RIGHT CHANNEL	2.1V rms	32Ω

CABINET



Cabinet parts

100	3138 107 70460	Back cover
101	3138 107 70440	Front
102	3138 104 12540	Foot
103	3138 104 12500	Stand
104	4822 417 50231	Lock
105	3138 107 70450	Lid
106	3138 104 12520	Knob (5x)
107	3138 104 12620	Push button
108	4822 535 91695	Adjust rod (3x)
105	4822 410 60444	Push button (3x)

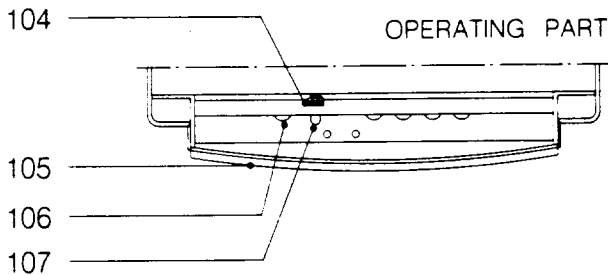
General electrical parts

150	4822 131 20279	Picture tube (type M34EAQ01X+AT1460)
151	4822 157 60478	Degaussing coil
152	4822 240 30296	Loudspeaker

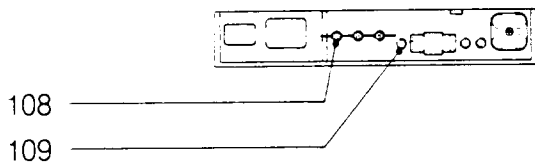
Accessories

4822 321 10657	mains cable
4822 154 50148	Interface cable (9 pole "D" SHELL - 9 pole "D" SHELL)
4822 154 50149	Interface cable (8 DIN-3RCA)
4822 321 60297	Interface cable (1 RCA-2RCA)
4822 154 50147	Interface cable (9 pole "D" SHELL-23 pole "D" SHELL)

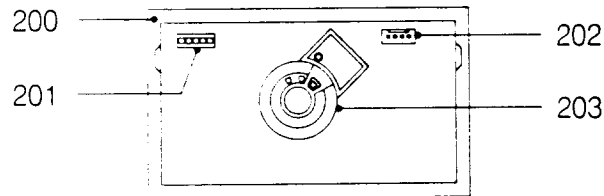
OPERATING PART



CONNECTION PART




CRT PANEL



Mechanical parts

200	4822 212 23316	CRT panel complete
201	4822 265 30784	Socket (5 pins)
202	4822 265 30783	Socket (4 pins)
203	4822 255 70216	Socket for CRT

CAUTION

- 1) Safety requirements stipulate that, during repair, the set should be restored in its original state and that parts, identical to the specified ones, should be applied.
- 2) For safety reasons, the parts provided with the sign  should be replaced by identical parts (for code numbers see electrical parts lists).
- 3) To avoid damages to ICs and transistors, flash-over of the high-tension should be avoided.
- 4) Be careful when performing measurements in the high-tension section and on the picture tube.
- 5) Never change parts when the set is still switched on.
- 6) Safety goggles must be worn during replacement of the picture tube.

ELECTRICAL SETTINGS**1. SETTINGS ON THE CHASSIS****1.1 +128V supply voltage(3414)**

- Apply video signal to the monitor.
- Set volume control 3295, brightness control 3662 and contrast control 3658 to minimum.
- Set trimming potentiometer 3414 in mid-position. (This is a presetting).
- Connect DC voltmeter to junction of resistor 3520 and diode 6453.
- Switch on monitor.
- With trimming potentiometer 3414 set the DC voltage at junction 3524/6453 to 128V.

1.2 Horizontalsynchronisation (3257)

- Apply video signal (cross-hatch pattern) to the monitor.
- Short capacitor 2270. (This capacitor is connected to pin 5 of IC 7270.)
- With trimming potentiometer 3257 adjust the picture so that it is straight.
- Remove the short-circuit on 2270.

1.3 Picture positionsettings

General: For the following settings apply a video signal (cross-hatch pattern) to the monitor.

1.3.1 East-west correction (3537)

- With potentiometer 3537 make the vertical lines on the left and right-hand side of the screen as straight as possible.

1.3.2 Picture width (3534)

- With potentiometer 3534 set the picture width for 14 blocks to 260 mm.

1.3.3 Horizontal picture centering (3264)

- With potentiometer 3264 set the correct horizontal centering.

1.3.4 Vertical picture centering (3583)

- With potentiometer 3583 set the correct vertical picture centering.

1.3.5 Picture height (3550)

- With potentiometer 3550 set the picture height for 10 blocks to 186 mm.

1.3.6. Vertical linearity (3573)

- Adjust the correct vertical linearity with Pre-set potentiometer 3573 IF necessary repeat 1.3.5 and 1.3.6.

1.4 Setting of:

- VG2 (bottom knob on the line output transformer)
- cut-off points of the picture tube (3107, 3117 and 3127)
- white "D" (3671, 3680)
 - Set the brightness to 1/4 of its range and set the contrast to minimum.
 - Set the potentiometers 3107, 3117, 3127, 3671 and 3680 in mechanical mid-position.
 - Set VG2 potentiometer to minimum.
 - Set the signal generator in "pur" position and introduce the respective colours red, green and blue.
 - Using potentiometers 3107, 3117 and 3127 with the corresponding colour pattern, set the voltage on the picture tube pins 8, 6 and 11 to 100V.
 - Apply a white frame and adjust the VG2 potentiometer so that any colour among red, green or blue becomes visible.
 - Set the pattern generator to purity with the colour that was first visible.
 - Reset VG2 potentiometer to just visible light.
 - Adjust the two remaining colours with their corresponding purity colour to the same light output using potentiometers 3107, 3117 or 3127.
 - Return the signal generator to white frame and adjust the potentiometers 3107, 3117 and 3127 so that an optimum background colour is obtained.
 - Using potentiometers 3671 and 3680 (with white frame) adjust the background colour so that at minimum brightness and maximum brightness the background colour is the same.

1.5 Focusing (top knob on line outputtransformer)

- Apply white pattern to monitor.
- Adjust focusing so that the picture at 2/3 of the diagonal lines (counting from center to four corners) of the displayed screen is as sharp as possible.

1.6 Subcarrier oscillator(2613)

- Apply colour bar pattern to monitor.
- Connect 470Ω resistor between point 11 of IC 7610 and earth.
- Adjust 2613 so that the colour picture on the screen is stationary.
- Remove the 470Ω resistor.

1.7 PAL delay line (3619, 5632)

- Apply DEM pattern from a pattern generator to the monitor.
- Set brightness control 3662, contrast control 3658 and colour saturation control 3654 to 3/4 of the range.
- Adjust 3619 so that the "venetian blinds" in the third bar disappear.
- Then adjust 5632 until the "venetian blinds" in the first and fourth bar disappear.
- Readjust 3619 as described above.

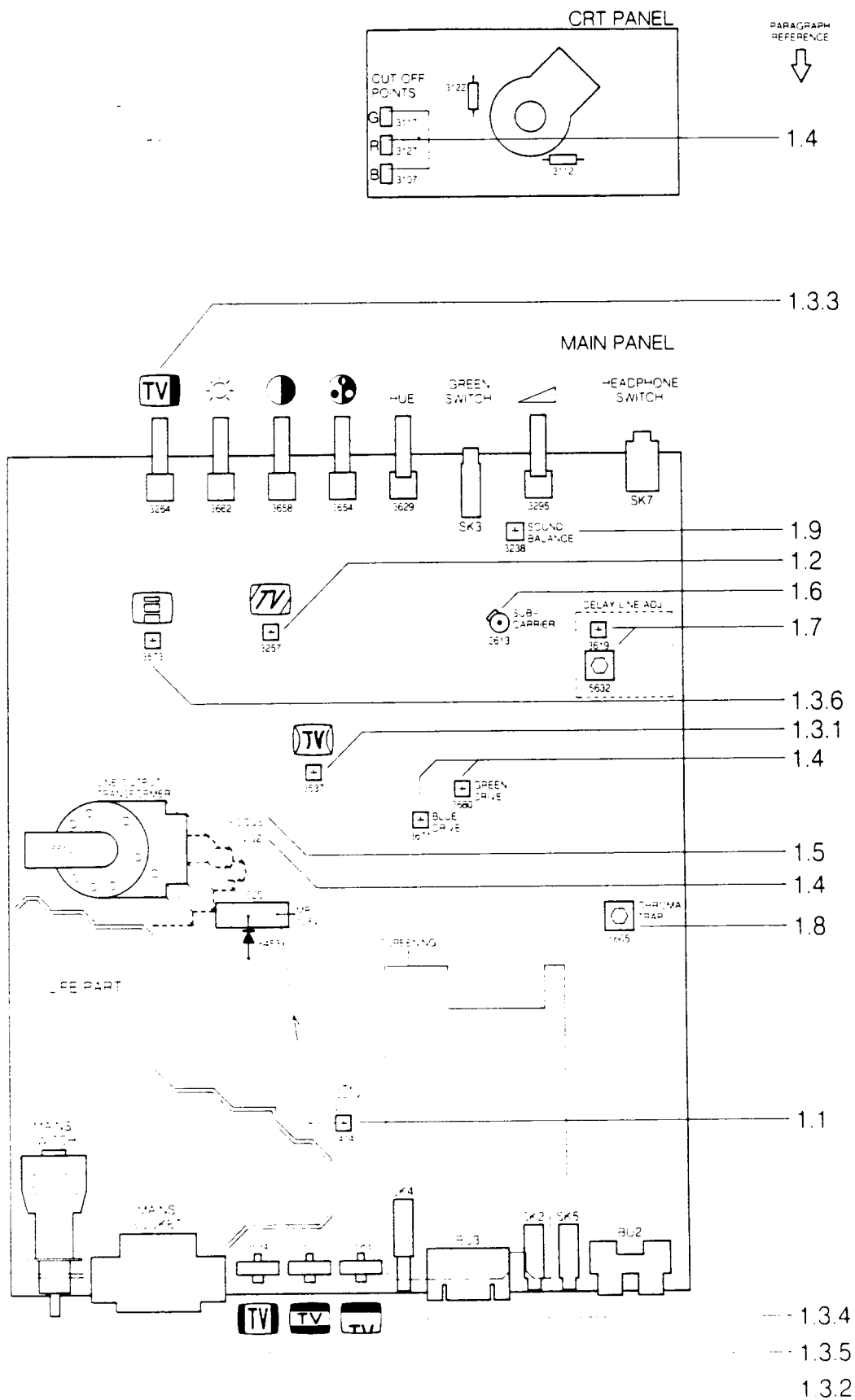
1.8 Chrominance suppression(5605)

- Apply colour bar pattern to the monitor.
- Connect oscilloscope to pin 15 of IC 7640.
- Set 5605 so that the chrominance signal is minimum. (The chrominance signal is superimposed on the grey steps of the luminance signal).

1.9 Audio balance (3298)

- Apply sinusoidal signal of 177mVrms (1KHz) to both audio inputs L/R.
- Set volume control in mid-position.
- Replace the two loudspeakers with a 16Ω resistor.
- Set 3298 so that the output level on both 16Ω resistors is the same.

LOCATION OF ADJUSTING COMPONENTS



2. PICTURE SETTINGS

Remarks:

- The following adjustments only apply to monitors which are fitted with a replaceable deflection unit.
- In case of combi tube replacement, no picture settings is required because it has been done by factory already
- The colour purity and convergence adjustments described hereafter need only to be carried out if a completely new setting is required or if a new picture tube has been fitted. In other cases, for example after replacing the deflection unit, it will not usually be necessary to remove the rubber wedges (G in figure 3). Corrections by means of the multi-pole unit will then suffice.
- Focusing adjustment described in item 1.5 must be done prior to picture settings.

2.1 Colourpurity, see figure 3

- Unscrew the fixing screw "F" on the deflection unit.
- Move the deflection unit and remove the three rubber wedges "G".
- Move the deflection unit forward as far as possible against the glass of the picture tube cone and tighten fixing screw "F" so that the deflection unit can only be shifted slightly.
- Place the multi-pole unit in the position drawn: tighten screw "A" and turn locking ring "B" anticlockwise.
- Position the monitor to face east or west and switch it on. Apply a cross-hatch pattern and set the brightness control to maximum. Allow the monitor to warm up for ten minutes.
- Adjust the static convergence using tags "C" and "D" (if necessary, refer to point 2.2.).
- Turn 3583 for the vertical centering to its mid-position. Switch off the green and blue gun by disconnecting resistors 3122 and 3112.

- By turning the colour purity rings with the "E" tags, the vertical red bar is brought as close as possible to the centre of the screen, whilst the central horizontal line should be as straight as possible.
- Apply a white pattern signal and check that the red bar is in fact in the centre of the screen. If not, switch on the cross-hatch pattern again and move the red bar in the right direction, ensuring that the picture does not move too much in the vertical direction.
- Apply the white pattern signal and move the deflection unit until the whole picture surface is uniformly red.
- Switch on the green and the blue gun. There may be no colour patches in the white picture now obtained. If there are, a minor correction can be made by turning the colour purity rings "E" slightly and/or moving the deflection unit slightly.
- Tighten screw "F" securely.
- Adjust the vertical centering with 3583.
- Proceed to the static and then the dynamic convergence setting.

2.2 Staticconvergence, see figure 3

- Apply a cross-hatch pattern and allow the monitor to warm up for ten minutes.
- Switch off the green gun by disconnecting resistor 3122 and turn locking ring "B" anticlockwise.
- By turning the four-pole rings with the "C" tags the red and blue cross-hatch patterns are placed on top of each other in the centre of the screen.
- Switch on the green gun by connecting resistor 3122 back to its original position and switch off the blue gun by disconnecting 3112.
- By turning the six-pole rings with the "D" tags the red and green patterns are placed on top of each other in the centre of the screen.
- Switch on the blue gun by connecting resistor 3112 back to its original position and tighten ring "B".

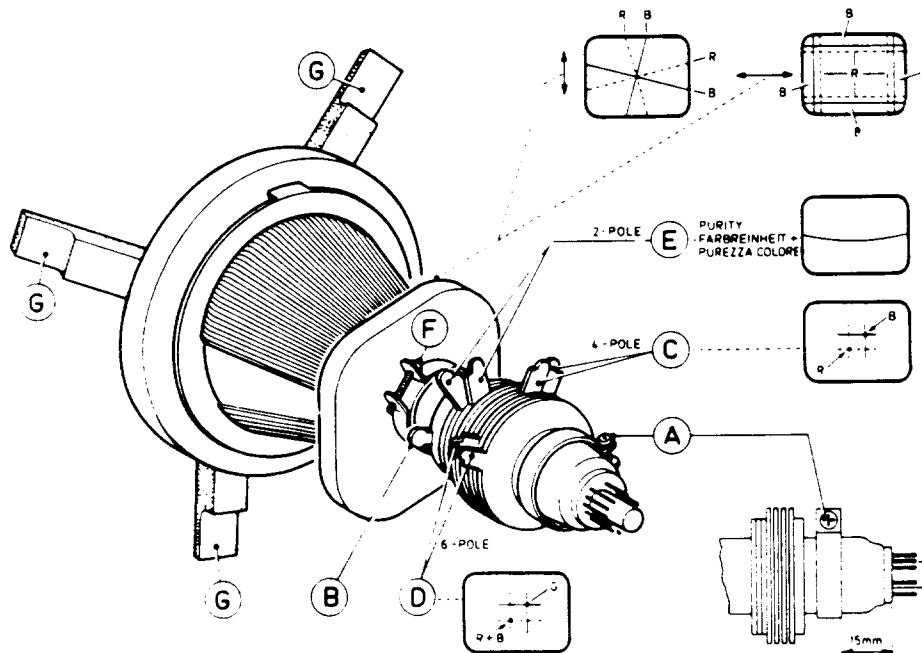


Fig. 3

2.3 Dynamicconvergence

Remark:

The dynamic convergence is achieved by tilting the deflection unit vertically and horizontally. In order to fix the deflection unit in the right position, three rubber wedges are fitted between the glass of the picture tube cone and the deflection unit, as shown in fig. 4d or 5d. Two wedge thicknesses are available, one 7 mm thick, code number 4822 462 40356 and the other 11 mm thick, code number 4822 462 40357.

- First check the colour purity and the static convergence.
- Apply a cross-hatch pattern and switch off the green gun by disconnecting resistor 3122.
- Eliminate the crossing of the central horizontal blue and red line and the crossing of the central vertical blue and red line by vertically tilting the deflection unit. If the deflection unit is in the correct position, then place rubber wedge ①, without removing the paper strip, at the top (figure 4a) or at the bottom (figure 5a).

Figure 4a applies when the unit is tilted upwards and figure 5a applies when the unit is tilted downwards.

- Through the horizontal tilting of the deflection unit, both the horizontal blue and red lines in the upper and lower halves of the picture and the vertical blue and red lines on the left and right-hand side of the picture are placed on top of each other.

If the deflection unit is in the correct position, then place the wedges ② and ③, remove the paper strips and firmly press the adhesive side of these wedges against the glass of the picture tubes as shown in figure 4b or 5b.

- Now place wedge ④ as shown in figure 4c or 5c, remove the paper strip and firmly press the adhesive side of this wedge against the glass of the picture tube cone.
- Remove wedge ① so that the situation according to figure 4d or 5d arises.
- Switch on the green gun by connecting resistor 3122 back to its original position.

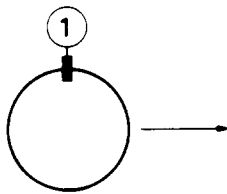


Fig. 4a

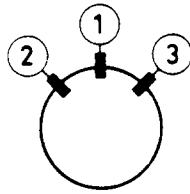


Fig. 4b

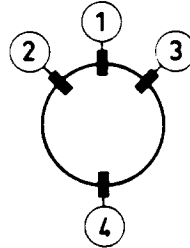


Fig. 4c

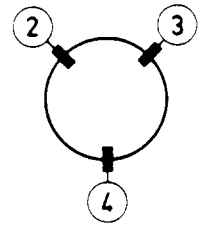


Fig. 4d

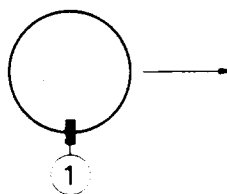


Fig. 5a

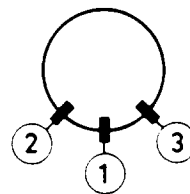


Fig. 5b

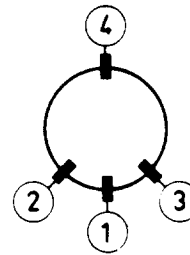


Fig. 5c

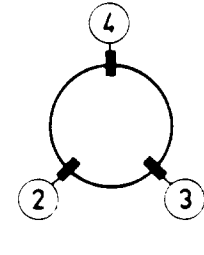
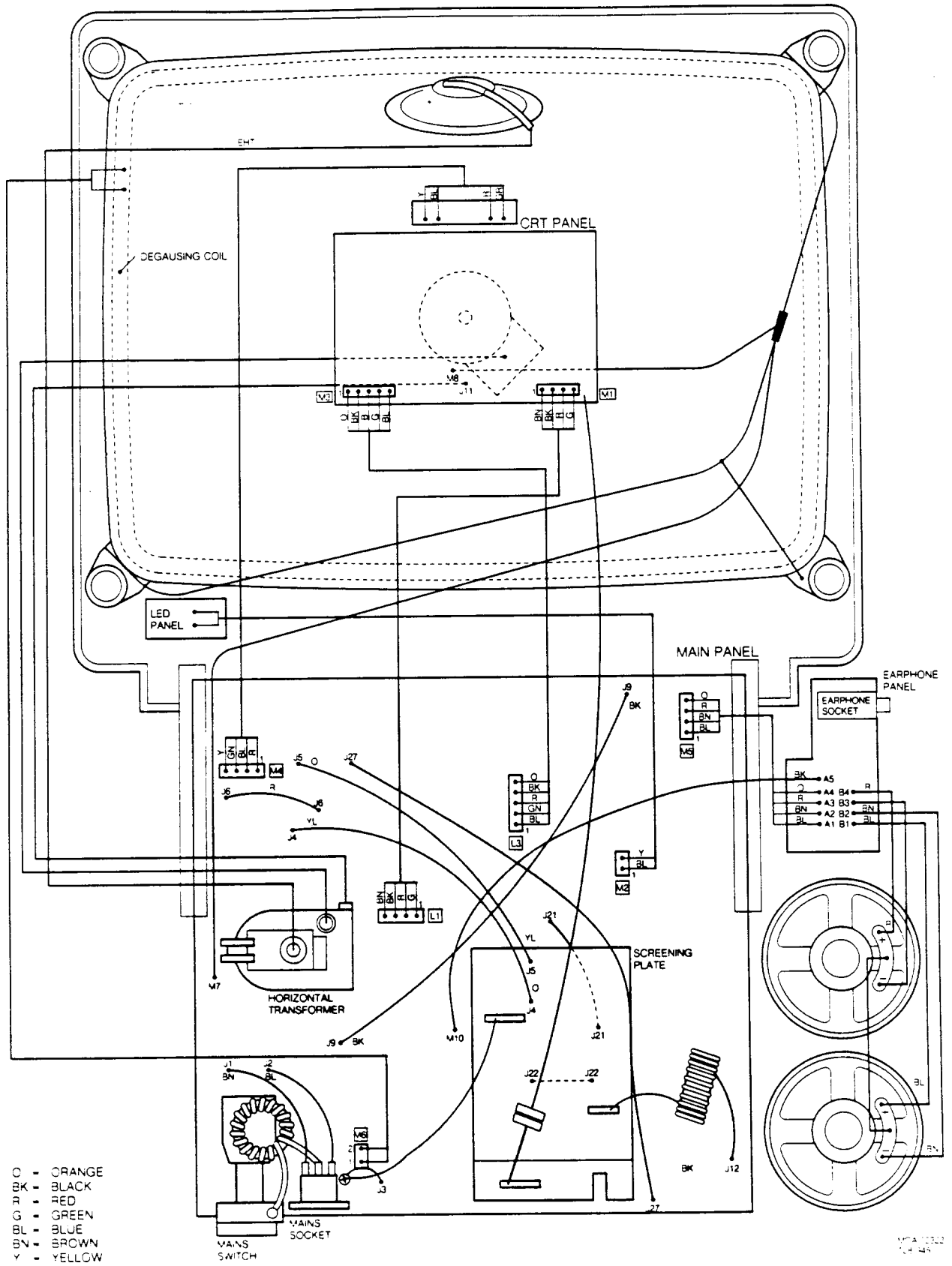


Fig. 5d

WIRING DIAGRAM

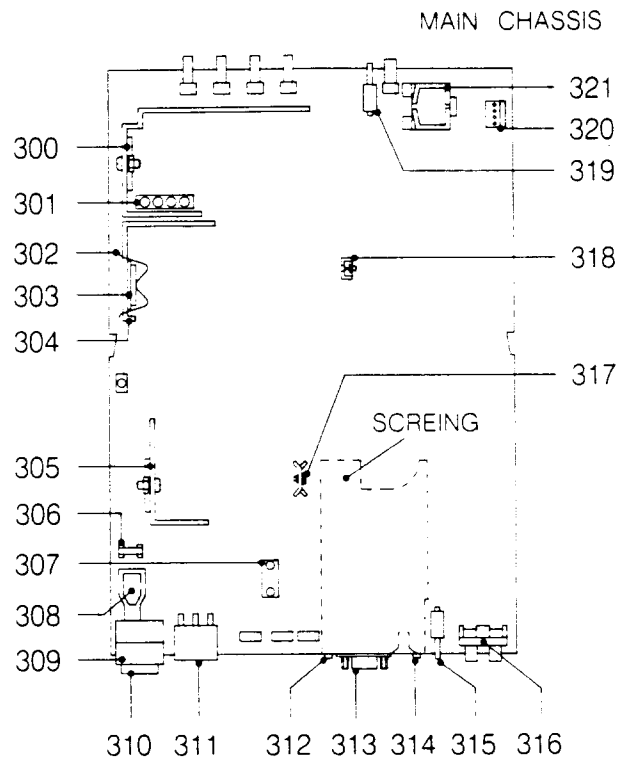


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MAIN CHASSIS PANEL

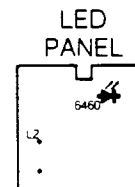
Mechanical parts

300	4822 390 20011	Silicon grease
301	4822 265 30375	Connector
302	4822 492 62076	Spring
303	4822 255 40893	Insulation plate
304	4822 390 20011	Silicon grease
305	4822 390 20011	Silicon grease
306	4822 492 60063	Fuse holder
307	4822 267 40646	Socket
308	4822 276 12445	Power switch (SK1)
309	4822 256 91564	Holder
310	4822 410 60456	Power push button
311	4822 265 30752	Mains socket
312	4822 276 12677	Switch (TTL/analog, SK4)
313	4822 267 40893	"D" SHELL socket (BU3)
314	4822 276 15505	Switch (RGB/CVBS, SK2)
315	4822 276 11505	Switch (LCA/CVBS, SK5)
316	4822 267 40894	Socket (BU1, BU2, BU4, BU5)
317	4822 390 20011	Silicon grease
318	4822 265 20235	Connector
319	4822 276 11505	Switch (SK3)
320	4822 265 30408	Connector
321	4822 390 20011	Silicon grease
	4822 535 30095	EYE LET (1,89x0,18x2,29)
	4822 535 30096	EYE LET (1,52x0,18x2,23)

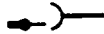




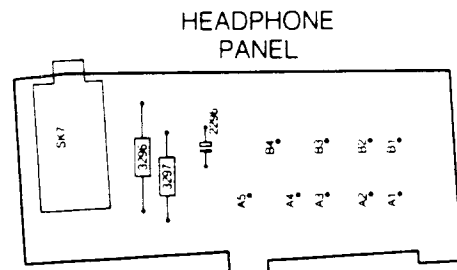
LED PANEL

4822 212 23302 LED panel complete		
	3460	4822 116 52391 1K 0,5W 5%
	6460	4822 130 81701 LED GREEN



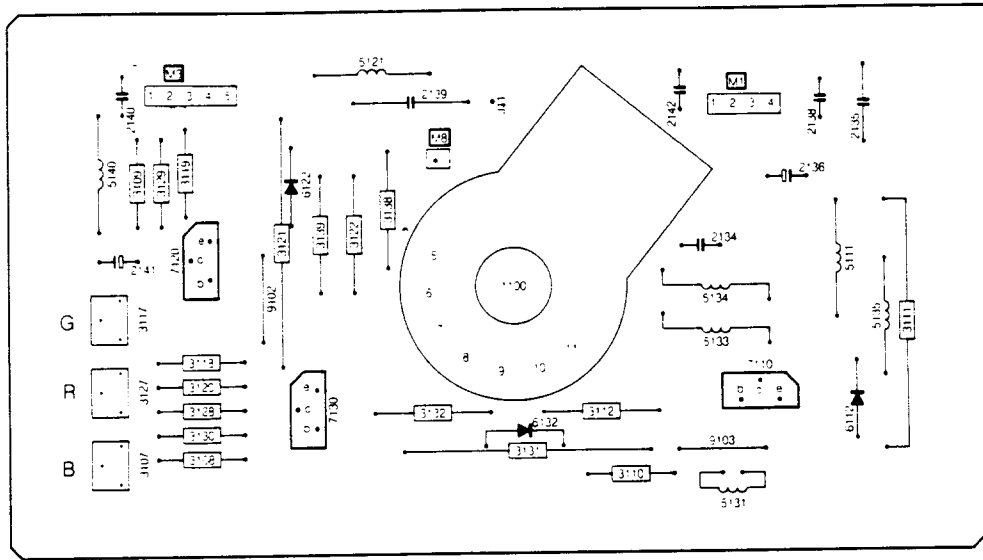
HEADPHONE PANEL

4822 212 23312 Headphone panel complete		
4822 267 31144 Socket for headphone		
	4822 265 30778	Connector assy
	2296	4822 124 22681 ELCO 47μF 16V 20%
	3296	4822 116 52389 100Ω 0,5W 5%
	3297	4822 116 52389 100Ω 0,5W 5%









Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.





CRT PANEL






ELECTRICAL PARTS CRT PANEL

<p></p> <p>2134 4822 122 33646 470pF 10% 500V 2135 4822 121 41677 10nF 10% 400V 2136 4822 124 22023 4.7μF 200V 2128 4822 122 33966 10nF 10% 50V 2139 4822 121 41926 33nF 5% 630V 2140 4822 122 33966 10nF 10% 50V 2141 4822 124 23129 22μF 20% 50V 2142 5322 122 32332 1.5nF 10% 100V</p>	<p></p> <p>3130 4822 116 52391 1k 5% 0.5W 3131 4822 116 82126 3k9 3W 3132 4822 116 53423 470Ω 1% 0.6W 3138 4822 116 80547 1k5 5% 0.5W 3139 4822 116 80547 1k5 5% 0.5W</p>
<p></p> <p>3107 5322 100 11542 4k7 TRIM LINEAR 3108 4822 116 52391 1k 5% 0.5W 3109 4822 116 52367 47Ω 5% 0.5W 3110 4822 116 52391 1k 5% 0.5W 3111 4822 116 82126 3k9 3W 3112 4822 116 53423 470Ω 1% 0.6W 3117 5322 100 11542 4k7 TRIM LINEAR 3118 4822 116 52391 1k 5% 0.5W 3119 4822 116 52367 47Ω 5% 0.5W 3120 4822 116 52391 1k 5% 0.5W 3121 4822 116 82126 3k9 3W 3122 4822 116 53423 470Ω 1% 0.6W 3127 5322 100 11542 4k7 TRIM LINEAR 3128 4822 116 52391 1k 5% 0.5W 3129 4822 116 52367 47Ω 5% 0.5W</p>	<p></p> <p>5111 4822 157 60485 5121 4822 157 60485 5131 4822 157 60485 5133 4822 152 20587 7.5μH 5134 4822 152 20587 7.5μH 5135 4822 157 60483 5140 4822 157 60483</p>
	<p></p> <p>6112 4822 130 30842 BAV21 6122 4822 130 30842 BAV21 6132 4822 130 30842 BAV21</p>
	<p></p> <p>7110 4822 130 41773 BF869 7120 4822 130 41773 BF869 7130 4822 130 41773 BF869</p>





ELECTRICAL PARTS MAIN CHASSIS

	1401	4822 253 30025	T2A		2441	4822 122 33645	220pF 500V
	1627	4822 242 70304	8.867 238 MHz	2442	4822 122 33645	220pF 500V	
	2251	4822 121 50994	100 nF 100V	2443	4822 122 33645	220pF 500V	
	2258	4822 121 51258	2.7nF 500V	2444	4822 122 33645	220pF 500V	
	2261	4822 121 42636	150nF 10% 63V	2445	4822 124 41865	470μF 20% 35V	
	2262	4822 121 50994	100 nF 100V	2446	4822 124 22357	470μF 25V	
	2264	4822 122 31125	4.7nF 80% 63V	2447	4822 124 22357	470μF 25V	
	2266	4822 124 41659	4.7μF 20% 25V	2450	4822 124 23131	10μF 20% 50V	
	2267	4822 121 50994	100 nF 100V	2451	4822 124 41281	47 μF 200V	
	2268	4822 124 22669	1μF 20% 50V	2452	4822 124 23129	22μF 50V	
	2269	4822 124 23129	22μF 20% 50V	2510	4822 122 33969	27pF 5% 500V	
	2270	5322 122 32343	47pF 2% 100V	2511	4822 124 22672	2.2μF 20% 63V	
	2272	4822 124 23129	22μF 20% 50V	2512	4822 124 23129	22μF 20% 50V	
	2273	4822 122 30103	22nF 80% 63V	2514	4822 122 40427	2kV 470pF	
	2274	4822 124 22678	100μF 20% 16V	2515	4822 124 41867	1μF 20% 250V	
	2275	4822 122 33966	10nF 10% 50V	2517	4822 121 43061	8.2nF 5% 1.6kV	
	2289	4822 121 50994	100 nF 100V	2518	4822 121 43392	22nF 10%	
	2290	4822 122 30027	1nF 10% 100V	2519	4822 121 43511	560nF 10% 250V	
	2291	5322 124 10623	1000μF 20% 16V	2520	4822 124 22499	10μF 160V	
	2292	4822 121 50994	100 nF 100V	2524	4822 124 90034	4MUF 50V	
	2294	4822 121 50994	100 nF 100V	2526	4822 124 22669	1μF 20% 50V	
	2295	4822 122 30027	1nF 10% 100V	2531	4822 121 41879	120nF 10% 100V	
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	2304	4822 121 42637	220nF 20% 63V	2540	4822 122 33645	220pF 500V	
	2305	4822 122 30057	2.7nF 10% 100V	2541	4822 124 23129	22μF 20% 50V	
	2307	4822 122 32185	10pF 2% 100V	2543	4822 121 41925	15nF 10% 100V	
	2319	4822 122 33966	10nF 10% 50V	2544	4822 121 40336	47nF 10% 250V	
	2320	4822 122 30103	22nF 80% 63V	2547	4822 124 22672	2.2μF 20% 63V	
	2327	4822 124 23129	22μF 20% 50V	2554	4822 122 31125	4.7nF 80% 63V	
	2328	4822 124 23129	22μF 20% 50V	2555	4822 122 31125	4.7nF 80% 63V	
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	2360	4822 122 31353	330pF 2% 100V	2560	5322 124 41431	22μF 20% 35V	
	2361	4822 124 23131	10μF 20% 50V	2561	5322 124 41431	22μF 20% 35V	
	2363	4822 122 30103	22nF 80% 63V	2563	4822 124 41865	470μF 20% 35V	
	2365	4822 122 30103	22nF 80% 63V	2571	4822 124 41866	680μF 20% 35V	
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	2402	5322 121 44212	1μF 10% 275B	2602	4822 122 30103	22nF 80% 63V	
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	2404	4822 122 33652	2.2nF 20% 400V	2604	4822 124 22669	1μF 20% 50V	
	2405	4822 121 43385	47nF 20% 250V	2605	4822 121 41681	470nF 10% 40V	
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	2407	4822 122 40348	2.2μF 1kV	2607	4822 121 50994	100nF 100V	
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	2409	4822 122 40348	2.2μF 1kV	2609	4822 122 31823	15pF 2% 100V	
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	2412	4822 124 21722	100μF 50% 400V	2611	4822 122 33966	10nF 10% 50V	
	2416	4822 124 23131	10μF 20% 50V	2612	4822 121 41681	470nF 10% 40V	
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	2422	4822 124 22669	1μF 20% 50V	2614	4822 122 33966	10nF 10% 50V	
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	2431	5322 122 32818	2.2nF 10% 100V	2640	4822 124 22678	100μF 20% 16V	
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				2645	4822 121 50992	330nF 10% 63V	
				2646	4822 121 50992	330nF 10% 63V	
				2647	4822 124 41659	4.7μF 20% 25V	
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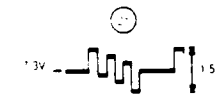
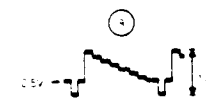
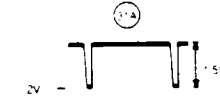
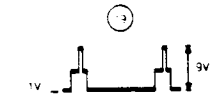
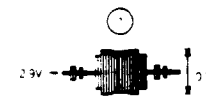
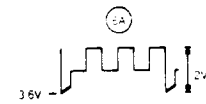
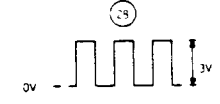
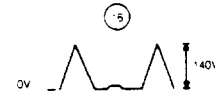
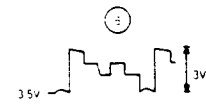
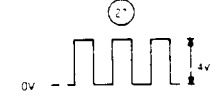
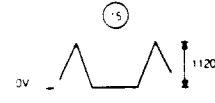
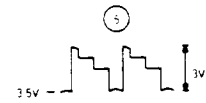
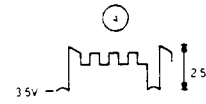
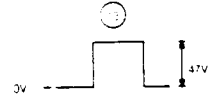
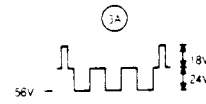
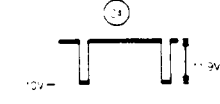
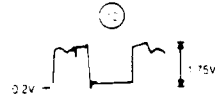
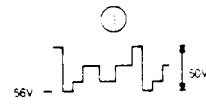
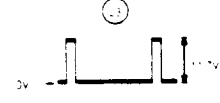
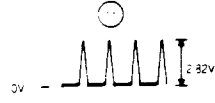
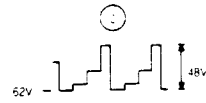
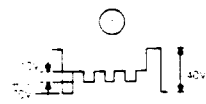
					
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2652	4822 121 50994	100nF 100V	3342	4822 116 52391	1k 5% 0.5W
2653	4822 121 50994	100nF 100V	3344	4822 116 52846	150Ω 1% 0.6W
2654	4822 121 50994	100nF 100V	3345	4822 116 52416	330Ω 5% 0.5W
2669	4822 124 23131	10μF 20% 50V	3346	4822 116 52416	330Ω 5% 0.5W
2673	5322 122 34148	330pF 2% 100V	3347	4822 116 52389	100Ω 5% 0.5W
2682	5322 122 34148	330pF 2% 100V	3350	4822 116 52465	27k 5% 0.5W
2688	5322 122 34148	330pF 2% 100V	3351	4822 116 52452	10k 5% 0.5W
2695	4822 122 30103	22nF 80% 63V	3352	4822 116 52425	470Ω 5% 0.5W
2696	4822 124 22681	47μF 20% 16V	3353	4822 116 52389	100Ω 5% 0.5W
2697	4822 124 22681	47μF 20% 16V	3360	4822 116 52391	1k 5% 0.5W
			3361	4822 116 52391	1k 5% 0.5W
3257	4822 100 11319	4k7 pot.m.	3362	4822 116 52509	220k 5% 0.5W
3258	4822 116 52467	33k 5% 0.5W	3363	4822 116 52417	3k3 5% 0.5W
3261	4822 116 53083	15k 1% 0.6W	3364	4822 116 53025	2k2 1% 0.6W
3262	4822 116 52426	4k7 5% 0.5W	3365	4822 116 52509	220k 5% 0.5W
3263	4822 116 52463	22k 5% 0.5W	3368	4822 116 52456	12k 5% 0.5W
3264	4822 100 90079	10k pot.m.	3369	4822 116 52472	47k 5% 0.5W
3266	4822 116 52399	1k5 5% 0.5W	3370	4822 116 52441	6k8 5% 0.5W
3268	4822 116 52441	6k8 5% 0.5W	3404	4822 116 40161	DUAL PTC
3269	4822 116 52389	100Ω 5% 0.5W	3410	4822 113 80466	4Ω7 10% 7W
3271	4822 116 52502	1M5 5% 0.5W	3411	4822 116 52463	22k 5% 0.5W
3272	4822 116 52425	470Ω 5% 0.5W	3412	4822 116 52467	33k 5% 0.5W
3273	4822 111 30499	4Ω7 5% 0.33W	3413	4822 116 52413	2k7 5% 0.5W
3274	4822 116 52452	10k 5% 0.5W	3414	4822 100 11348	1k 30% LIN
3288	4822 116 52463	22k 5% 0.5W	3415	4822 116 52413	2k7 5% 0.5W
3289	4822 116 52463	22k 5% 0.5W	3416	4822 116 52426	4k7 5% 0.5W
3293	4822 116 52463	22k 5% 0.5W	3417	4822 116 52416	330Ω 5% 0.5W
3294	4822 116 52463	22k 5% 0.5W	3420	4822 116 52302	750k 5% 0.5W
3295	4822 100 90082	20k pot.m.	3421	4822 116 52302	750k 5% 0.5W
3298	4822 100 11392	47k LIN, pot.m.	3422	4822 116 52846	150Ω 1% 0.6W
3301	4822 116 52463	22k 5% 0.5W	3425	4822 116 52412	270Ω 5% 0.5W
3302	4822 116 52452	10k 5% 0.5W	3426	5322 116 53734	24Ω 5% 0.5W
3303	5322 116 53339	75Ω 1% 0.6W	3427	4822 116 52417	3k3 5% 0.5W
3304	4822 116 52425	470Ω 5% 0.5W	3428	4822 116 52422	3k9 5% 0.5W
3306	4822 116 52391	1k 5% 0.5W	3429	4822 116 82128	100Ω 5% 1W
3307	4822 116 52428	560Ω 5% 0.5W	3430	4822 116 82128	100Ω 5% 1W
3308	4822 116 53025	2k2 1% 0.6W	3431	4822 116 82128	100Ω 5% 1W
3309	4822 116 53025	2k2 1% 0.6W	3432	4822 116 80388	22k 5W
3311	5322 116 53339	75Ω 1% 0.6W	3436	4822 116 52184	18Ω 5% 0.5W
3315	4822 116 53025	2k2 1% 0.6W	3443	4822 111 30487	1Ω5 5% 0.33W
3316	4822 116 53025	2k2 1% 0.6W	3451	4822 111 30499	4Ω7 5% 0.33W
3317	4822 116 53025	2k2 1% 0.6W	3452	4822 116 52391	1k 5% 0.5W
3318	4822 116 53025	2k2 1% 0.6W	3460	4822 116 52391	1k 5% 0.5W
3319	4822 116 52391	1k 5% 0.5W	3470	4822 116 52389	100Ω 5% 0.5W
3320	4822 111 30487	1Ω5 5% 0.33W	3509	4822 116 52849	220Ω 1% 0.6W
3321	4822 116 52416	330Ω 5% 0.5W	3510	4822 116 53025	2k2 1% 0.6W
3322	4822 116 52416	330Ω 5% 0.5W	3511	4822 116 60239	1k 2W
3323	4822 116 52425	470Ω 5% 0.5W	3512	4822 111 30499	4Ω7 5% 0.33W
3324	4822 116 52416	330Ω 5% 0.5W	3513	4822 113 60185	2.2Ω 2W
3325	4822 116 52416	330Ω 5% 0.5W	3514	4822 116 52375	68Ω 5% 0.5W
3326	4822 116 52416	330Ω 5% 0.5W	3515	4822 116 52467	33k 5% 0.5W
3327	4822 116 52425	470Ω 5% 0.5W	3520	4822 113 80465	10Ω 5% 5W
3328	4822 116 52849	220Ω 1% 0.6W	3522	4822 116 52253	2k 5% 0.5W
3329	4822 116 52452	10k 5% 0.5W	3523	4822 116 52253	2k 5% 0.5W
3330	4822 111 30499	4Ω7 5% 0.33W	3526	4822 111 30499	4Ω7 5% 0.33W
3331	4822 116 52941	430Ω 1% 0.6W	3530	4822 116 53025	2k2 1% 0.6W
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3337	5322 116 53339	75Ω 1% 0.6W	3540	4822 111 30487	1Ω5 5% 0.33W
3340	4822 116 52391	1k 5% 0.5W	3541	4822 116 52367	47Ω 5% 0.5W
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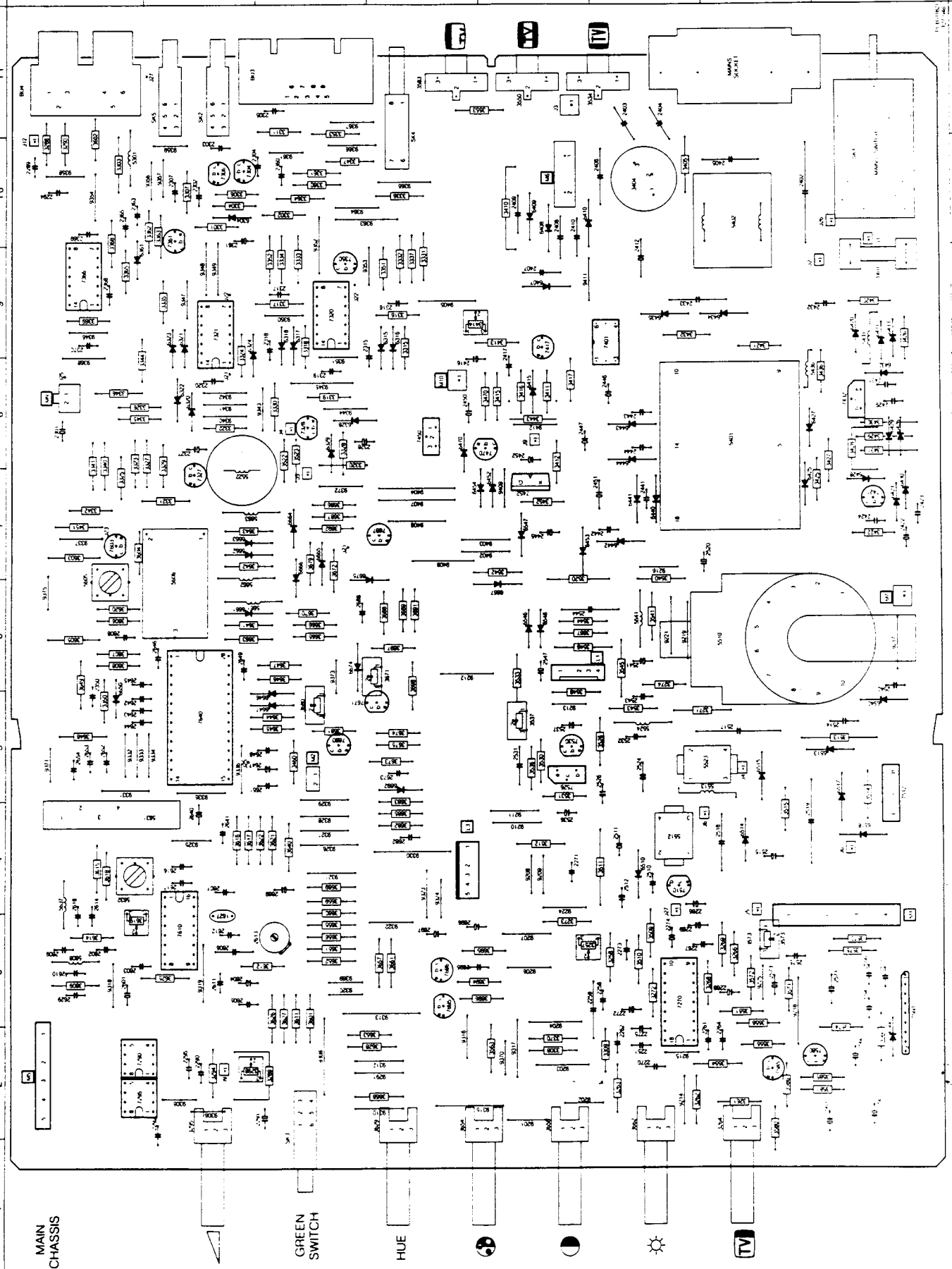
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	3553	4822 116 52389	100Ω 5% 0.5W		3672	4822 116 52399	1k5 5% 0.5W
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	3560	4822 116 52215	220Ω 5% 0.5W		3679	4822 116 52389	100Ω 5% 0.5W
	3563	4822 111 30499	4Ω7 5% 0.33W		3680	4822 105 11023	1k 30% 0.1W
	3570	4822 116 52416	330Ω 5% 0.5W		3681	4822 116 52399	1k5 5% 0.5W
	3571	5322 116 53729	180k 1% 0.6W		3682	4822 116 52375	68Ω 5% 0.5W
	3572	4822 116 53083	15k 1% 0.6W		3683	4822 116 52441	6k8 5% 0.5W
	3573	4822 100 11141	10k pot.m.		3685	4822 116 52846	150Ω 1% 0.6W
	3574	5322 116 53283	1Ω2 1% 0.6W		3686	4822 116 52425	470Ω 5% 0.5W
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	3606	4822 116 52403	180Ω 5% 0.5W		5301	4822 158 10837	
	3607	4822 116 52425	470Ω 5% 0.5W		5401	4822 148 60218	
	3608	4822 116 52416	330Ω 5% 0.5W		5402	4822 157 60489	
	3609	4822 116 53025	2k2 1% 0.6W		5431	4822 157 52233	10μH
	3612	4822 116 52426	4k7 5% 0.5W		5436	4822 242 71344	2μH
	3614	4822 116 52395	1k2 5% 0.5W		5510	4822 140 10381	
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	3616	4822 116 52849	220Ω 1% 0.6W		5513	4822 152 20587	7.5μH
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	3620	4822 116 52452	10k 5% 0.5W		5541	4822 157 60483	
	3621	5322 116 53737	3M3 1% 0.6W		5605	4822 157 60487	
	3622	5322 116 53737	3M3 1% 0.6W		5606	4822 157 51056	DL330
	3640	4822 111 30499	4Ω7 5% 0.33W		5608	4822 157 52697	27μH
	3641	4822 116 52426	4k7 5% 0.5W		5631	4822 320 40096	DL 701
	3642	4822 116 52426	4k7 5% 0.5W		5632	4822 157 60484	
	3643	4822 116 52426	4k7 5% 0.5W		5637	4822 157 52494	6μH
	3644	4822 116 52437	5k1 5% 0.5W		5661	4822 152 20626	
	3645	4822 116 52391	1k 5% 0.5W		5662	4822 152 20626	
	3646	4822 116 52452	10k 5% 0.5W		5663	4822 152 20626	
	3647	4822 116 52454	11k 5% 0.5W				
	3648	4822 116 52416	330Ω 5% 0.5W		6304	4822 130 30621	1N4148
	3649	5322 116 53479	22Ω 1% 0.6W		6315	4822 130 30621	1N4148
	3651	4822 116 52476	68k 5% 0.5W		6316	4822 130 30621	1N4148
	3652	4822 116 53083	15k 1% 0.6W		6317	4822 130 30621	1N4148
	3653	4822 116 53083	15k 1% 0.6W		6318	4822 130 30621	1N4148
	3654	4822 100 90079	10k pot.m.		6320	4822 130 30621	1N4148
	3655	4822 116 52848	200k 1% 0.6W		6321	4822 130 30621	1N4148
	3656	4822 116 52923	56k 1% 0.6W		6322	4822 130 30621	1N4148
	3657	4822 116 53547	150k 1% 0.6W		6323	4822 130 30621	1N4148
	3658	4822 100 90081	10k pot.m.		6324	4822 130 30621	1N4148
	3659	4822 116 53547	150k 1% 0.6W		6328	4822 130 34167	BZX79-B6V2
	3660	4822 116 53083	15k 1% 0.6W		6329	4822 130 30621	1N4148
	3661	4822 116 52455	110k 5% 0.5W				
	3662	4822 100 90081	10k pot.m.				
	3663	4822 116 52452	10k 5% 0.5W				
	3665	4822 116 52389	100Ω 5% 0.5W				

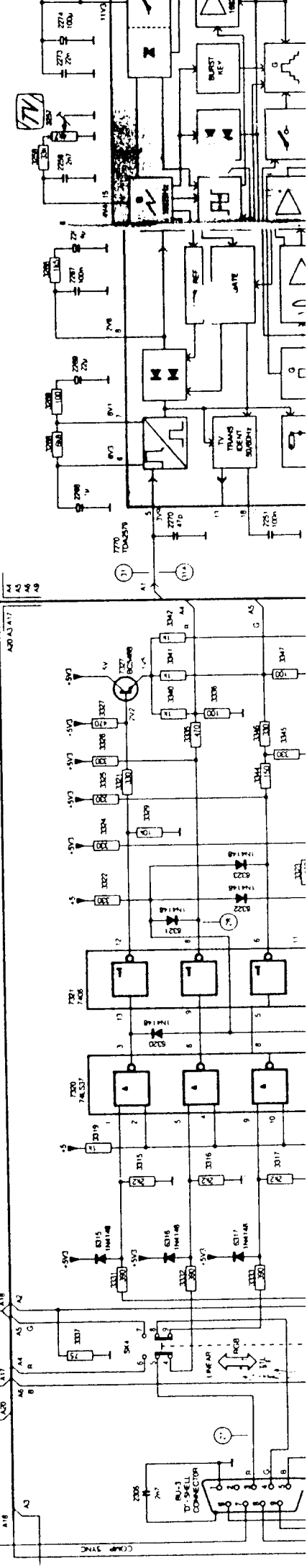
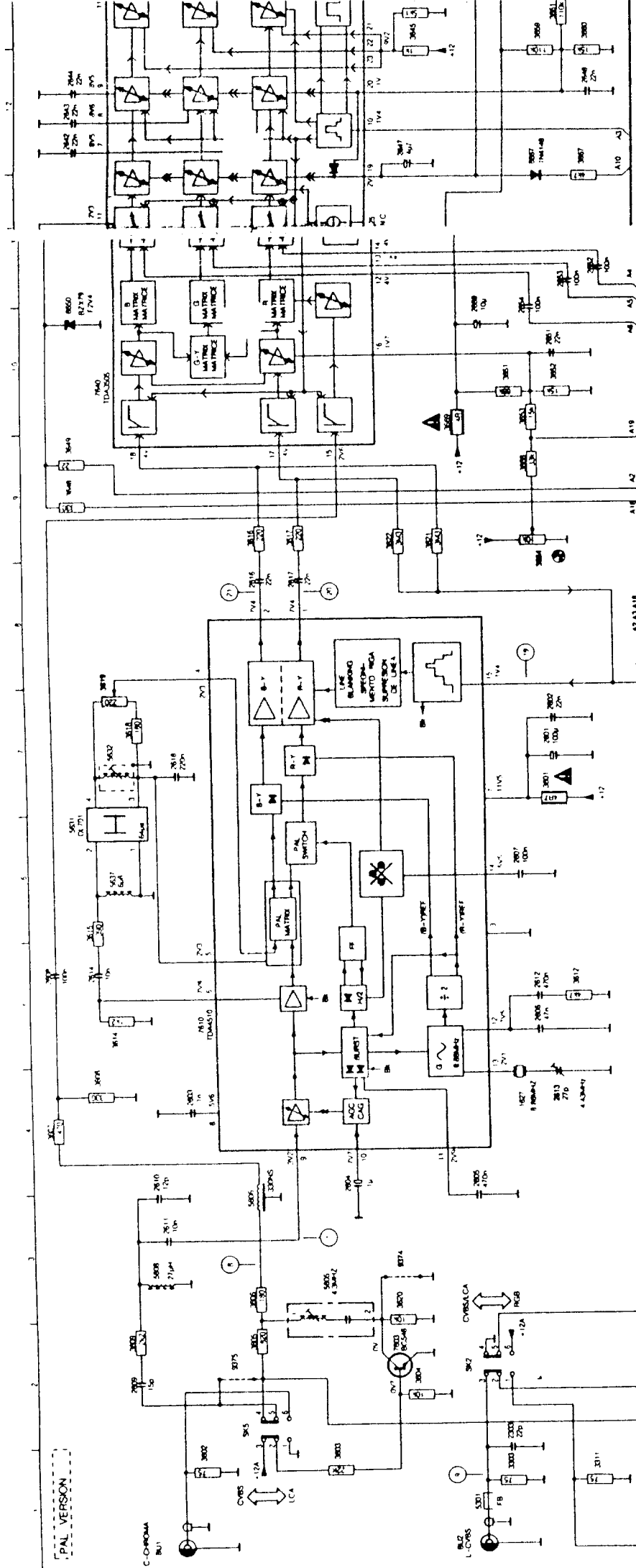
ELECTRICAL PARTS MAIN CHASSIS

6361	4822 130 30621	1N4148	7270	4822 209 72363	TDA2579A/N8
6407	4822 130 31933	1N5061	7290	4822 209 60956	TDA7052/N1
6408	4822 130 31933	1N5061	7295	4822 209 60956	TDA7052/N1
6409	4822 130 31933	1N5061	7304	4822 130 40938	BC548
6410	4822 130 31933	1N5061	7306	4822 130 44197	BC558B
6415	4822 130 34167	BZX79-B6V2	7320	4822 209 80916	N74LS37N
6421	4822 130 30621	1N4148	7321	5322 209 86327	N7406N
6425	4822 130 30621	1N4148	7327	4822 130 40938	BC548
6426	4822 130 30621	1N4148	7328	4822 130 41344	BC337-40
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6428	4822 130 80227	BZX79-C9V1	7361	4822 130 44196	BC548C
6429	4822 130 30621	1N4148	7366	4822 209 10223	HEF4077BP
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6432	4822 130 30621	1N4148	7421	4822 130 41344	BC337-40
6433	4822 130 34174	BZX79-C4V7	7432	4822 130 42679	BUT11AF
6434	4822 130 80216	1N5062	7450	4822 209 81726	MC7812CT
6435	4822 130 80216	1N5062	7452	5322 130 24081	BT151-500R
6440	4822 130 32833	RGP15k	7470	4822 130 44197	BC558B
6441	4822 130 32833	RGP15k	7510	4822 130 41053	BC639
6442	4822 130 42606	BYD33J	7512	4822 130 61265	BU508AF
6443	5322 130 31971	RGP15D	7526	4822 130 41774	BD826
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6514	4822 130 42606	BYD33J	7671	4822 130 40937	BC548B
6515	4822 130 42606	BYD33J	7680	4822 130 40937	BC548B
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3217 A7	3218 B8	3219 C9	3220 D0	3221 E1	3222 F2	3223 G3	3224 H4	3225 I5	3226 J6	3227 K7	3228 L8	3229 M9	3230 N0	3231 O1	3232 P2	3233 Q3	3234 R4	3235 S5	3236 T6	3237 U7	3238 V8	3239 W9	3240 X0	3241 Y1	3242 Z2	3243 AA	3244 AB	3245 AC	3246 AD	3247 AE	3248 AF	3249 AG	3250 AH	3251 AI	3252 AJ	3253 AK	3254 AL	3255 AM	3256 AN	3257 AO	3258 AP	3259 AQ	3260 AR	3261 AS	3262 AT	3263 AU	3264 AV	3265 AW	3266 AX	3267 AY	3268 AZ	3269 BA	3270 BB	3271 BC	3272 BD	3273 BE	3274 BF	3275 BG	3276 BH	3277 BI	3278 BJ	3279 BK	3280 BL	3281 BM	3282 BN	3283 BO	3284 BP	3285 BQ	3286 BR	3287 BS	3288 BT	3289 BU	3290 BV	3291 BW	3292 BX	3293 BY	3294 BZ	3295 CA	3296 CB	3297 CC	3298 CD	3299 CE	3300 CF	3301 CG	3302 CH	3303 CI	3304 CJ	3305 CK	3306 CL	3307 CM	3308 CN	3309 CO	3310 CP	3311 CQ	3312 CR	3313 CS	3314 CT	3315 CU	3316 CV	3317 CW	3318 CX	3319 CY	3320 CZ	3321 DA	3322 DB	3323 DC	3324 DD	3325 DE	3326 DF	3327 DG	3328 DH	3329 DI	3330 DJ	3331 DK	3332 DL	3333 DM	3334 DN	3335 DO	3336 DP	3337 DQ	3338 DR	3339 DS	3340 DT	3341 DU	3342 DV	3343 DW	3344 DX	3345 DY	3346 DZ	3347 EA	3348 EB	3349 EC	3350 ED	3351 EE	3352 EF	3353 EG	3354 EH	3355 EI	3356 EJ	3357 EK	3358 EL	3359 EM	3360 EN	3361 EO	3362 EP	3363 EQ	3364 ER	3365 ES	3366 ET	3367 EU	3368 EV	3369 EW	3370 EX	3371 EY	3372 EZ	3373 FA	3374 FB	3375 FC	3376 FD	3377 FE	3378 FF	3379 FG	3380 FH	3381 FI	3382 FJ	3383 FK	3384 FL	3385 FM	3386 FN	3387 FO	3388 FP	3389 FQ	3390 FR	3391 FS	3392 FT	3393 FU	3394 FV	3395 FW	3396 FX	3397 FY	3398 FZ	3399 GA	3400 GB	3401 GC	3402 GD	3403 GE	3404 GF	3405 GG	3406 GH	3407 GI	3408 GJ	3409 GK	3410 GL	3411 GM	3412 GN	3413 GO	3414 GP	3415 GQ	3416 GR	3417 GS	3418 GT	3419 GU	3420 GV	3421 GW	3422 GX	3423 GY	3424 GZ	3425 HA	3426 HB	3427 HC	3428 HD	3429 HE	3430 HF	3431 HG	3432 HH	3433 HI	3434 HJ	3435 HK	3436 HL	3437 HM	3438 HN	3439 HO	3440 HP	3441 HQ	3442 HR	3443 HS	3444 HT	3445 HU	3446 HV	3447 HW	3448 HX	3449 HY	3450 HZ	3451 IA	3452 IB	3453 IC	3454 ID	3455 IE	3456 IF	3457 IG	3458 IH	3459 II	3460 IJ	3461 IK	3462 IL	3463 IM	3464 IN	3465 IO	3466 IP	3467 IQ	3468 IR	3469 IS	3470 IT	3471 IU	3472 IV	3473 IW	3474 IX	3475 IY	3476 IZ	3477 JA	3478 JB	3479 JC	3480 JD	3481 JE	3482 JF	3483 JG	3484 JH	3485 JI	3486 JJ	3487 JK	3488 JL	3489 JM	3490 JN	3491 JO	3492 JP	3493 JQ	3494 JR	3495 JS	3496 JT	3497 JU	3498 JV	3499 JW	3500 JX	3501 JY	3502 JZ	3503 KA	3504 KB	3505 KC	3506 KD	3507 KE	3508 KF	3509 KG	3510 KH	3511 KI	3512 KJ	3513 KK	3514 KL	3515 KM	3516 KN	3517 KO	3518 KP	3519 KQ	3520 KR	3521 KS	3522 KT	3523 KU	3524 KV	3525 KW	3526 KX	3527 KY	3528 KZ	3529 LA	3530 LB	3531 LC	3532 LD	3533 LE	3534 LF	3535 LG	3536 LH	3537 LI	3538 LJ	3539 LK	3540 LL	3541 LM	3542 LN	3543 LO	3544 LP	3545 LQ	3546 LR	3547 LS	3548 LT	3549 LU	3550 LV	3551 LW	3552 LX	3553 LY	3554 LZ	3555 MA	3556 MB	3557 MC	3558 MD	3559 ME	3560 MF	3561 MG	3562 MH	3563 MI	3564 MJ	3565 MK	3566 ML	3567 MN	3568 MO	3569 MP	3570 MQ	3571 MR	3572 MS	3573 MT	3574 MU	3575 MV	3576 MW	3577 MX	3578 MY	3579 MZ	3580 NA	3581 NB	3582 NC	3583 ND	3584 NE	3585 NF	3586 NG	3587 NH	3588 NI	3589 NJ	3590 NK	3591 NL	3592 NM	3593 NN	3594 NO	3595 NP	3596 NQ	3597 NR	3598 NS	3599 NT	3600 NU	3601 NV	3602 NW	3603 NX	3604 NY	3605 NZ	3606 OA	3607 OB	3608 OC	3609 OD	3610 OE	3611 OF	3612 OG	3613 OH	3614 OI	3615 OJ	3616 OK	3617 OL	3618 OM	3619 ON	3620 OO	3621 OP	3622 OQ	3623 OR	3624 OS	3625 OT	3626 OU	3627 OV	3628 OW	3629 OX	3630 OY	3631 OZ	3632 PA	3633 PB	3634 PC	3635 PD	3636 PE	3637 PF	3638 PG	3639 PH	3640 PI	3641 PJ	3642 PK	3643 PL	3644 PM	3645 PN	3646 PO	3647 PP	3648 PQ	3649 PR	3650 PS	3651 PT	3652 PU	3653 PV	3654 PW	3655 PX	3656 PY	3657 PZ	3658 QA	3659 QB	3660 QC	3661 QD	3662 QE	3663 QF	3664 QG	3665 QH	3666 QI	3667 QJ	3668 QK	3669 QL	3670 QM	3671 QN	3672 QO	3673 QP	3674 QQ	3675 QR	3676 QS	3677 QT	3678 QU	3679 QV	3680 QW	3681 QX	3682 QY	3683 QZ	3684 RA	3685 RB	3686 RC	3687 RD	3688 RE	3689 RF	3690 RG	3691 RH	3692 RI	3693 RJ	3694 RK	3695 RL	3696 RM	3697 RN	3698 RO	3699 RP	3700 RQ	3701 RR	3702 RS	3703 RT	3704 RU	3705 RV	3706 RW	3707 RX	3708 RY	3709 RZ	3710 SA	3711 SB	3712 SC	3713 SD	3714 SE	3715 SF	3716 SG	3717 SH	3718 SI	3719 SJ	3720 SK	3721 SL	3722 SM	3723 SN	3724 SO	3725 SP	3726 SQ	3727 SR	3728 SS	3729 ST	3730 SU	3731 SV	3732 SW	3733 SX	3734 SY	3735 SZ	3736 TA	3737 TB	3738 TC	3739 TD	3740 TE	3741 TF	3742 TG	3743 TH	3744 TI	3745 TJ	3746 TK	3747 TL	3748 TM	3749 TN	3750 TO	3751 TP	3752 TQ	3753 TR	3754 TS	3755 TU	3756 TV	3757 TW	3758 TX	3759 TY	3760 TZ	3761 UA	3762 UB	3763 UC	3764 UD	3765 UE	3766 UF	3767 UG	3768 UH	3769 UI	3770 UJ	3771 UK	3772 UL	3773 UM	3774 UN	3775 UO	3776 UP	3777 UQ	3778 UR	3779 US	3780 UT	3781 UV	3782 UW	3783 UX	3784 UY	3785 UZ	3786 VA	3787 VB	3788 VC	3789 VD	3790 VE	3791 VF	3792 VG	3793 VH	3794 VI	3795 VJ	3796 VK	3797 VL	3798 VM	3799 VN	3800 VO	3801 VP	3802 VQ	3803 VR	3804 VS	3805 VT	3806 VU	3807 VV	3808 VW	3809 VX	3810 VY	3811 VZ	3812 WA	3813 WB	3814 WC	3815 WD	3816 WE	3817 WF	3818 WG	3819 WH	3820 WI	3821 WJ	3822 WK	3823 WL	3824 WM	3825 WN	3826 WO	3827 WP	3828 WQ	3829 WR	3830 WS	3831 WT	3832 WU	3833 WV	3834 WW	3835 WX	3836 WY	3837 WZ	3838 XA	3839 XB	3840 XC	3841 XD	3842 XE	3843 XF	3844 XG	3845 XH	3846 XI	3847 XJ	3848 XK	3849 XL	3850 XM	3851 XN	3852 XO	3853 XP	3854 XQ	3855 XR	3856 XS	3857 XT	3858 XU	3859 XV	3860 XW	3861 XX	3862 XY	3863 XZ	3864 YA	3865 YB	3866 YC	3867 YD	3868 YE	3869 YF	3870 YG	3871 YH	3872 YI	3873 YJ	3874 YK	3875 YL	3876 YM	3877 YN	3878 YO	3879 YP	3880 YQ	3881 YR	3882 YS	3883 YT	3884 YU	3885 YV	3886 YW	3887 YX	3888 YY	3889 YZ	3890 ZA	3891 ZB	3892 ZC	3893 ZD	3894 ZE	3895 ZF	3896 ZG	3897 ZH	3898 ZI	3899 ZJ	3900 ZK	3901 ZL	3902 ZM	3903 ZN	3904 ZO	3905 ZP	3906 ZQ	3907 ZR	3908 ZS	3909 ZT	3910 ZU	3911 ZV	3912 ZW	3913 ZX	3914 ZY	3915 ZZ
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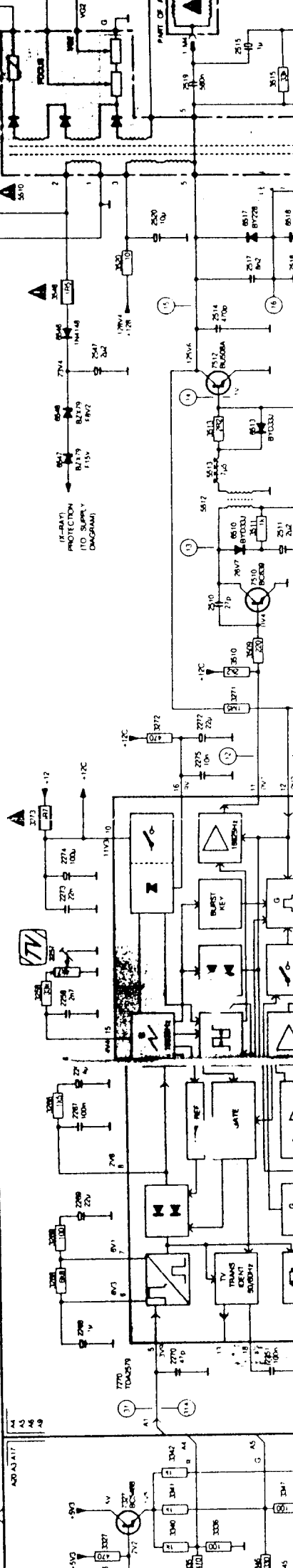
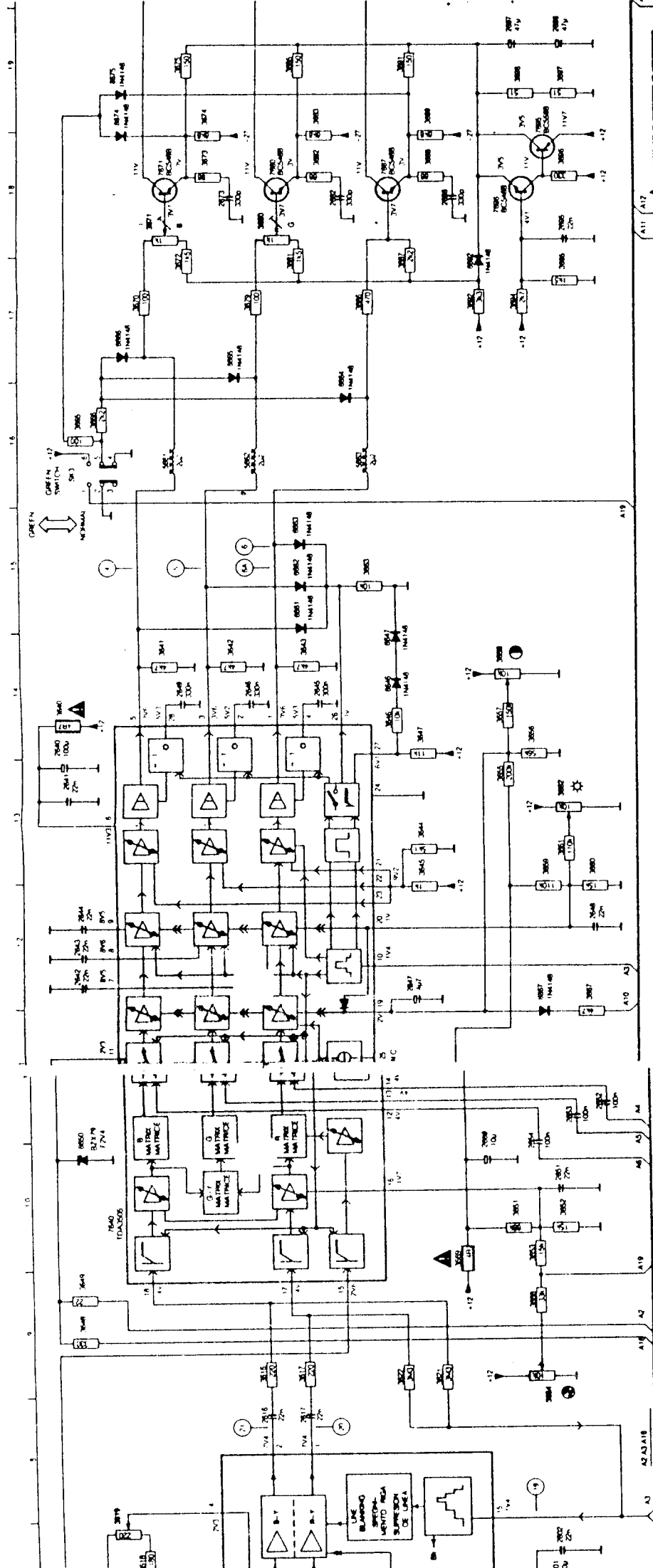


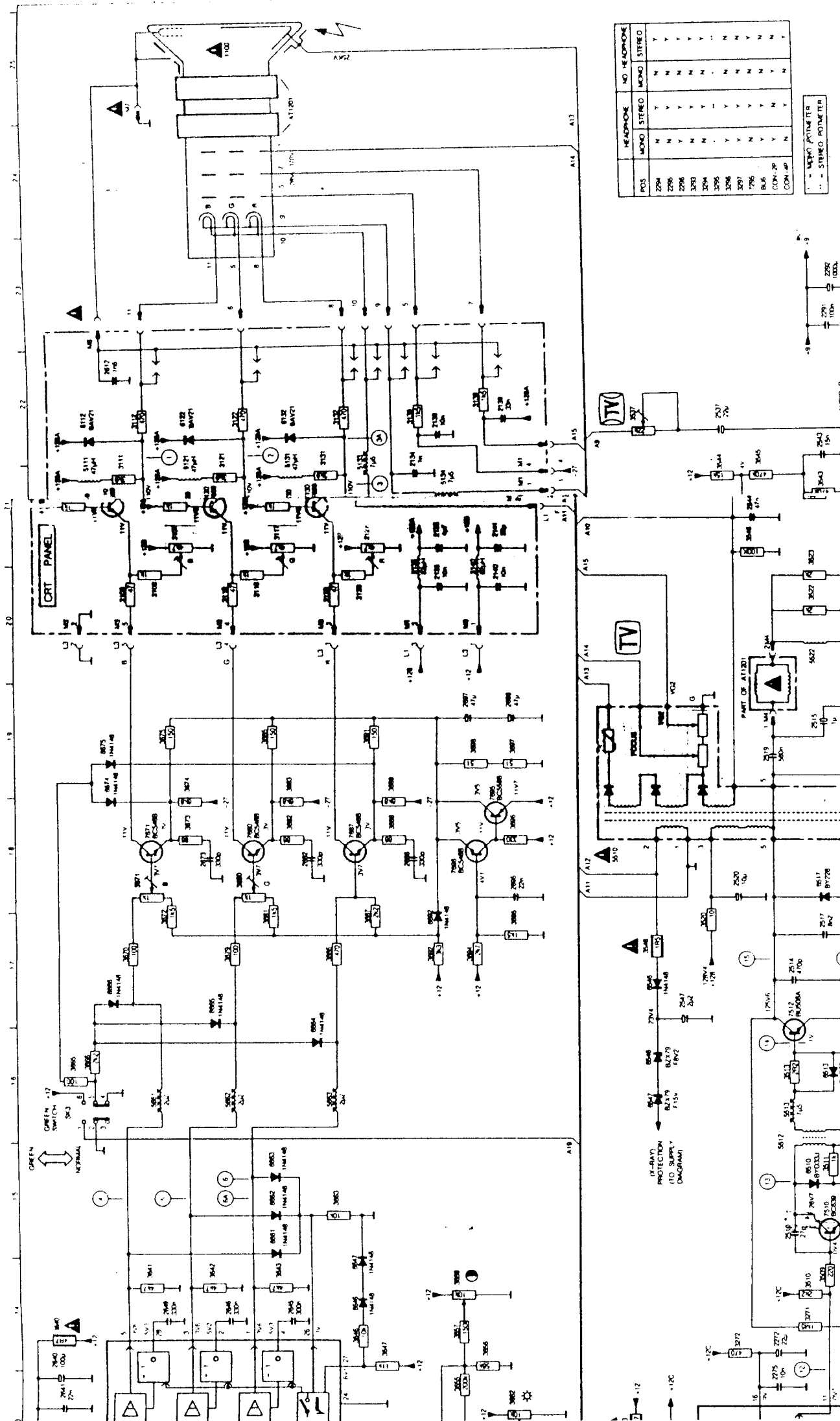
PAL VERSION

C-CHROMA

L-CYRES

COMP 3YNC





POS	HEADPHONE		NO. HEADPHONE
	MONO	STEREO	
Z04	N	Y	Y
Z05	Y	N	Y
Z06	Y	Y	Y
Z07	Y	N	Y
Z08	Y	Y	Y
Z09	N	Y	Y
Z10	Y	N	Y
Z11	Y	Y	Y
Z12	Y	N	Y
Z13	Y	Y	Y
Z14	Y	N	Y
Z15	Y	Y	Y
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Z95	Y	Y	Y
Z96	Y	N	Y
Z97	Y	Y	Y
Z98	Y	N	Y
Z99	Y	Y	Y
Z100	Y	N	Y

.. = MONO POTENTIOMETER
 .. = STEREO POTENTIOMETER

