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A MAIOR COLEÇÃO DE ESQUEMAS E MANUAIS DE MONITORES DE VIDEO EM CD-ROM Inf: robot@ieg.com.br

# MONITORES

Manual de Serviço

PHILIPS 15" AUTO SCAN COLOUR

**CM1800** 

# **CM1800**



Horizontal frequencies 30 to 66 kHz



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1994 Yearbooi

Service Service Service

Product Survey's 1994-1 (4822 727 20334), 1994-2 (4822 727 20379) ar 1994-3 (4822 727 21004) are herewith cancelled.

### SURVEY OF MODEL NUMBERS

SURVETUR	MODEL HOMBEITO				
MODEL	CHASSIS MANUAL:	PRODUCT FAMILY:	MODEL:	CHASSIS MANUAL:	PRODUCT FAMIL
2CM5909/64A	2CM5109/74A	CM0200	4CM8290/541	4CM8290/94I	CM1800
2CM5909/94A	2CM5109/74A	CM0200			
3CM5689/89T	3CM5689/69T	CM0200	4CM8294/74T	CM1800(USA:6581)	CM1800
3CN3009/091	30W30007001	•	4CM8294/97T	CM1800	CM1800
4BM2790/00T	4BM2790/00T	BM0200	7015000/00T	7CM5209/00T	CM0200
			7CM5209/20T	7CM5209/001 7CM5209/741	CM0200
4CM2299/20T	CM5600	CM6000 IV 20"	7CM5209/641	7CM5209/741 7CM5209/00T	CM0200
			7CM5279/20T		CM0200
4CM4270/95T	4CM4270/00T	CM0800	7CM5279/45T	7CM5209/00T	CM0200
4CM4279/20T	4CM4270/00T	CM0800	7CM5289/89T	7CM5209/00T	
4CM4279/25T	4CM4270/00T	CM0800	7CM5289/95T	7CM5209/00T	CM0200
4CM4279/26T	4CM4270/00T	CM0800	7CM5299/95B	7CM5209/00T	CM0200
4CM4280/27T	4CM4270/00T	CM0800	7CM5299/89T	7CM5209/00T	CM0200
4CM4290/27T	4CM4270/00T	CM0800	7CM5689/89T	7CM5209/00T	CM0200
4CM4780/541	4CM4780/74	CM0800	•		
4CIVI4780/341	4010147807741		15C04201/74C	15C04201/74C	CM0200
40145000/441	4CM5209/74I	CM0200	15C0420S/74J	15C04201/74C	CM0200
4CM5209/44I	401015205/741	05250	15C04204/75C	15C04201/74C	CM0200
	CM2000-TRI	CM0200	15C0420S/97C	15C04201/74C	CM0200
4CM5279/00T		CM0200	15C0420V/97C	15C04201/74C	CM0200
4CM5279/05T	CM2000-TRI	CM0200			
4CM5279/06T	CM2000-TRI	CM0200 CM0200	17B1821W/00C	CM2800	CM2800
4CM5279/75B	CM2000-TRI	CM0200	17B1822N/97C	CM2800	CM2800
4CM5279/75T	CM2000-TRI	_	17B18202/74C	CM2800	CM2800
4CM5289/69T	CM2000-TRI	CM0200	17B1822N/74C	CM2800	CM2800
4CM5289/441	CM2000-TRI	CM0200	1, 2,022,		
4CM5299/69T	CM2000-TRI	CM0200	21B0725E/74C	CM0700	CM0700
			21B0725E/97C	CM0700	CM0700
4CM6088/20T	4CM6088/00T	CM2600	21B0725E/75C	CM0700	CM0700
4CM6088/31T	4CM6088/00T	CM2600	2180/232//30	014107 00	•
4CM6282/20T	4CM6282/00T	CM3600	17A280BQ/02C	CM3800	CM3800
4CM6282/94T	4CM6282/74I	CM3600	17A2808Q/02C	CIVIDOOO	0
4CM8203/74I	4CM8203/74I	CM1800			
4CM8274/00T	CM1800	CM1800			
4CM8274/05T	CM1800	CM1800			
4CM8274/05T	CM1800	CM1800			
4CM8274/75T	CM1800	CM1800			
4010102141131	C.141 1000		• .		

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⊕ 4822 727 21006

CM1800

1. Technical data

Sync. signal

Image geometry

Sync. level

distance)

Sync. polarity

Vertical frequency

Total geometrical

Horizontal frequency

distortion of the image (pincushion and barrel

Horizontal tilt (rotation)

(according IEC 107-73.74)

Image non linearity

: TTL level

: 50 - 110 Hz

: 30 - 66 kHz

: 2.5 mm Max

: ≤ 2 mm Max

: 5% Max horizontal

5% Max vertical

: positive or negative

General

Mains voltage

: AC 100 - 264 V 15 %

Mains frequency

: 47 - 63 Hz : see table

Power consumption

100 W (max)

Operating temperature

: 10°C to 40°C

Weight

: 15 kg

Dimensions (WxHxD)

: 367x384x395 mm

Picture tube

Size

: 15 inch

Light transmission Deflection angle

: 57% (dark glass) : 90 degrees

EHT voltage Pitch

: 24.5 kVolt : 0.28 mm

Phosphor

: P22 medium short

Video

Dot rate

: 110 mHz

Video signal

: 0.7 Vpp Linear / 75  $\Omega$ 

Image size H-Shift range : 280x210 mm : to raster edges

V-Shift range

: 10 mm

### **Power Management**

Power Management Definition										
	VESA	DPMS		POWER SAVING STATES						
MODE	VIDEO	H-SYNC	V-SYNC	POWER USED	POWER SAVING (%)					
ON	Active	Yes	Yes	85 Watts	0%					
Stand-by	Blanked	No	Yes	< 15 Watts	> 82%					
Suspend	Blanked	Yes	No	< 15 Watts	> 82%					
OFF	Blanked	No	No '	< 5 Watts	> 94%					

Note: The video will be blanked and the power LED color will change into following colors whenever the monitor goes into power management status.

Green LED light -#Normal" operation
Yellow LED light -#Stand by or "Suspend" mode
Amber LED light - "OFF" mode

This monitor is Energy Star compliant when used with a computer equipped with DPMS.

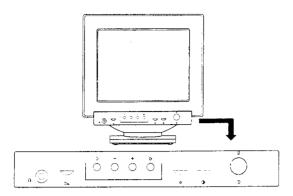
PHILIPS is a partner in the EPA's Energy Star Computer Program.

#### Resolution modes and sync. polarities

	RESOLUTION	HORIZONTAL	VERTICAL		SYNC.	POL.
MODE	(dots x lines) FREQ. (kHz) FREQ. (Hz)		FREQ. (Hz)	REMARK	Н	V
VGA	640x350	31.5	70	Non-interlaced	+	
VGA	640x400	31.5	70	Non-interlaced		+
VGA	640x480	31.5 -	60	Non-interlaced	-	· -
VESA/75	640x480	37.5	75	Non-interlaced	+/-	+/-
MAC	640x480	35.0	67	Non-interlaced	+/-	+/-
VESA/56	800x600	35.2	56	Non-interlaced	+/-	+/-
VESA/60	800x600	37.8	60	Non-interlaced	+/-	+/-
VESA/75	800x600	46.9	75	Non-interlaced	+/-	+/-
VESA/72	800x600	48.0	72	Non-interlaced	+/-	+/-
QUADRA	832x624	49.7	75	Non-interlaced	+/-	+/-
8514/XGA	1024x768	35.5	87	Interlaced	+/-	+/-
VESA/60	1024x768	48.3	60	Non-interlaced	+/-	+/-
VESA/70	1024x768	56.5	70	Non-interlaced	+/-	+/-
VESA/75	1024x768	60.0	75	Non-interlaced	+/-	+/-
/60*	1280x1024	64.0	60	Non-interlaced	+/-	+/-

\* This resolution is applicable.

#### Front controls



For an optimized adjustment of the picture following controls are available at the front.

#### (i) POWER.

- Press this knob, the green LED lights and the power is ON.
- Press this knob again, the green LED disappears and the power is OFF.

#### O CONTR.

Used to adjust contrast.

#### O BRIGHT.

Used to adjust brightness.

#### **○ SAVE**

Used to save the result of the adjustment.

#### "+" or "-"

• Press "+" or "-" to select or adjust function.

#### ○ FUNCTION

• Press this knob to display the manual

► VOLUME (For 4CM8204/4CM8274/4CM8284/4CM8294)

Used to adjust audio volume.

## Connection to the computer

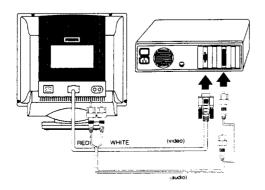
WARNING: Please be sure the AC power to your computer is "OFF" before connecting or disconnecting any display peripheral. Failure to do so may cause serious personal injury as well as permanent damage to your computer equipments.

#### 1. IBM PC, PC/XT, PC/AT, PS/2, or the compatibles:

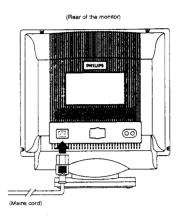
 Connect the fixed 15-pin D-sub connector of the video signal cable to the computer at the video connector on the video card, and fix it firmly with the screws on the plug.

#### (For model 4CM8204/4CM8274/4CM8284/4CM8294:)

- Connect the audio cable to the input of audio connector, which located at the rear of monitor according to the following:
  - The red audio plug should be connected to the red audiophone connector.
  - The white audio plug should be connected to the white audiophone connector.
- Connect the other end of audio cable to the audio connector of media card at the rear of computer or CD-ROM according to the preceding description.



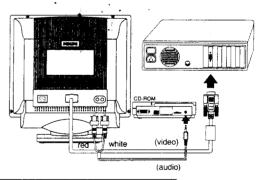
#### Connection to the mains



Connecting to the mains

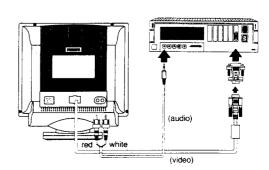
This monitor is set to operate at a mains supply of 100-240 volts AC(for 4CM8283/4CM8293/4CM8284/4CM8294); 220-240 volts AC(for 4CM8203/4CM8273/4CM8204/4CM8274). If the mains voltage in your home is not between this, consult your dealer.

Connect one end of the mains cord to the mains socket at the rear of monitor, and the other end to the mains supply.



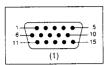
2. Apple Macintosh series:

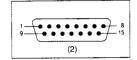
- Connect the 15-pin D-sub adapter to the signal cable and secured by screws.
- Connect the 15-pin D-sub adapter to the computer.
- Fix both screws of connector firmly.
   (For model 4CM8204/4CM8274/4CM8284/4CM8294:)
- Connect one end of audio cable (plug with RCA type) to the audio connectors at the rear of monitor according to the preceding description.
- Connect the other end of audio cable (mini type of earphone plug) to the audio connector at the rear of computer.



# **Connection facilities**

# Pin assignment 15p 'D' shell (3 rows)





(1) The 15-pin D-sub connector (male) of the signal cable (IBM systems):

Pin No.	Assignment	Pin No.	Assignment
1	Red video input	9	No pin
2	Green video input	10	Logic ground
3	3 Blue video input		Identical output
4	Identical output		- connected to pin 10
1	- Connected to pin 10	12	No pin
5	Ground	13	H. Sync / H+V
6	Red video ground	14	V. Sync
7	Green video ground	15	No pin
8	Blue video ground		

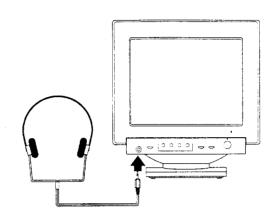
(2) The 15-pin D-sub connector (male) of the adapter ( Apple Macintosh systems):

Pin No.	Assignment	Pin No.	Assignment				
1	Red ground	9	Blue video				
2	Red video	10	Sense 2				
3	Composite Sync, H+V	11	Composite Sync &				
4	Sense 0		V.Sync ground				
5	Green video	12	V. Sync				
6	Green ground	13	Blue video ground				
7	Sense 1	14	H. Sync ground				
8	Not connected	15	H. Sync				

 $\ensuremath{\#}$  Because of a policy of continuous product improvement, the above specifications are subject to change without notice.

#### 3. Earphone Connection :

 Connect your earphone plug (must be minitype) to the earphone connector at the front panel of the monitor. (For model 4CM8204/ 4CM8274/4CM8284/4CM8294)



## **Mechanical instructions**

## Location of the Panels (see Fig. 4.1)

- Deflection + Supply panel
   Video panel

To be able to perform measurements and repairs on the "circuit boards", these unit should placed in the service position first:

#### Video panel

- Remove the rear cover (4 screws), see. Fig 4.2.
  Remove the metal shielding by desolder 9 lags.

#### Main panel

- Remove the pedestal (click construction).
  Remove the rear cover (4 screws).
  Remove the video panel from CRT.

- Disconnect the desired cable trees.

- Slide the main panel out of bottom plate, first release plastic clamp, see Fig. 4.1.
   Place Main panel in service position as shown in Fig.4.3.

#### Remark:

3 extension cables are required for the service position

- of the Main panel.
   4822 321 61698 2p to 2p cable to degaussing coil.
- 4822 321 61699 2p to 2p extension cable to speaker.

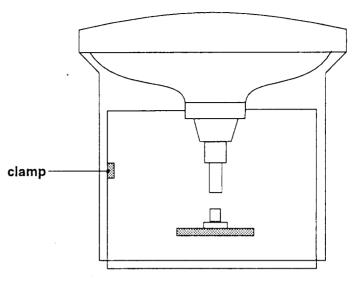
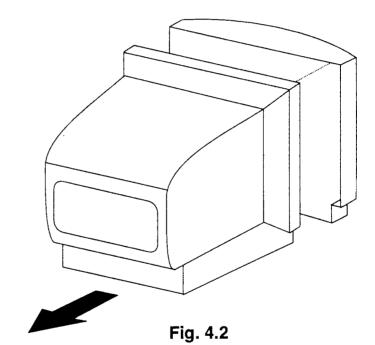


Fig. 4.1



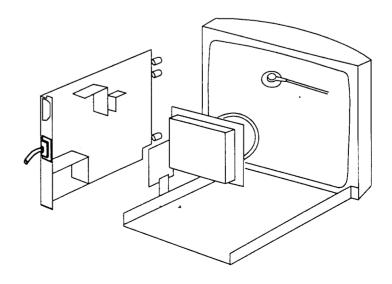


Fig. 4.3

# 3. Warnings and Notes

#### Warnings

- 1. Safety regulations require that the unit should be returned in its original conditions and that components identical to the original components are used. The safety components are indicated by the symbol ...
- 2. In order to prevent damage to ICs and transistors, all high-voltage flash-overs must be avoided. In order to prevent damage to the picture tube, the method shown in Fig. 3.1 should be used to discharge the picture tube. Use a high-voltage probe and a multimeter (position DC-V). Discharge until the meter reading is 0 V (after approx. 30s).

# 3. ESD 🚣

All ICs and many other semiconductors are sensitive to electrostatic discharges (ESD). Careless handling during repair can drastically shorten the life. Make sure that during repair you are connected by a pulse band with resistance to the same potential as the earth of the unit. Keep components and tools also at this same potential.

- 4. When repairing a unit, always connect it to the mains voltage via an isolating transformer.
- Be careful when taking measurements in the high-voltage section and on the picture tube panel.
- **6.** It is recommended that safety goggles are worn when replacing the picture tube.
- 7. When making settings, use plastic rather than metal tools. This will prevent any short-circuit and the danger of a circuit becomes unstable.
- **8.** Never replace modules or other components while the unit is switched on.
- **9.** Together with the deflection unit the picture tube is used as an integrated unit. Adjustment of this unit during repair is therefor not recommended.
- **10.** After repair the wiring should be fastened once more in the cable clamps for this purpose.

#### **Notes**

- The direct voltages and oscillograms are average voltages. They have been measured by using the Service testsoftware and under the following conditions:

  Output

  Description:
  - Mode: 1024 \* 768 (56.5kHz/70Hz)
  - Signal pattern: grey scale
  - Adjust brightness and contrast control for the mechanical mid-position (click position)
- 2. The picture tube panel has printed spark gaps.

  Each spark gap is connected between an electrode of the picture tube and the Aquadag coating.
- 3. The semiconductors indicated in the circuit diagram(s) and in the parts lists are completely interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.

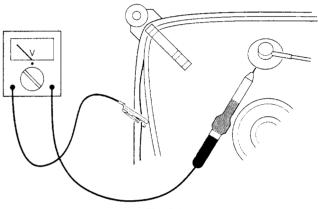
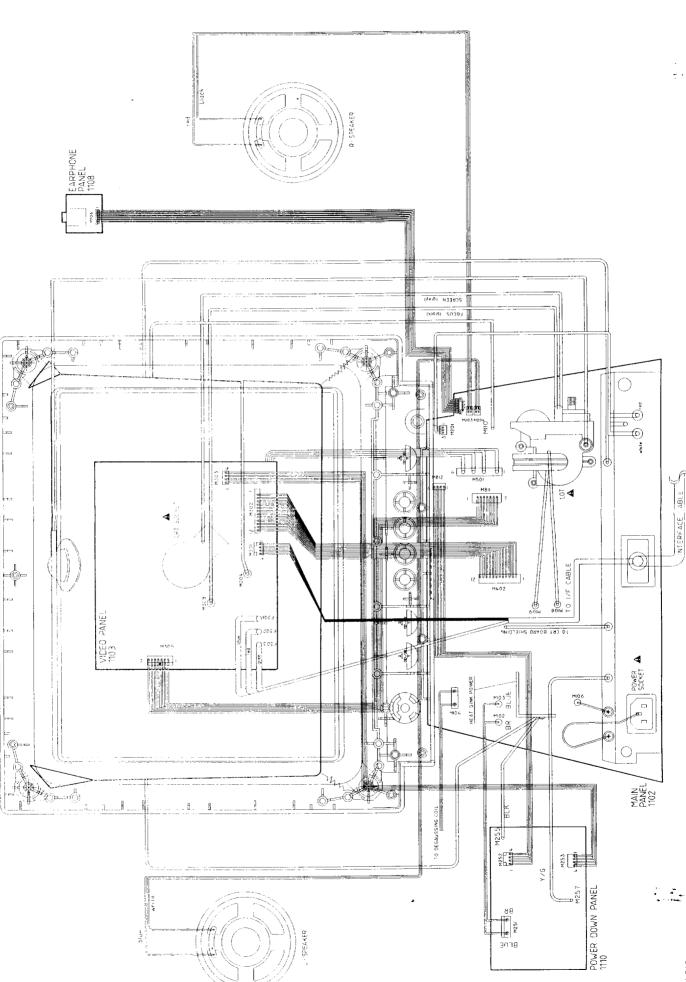
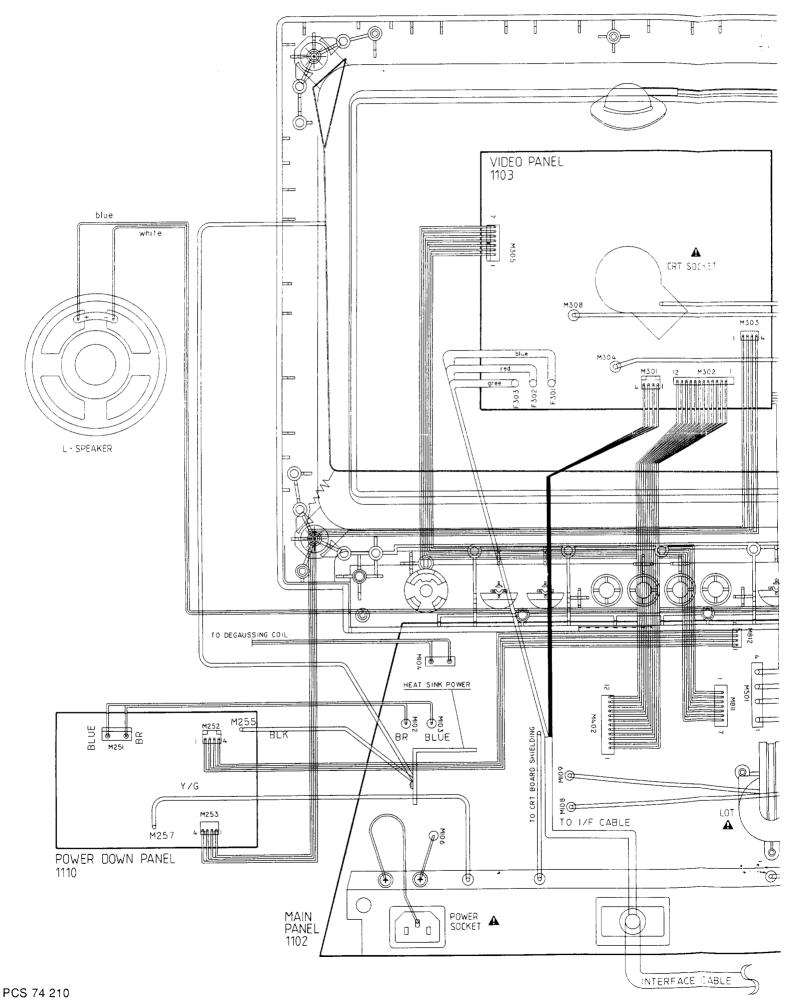


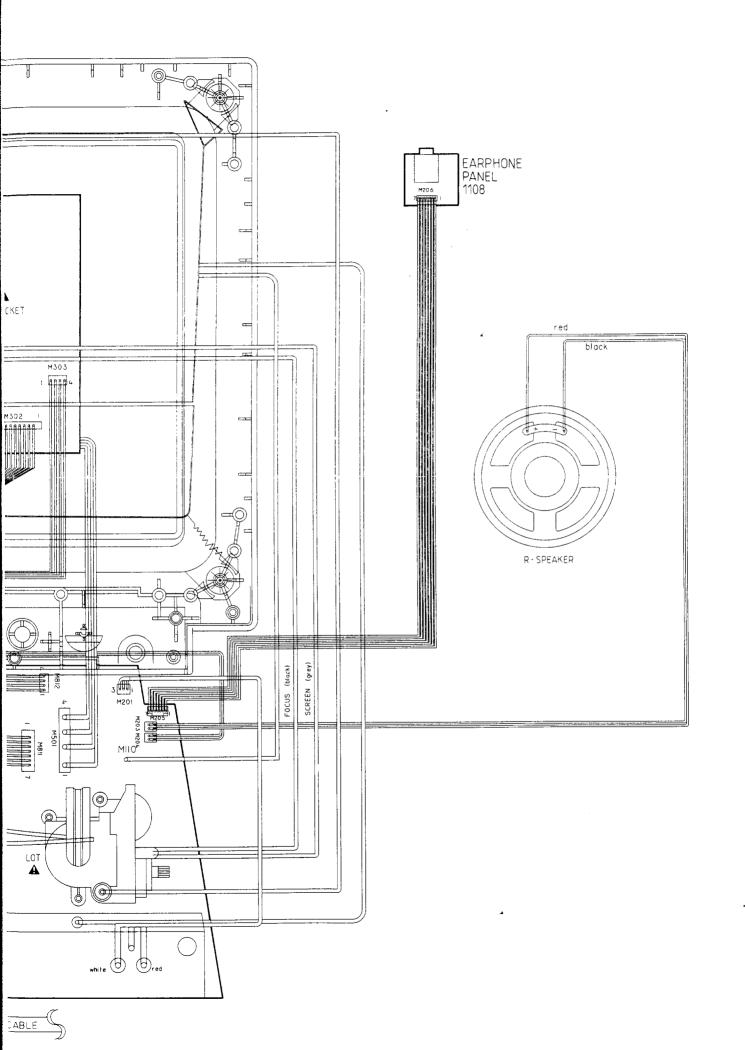
Fig. 3.1

5. Wiring diagram



PCS 74 210





**T** 

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•

•

.

A33 7717-E

1V / div AC

5 μS / div

A34 7721-B

0,5V / div AC

5 μS /div

A35 7721-C

2V / div AC

5 µS / div

A36 7702-6

1V / div AC

5 μS /div

2391 B4 2392 B4

C

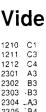
R 73

Α

2**36**5

3374 2336

э 236







20V / div AC 5 nS / div





2V / div AC

5 µS / div

1V / div AC 5 μS /div A19 M301-2

1V / div AC

 $5 \,\mu\text{S} \, / \, \text{div}$ 

A20 M301-4

1V / div AC

A21 7710-B

1V / div AC

5 uS / div

A22 7710-E



A25 7714-E

2V / div AC

5 μS / div

A26 7701-1

A27 7701-13



5 µS / div



5 µS /div

A29 7701-8

 $5 \,\mu\text{S} \, / \, \text{div}$ 

A30 7702-1



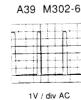


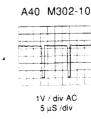






5 μS /div







A1 Blue - in

A2 7301-2

1V / div AC 5 μS /div





1V / div AC 5 μS / div





1V / div AC

A5 7301-17



1V / div AC

A6 7301-14



1V / div AC 5 μS /div

7312-E



1V / div AC



 $5 \,\mu S \,/div$ 





20V / div AC 5 μS /div



5 µS / div





0,5V / div AC  $5~\mu S~/div$ 

A13 7301-18



1V / div AC 5 uS / div

A14 3318,3321



20V / div AC 5 uS /div

A15 7301-10



1V / div AC 5 μS / div



5 µS /div

A24 7713-C



A23 7713-B

1V / div AC



5 μS / div



A31 7702-3

5 uS /div



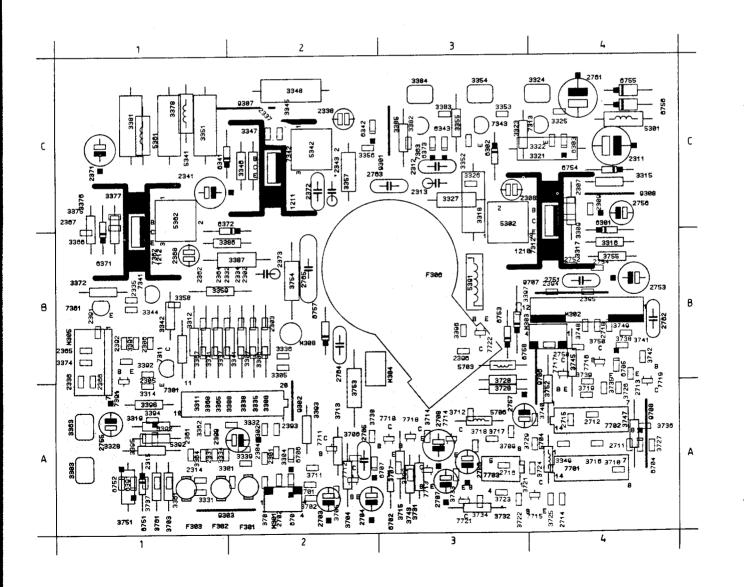
5 μS / div

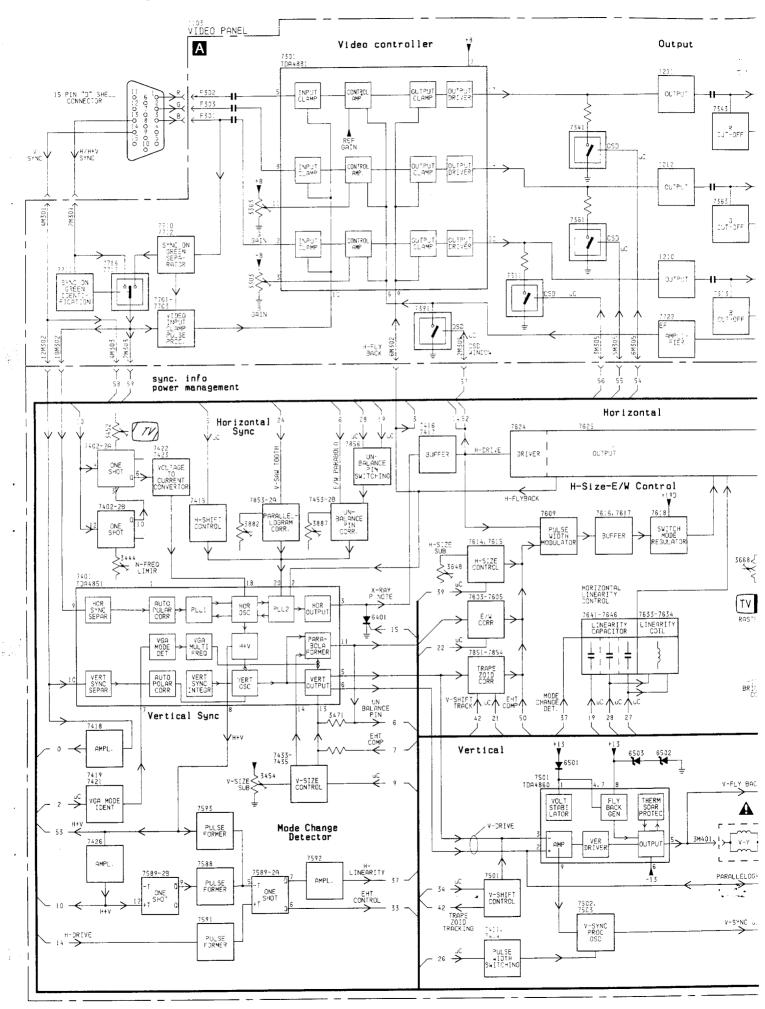


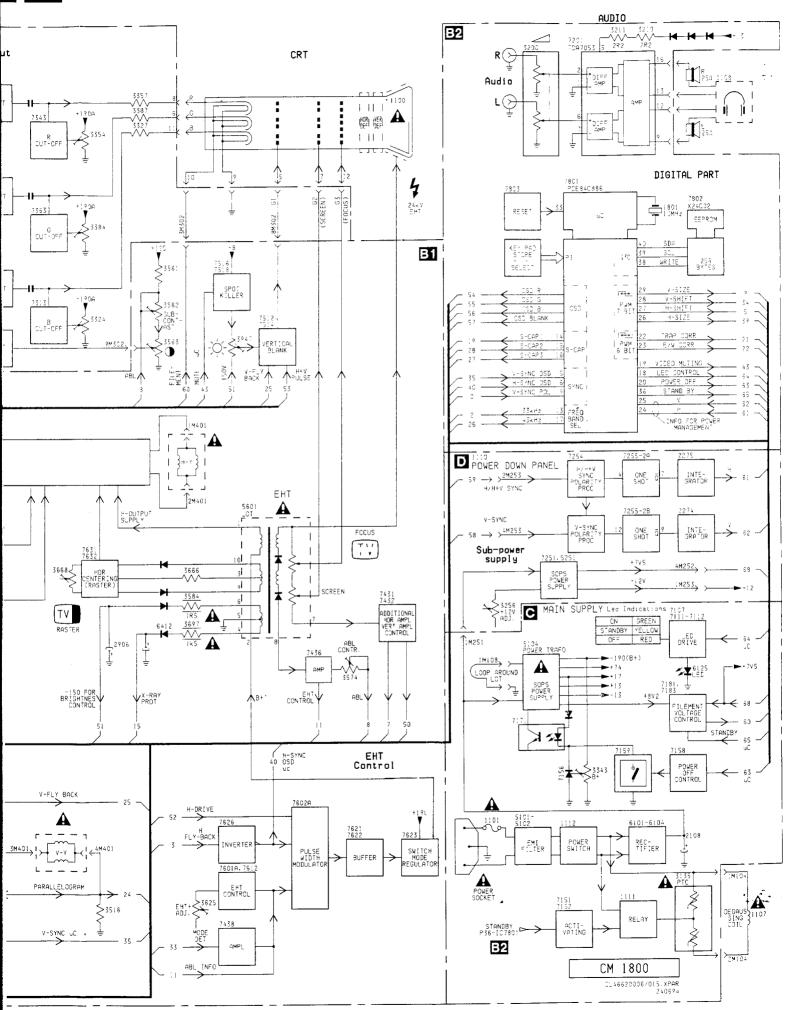
 $5~\mu S~/div$ 

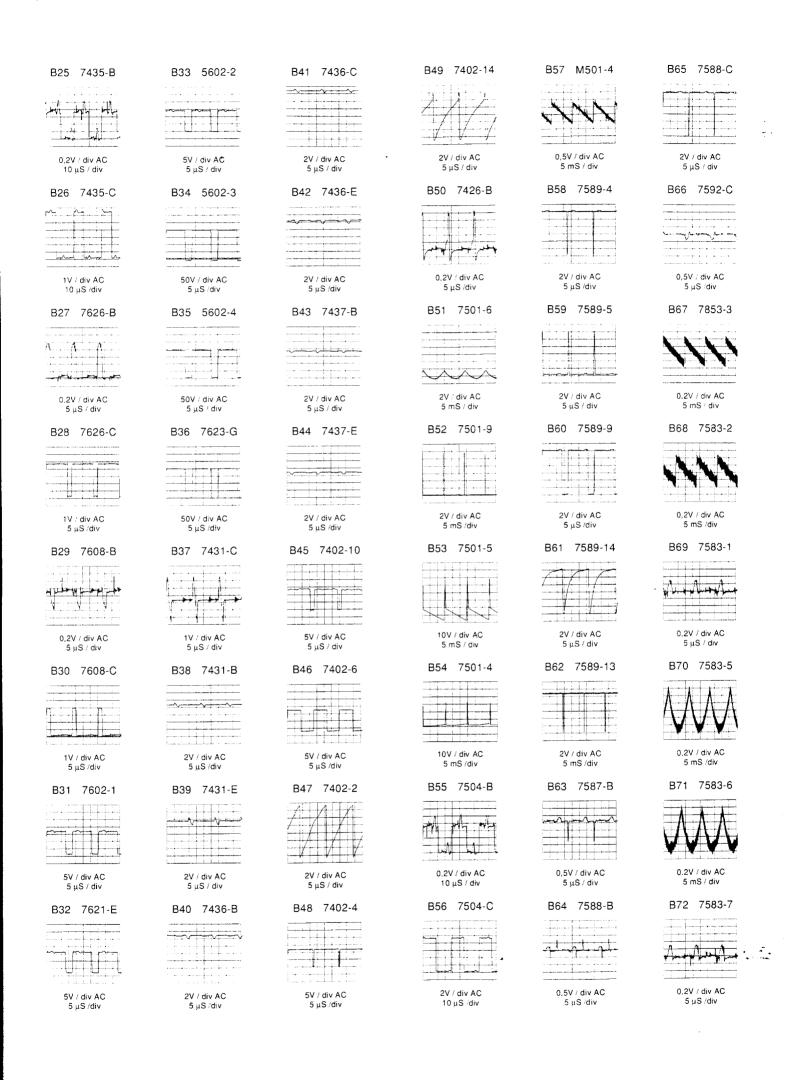
# Video panel

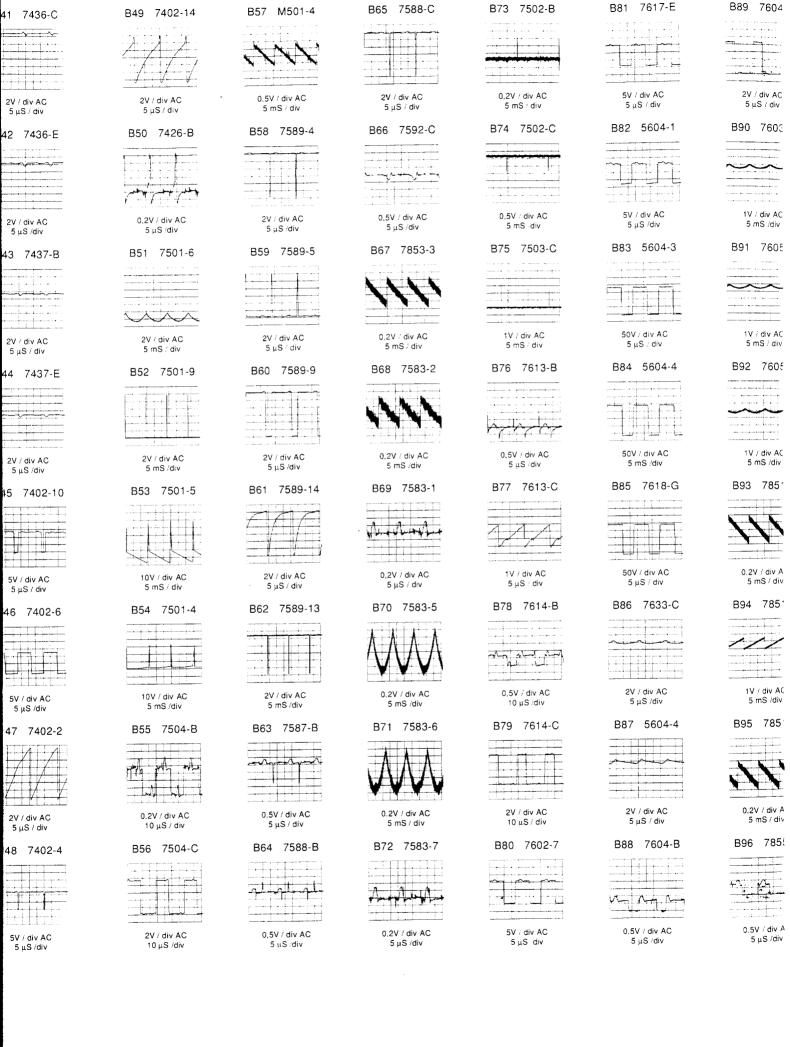
			_													
10	210	C1		2394	R1	3308	В3	3356	СЗ	3705	АЗ	3745		6751		
	210			2395		3309		3357		3706	А3	3747	A 1	6752	A4	
				2396		3311		3358		3707	A2	3748	B1	6753	B2	
	212			2399		3312		3359		3708		3749	81	6754	C1	F306 B2
	301					3314		3361		3709		3750	В1	6755	C1	M301 A3
	302			2701		3315		3362		3710		3751	A4	6756	C1	M302 B1
	303			2702				3363		3711		3752		6757	ВЗ	M303 B1
	304			2703		3316		3364				3753		6758	82	M304 B3
	305			2704		3317		3365		3713		3754		7301		
	306			2705		3318					42	3755		7311		
	307			2706		3319		3366			^2	3761		7313		
	308			2707		3321		3367				5301		7341		
2:	309	C1		2708		3322		3368				5302		7343		
	311			2711		3323		3371				5341		7361		
2	312	C2		2712		3324		3372						7363		
2	313	C2		2713	B1	3325		3374				5342		7391		
2:	314	A4		2714	A1	3326	C2	3375		3720		5361				
2:	315	A4		2715	A1	3327	C2	3376		3721		5362		7701		
	331			2716	A2	3328	A4	3377				5391		7702		
	332			2718		3331	A4	3378	Ç4			5392		7703		
	334			2751	В1	3332	А3	3381				5703		7710		
	335			2752		3334	A3	3382	C2	3725		5704		7711		
	336			2753		3335	В3	3383	C2			5706		7712		
	337			2754		3336		3384	C2			6301		7713		
	338			2755		3337		3385	C2	3728	Α2	6302		7714		
	341			2756		3338		3386	В3	3729	Α1	6303		7715		
	343			2757		3339		3387	В3	3730	А3	6341		77:6		
	361			2758		3341		3388			A2	6342	C3	7717		
	362			2761		3342		3391			A2	6343	C2	7718		
	364			2762			B4	3392			A2	6371		7719		
	365			2763			C3				A2	6372	C3	7721		
	366			2764			C3				A1	6373	C2	7722		
	367			2765			C3					6391	A4	9301	C2	2
				3301			C3					6392	A4	9302	A3	3
	368						A1	3397				6701	АЗ	9303	A4	1
	371			3302			C4					6702	A2	9307	C3	3
	372			3303			. C2					6704		9308	C1	1
	373			3304			C2					6705		9706	В1	1
	391			3305								6706		9707		
	392						C2					6707		9708		
2	393	А3		3307	В3	3355	C2	3704	AS	3743	712	3707		3733		

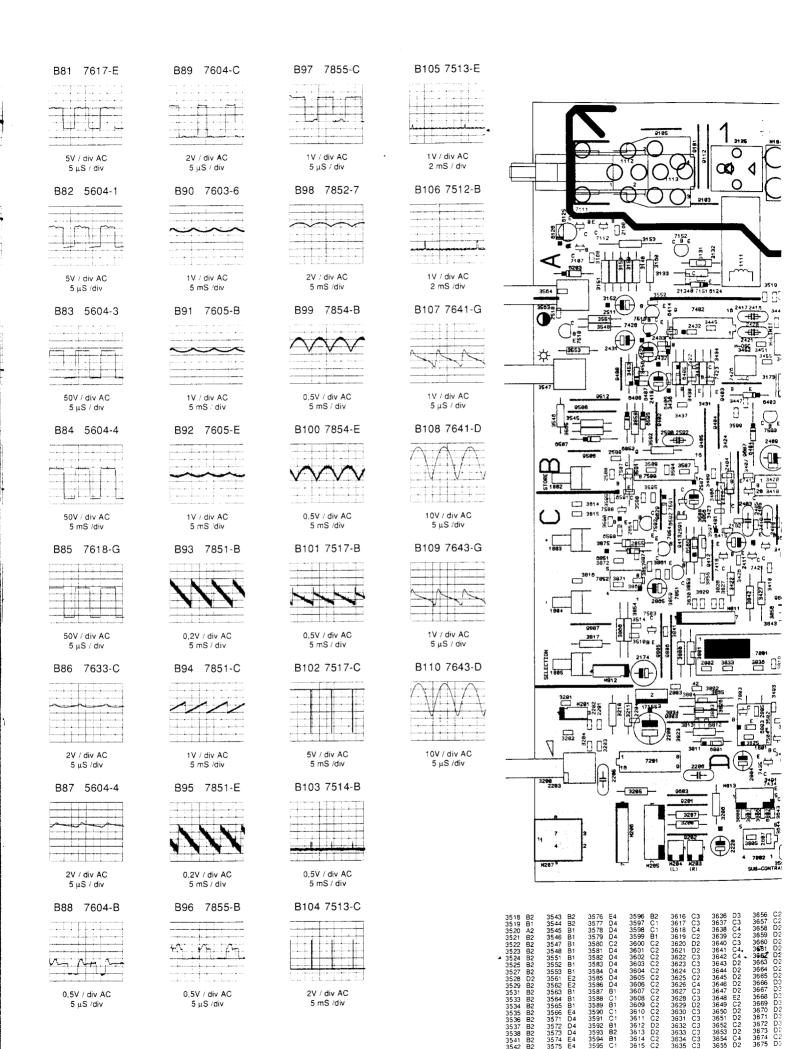


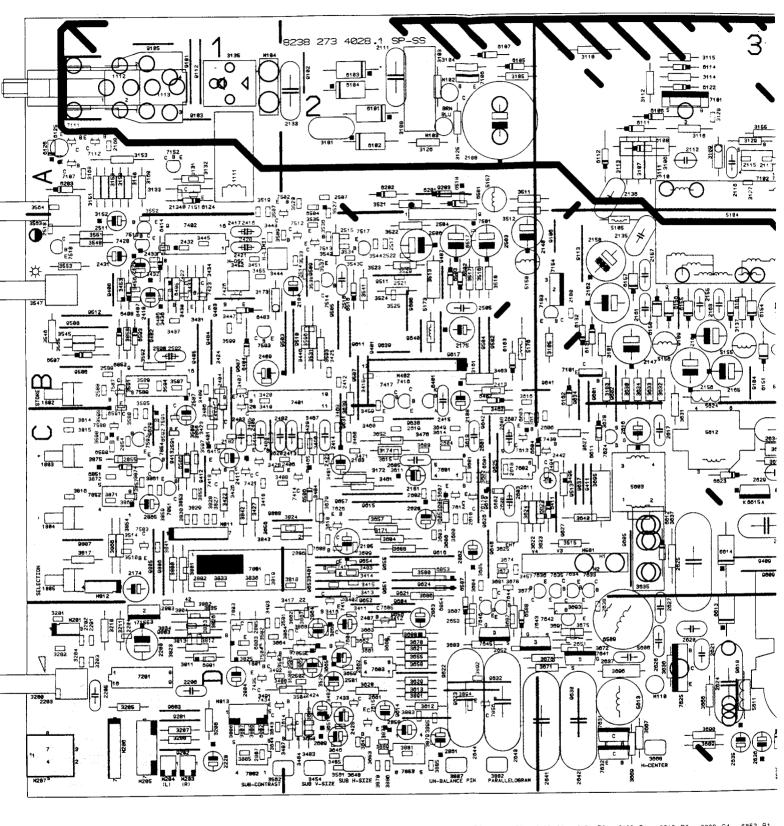






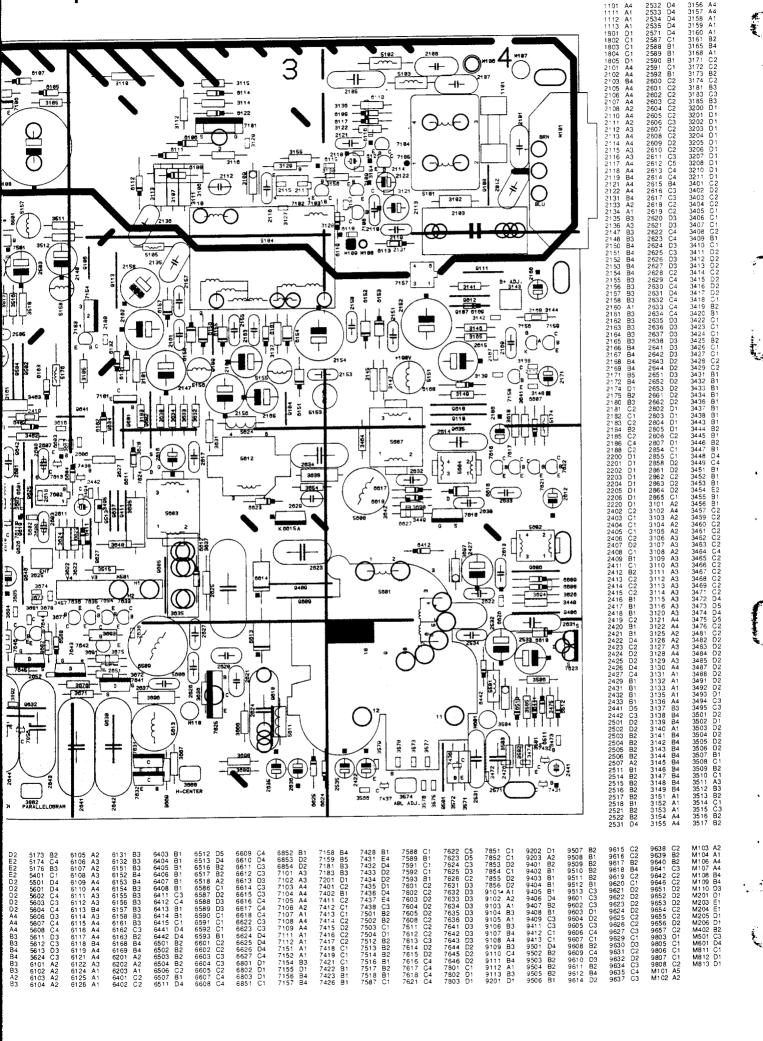


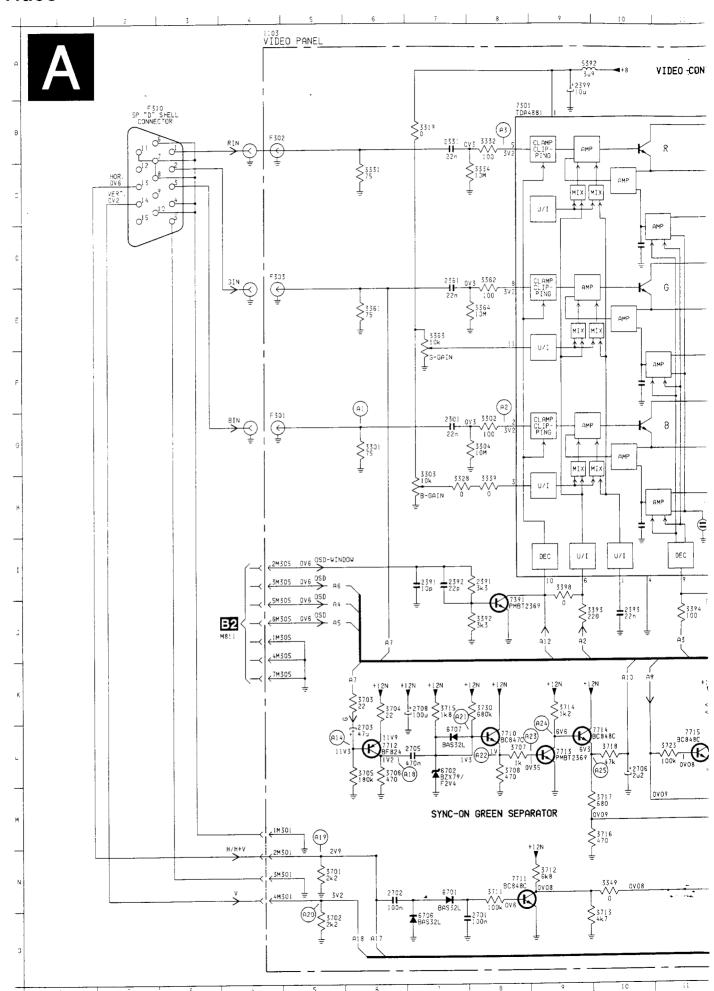


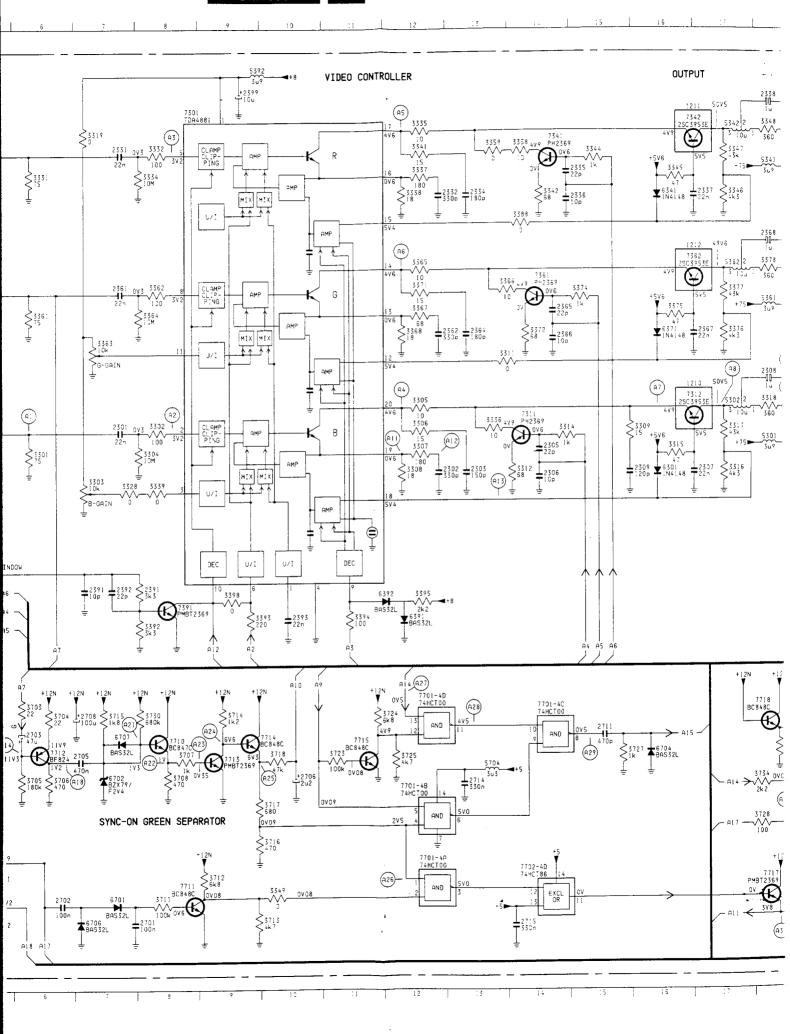


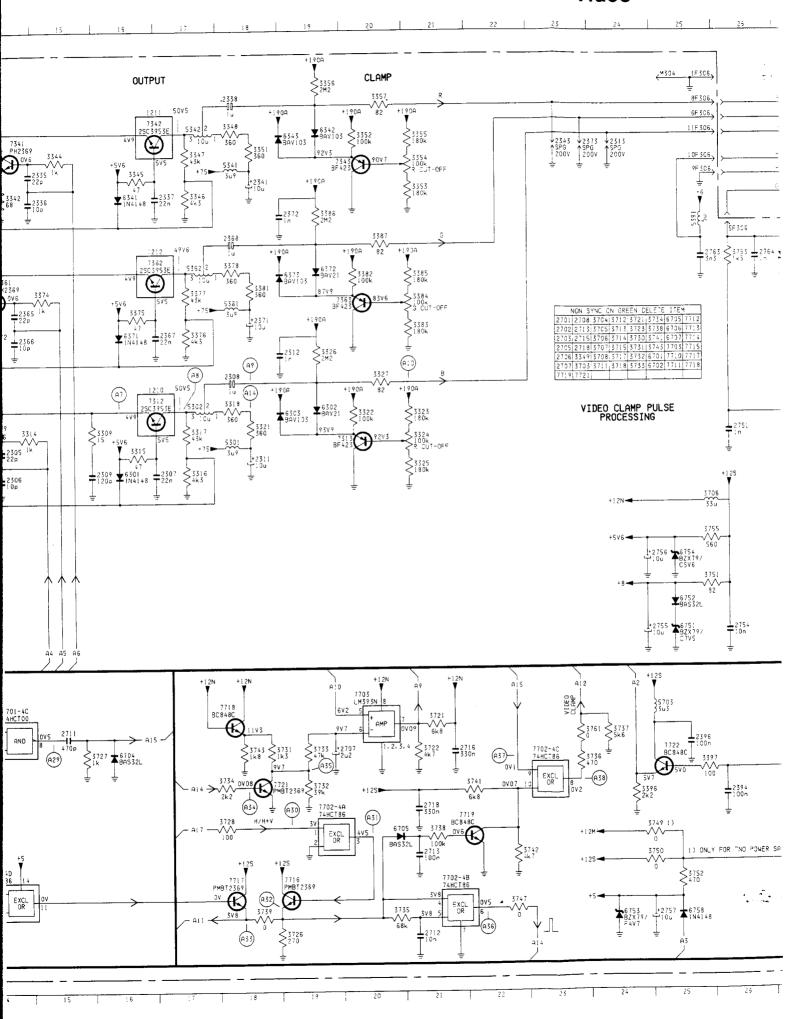
6106 6107 6109 6110 6111 6112 6113 6115 6116 6117 6119 6121 6122 6125 6126 6853 6854 7101 7102 7103 7105 7106 7107 7108 7109 7111 7112 7154 7155 7156 7157 B1 D2 A3 A4 A4 A4 A1 A1 A1 B1 B4 B4 6404 6405 6406 6407 6408 6411 6412 6413 6414 6416 6501 6502 6503 6504 6506 6507 6511 65117 655117 655889 6558991 665991 666003 666003 666008 D5 D4 B2 B2 C1 D2 D3 D3 C1 C1 B1 C2 C3 C3 C4 C4 3657 3658 3659 3660 3662 3663 3664 3665 3666 3668 3667 3671 3672 3673 3673 3674 3675 3698 3800 3801 3803 3804 3805 3806 3807 3813 3814 3815 3816 3817 3818 3819 3824 3825 3826 3828 3829 3830 3833 3834 3835 3836 3843 3853 3853 3854 3855 3885 3886 3887 3891 3892 3894 3895 5101 5103 5105 5151 5155 5155 5157 5158 5174 5176 5401 5501 5602 5603 5604 5606 5607 5613 56101 6103 6103 3519 3520 3521 3522 3523 3524 3525 3528 3531 3536 3536 3537 3536 3537 3536 3537 3577 3578 3579 3581 3582 3583 3584 3585 3586 3586 3587 3589 3591 3592 3593 3593 3595 3617 3618 3619 3620 3622 3623 3624 3625 3626 3626 3628 3630 3631 3632 3633 3634 3635 3637 3638 3639 3640 3644 3645 3645 3645 3655 3653 3655 3677 3678 3679 3681 3682 3683 3684 3685 3686 3689 3690 3691 3693 3694 3696 DEEEDDDDDDAAAA3344433323 

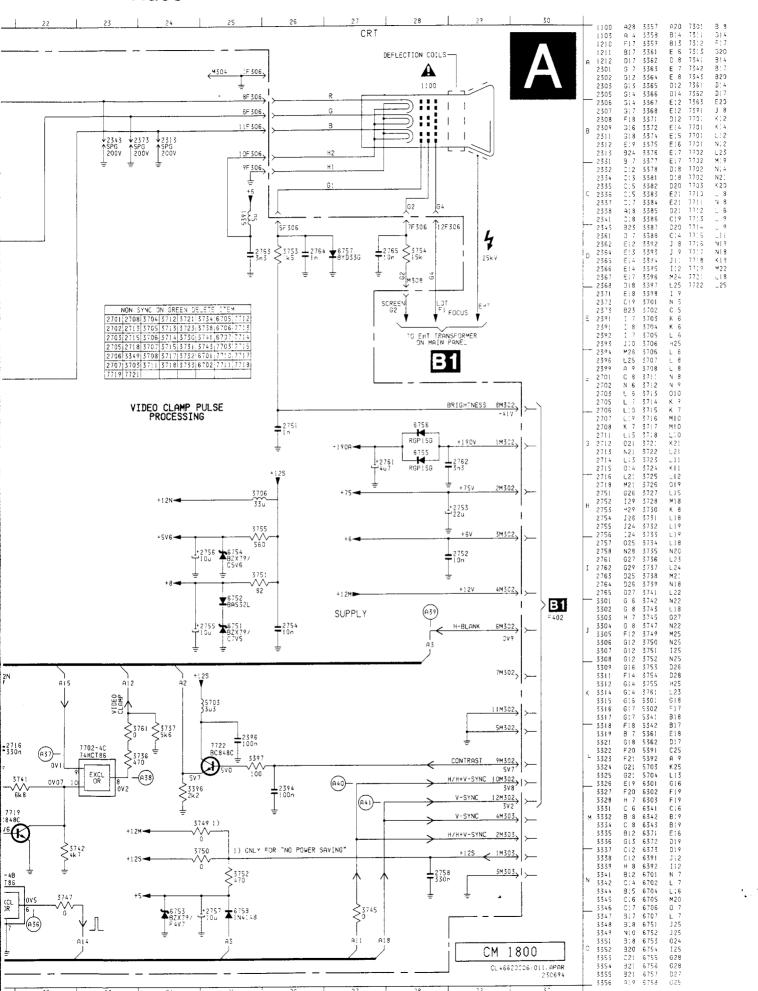
# Main panel



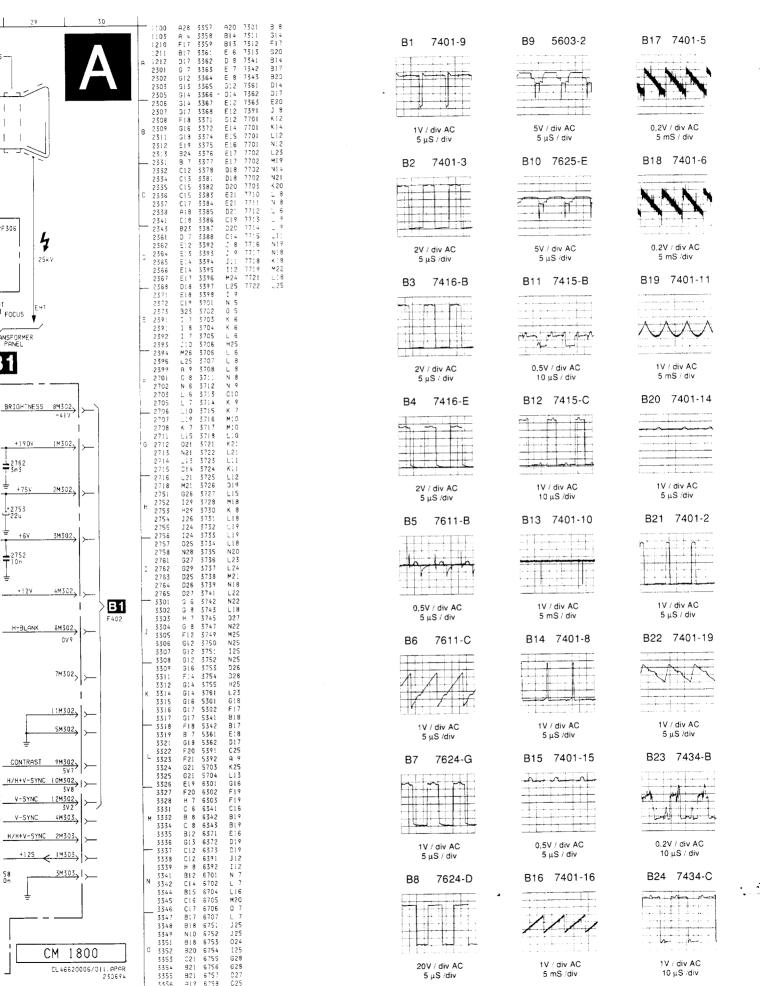


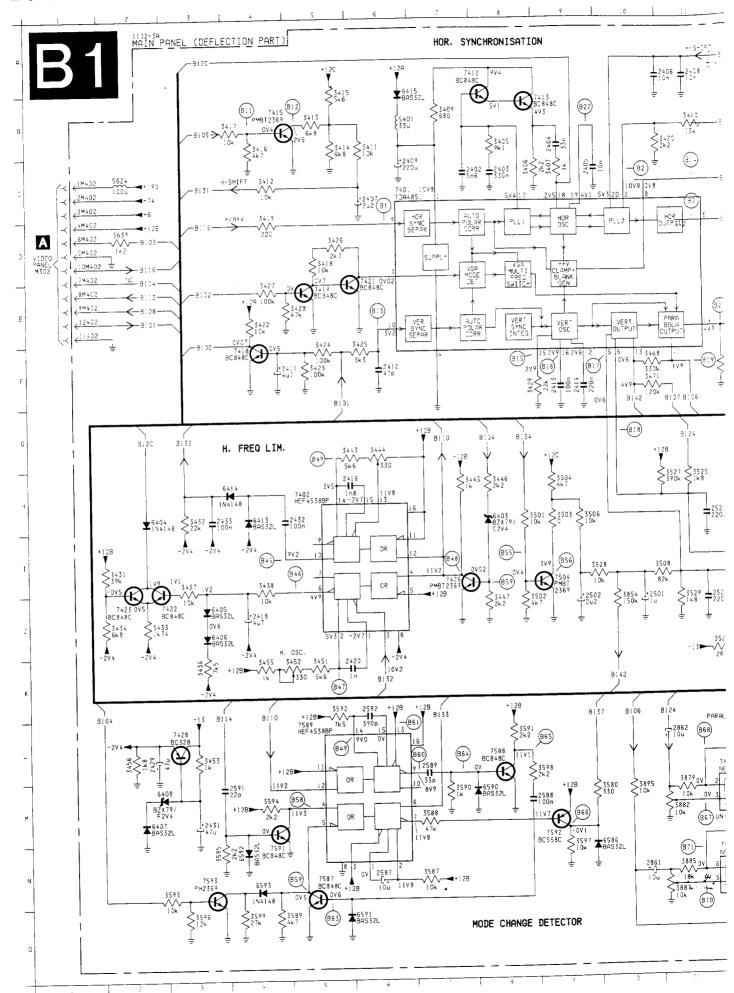


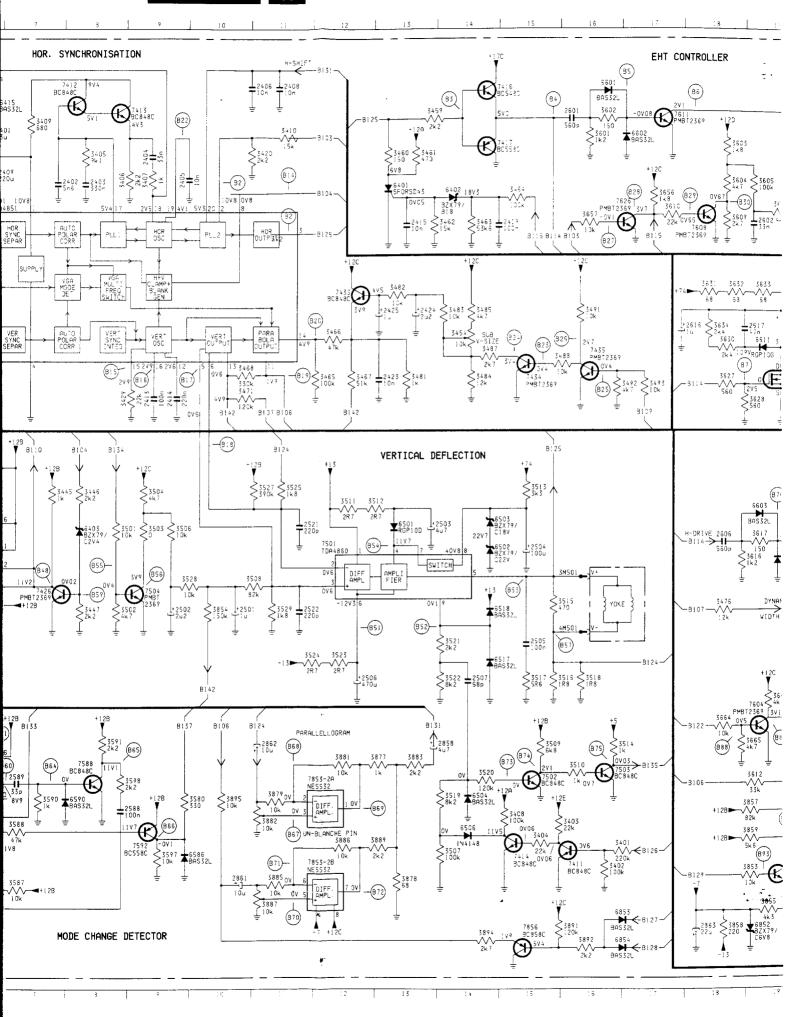




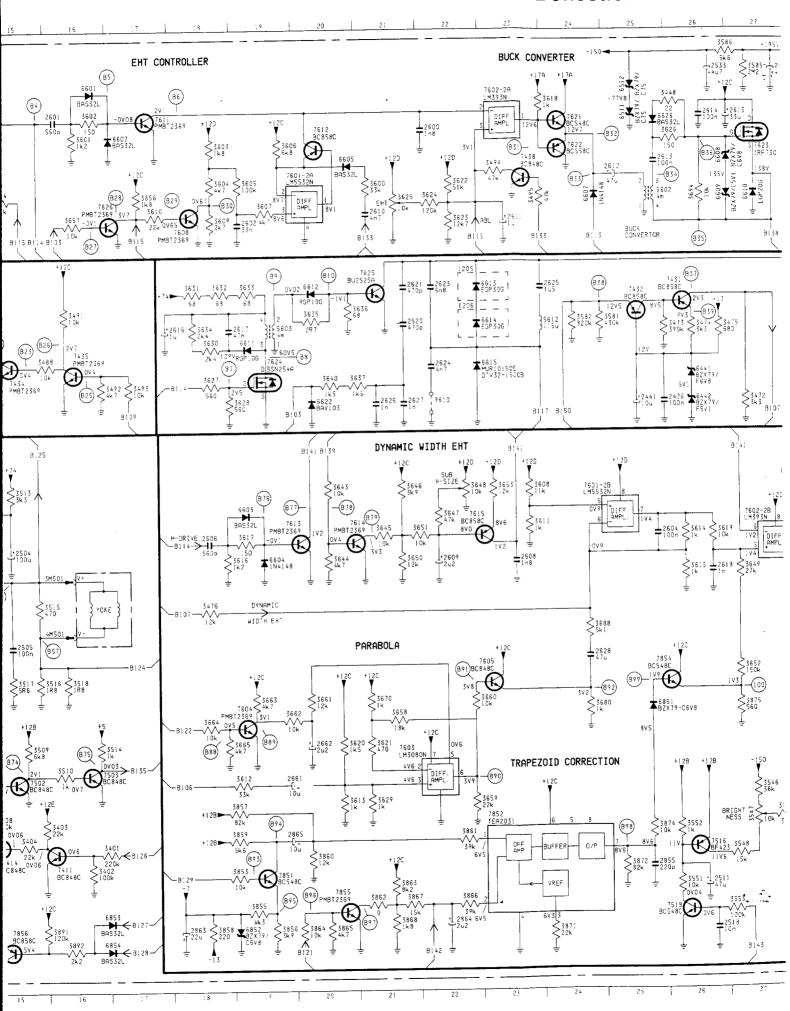
# Wave forms for diagram B1



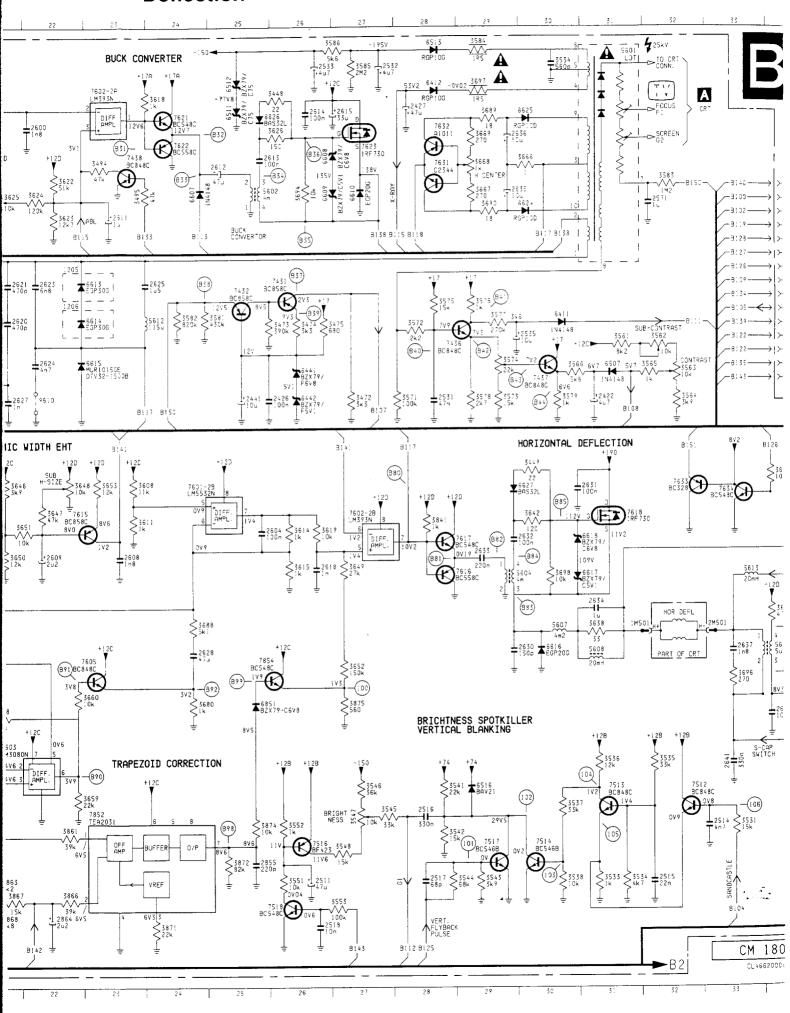


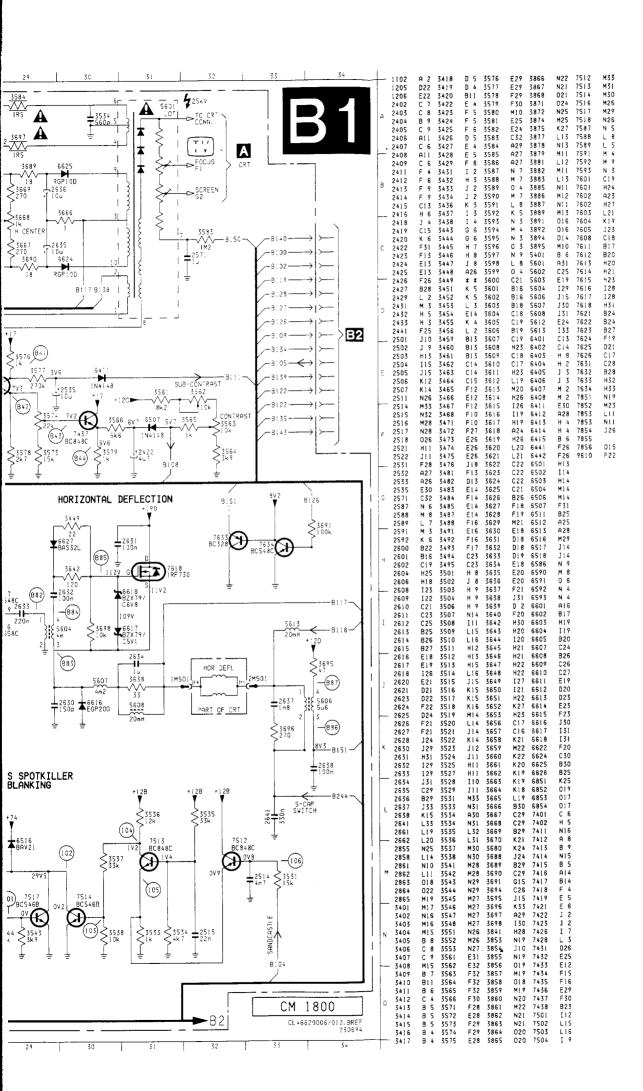


# **Deflection**

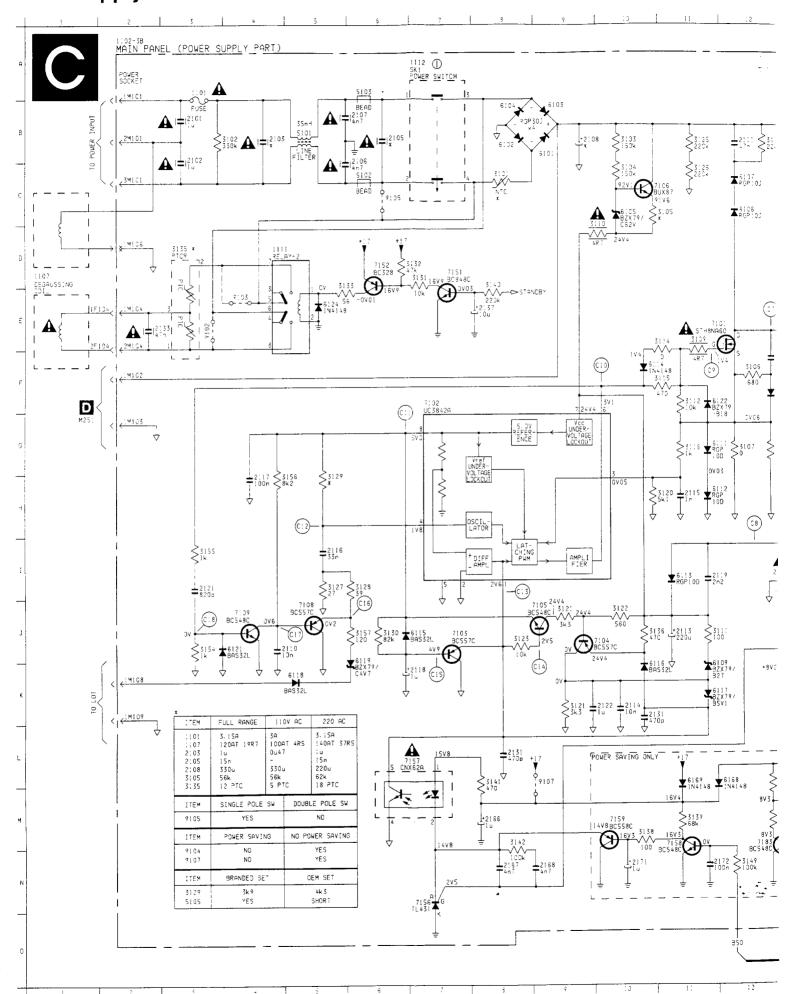


# **Deflection**

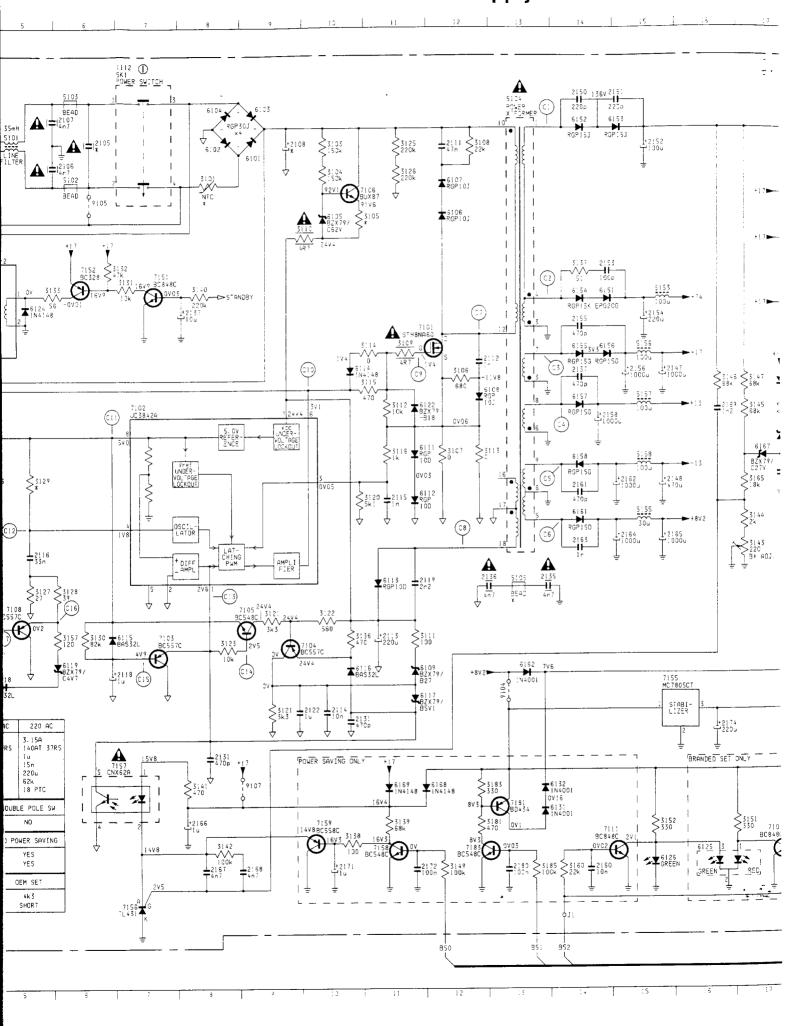


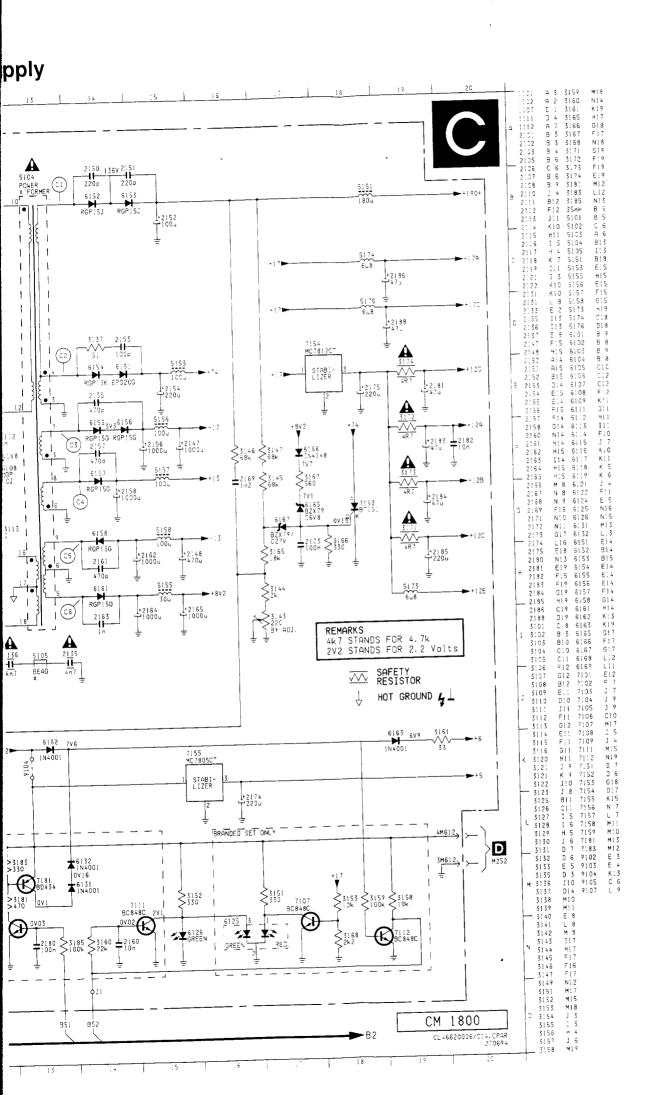


. . .



# **Power supply**





C1 5104-1 100V / div AC 10 µS / div C2 5104-4 50V / div AC 10 μS /div C3 5104-10V / div AC 10 μS / div 5104 10V / div AC 10 μS /div 5104 C5 10V / div AC  $10~\mu\text{S}~/~\text{div}$ C6 5104 5V / div AC 10 μS /div 5104 Many Jahran Ja 100V / div F 10 μS / di C8 5104 

> 20V / div / 10 μS /di

C17 7108-B

# Power saving pane

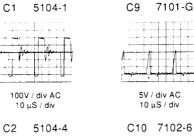
D6 7251-

1V / div AC

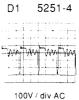
10 μS / div

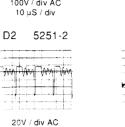
D7 7251--

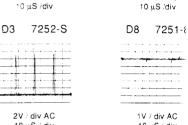
1V / div AC

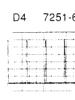
















3183 3185 35mH 51C1

8 4 8 6 3172

B12 F12 J11

K10 5102

III I 3 K10

K10

35 36 37

2135

2180

2188

F16 N10 6126

G19

E11 3110 D10 7104

C 8 6163 B 3 6165

7101 7102 7103

7108 7109

7151

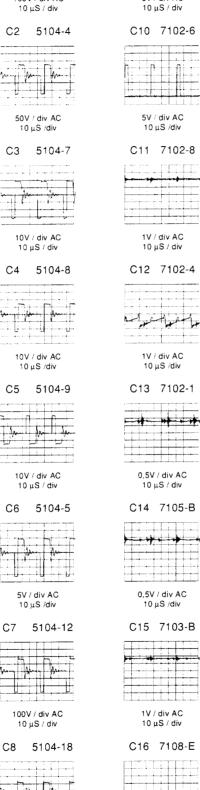
3:40

3155

L16 615; E18 6152

2106 2107 2108

9 2110

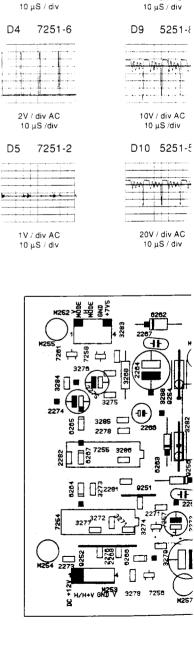


1V / div AC

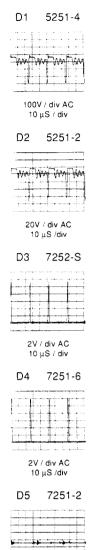
10 μS /div

20V / div AC

10 µS /div

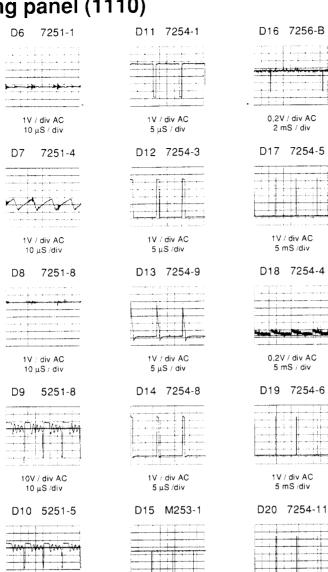


# Power saving panel (1110)



1V / div AC

 $10~\mu\text{S}$  / div

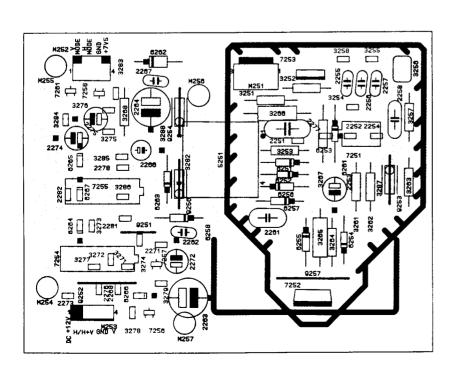


1V / div AC

5 mS / div

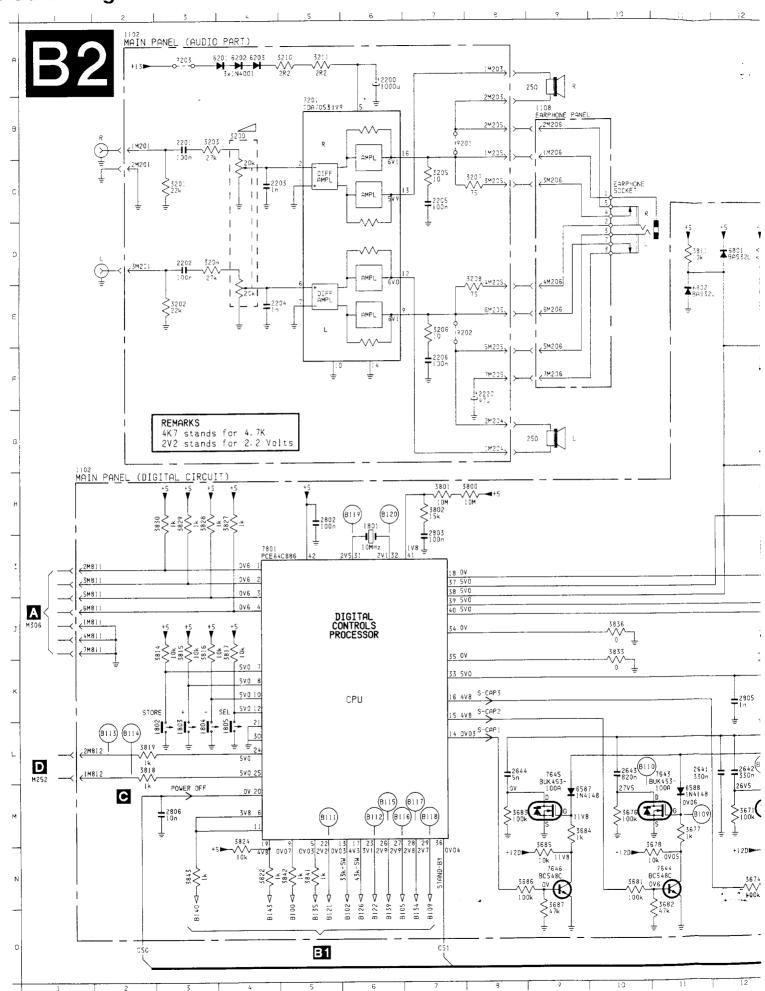
1V / div AC 5 mS / div

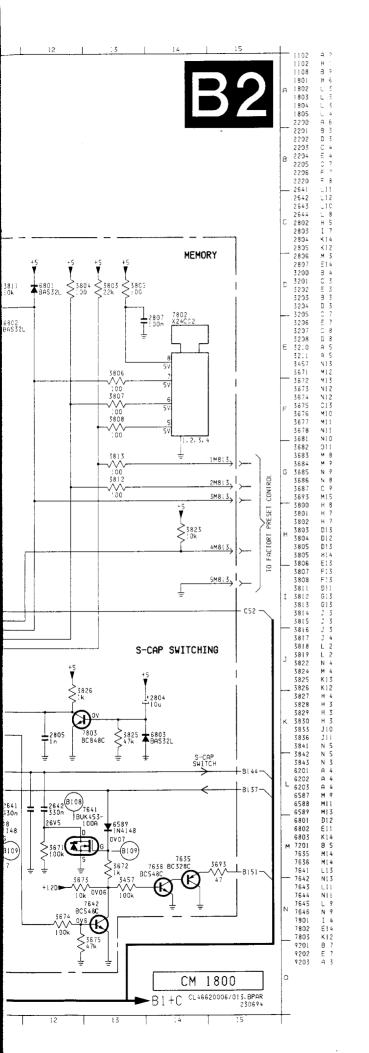


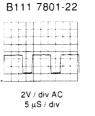


20V / div AC

 $10~\mu\text{S}\,/\,\text{div}$ 











2V / div AC 5 μS /div





1V / div AC 10 μS / div





1V / div AC 10 μS /div

B115 7801-26



1V / div AC 10 μS / div

B116 7801-27



1V / div AC 10 μS /div

B117 7801-28



1V / div AC 10 μS / div

B118 7801-29



10 μS /div

B119 7801-31

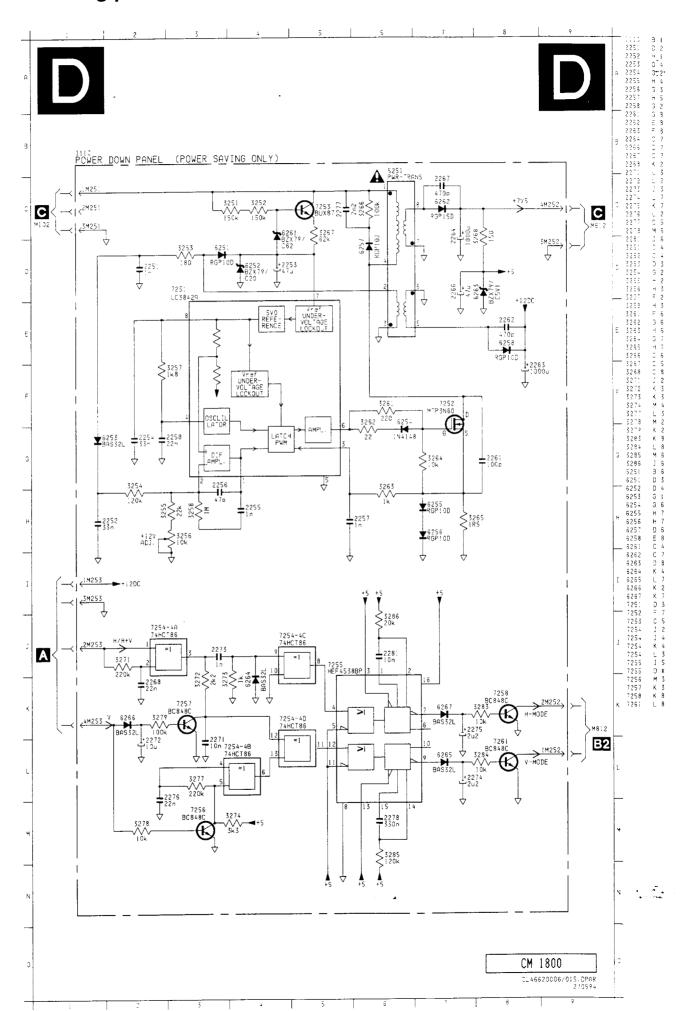


1 V / div AC 50 nS / div

B120 7801-32



1V / div AC 50 nS / div



# 7. Electrical instructions

#### 00. General:

When carry-out the electrical settings in many cases a video signal must be applied to the monitor. A computer with:

- "ATI VGA 1024 V6-1.04/PH BETA 4" interface card
- PGA1024 (4822 212 30916) PGA1280 (4822 212 30917)

are used as the video signal source. The signal patterns are selected from the "service test software" package (see user guide 4822 727 19896).

#### 01. With ATI card:

- Installation instruction for the ATI interface card :
- Place the monitor (if possible) in east-west direction.
- Place the ATI interface card into the computer.
- Select the "vsetup" file from the "utility disk" belonging to the card.
- Select "8 bits" or "16 bits" rom operation depending on your computer type.

- Select "analog monitor" Select the monitor type from video ROM BIOS. Select "MAGNAVOX CM5000" for the resolutions:

640 \* 350 31.5 kHz/70 Hz 640 \* 400 31.5 kHz/70 Hz 640 \* 480 31.5 kHz/60 Hz 640 \* 480 37.8 kHz/60 Hz 800 \* 600 35.2 kHz/56 Hz 800 \* 600 37.8 kHz/60 Hz 800 \* 600 48.0 kHz/72 Hz 1024 \* 768 35.5 kHz/87 Hz 1024 \* 768 48.4 kHz/60 Hz 1024 \* 768 56.0 kHz/70 Hz

- Reboot your computer again.

- Put the floppy disk containing the service test software package in the computer and select the test pattern indicated for the service setting.

#### 02. With normal VGA card:

If not using the ATI card during repair or alignment, The service engineer also can use this service test software adapting with normal standard VGA adaptor and using standard VGA mode 640 \* 480, 31.5 kHz/60 Hz (only) as signal source.

#### 03. AC/DC Measurement:

The measurements for AC waveform and DC figure is based on 1024 \* 768, 56 kHz/70 Hz resolution mode with test pattern "gray scale".

#### 1.0. B+ supply voltage (3143), Power saving (3256,+12V ADJ), EHT (3625).

- Apply a video signal in the 640 \* 480 with 31.5 kHz/60Hz mode.
- Select the "cross-hatch" pattern.
- Set the brightness front control 3547 and the contrast front control 3563 to the minimum position.
- Pre-set trimming potentiometer 3143,3625 and 3256 in mid-
- position.

   Connect a dc voltmeter between the "+" pole of capacitor 2152 (on power supply) and ground (common ground).
- Set the B+ trimming potentiometer 3143 so that the reading on the dc voltmeter is 190 V +/- 0.5 Vdc.
   Connect a dc voltmeter between the "+" pole of capacitor 2263 (on power down panel) and ground (common ground).
   Set the trimming potentiometer 3256 so that the reading
- on the dc voltmeter is 12.0 +/- 0.1 Vdc.

#### 2.0. Line frequency limit adjustment (3444)

- Set the brightness front control 3547 at center-click position and the contrast front control 3563 to the maximum position.

#### METHOD 1.

- Apply a video signal in the 1024 \* 768 with 56 kHz/70 Hz mode
- Select the "cross-hatch" pattern.
- Connect a dc voltmeter between pin 10 of IC7402 and ground.
   Set the trimming potentiometer 3444 until the reading of dc voltmeter is 9.5 vdc.

#### METHOD 2.

- Apply a video signal in the 1280 \* 1024 with 64 kHz/60 Hz mode. (with CHROMA 2000)
- Select the "cross-hatch" pattern.
- Connect an oscilloscope to pin 10 of IC7402
- Using pot-meter 3444, set the timing (duty-off pulse width) of pulse at pin 10 of IC 7402 to 1 uS.

CHROMA 2000 timing chart for 1280 \* 1024 with 64 kHz/60 Hz

63.75 kHz/59.747 Hz PIXEL = 110.160 MHz

#### HORIZONTAL

### **VERTICAL**

FRAME BORDER = 0.0000 us FRAME BORDER = 0.0000 m TOTAL SIZE = 15.686 us TOTAL SIZE = 16.737 mDISPLAY SIZE DISPLAY SIZE = 11.620 us = 16.062 mREAR PORCH REAR PORCH SYNC WIDTH = 1.997 us = 0.596 msSYNC WIDTH = 1.489 us= 0.047 msSYNC POLARITY = +/-SYNC POLARITY =

#### 3.0. Horizontal synchronisation (3452)

- Set the brightness front control 3547 and the contrast front control 3563 to the maximum position
- Set H-phase control at center position (OSD scale reach to 50).
- Apply a video signal in the 1024 \* 768 with 56 kHz/70 Hz mode.
- Select the "cross-hatch" pattern.
- Turn off the power
- To connect pin 9 of IC 7401 (TDA4851) to ground.
   Apply the positive polarity H-SYNC through a 2k2 ohm resistor to the base of transistor 7426 (To connect a 2k2 ohm resistor between M402 pin 10 and the base of transistor 7426)
- Turn on the power.
- Adjust trimming potentiometer 3452 untill the picture stands straight.
- Turn off the power.
- Remove the grounding from pin 9 of IC 7401.
   Remove the 2k2 resistor.
- Turn on the power.
- Adjust the raster centering by potmeter 3668 untill raster located in the bazzle center (screen center).

#### 4.0. High-voltage EHT (3625)

- Apply a video signal in the 1024 \* 768 with 56 kHz/70 Hz mode.
- Select the "cross-hatch" pattern.
- Set the H-width control at minimum position (OSD scale reach to 0).
- Set the brightness front control 3547 and the contrast front control 3563 to the minimum position.
- Turn off the power.
- Connect a "high-voltage voltmeter" between the high-voltage connection of the picture tube and earth.
- Turn on the power.Set the EHT trimming potentiometer 3625 so that the \*highvoltage voltmeter" reads 24.5KV +/- 0.2 KV.
- Turn off the power.
   Remove the "high-voltage voltmeter" from the picture tube.
- Turn on the power again.

#### 5.0. Adjustment of pre-size (3648-H,3454-V)

#### 5.1. Pre-sizing for H-Width (3648)

# **Electrical instructions**

- Apply a video signal in the 640 \* 480 with 35.0 kHz/67 Hz mode.
- Select the "cross-hatch" pattern.
   Set the brightness front control 3547 and contrast front control 3563 in the mechanical mid-position.
- Adjust the H-Width to maximum (OSD scale indicator reach to 100) by press key '+'
- Adjust the sub H-Width control by potmeter 3648 untill the horizontal width reach to bezel (edge).

## 5.2. Pre-sizing for V-Size (3454)

- Apply a video signal in the 800 \* 600 with 48 kHz/72 Hz mode.
- Select the "cross-hatch" pattern
- Set the brightness front control 3547 and contrast front
- control 3563 in the mechanical mid-position.

   Adjust the V-Size to maximun (OSD scale indicator reach to
- 100) by press key '+'.
   Adjust the sub V-Size control by potmeter 3454 untill the vertical height reach to bezel (edge).

## 6.0. Focus setting

- Apply a video signal in the 800 \* 600 with 48 kHz/ 72Hz mode.
- Select the "@" pattern.
- Set the brightness front control 3547 to mid-position and contrast front control 3563 to maximum position.
- Adjust focus potentiometer (top knob on the line output transformer) so that the picture at 2/3 of the diagonal lines (from center to four corners) of the displayed screen is as sharp as possible.

## 7.0. Adjustment of cut - off

- VG2 (bottom knob on the line output transformer)
- \* Cut-off points of the picture tube (3324, 3354, 3384) \* White "D" (3303, 3363)
- Pre-set trimming potentiometers 3324, 3354, 3384 and
- 3303, 3363 to the mechanical mid-position.

   Apply a video signal in the 640 \* 480 with 31.5 kHz/60 Hz mode.
- Select the full white pattern.
- Set the brightness front control 3547 to the center click position and contrast front control 3563 to the mechanical minimum position.
- Set VG2 potentiometer on the line output transformer to minimum position.
- Using the VG2 setting key, increase the VG2 voltage until a color is just visible (the colour may be red, green or
- Then set the cut-off points trimming pot-meter belonging to the two colours not yet visible(3324, 3354 or 3384) so that an optimum white background (raster) color is obtained.
- Set the contrast front control 3563 to maximum in order to check that the background (raster) color remains the same even at maximum contrast.
- Then set the contrast front control 3563 to the central position again.

#### 7.1. White "D" (3303, 3363)

- Set the contrast front control 3563 to maximum position.
- Set the brightness front control 3547 at center click
- Adjust potentiometer 3303,3363 to the same light output level so that an optimal display color (White "D") is obtained.
- If necessary, adjust sub-contrast potentiometer 3562 for the optimal light output of the video display (until the brightness no longer increases).

#### 8.0. Picture geometry setting (factory pre-set modes)

- . Set brightness front control 3547 and the contrast front control 3563 in the mechanical central position.
  - Apply a video signal with cross-hatch pattern.
- Turn off the power.

- To short M813 pin 3 and pin 5.
- Turn on the power.

## 8.1. Horizontal geometry (OSD control)

- Adjust the H-width to 260 mm.
- Adjust the H-phase to center position.

## 8.2. Vertical geometry (OSD control)

- Adjust vertical size to 195 mm.
- Adjust V-phase to center position.

#### 8.3. Parallelo distortion (3882)

- Apply a video signal in the 1024 \* 768 with 60 kHz/ 75Hz
- Select the "cross-hatch" pattern.
- Adjust pot-meter 3882 to get optimum vertical line.

#### 8.4. Unbalance-pincushion distortion (3887)

- Apply a video signal in the 1024 \* 768 with 60 kHz/ 75 Hz mode.
- Select the "cross-hatch" pattern.
- Adjust pot-meter 3887 to get optimum vertical line.

#### 8.5. Pincushion (OSD control)

- Adjust the pincushion to straight vertical lines of the left and right edge.

#### 8.6. Trapezium (OSD control)

- Adjust the trapezium to get optimum vertical line.

# 8.7. Store the preset result by pressing the store key "I\$".

- Repeat procedure 8.1-8.2 and 8.5-8.7 until all the pre-set timing has been adjusted completely.
- Turn off the power.
- Remove the connection between M813 pin 3 and pin 5.
- Turn on the power.

# 8. Repair tips

#### Warning

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD).

Careless handling during repiar can reduce life drasticlly. When repairing, make sure that you are connected with the same potential as the mass of the unit via a wrist wrap with resistance.



Keep components and tools also at the same potential!

# Servicing of SMDs (Surface Mounted Devices)

## 1.1 General cautions on handling and storage

- a. Oxidation on the terminals of SMDs results in poor soldering. Do not handle SMDs with bare hands.
- Avoid using storage places that are sensitive to oxidation such as places with sulphur or chlorine gas, direct sunlight, high temperatures or a high degree of humidity.
  - The capacitance or resistance value of the SMDs may be affected by this.
- c. Rough handling of circuit boards containing SMDs may cause damage to the components as well as the circuit boards. Circuit boards containing SMDs 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 chip components as this may cause the value of the component to change. Similarly, do not slide the circuit board across any surface.

#### 1.2 Removal of SMDs

- Heat the solder (for 2-3 seconds) at each terminal of the chip. By means of litz wire and a slight horizontal force, small components can be removed with the soldering iron. They can also be removed with a solder sucker (see Fig. 8.1A) 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. 8.18).
- c. Remove the excess solder on the solder lands by means of litz wire or a solder sucker (see Fig. 8.1C).

#### Caution on removal:

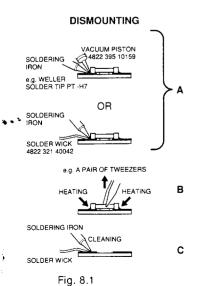
- a. When handling the soldering iron, use suitable pressure and be careful.
- b. When removing the chip, do not use undue force with the pair of tweezers.
- c. The soldering iron to be used (approx. 30 W) should preferably be equipped with a thermal control (soldering temperature: 225 to 250°C).
- d.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

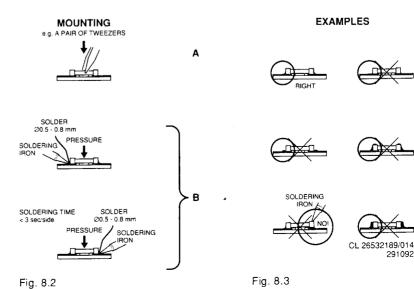
#### 1.3 Attachment of SMDs

- a. Locate the SMD on the solder lands by means of tweezers and solder the component on one side.
   Ensure that the component is positioned correctly on the solder lands (see Fig. 8.2A).
- Next complete the soldering of the terminals of the component (see Fig. 8.2B).

# Caution when attaching SMDs:

- a. When soldering the SMD terminals, do not touch the directly with the soldering iron. The soldering should be done as quickly as possible; care must be taken to avoid damage to the terminals of the SMDs themselves.
- b. Keep the SMD's body in contact with the printed board when soldering.
- c. The soldering iron to be used (approx. 30 W) should preferably be equipped with a thermal control (soldering temperature: 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.
- After soldering, let the SMD cool down gradually at room temperature.
- g. The quantity of solder must be proportional to 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. 8.3).



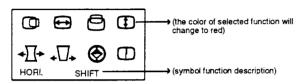


The monitor is factory pre-set for the 7 video timings/mode. (ref. Technical data)

In addition this monitor provides the ability to store 7 additional video timing/modes and related adjustments.

#### A) User Adjustments (for Factory pre-set modes and new modes)

\* Press knob **①** to switch the monitor on.
\* Press **◇** and the following picture will be displayed:



\* This picture will disappear after 20 seconds if no

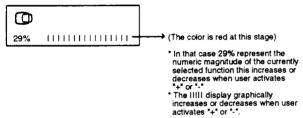
adjustment is performed.

Press "+" or "-" to select the item in the following order or backwards:

H-SHIFT<--->H-SIZE<--->V-SHIFT<--->V-SIZE<---->
PINCUSHION<---> TRAPEZOID<---> POWER SAVING <--->DEGAUSSING

To perform adjustment:

Press > to confirm the selected item. After selection is done, only selected item remains visible together with magnitude indicators as shown below:

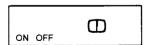


- \* Press "+" or "-" to adjust the magnitude of the change.
  \* Press > the whole function symbols will show again,
- then you may perform other function adjustment.

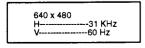
  \* If you select and confirm the " ●" (power saving) item, then the following picture will be displayed.



\* Press "+" or "-" to select "ON" or "OFF".
(the color of selected item is red)
\* if you select and confirm the " (Degauss) item, it will show Degaussing (active status) for 5 seconds then the following picture will be displayed:



\* After all the adjustments have been done, press 🗘 to store the completed adjustment, then the following example picture will appear:



\* Above display will disappear automatically after about 2 seconds (standard time out).

B) Power Saver

In normal working conditions, Input signal is complete with its two synchronizations.

LED Light is Green, this is the ON MODE.

\* This monitor incorporates an energy saver feature which is activated by default, If one of the two following conditions

 One of the two synchronization signals is missing.
 Display is shut down after 5 seconds.
 LED Light blinks quickly, 0.25 second ON and 0.25 second OFF

This the SUSPEND or STAND-BY MODE.

- Both synchronization signals are missing LED Light blinks slowly, 0.25 second ON and 1.75 second OFF

This is the OFF MODE.

\* When both synchronization signals are detected again display is activated back in ON MODE.

You may override the "Power Saving" function by pressing "+" and " > ".

C) Other Features

\* When using one of the video signals, You may recall factory pre-set adjustments by pressing "-" and " \( \rightarrow\)".

\* You also may want to keep the OSD menu active beyond its standard time-out of 2 seconds. To do this press "+" and "-" simultaneously instead of " \( \rightarrow\)".

\* To press "+" and "-" simultaneously again, it will show

resolution and frequency pattern, but it will only show frequencies pattern if the timing is not a factory pre-set

mode. \* To stop OSD press "+" and "-" simultaneously again.

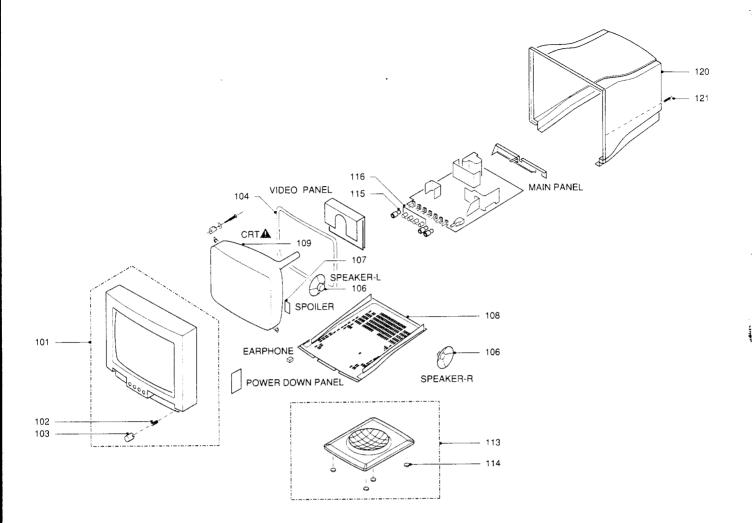
PCS 74 222

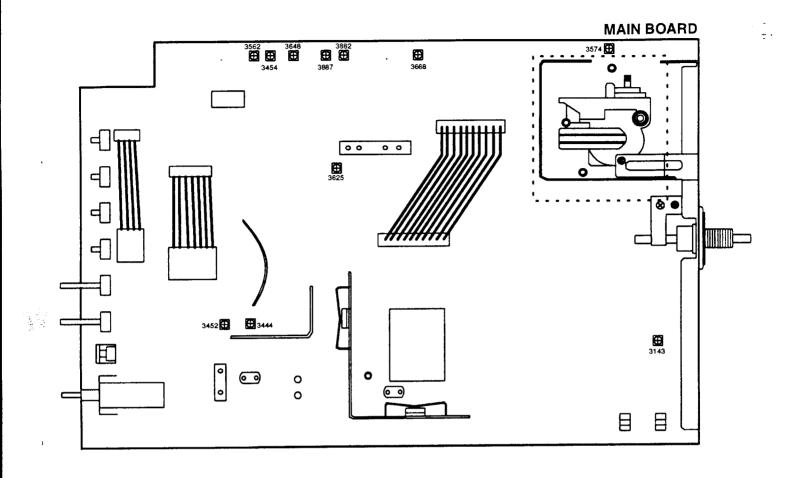
10.

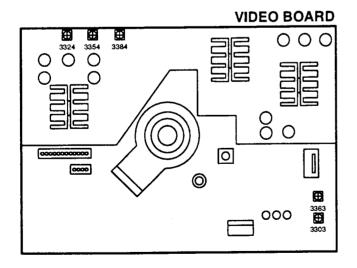
101

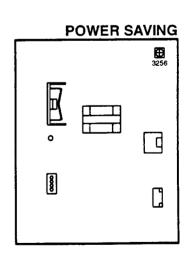
102 103

# 10. Spare parts list









6587												
	4822 130 30621			4822 130 44461		2365 2366	4822 122 32482 4822 122 31971		3361	4822 051 10759	75Ω 2% 0 25W	-
6588 6589		1N4148 1N4148		4822 130 41646 4822 130 44461	BF423 BC546B	2367	4822 122 31797	22nF 10% 63V	3362	4822 051 10101	100Ω 2% 0,25W	-
6590	4822 130 80446	BAS32L		4822 130 44196 5322 130 42136	BC548C	2368 2371		1μF 20% 160V 10μF 160V	3363 3364	4822 100 11141 4822 051 10106		
	4822 130 80446 4822 130 80446		7587 7588	5322 130 42136		2372	4822 122 33968	1nF 5% 500V	3365	4822 050 21009	10Ω 1% 0,6W	
6593	4822 130 30621	1N4148	7500	5322 209 10422	UEE4529BD	2373	4822 252 60127	DSP201M	3366 3367	4822 051 10109 4822 051 10689	10Ω 2% 0,25W 68Ω 2% 0,25W	
6601 6602	4822 130 80446 4822 130 80446	BAS32L BAS32L	7589 7591	5322 209 10422		2391	4822 122 31971		3368	4822 050 21809	18Ω 1% 0,6W	
6603	4822 130 80446		7592 7593	5322 130 60068 4822 130 41594	BC558C PH2369	2392 2393	4822 122 32482 4822 122 31797	22pF 2% 63V 22pF 10% 63V	3371 3372	4822 051 10159 4822 050 26809	15Ω 2% 0,25W 68Ω 1% 0.6W	
6604	4822 130 30621	1N4148	7601	5322 209 86234		2394	4822 122 33496	100nF 10% 63V				
6605	4822 130 80446	BAS32L		4822 209 80797		2396 2399	4822 122 33496 4822 124 22686	100nF 10% 63V 10uF 16V	3374 3375	4822 051 10102 4822 051 10479	1k 2% 0.25W 47Ω 2% 0.25W	
6607 6608	4822 130 30621 4822 130 34278	1N4148 BZX79-C6V8	7603 7604	4822 209 80723 4822 209 73852	PMBT2369	2701	4822 122 33496	100nF 10% 63V	3376	4822 050 24302		
6609	4822 130 34233		7605	5322 130 42136 4822 209 73852	BC848C	2702 2703	4822 122 33496 4822 124 22681	100nF 10% 63V 47uF 20% 16V	3377 3378	4822 050 24303 4822 117 11332		
6610 6611	4822 130 83539 4822 130 42489	EGP20G RGP10G	7608	4622 209 73032	1 WB12303			470nF 100V	3381	4822 117 11332		
6612	4822 130 42489 4822 130 83128			4822 209 73852 4822 130 42513		2706	4822 124 42031	2.2uF 20% 25V	3382 3383	4822 051 10104 4822 051 10184		
6613 6614	4822 130 83128		7613	4822 209 73852	PMBT2369	2707	4822 124 42031	2.2µF 20% 25V	3384	5322 100 11539 4822 116 52252	100k 30%lin 0,1W	
6615	4822 130 82584	DTV32-1500B	7614 7615	4822 209 73852 4822 130 42513		2708 2711	4822 124 22678 4822 122 31727	100µF 20% 16V 470pF 2% 63V	3385			
6616	4822 130 83539	EGP20G	7616	5322 130 60068	BC558C		4822 122 32442 4822 122 33496	10nF 50V 100nF 10% 63V	3386 3387	4822 050 22205 4822 111 50618		
6617 6618	4822 130 34233 4822 130 34278		7617 7618	4822 130 44196 5322 130 62262	BC548C IRF730	2713 2714	4822 126 11456	330nF 10% 63V	3388	5322 116 51882	$\Omega$ 0	
6622	4822 130 80877	BAV103	7621	4822 130 44196	BC548C	2715 2716	4822 126 11456 4822 126 11456	330nF 10% 63V 330nF 10% 63V	3391		3k3 2% 0,25W 3k3 2% 0,25W	
6624 6625	4822 130 31607 4822 130 31607	RGP10D RGP10D	7622	5322 130 60068	BC558C	2718	4822 126 11456		3393	4822 050 22201	220Ω 1% 0,6W	
6626	4822 130 80446		7623 7624	5322 130 62262 4822 130 63081	IRF730 BSN254A	2751	4822 122 33968	1nF 5% 500V	3394 3395	4822 051 10101 4822 051 20222		
6627 6801	4822 130 80446 4822 130 80446	BAS32L BAS32L	7625	4822 130 63329	BU2525A	2752	4822 122 32442	10nF 50V	3396	4822 051 20222 4822 051 10101		
6802	4822 130 80446	BAS321	7626 7631	4822 209 73852 4822 130 63274		2753 2754	4822 124 42148 4822 122 32442	22μF 20% 100V 10nF 50V	3397		10022 2 38 0,2544	
6803	4822 130 80446		7632	4822 130 63275	2SA1011E	2755	4822 124 22686	10μF 16V	3398	5322 116 51882 4822 051 20222	0Ω 2k2 5% 0,1W	
6851 6852	4822 130 34278 4822 130 34278		7633 7634	4822 130 44104 4822 130 44196		2756 2757	4822 124 22686 4822 124 22686	10μF 16V 10μF 16V	3701 3702	4822 051 20222		
6853	4822 130 80446		7635	4822 130 44104	BC328	2758	4822 126 11456		3703 3704	4822 116 52186 4822 116 52186		
6854	4822 130 80446	BAS32L	7636	4822 130 44196	BC548C	2761 2762	4822 124 42155 4822 122 32707	3,3nF 10%B 500V	3704	4822 051 10184	180K 2% 0.25W	
£	-€3		7641	4822 130 63131		0762	4000 100 20707	3.3nF 10%B 500V	3706 3707	4822 051 10471 4822 051 10102		
7101	4822 130 63631	STHRNAGO	7642 7643	4822 130 44196 4822 130 63131		2763 2764	4822 122 33968	1nF 5% 500V	3708	4822 051 10471	470Ω 2% 0.25W	
7101	4822 130 63631	STH8NA60	7644 7645	4822 130 44196 4822 130 63131		2765	4822 126 12651	10nF 20% 2K	3711	4822 051 10104	100K 2% 0.25W	
7101 7102	4822 130 63625 4822 209 83909		7646	4822 130 44196	BC548C				3712	4822 051 10682		
7103	4822 130 42231	BC557C	7801 7802	4822 209 33553 4822 209 30976		l	4822 051 10759	75O 2% 0 25W	3713 3714	4822 050 24702 4822 051 10122		
7104 7105	4822 130 42231 4822 130 44196	BC557C BC548C	7802	4822 209 33643	ST24C02CB6	3302	4822 051 10101	100Ω 2% 0.25W	3715	4822 050 21802		
7106	5322 130 44918	BUX87	7803	5322 130 42136	(ST)8P BC848C	3303	4822 100 11141 4822 051 10106		3716 3717	4822 051 10471 4822 051 10681		
7107 7108	5322 130 42136 4822 130 42231	BC848C BC557C	7000			3305	4822 051 10109	10Ω 2% 0,25W	3718	4822 051 10473 4822 051 10682		
			7851	4822 130 44196	9C548C							
	4000 100 44106	DCE49C	7852			3306	4822 051 10159 4822 051 10181		3721 3722	4822 051 10472	4k7 2% 0,25W	
7109 7111	4822 130 44196 5322 130 42136	BC848C	7852 7853	4822 209 31125 5322 209 86234	TEA2031A NE5532N	3307 3308	4822 051 10181 4822 050 21809	180Ω 2% 0.25W 18Ω 1% 0,6W			4k7 2% 0,25W	
7111 7112	5322 130 42136 5322 130 42136	BC848C BC848C		4822 209 31125 5322 209 86234 4822 130 44196 4822 209 73852	TEA2031A NE5532N BC548C PMBT2369	3307	4822 051 10181	180Ω 2% 0.25W 18Ω 1% 0,6W 15Ω 2% 0,25W	3722 3723 3724	4822 051 10472 4822 051 10104 4822 051 10682	4k7 2% 0,25W 100K 2% 0,25W 6k8 2% 0,25W	
7111 7112 7151 7152	5322 130 42136 5322 130 42136 5322 130 42136 4822 130 44104	BC848C BC848C BC848C BC328	7853 7854	4822 209 31125 5322 209 86234 4822 130 44196	TEA2031A NE5532N BC548C PMBT2369	3307 3308 3309 3311	4822 051 10181 4822 050 21809 4822 051 10159 5322 116 51882	$180\Omega$ 2% 0.25W $18\Omega$ 1% 0.6W $15\Omega$ 2% 0,25W $0\Omega$	3722 3723	4822 051 10472 4822 051 10104	4k7 2% 0,25W 100K 2% 0,25W 6k8 2% 0,25W 4k7 2% 0,25W	
7111 7112 7151	5322 130 42136 5322 130 42136 5322 130 42136	BC848C BC848C BC848C BC328 MC7812CT	7853 7854 7855 7856	4822 209 31125 5322 209 86234 4822 130 44196 4822 209 73852 4822 130 42513	TEA2031A NE5532N BC548C PMBT2369 BC858C	3307 3308 3309 3311 3312 3314	4822 051 10181 4822 050 21809 4822 051 10159 5322 116 51882 4822 050 26809 4822 051 10102	180Ω 2% 0.25W 18Ω 1% 0.6W 15Ω 2% 0,25W 0Ω 68Ω 1% 0,6W 1k 2% 0,25W	3722 3723 3724 3725 3726 3727	4822 051 10472 4822 051 10104 4822 051 10682 4822 051 10472 4822 051 10271 4822 051 10102	4k7 2% 0,25W 100K 2% 0,25W 6k8 2% 0,25W 4k7 2% 0,25W 270Ω 2% 0,25W 1k 2% 0,25W	
7111 7112 7151 7152 7154 7155 7156	5322 130 42136 5322 130 42136 5322 130 42136 4822 130 44104 4822 209 81726 4822 209 80891 4822 209 81397	BC848C BC848C BC848C BC328 MC7812CT MC7805CT TL431CLP	7853 7854 7855 7856	4822 209 31125 5322 209 86234 4822 130 44196 4822 209 73852	TEA2031A NE5532N BC548C PMBT2369 BC858C	3307 3308 3309 3311 3312 3314 3315	4822 051 10181 4822 050 21809 4822 051 10159 5322 116 51882 4822 050 26809 4822 051 10102 4822 050 24709	180Ω 2% 0.25W 18Ω 1% 0.6W 15Ω 2% 0.25W 0Ω 68Ω 1% 0.6W 1k 2% 0.25W 47Ω 1% 0.6W	3722 3723 3724 3725 3726	4822 051 10472 4822 051 10104 4822 051 10682 4822 051 10472 4822 051 10271	4k7 2% 0.25W 100K 2% 0.25W 6k8 2% 0.25W 4k7 2% 0.25W 270Ω 2% 0.25W 1k 2% 0.25W 100Ω 1% 0.6W	
7111 7112 7151 7152 7154 7155 7156 7157	5322 130 42136 5322 130 42136 5322 130 42136 4822 130 44104 4822 209 81726 4822 209 80891	BC848C BC848C BC848C BC328 MC7812CT MC7805CT TL431CLP CNX62A	7853 7854 7855 7856 <b>110</b>	4822 209 31125 5322 209 86234 4822 130 44196 4822 209 73852 4822 130 42513	TEA2031A NE5532N BC548C PMBT2369 BC858C	3307 3308 3309 3311 3312 3314 3315 3316 3317	4822 051 10181 4822 050 21809 4822 051 10159 5322 116 51882 4822 050 26809 4822 051 10102 4822 050 24709 4822 050 24303 4822 050 24303	180Ω 2% 0.25W 18Ω 1% 0.6W 15Ω 2% 0.25W 0Ω 68Ω 1% 0.6W 1k 2% 0.25W 47Ω 1% 0.6W 4k3 1% 0.6W 43k 1% 0.6W	3722 3723 3724 3725 3726 3727 3728 3728 3730	4822 051 10472 4822 051 10104 4822 051 10682 4822 051 10472 4822 051 10271 4822 051 10102 4822 050 21001 4822 050 21001 4822 111 90368	4k7 2% 0.25W 100K 2% 0.25W 6k8 2% 0.25W 4k7 2% 0.25W 270Ω 2% 0.25W 1k 2% 0.25W 100Ω 1% 0.6W 100Ω 1% 0.6W 680K 2% 0.125W	
7111 7112 7151 7152 7154 7155 7156 7157 7158	5322 130 42136 5322 130 42136 5322 130 42136 4822 130 44104 4822 209 81726 4822 209 80891 4822 209 81397 4822 130 80908 4822 130 44196	BC848C BC848C BC848C BC328 MC7812CT MC7805CT TL431CLP CNX62A BC548C	7853 7854 7855 7856	4822 209 31125 5322 209 86234 4822 130 44196 4822 209 73852 4822 130 42513	TEA2031A NE5532N BC548C PMBT2369 BC858C	3307 3308 3309 3311 3312 3314 3315 3316 3317 3318 3319	4822 051 10181 4822 050 21809 4822 051 10159 5322 116 51882 4822 050 26809 4822 051 10102 4822 050 24709 4822 050 24302 4822 1050 24302 4822 1050 24302 4821 117 11332 5322 116 51882	$\begin{array}{c} 180\Omega \ 2\% \ 0.25W \\ 18\Omega \ 1\% \ 0.6W \\ 15\Omega \ 2\% \ 0.25W \\ 0\Omega \\ \\ 68\Omega \ 1\% \ 0.6W \\ 1k \ 2\% \ 0.25W \\ 47\Omega \ 1\% \ 0.6W \\ 431\% \ 0.6W \\ 43k \ 1\% \ 0.6W \\ 360 \ 5\% \ 3W \\ 0\Omega \\ \end{array}$	3722 3723 3724 3725 3726 3727 3728 3728 3730 3731 3732	4822 051 10472 4822 051 10104 4822 051 1054 4822 051 10472 4822 051 10071 4822 050 21001 4822 050 21001 4822 111 90368 4822 050 11302 4822 111 90368 4822 050 11302	4k7 2% 0.25W 100K 2% 0.25W 6k8 2% 0.25W 4k7 2% 0.25W 270Ω 2% 0.25W 100Ω 1% 0.6W 100Ω 1% 0.6W 680K 2% 0.125W 1K3 1% 0.4W 39K 1%	
7111 7112 7151 7152 7154 7155 7156 7157 7158 7159 7181	5322 130 42136 5322 130 42136 5322 130 42136 4822 130 44104 4822 209 81726 4822 209 80891 4822 209 81397 4822 130 8090 4822 130 8090 5322 130 6068 4822 130 40995	BC848C BC848C BC8288 MC7812CT MC7805CT TL431CLP CNX62A BC548C BC558C BD434	7853 7854 7855 7856 <b>110</b>	4822 209 31125 5322 209 8623 4822 130 44196 4822 209 73852 4822 130 42513 4822 130 42513 4822 265 10274	TEA2031A NE5532N BC548C PMBT2369 BC858C anel A	3307 3308 3309 3311 3312 3314 3315 3316 3317 3318 3319 3321	4822 051 10181 4822 050 21809 4822 051 10159 5322 116 51882 4822 051 10102 4822 050 24709 4822 050 24302 4822 050 24302 4822 117 11332 5322 116 51882	180Ω 2% 0.25W 18Ω 1% 0.6W 15Ω 2% 0.25W 0Ω 68Ω 1% 0.6W 1k 2% 0.25W 47Ω 1% 0.6W 4k3 1% 0.6W 430 1% 0.6W 360Ω 5% 3W 0Ω 360Ω 5% 3W	3722 3723 3724 3725 3726 3727 3728 3728 3730 3731 3732	4822 051 10472 4822 051 10104 4822 051 10682 4822 051 10271 4822 051 10102 4822 050 21001 4822 050 21001 4822 050 21001 4822 050 21001 4822 119 90368 4822 050 11302	4k7 2% 0.25W 100K 2% 0.25W 6k8 2% 0.25W 4k7 2% 0.25W 270Ω 2% 0.25W 100Ω 1% 0.6W 100Ω 1% 0.6W 680K 2% 0.125W 1K3 1% 0.4W 39K 1%	
7111 7112 7151 7152 7154 7155 7156 7157 7158 7159 7181 7183	5322 130 42136 5322 130 42136 5322 130 42136 4822 130 44104 4822 209 81726 4822 209 81397 4822 209 81397 4822 130 80908 4822 130 60068	BC848C BC848C BC328 MC7812CT MC7805CT TL431CLP CNX62A BC548C BC558C BD434 BC548C	7853 7854 7855 7856 <b>110</b>	4822 209 31125 5322 209 86234 4822 130 44196 4822 209 73852 4822 130 42513 03 Video Pa 4822 265 10274 4822 265 41418 4822 265 31206	TEA2031A NE5532N BC548C PMBT2369 BC858C anel A F301; F302; F303 12P (M302) 4P (M303/M301)	3307 3308 3309 3311 3312 3314 3315 3316 3317 3318 3319 3321 3322	4822 051 10181 4822 050 21809 4822 051 10159 5322 116 51882 4822 050 26809 4822 051 10102 4822 050 24709 4822 050 24302 4822 1050 24302 4822 1050 24302 4821 117 11332 5322 116 51882	$180\Omega~2\%~0.25W\\ 18\Omega~1\%~0.6W\\ 15\Omega~2\%~0.25W\\ 0\Omega\\ 68\Omega~1\%~0.6W\\ 18~2\%~0.25W\\ 47\Omega~1\%~0.6W\\ 431~\%~0.6W\\ 431~\%~0.6W\\ 360\Omega~5\%~3W\\ 0\Omega\\ 360\Omega~5\%~3W\\ 100k~2\%~0.25W\\ $	3722 3723 3724 3725 3726 3727 3728 3728 3730 3731 3732 3733	4822 051 10472 4822 051 10104 4822 051 10104 4822 051 10472 4822 051 10271 4822 051 10102 4822 050 21001 4822 050 21001 4822 111 90368 4822 050 1306 4822 116 82963 4822 051 10473 4822 051 20222	4k7 2% 0.25W 100K 2% 0.25W 6k8 2% 0.25W 4k7 2% 0.25W 270Ω 2% 0.25W 100Ω 1% 0.6W 100Ω 1% 0.6W 680K 2% 0.125W 1K3 1% 0.4W 39K 1% 47K 2% 0.25W	
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225° 2252° 2254° 2256° 2256° 2256° 2266° 2266° 2266° 2266° 2266° 2266° 2266° 2276° 2277° 2277°

# Spare parts list

<b>→</b> +			2274 2275	4822 124 40763 4822 124 40763	
6301 6302 6303 6341 6342 6343	4822 130 30621 4822 130 30842 4822 130 80877 4822 130 30621 4822 130 80877 4822 130 80877	1N4148 BAV21 BAV103 1N4148 BAV103 BAV103		4822 122 31797 4822 121 70492 4822 126 11456 4822 122 32442	22nF 10% 63V 2.2nF 5% 630V 330nF 10% 63V 10nF 50V
6371 6372 6373 6391	4822 130 30621 4822 130 30842 4822 130 80877 4822 130 80446 4822 130 80446	1N4148 BAV21 BAV103 BAS32L BAS32L	3251 3252 3253 3253 3254	4822 050 21504 4822 050 21504 4822 050 21801 4822 051 10124	150k 1% 0,6W 150k 1% 0,6W 180Ω 1% 0,6W 120k 2% 0,25W
6701 6702 6704 6705 6706 6707 6751	4822 130 80446 4822 130 80655 4822 130 80446 4822 130 80446 4822 130 80446 4822 130 80446 4822 130 80446	BAS32L BAS32L	3255 3256 3257 3258 3261 3262	4822 051 10223 4822 100 11141 4822 116 80941 4822 051 10105 4822 116 52215 4822 116 52186	22k 2% 0,25W 10k 30%lin 0,1W 1k8 1% 1M 5% 0,25W 220Ω 5% 0,5W 22Ω 5% 0,5W
6752 6753	4822 130 80446 4822 130 34174	BAS32L BZX79-F4V7	3263 3264 3265	4822 050 11002 4822 050 21003 4822 117 11331 4822 117 11206	1k 1% 0,4W 10k 1% 0,6W 1Ω 5 5% 1W 100k 5% 2W
6754 6755 6756 6757 6758	4822 130 34173 5322 130 31969 5322 130 31969 4822 130 42489 4822 130 30621	RGP15G RGP15G	3266 3267 3268 3271 3272 3273	4822 050 26203 4822 050 21501 4822 051 10224 4822 051 20222 4822 051 10102	62k 1% 0,6W 150Ω 1% 0,6W 220k 2% 0.25W 2k2 5% 0,1W 1k 2% 0,25W
7301 7311 7312 7313 7341 7342 7343 7361	4822 130 41646 4822 130 41594 4822 130 62279 4822 130 41646 4822 130 41594	BF423 PH2369 2SC3953E BF423 PH2369	3274 3277 3278 3279 3283 3284 3285 3286	4822 051 10332 4822 051 10224 4822 051 10103 4822 051 10104 4822 051 10103 4822 051 10103 4822 051 10103 4822 051 10103 4822 051 10203	3k3 2% 0.25W 220k 2% 0.25W 10k 2% 0.25W 100k 2% 0.25W 10k 2% 0.25W 10k 2% 0.25W 120k 2% 0.25W 20k 2% 0.25W
7362 7363	4822 130 41646		 52514	<b>▲</b> 4822 148 81388	Transformer
7391 7701 7702 7710 7711 7712 7713 7714 7715 7716	4822 209 73852 5322 209 11473 5322 209 11473 5322 130 42755 5322 130 42136 4822 130 60383 4822 209 73852 5322 130 42136 5322 130 42136 4822 209 73852	BC848C	6251 6252 6253 6254 6255 6256 6257 6258	4822 130 31607 4822 130 34499 4822 130 80446 4822 130 30621 4822 130 31607 4822 130 31333 4822 130 31393	RGP10D 8ZX79-C20 8AS32L 1N4148 RGP10D RGP10D RGP10J RGP10J RGP10J
7717 7719 7721 7722	4822 209 73852 5322 130 42136 4822 209 73852 5322 130 42136	PMBT2369 BC848C PMBT2369 BC848C	6261 6262 6263 6264	4822 130 34384 5322 130 31971 4822 130 34233 4822 130 80446	BAS32L
110	8 Headpho	ne Panel B2	6265 6266 6267	4822 130 80446 4822 130 80446 4822 130 80446	BAS32L BAS32L BAS32L
Vario	us	γ		-€3	
111	4822 267 31526 <b>O Power D</b>	Earphone jack	7251 7252 7253 7254 7255 7256 7257 7258	4822 209 83909 4822 130 62753 5322 130 44918 5322 209 11473 5322 209 10422 5322 130 42136 5322 130 42136 5322 130 42136	UC3842AN MTP3N60 BUX87 74HCT86N HEF4538BP BC848C BC848C BC848C
Vario	us 4822 265 31206	4P (M253)	7261	5322 130 42136	
11104		Spring for transistors  Power down panel			
<del></del>					
2251 2252 2253 2254 2255 2256 2257 2258 2261 2262	5322 122 31647 4822 122 31981 4822 124 80524 4822 122 31981 5322 122 32331 4822 126 12726 5322 122 32331 4822 121 41856 4822 122 33654 4822 122 33654	1nF 10% 63V 33nF +-0.5pF 50V 47μF 20% 35V 33nF +-0.5pF 50V 1nF 10% 100V 47pF 5% 50V 1nF 10% 100V 22nF 5% 250V 100pF 1KV 470pF 10% 500V			
2263 2264 2266 2267 2268 2271 2272 2273	4822 124 42172 4822 124 42172 4822 124 22681 4822 122 33646 4822 122 31797 4822 122 32442 4822 124 22686 5322 122 31647	1000µF 16V 1000µF 16V 47µF 20% 16V 470PF 10% 500V 22nF 10% 63V 10nF 50V 10µF 16V 1nF 10% 63V			

3133 4822 050 25609 56Ω 1% 0.6W 3135 4822 116 40265 12Ω PTC 25% 276V

# **Spare parts list**

# Parts indicated on exploded view

	4822 381 1154	
<b>A</b>	4822 265 3107	
•	4822 462 7198	
		switch
•	4822 466 9316	
		6615,7618)
. 🔺	4822 276 1244	
101	4822 430 1048	
		00T/05T/06T
101	4822 430 1048	9 Front cabinet for 74T/75T/97T
100	4822 492 7145	
102 103	4822 492 7145	
	4822 157 7069	
104	4022 137 7003	/00T/05T/06T/75T
		7001703170017731
104	4822 157 7072	9 Degaussing coil
		/74T/97T
106	4822 240 3064	2 Loudspeaker
		right/left
107	4822 526 2018	3 Spoiler
108	4822 432 1118	5 Bottem plate
109 4	4822 131 2058	
		M36KPC030X01
109 4	4822 131 2061	
		M36KPC030X01(S)
		for /75T
113	4822 462 1058	
114	4822 462 4203	
115	4822 413 4186	
116	4822 413 4186	9 OSD control
120	4822 438 1042	9 Rear cover
121	4822 502 2123	
121	4022 302 2120	O COLON TOT TOUT GOVER
Acce	ssoires	
	4822 263 5021	
		9-AVmac-000
	4822 736 5392	
		(multi language)
	4822 736 5398	
		AAT/AET/ACT/76T

4822 263 50216	Adaptor
	9-AVmac-000
4822 736 53922	Direction for use
	(multi language)
4822 736 53984	Direction for use
	00T/05T/06T/75T
4822 736 53993	Direction for use 971
4822 736 53992	Direction for use 747
4822 321 62108	Interface cable audio
4822 321 62602	Interface cable

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# 1102 Main Panel B1 B2 C

#### Various

	4822 267 31525	2P Cinch
	4822 265 10286	2P (M204)
	4822 267 31527	2P (M203)
<b>A</b>	4822 265 20604	2P (M104)
<b>A</b>	4822 265 30375	4P (M501)
	4822 265 41417	7P (M205)
	4822 492 71345	Fixing Spring (Item
		7623)
	4822 492 62076	Fixing spring (Item
		6615,7618,7625)
	4822 276 13467	Switch 18021805
11014	4822 253 50145	Fuse (3,15A)
11114	4822 280 70378	Relay

1111 4822 280 70378 Relay 1801 4822 242 81785 Crystal 10MHz

#### **⊣⊢**

2101 🔺	4822 122 33441	1µF 20%B 400V
2102▲	4822 122 33441	1μF 20%B 400V
2103	5322 121 44212	1μF 10% 275V
2105▲	4822 121 70454	15nF 20% 250V
2106	4822 122 33535	4,7nF 20% 400V
2107▲	4822 122 33535	4,7nF 20% 400V
2108	4822 124 80532	220µF 20% 400V
2108	4822 124 42168	330µF 400V
2110	4822 121 70495	10nF 2% 100V
2111	4822 121 43516	47nF 400V
2112	4822 122 33352	1nF 10% 1KV
2113	4822 124 42173	220µF 35V
2114	4822 122 32442	10nF 50V
2115	5322 122 31647	1nF 10% 63V
2116	4822 126 13316	33nF 100V
2117	4822 122 33496	100nF 10% 63V
2118	4822 124 22669	1μF 20% 50V
2119	4822 126 10206	2,2nF 10% 500V

4822 122 30031 820pF 10% 500V

l	2122	4822 124 22669	1μF 20% 50V
	2134 2135 ▲ 2136 ▲ 2147 2148 2150 2151	4822 122 31727 4822 121 51626 4822 122 32442 4822 122 33535 4822 122 33535 4822 124 40214 4822 124 124 4214 4822 126 13202 4822 126 13202 4822 126 13202	47nF 10% 250V 10nF 50V 4,7nF 20% 400V 4,7nF 20% 400V 1000μF 20% 25V 470μF 63V 220pF 10% 2KV 220pF 10% 2KV
	2156 2157 2158	4822 122 33654 4822 124 80538 4822 122 33644 4822 124 40214 4822 122 33644 4822 122 33644 4822 122 32442 4822 122 33646 4822 122 33646 4822 124 40214 5322 122 32331	220µF 20% 100V 470pF 10% 500V 1000µF 20% 25V 470pF 10% 500V 1000µF 20% 25V 100F 50V 470pF 10% 500V 1000µF 20% 25V
	2164 2165 2166 2167 2168 2169 2171 2172 2174 2175	4822 124 42172 4822 124 42172 4822 124 22666 4822 122 31784 4822 122 31784 4822 126 13247 4822 124 22665 4822 122 33496 5322 124 41817 5322 124 41817	2 1000µF 16V 1µF 20% 50V 4 4.7nF 10% 50V 4 1.2nF 10% 50V 1 1.2nF 10% 50V 5 100nF 10% 63V 220µF 16V
	2180 2181 2182 2183 2184 2185 2186 2188 2200 2201	4822 122 33496 4822 124 22681 4822 122 32442 4822 124 22681 5322 124 41817 4822 124 80133 4822 124 80133 4822 124 42172 4822 122 33496	47µF 20% 16V 10nF 50V 47µF 20% 16V 47µF 20% 16V 220µF 16V 247µF 20% 25V 247µF 20% 25V 1000µF 16V
	2202 2203 2204 2205 2206 2220 2402 2403 2404 2405	4822 122 33496 5322 122 31647 5322 122 31647 4822 121 43696 4822 121 43696 4822 121 42681 4822 121 43713 4822 121 43713 4822 122 31981 4822 121 70495	7 1nF 10% 63V 5 100nF 100V 5 100nF 100V 1 47µF 20% 16V 3 5,6nF 5% 100V 3 330nF 100V 1 33nF +-0,5pF 50V
The state of the s	2406 2407 2408 2409 2411 2412 2413 2414 2415 2416	4822 122 32442 4822 124 42031 4822 122 32442 5322 124 41817 4822 124 41659 4822 121 70106 4822 121 43699 4822 121 43699 4822 122 33481	2.2μF 20% 25V 10nF 50V 220μF 16V 4.7μF 20% 25V 4.7μF 20% 25V 4.7μF 20% 100V 20nF 100V 3 10nF 100V
	2418 2419 2420 2422 2423 2424 2425 2426 2427 2429	4822 124 41656 4822 122 33496 4822 122 31746 4822 124 41655 4822 124 4203 4822 124 4203 4822 124 2268 4822 124 42356 4822 124 2268	3 100nF 10% 63V 1000pF 2% 63V 4,7μF 20% 25V 2 10nF 50V 2,2μF 20% 25V 3 1μF 20% 50V 1 100nF 10% 63V 47μF 100V
	2431 2432 2433 2441 2501 2502 2503 2504 2505 2506	4822 124 2268* 4822 122 33496* 4822 122 33496* 4822 124 22686* 4822 124 4203* 4822 124 40196* 4822 124 40255* 4822 124 40196* 4822 124 40196*	100nF 10% 63V 100nF 10% 63V 10μF 16V 1μF 20% 50V 2,2μF 20% 25V 10μF 20% 63V 100nF 100V
	2507 2511 2514 2515 2516 2517 2518 2521 2522 2531	4822 126 1203 4822 124 2268 4822 122 3178 4822 122 3179 4822 121 4369 4822 126 1203 4822 122 3244 4822 122 3196 4822 122 3196 4822 121 4033	1 47μF 20% 16V 4 47nF 10% 50V 7 22nF 10% 63V 7 330nF 10% 100V 8 68pF 2% 63V 2 10nF 50V 2 220pF 2% 63V 5 220pF 2% 63V
i	25.20	4000 104 4015	4 70 E 250V

2532 4822 124 42155 4,7µF 250V

2533 2534 2535 2571 2587 2588 2589 2591 2592	4822 4822 4822 4822 4822 4822 4822 4822	121 <i>-</i> 124 : 122 : 126 : 122 :	41719 22686 33496 10324 32482	4.7μF 250V 560pF 10% 2KV 10μF 25V 1μF 10% 100V 10μF 16V 100nF 10% 63V 33pF 2% 63V 22pF 2% 63V 390pF 2% 63V
2600 2601 2602 2604 2605 2606 2608 2609 2610	4822 4822 4822 4822	122 : 122 : 121 : 122 : 122 : 124 : 122 :	32336 31981 33496 43693 31773 33481	1800pF 2% 63V 560pF 10% 100V 33nF +-0.5pF 50V 100nF 10% 63V 10nF 100V 560pF 2% 63V 1800pF 2% 63V 2.2µF 20% 25V 4.7nF 10% 50V 1µF 20% 50V
2612 2613 2614 2615 2616 2617 2618 2620 2621 2623	4822 4822 4822 4822 4822 5322 4822 4822	121 121 124 124 121 122 126 126	80132 43696 43918 42161 41867 43695 31647 11454 11454 70491	47μF 20% 25V 100nF 100V 100nF 10% 400V 33μF 20% 250V 1μF 20% 250V 47nF 10% 100V 1nF 10% 63V 470pF 2KV 470pF 2KV 6.8nF 5% 630V
2624 2625 2626 2627 2628 2630 2631 2632 2633 2633	4822 4822 4822 4822 4822 4822 4822 4822	121 122 122 124 126 121 121	12096 70504 33968 33968 22681 13249 43918 43696 43699 70301	4.7nF 5% 1.6KV 1.5μF 5% 250V 1nF 5% 500V 1nF 5% 500V 47μF 20% 16V 150pF 10% 500V 100nF 10% 400V 100nF 100V 220nF 100V
2635 2636 2637 2638 2641 2642 2643 2644 2661	4822 4822 4822 4822 4822 4822 4822 4822	124 126 122 121 121 121 121 121	22686 22686 13248 33496 70448 70448 70243 70489 22686 42031	$10\mu F$ 16V $10\mu F$ 16V $1.9 n F$ 10% 500V $1.9 n F$ 10% 63V $330 n F$ 5% 250V $320 n F$ 5% 250V $820 n F$ 5% 250V $5 n F$ 5% 250V $10\mu F$ 16V $2.2 \mu F$ 20% 25V
2802 2803 2804 2805 2806 2807 2855 2858 2861 2862	4822 4822 5322 4822 4822 4822 4822 4822 4822	122 124 122 122 122 122 124 124 124	33496 33496 22686 31647 32442 33496 31965 41659 22686 22686	100nF 10% 63V 100nF 10% 63V 10µF 16V 1nF 10% 63V 10nF 50V 100nF 10% 63V 220pF 2% 63V 4,7µF 20% 25V 10µF 16V 22µF 20% 16V
2864 2865	4822	124	42031 22686	2,2μF 20% 25V 10μF 16V
þ				
	4822	053	30425 21334 21504	7Ω 15% 330k 5% 0,5W 150k 1% 0,6W

3102▲	4822 053 21334	330k 5% 0,5W
3103	4822 050 21504	150k 1% 0,6W
3104	4822 050 21504	150k 1% 0,6W
3105	4822 050 25603	56k 1% 0,6W
3105	4822 050 26203	62k 1% 0,6W
3106	4822 116 80572	680Ω 10% 3W
3107	4822 116 82453	0Ω 43 5%
3108	4822 113 80608	22k 5W
31094	4822 052 10478	4Ω7 5% 0,33W
31104	4822 052 10478	4Ω7 5% 0,33W
3111	4822 051 10101	100Ω 2% 0,25W
3112	4822 050 21003	10k 1% 0,6W
3113	4822 116 82453	0Ω 5%

3113	4022 110 02433	077 2 /0
3114	5322 116 51882	$\Omega$ 0
3115	4822 050 24701	470Ω 1% 0,6W
3116	4822 050 11002	1k 1% 0,4W
3120	4822 051 10512	5k1 2% 0,25W
3121	4822 051 10332	3k3 2% 0,25W
3122	4822 050 15601	560Ω 1% 0.4W
3125	4822 050 22204	220k 1% 0.6W
3126	4822 050 22204	220k 1% 0.6W
3127	4822 051 10279	27Ω 2% 0,25W
3128	4822 051 10399	39Ω 2% 0,25W
3129	4822 050 23602	3k6 1% 0,6W
3130	4822 051 10823	82k 2% 0,25W
3131	4822 051 10103	10k 2% 0,25W
3132	4822 050 24703	47k 1% 0,6W

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3137 3138 3139 3140 3141 3142 3143 3144	4822 050 1511 4822 051 1010 4822 051 1068 4822 116 8184 4822 050 2470 4822 051 1010 4822 100 1156 4822 050 1200	9 18Ω 11 470Ω 1% 0.6W 9 51Ω1 1% 0.4W 11 100Ω 2% 0.25W 13 68k 2% 0.25W 14 470Ω 1% 0.6W 14 100k 2% 0.25W 12 220Ω 30% 12 2k 1% 0.4W	-
3145 3146 3147 3149 3151 3152 3153 3154 3155 3156	4822 116 8296 4822 050 2680 4822 116 8296 4822 116 5223 4822 050 2330 4822 050 2330 4822 050 11010 4822 050 1100 4822 050 2820	67 68k 0,125 68k 0,125 68k 0,125 4 100k 5% 0,5W 13 3302 1% 0,6W 10k 1% 0,6W 12 1k 2% 0,25W 12 1k 1% 0,4W 12 1k 1% 0,4W 12 8k2 1% 0,6W	
3157 3158 3159 3161 3165 3168 3171 3172 3173 3174	4822 051 5120 4822 050 2100 4822 116 5223 4822 116 8300 4822 050 2180 4822 051 2022 4822 052 1047 4822 052 1047 4822 052 1047	1 120Ω 1% 0.125W 10 10k 1% 0.6W 100k 5% 0.5W 13Ω 10% 0.5W 13Ω 10% 0.5W 13Ω 10% 0.5W 14 Ω7 5% 0.33W 16 4Ω7 5% 0.33W 17 10 10 10 10 10 10 10 10 10 10 10 10 10	
3181 3183 3185 3200 3201 3202 3203 3204 3205 3206	4822 050 2470 4822 050 2330 4822 116 5223 4822 100 9008 4822 051 1022 4822 051 1027 4822 051 1027 4822 050 2100	01 470Ω 1% 0,6W 11 330Ω 1% 0,6W 34 100k 5% 0,5W 32 20k 20% 33 22k 2% 0,25W 33 22k 2% 0,25W 34 27k 2% 0,25W 37 27k 2% 0,25W 37 27k 2% 0,05W 39 10Ω 1% 0,6W 30 1% 0,6W	
3207 3208 3210 3211 3401 3402 3403 3404 3405 3406	4822 050 2750 4822 050 2750 4822 050 2220 4822 050 2220 4822 051 16 8184 4822 051 1010 4822 051 1022 4822 050 2220 4822 051 1091 4822 051 2021	75Ω 1% 0.6W 75Ω 1% 0.6W 8 2Ω2 1% 0.6W 82 2Ω2 1% 0.6W 92 220k 5% 100 25W 100 25W	
3407 3408 3409 3410 3411 3412 3413 3414 3415 3416	4822 051 1010 4822 051 1010 4822 051 1010 4822 051 1010 4822 051 1010 4822 051 1010 4822 051 1060 4822 051 1060 4822 051 1050 4822 051 1050	22 1k 2% 0.25W 24 100k 2% 0.25W 25 100k 2% 0.25W 26 0.25W 27 10k 2% 0.25W 28 10k 2% 0.25W 29 10k 1% 0.6W 20 6k8 2% 0.25W 20 6k8 2% 0.25W 21 26 2% 0.25W 22 26 2% 0.25W 23 26 2% 0.25W	
3417 3418 3419 3420	4822 050 2100 4822 051 1010 4822 051 1022 4822 051 2022 4822 050 2100	10k 1% 0.6W 10k 2% 0.25W 22 22Ω 2% 0.25W 22 2k2 5% 0.1W 10k 1% 0.6W 100k 2% 0.25W 4 100k 5% 0.5W 32 3k3 2% 0.25W 72 2k7 2% 0.25W	
3428 3429 3431 3432 3433 3434 3436 3437 3438 3443	4822 051 1047 4822 050 1220 4822 050 2390 4822 051 1022 4822 050 2177 4822 050 1680 4822 116 824 4822 051 1010 4822 116 8067 4822 051 1050	22k 1% 0,4W 39k 1% 0,6W 23 22k 2% 0,25W 42 1k 74 1% 0,6W 02 6k8 1% 0,4W 7k5 0,25W 03 10k 2% 0,25W 78 10k 1%	٠,
3444 3445 3446 3447 3448 3449 3451 3452 3453 3454	4822 051 1056 4822 100 1139 4822 050 2100	12 1k 2% 0.25W 22 2k2 1% 0.6W 22 2k2 5% 0.1W 26 22Ω 5% 0.5W 26 22Ω 5% 0.5W 27 26 26 26 26 26 26 26 26 26 26 26 26 26	- nue

1W

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820k 1% 0,5W 1M 2 1% 0,6W 3582 4822 117 11336 3583 4822 050 21205 3584 ▲ 4822 052 10158 1Ω5 5% 0,33W 2M 2 1% 0.6W 3585 4822 050 22205 4822 050 25602 4822 051 10103 5k6 1% 0.6W 10k 2% 0,25W 4822 051 10473 47k 2% 0 25W 4822 051 10472 4822 051 10102 4k7 2% 0 25W 1k 2% 0,25W 2k2 1% 0,6W 4822 050 22202 7k5 0,25W 4822 116 82455 10k 1% 0.6W 4822 050 21003 4822 051 20222 2k2 5% 0,1W 2k2 5% 0.1W 4822 051 20222 4822 051 10123 4822 051 10103 12k 2% 0.25W 10k 2% 0.25W 4822 051 20222 2k2 5% 0.1W 4822 051 10273 27k 2% 0.25W 4822 051 10333 33k 2% 0,25W 1k2 2% 0,25W 4822 051 10122 4822 051 10151 150Ω 2% 0,25W 1k8 2% 0.25W 4822 051 10182 4822 050 24702 4k7 1% 0,6W 100k 2% 0,25W 4822 051 10104 4822 050 16802 4822 051 10472 6k8 1% 0,4W 4k7 2% 0,25W 4822 051 10113 11k 2% 0.25W 2k7 2% 0.25W 4822 051 10272 22k 2% 0,25W 1k 2% 0,25W 4822 051 10223 4822 051 10102 4822 116 52271 4822 116 80394 33k 5% 0,5W 4822 051 10102 1k 2% 0.25W 4822 051 10102 1k2 2% 0.25W 4822 051 10122 4822 051 10151 150Ω 2% 0,25W 4822 050 11002 1k 1% 0.4W 10k 2% 0,25W 4822 051 10103 4822 050 21502 1k5 1% 0,6W 470Ω 1% 0,25W 4822 116 82376 4822 050 25103 51k 1% 0.6W 4822 116 30437 12.7k 1% 4822 116 80556 120k 4822 100 20166 4822 116 52211 10k 30%LIN 0.1W 150Ω 5% 0.5W 4822 050 15601 4822 051 10561 560Ω 1% 0.4W 560Ω 2% 0.25W 4822 116 80394 4822 050 22402 2k4 1% 0.6W 4822 050 26809 68Ω 1% 0,6W 4822 050 26809 68Q 1% 0.6W 68Ω 1% 0,6W 2k4 1% 0,6W 4822 050 26809 4822 050 22402 2Ω7 10% 4,7W 68Ω 1% 0,6W 4822 053 32278 4822 050 26809 4822 050 21542 4822 117 10032 1k 54 1% 0 6W 33Ω 5% 2W 4822 050 21202 1k 54 1% 0,6W 1k 1% 0,4W 4822 050 21542 4822 050 11002 120Ω 1% 0,6W 4822 050 21201 4822 051 10103 4822 051 10472 10k 2% 0,25W 4k7 2% 0,25W 4822 051 10103 4822 051 10392 10k 2% 0,25W 3k9 2% 0,25W 47k 2% 0,25W 4822 051 10473 4822 100 11141 10k 30%lin 0,1W 4822 051 10273 27k 2% 0.25W 12k 2% 0,25W 4822 051 10123 4822 051 10103 10k 2% 0.25W 4822 051 10154 4822 051 10123 12k 2% 0.25W 4822 050 21802 4822 050 21003 1k8 1% 0,6W 10k 1% 0,6W 4822 050 21803 18k 1% 0,6W 4822 051 10223 22k 2% 0,25W 4822 051 10103 10k 2% 0.25W 4822 051 10123 12k 2% 0.25W 4822 051 10103 4822 051 10472 4k7 2% 0,25W 4822 050 21003 4822 051 10472 10k 1% 0,6W 4k7 2% 0,25W 4822 116 80176 1Ω 5% 0.5W 270Ω 5% 0,5W 4822 116 52217 4822 105 11023 4822 116 52217 1k 30%lin 0.1W 270Ω 5% 0,5W 4822 116 80394 4822 116 52234 100k 5% 0.5W 1k 1% 0,4W 10k 2% 0,25W 4822 050 11002 4822 051 10103 100k 2% 0,25W 47k 2% 0,25W

4822 050 11002 1k 1% 0.4W 4822 050 11002 4822 050 11002 10k 2% 0.25W 1k 1% 0,4W 3678 3680 4822 051 10473 47k 2% 0.25W 100k 5% 0.5W 4822 116 52234 3683 4822 050 11002 4822 051 10103 1k 1% 0.4W 10k 2% 0,25W 3685 4822 116 52234 4822 051 10473 3686 100k 5% 0.5W 47k 2% 0,25W 3687 4822 050 25102 5k1 1% 0.6W 3688 18Ω 1% 0,4W 18Ω 1% 0.4W 4822 050 11809 3689 3690 4822 050 11809 4822 116 52234 3691 100k 5% 0,5W 47Ω 1W 4822 051 10103 10k 2% 0.25W 3694 4822 116 83915 4822 117 11012 47Ω 5% 3W 270Ω 5% 1W 3696 ▲ 4822 052 10158 4822 051 10103 1Ω5 5% 0.33W 10k 2% 0.25W 3697 3698 3800 4822 050 21006 10M 1% 0.6W 4822 050 21006 3801 3802 4822 051 10153 15k 2% 0,25W 22k 2% 0,25W 4822 051 10223 4822 051 10223 4822 051 10101 22k 2% 0.25W 100Ω 2% 0.25W 3805 4822 051 10101 4822 051 10101 3806 1000 2% 0 25W 100Ω 2% 0.25W 3807 3808 4822 051 10101 1000 2% 0 25W 10k 1% 0.6W 100Ω 2% 0,25W 4822 050 21003 3811 3812 4822 051 10101 4822 051 10101 4822 051 10103 100Ω 2% 0.25W 10k 2% 0,25W 3814 3815 4822 051 10103 10k 2% 0.25W 4822 051 10103 10k 2% 0.25W 3816 4822 050 21003 3817 3818 4822 051 10102 1k 2% 0.25W 4822 051 10102 1k 2% 0,25W 10k 1% 0,6W 3819 3823 4822 050 21003 4822 051 10103 4822 051 10473 10k 2% 0,25W 47k 2% 0,25W 3825 4822 050 11002 4822 051 10102 1k 1% 0,4W 1k 2% 0,25W 3826 3827 4822 051 10102 1k 2% 0.25W 3829 4822 051 10102 1k 2% 0.25W 4822 051 10102 4822 051 10008 1k 2% 0,25W 0Ω 5% 0,25W 3830 3833 4822 051 10008 4822 051 10102 0Ω 5% 0,25W 1k 2% 0,25W 3841 3842 4822 050 11002 1k 1% 0 4W 4822 050 11002 1k 1% 0,4W 3843 10k 1% 0,6W 150k 1% 0,4W 3853 4822 050 21003 4822 050 11504 3854 3855 4822 051 10432 4k3 2% 0.25W 3856 4822 050 13902 3k9 1% 0,4W 4822 051 10823 4822 116 52215 82k 2% 0,25W 220Ω 5% 0,5W 3858 3859 4822 051 10562 5k6 2% 0.25W 4822 051 10123 3860 3861 4822 051 10393 39k 2% 0.25W 98 2% 0,25W 0Ω 5% 0,25W 8k2 2% 0,25W 10k 2% 0,25W 4k7 2% 0,25W 4822 051 10008 3862 3863 4822 051 10822 4822 051 10103 4822 051 10472 3865 4822 050 23903 3866 4822 051 10153 4822 051 10182 3867 15k 2% 0.25W 3868 22k 2% 0,25W 3871 4822 051 10223 82k 2% 0,25W 10k 2% 0,25W 3872 4822 051 10823 3874 4822 051 10103 4822 051 10103 4822 050 15601 4822 051 10102 5600 1% 0 4W 1k 2% 0,25W 68Ω 2% 0,25W 10k 2% 0,25W 3877 3878 4822 051 10689 3879 4822 051 10103 4822 051 10103 10k 30%lin 0,1W 3882 4822 100 11141 4822 051 20222 4822 051 10103 2k2 5% 0,1W 10k 2% 0,25W 3885 4822 051 10103 10k 2% 0.25W 10k 30%lin 0,1W 3887 4822 100 11141 4822 051 20222 4822 050 11204 2k2 5% 0,1W 120k 1% 0,4W 2886 3891 4822 051 20222 2k2 5% 0,1W 2k7 2% 0,25W 3892 4822 051 10272 3895 4822 051 10103 \*10k 2% 0.25W 5102 4822 157 70705 Bead coil

4822 157 70705

100k 5% 0.5W

4822 116 52234

5104 ▲ 4822 146 31382 Power transformer

Bead coil

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