April 1984 Subject to modification

Up to date: April 198



Electronic Equipment Manufacturer

HANTAREX U.S.A. LTD.

127 Prospect Avenue - **DOUGLASTON - New York 11363** tel. (212) 423-2672/423-2915 - telex 7105822453



color monitor 19"

///// 900/EUSA,
horizontal and vertical

LINE UNIT HEAT SINK ASSEMBLY CODE 62000613

CODE	DESCRIPTION	REF NO.	QTY
0040000		mn 1 7	
20430200	TRANS. BU208A	TR17	Ţ
22621000	.WIRE WOUND RES.15W 10% 15	R98	. 1
34020211	SOCKET TO3 HANT.		1
40029010	SELF TAPPING SCREW 2,9X10TCC	;	1
40029014	SELF TAPPING SCREW 2,9X14TCC		1
42000070	WASHER 3,2X6		2
43000040	SPRING FOR RES.		2
50110550	HEAT SINK VTH16		1
50420180	#INSULATOR 2000V		1
50420231	TO3 COVER		1

THIS MANUAL IS VALID FOR BOTH 13" AND 19" MONITORS WITH THE EXCEPTION OF PICTURE TUBES.

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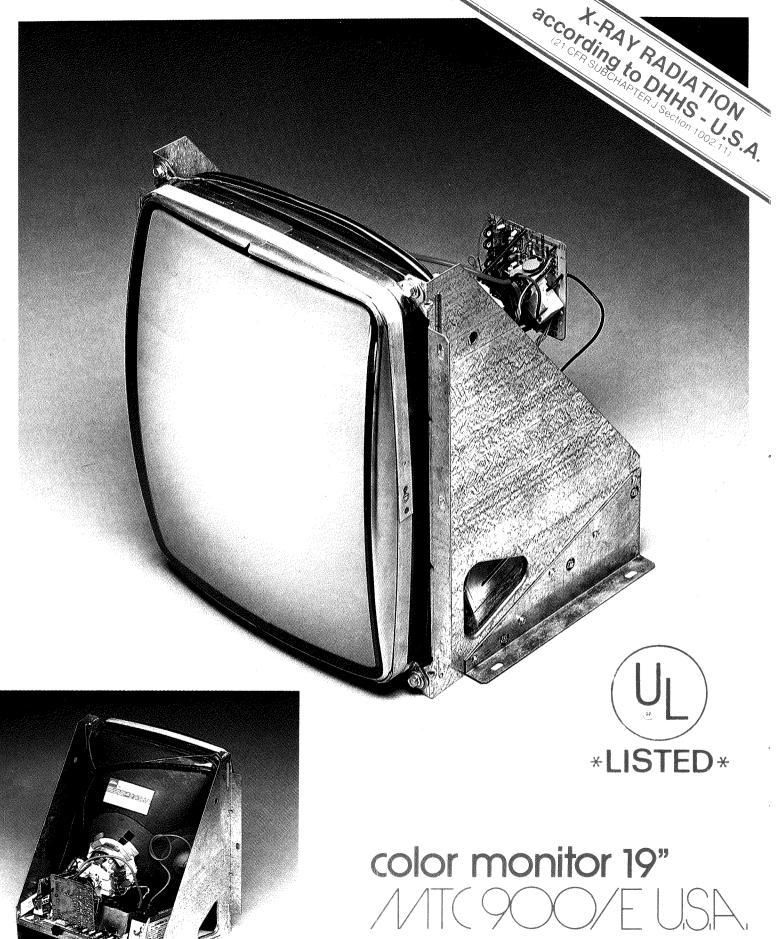
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color monitor 19"
//T(900/E USA)
horizontal



vertical

The chassis and the heat sinks are connected to ground. Hence, for the measurement of voltages, connect the negative terminal of the measuring instrument to the chassis.

X-RAYS

the chassis has been designed to give the minimum of x-ray radiation and a special safety circuit guarantees that even in the event of failure radiation will never exceed 0.5 mR/h. For this reason it is essential not to alter the C.R.T. circuit in any way.

● E.H.T.

The monitor embodies sources of high voltage capable of delivering **LETHAL** amounts of energy. Hence to avoid harm to the operator, follow precautions set down for the servicing of E.H.T. equipment.

C.R.T.

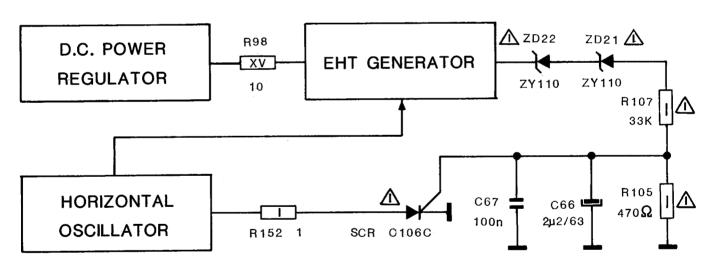
The cathode-ray tube is a high vacuum component and its surfaces are subjected to strong exterior pressure. One therefore must take care not to knock or scratch the tube as this could cause implosion. If follows that the personnel responsable for its installation must use glasses and proctective clothing against flying splinsters.

SHOCK

To prevent the possibility of electrical discharges do not expose the monitor to rain or humidity.

PROTECTION AGAINST X-RAY RADIATION

(patent n° 91830158.4)



PROTECTION CIRCUIT

MTC 900/E includes an "X ray radiation" protection circuit. A reference voltage taken from the secondary of the E.H.T. transformer is fed via a resistive voltage divider to the gate of an S.C.R.

When the EHT voltage becomes more than 28,5 Kv, the reference voltage at the S.C.R. gate will increase sufficiently to fire the SCR which stops the Horizontal oscillator and therefore the generation of EHT.

The circuit continues blocking the oscillation until the break down has been repaired and the supply reset.

OPERATING INSTRUCTIONS

- Apply a suitable power source to the monitor through an isolation transformer by means of J1
- 2) Apply a suitable signal source to the monitor by mean of connector CA

3) SET UP CONTROLS

All controls are preset at the factory, but may be adjusted to suit program material, please refer to page 8 (SETTING UP PROCEDURE)

4) For negative input SYNC. Pulses use connector CC

pin n° 2 for VERT.

pin n° 3 for \overline{HOR} .

PERFORMANCE AND OPERATING DATA

1) SUPPLY	min	max
1) SUPPLY VOLTAGE	98 Vac	130 Vac
FREQUENCY		
NOTE the settle		

NOTE: apply supply voltage through an isolation transformer with 1.5A capability

2) HIGH VOLTAGE

NOTE: conditions for above:

I (beam) = O mA DC supply voltage = 1.15 VDC

3) INPUT SIGNAL AND PIN ASSIGNEMENTS FOR CONNECTOR CA

PIN N	DESCRIPTION	IMPEDANCE	SIGNAL
1	red input	1k nom.	0 to 4V
2	green input	1k nom.	0 to 4V
3	blue input	1k nom.	0 to 4V
4	ground		
5	vertical sync. pulse	10k nom.	1,5V to 4V
6	horizontal sync. pulse	10k nom.	1,5V to 4V

4) SERVICE SET-UP CONTROLS

ON THE INTERFACE BOARD

RV 12 supply voltage adjustment - set to 115Vdc

RV 10 brightness control

RV 1,2,3 contrast

ON THE DEFLECTION BOARD

RV 13 horizontal frequency

RV 14 horizontal phase

RV 23 vertical shift

RV 17 vertical linearity

RV 15 vertical hold control

RV 16 vertical amplitude

B 4 linearity coil

B 5 width coil

ON THE EHT TRANSFORMER

— G2 – brightness preset control

— focus control

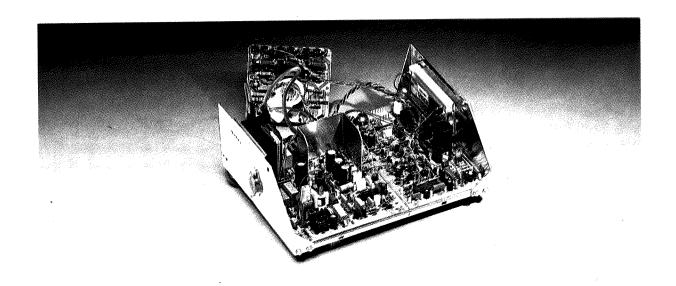
ON THE SOCKET BOARD

video drive controls - "gain"

RV4; RV6; RV8

CRT cut-off controls - "black level"

RV5; RV7; RV9



DESCI	RIPTION	MIT	14R	MAT	JNITE
Supply					
INPUT ac	monitor input-with isolation transformer	98	117	130	Vac W
POWER DEGAUSSING	automatic		117		Vac
Interfa	c e RGB Analog Signal TTL compatible				
VID. SIGN. INPUT	RGBsignal:	1	4	5,5	Vpp
SYNC. INPUT	ITL compatible separate horizontal and vertical or composite				
	(H+V) positive or negative Input	1,5	4	5,5	Vpp
BLANKING	Horizontal retrace/blanking time		11		ßبر
VIDEO	Frequency response (-3 db)		8		MHz
	Rise time	į	50		nS
	Over shoot		0,5	3	%
BEAM-LIMITER	Beam current		1		mA
CONTROLS	Brightness and contrast		100		%
Deflec	tion				
GEOMETRY	Horizontal linearity		±14		%
	Vertical linearity		±10		%
	Pincushion		± 3		%
	Horizontal scan size		-4+10		%
	Vertical scan size		± 15		%
EHT					
EUT	(117 Vdc O-beam current)	23	24	25	κv
EHT X-RAY SAFETY	EHT voltage which shut-off the Emission monitor		28,5		κv
X-RAY	Ellission monitor		20,0	≪ 0,25	mR/t
CRT					
90°			19		MCHES

SETTING-UP PROCEDURE

INSTRUMENTATION REQUIRED

Digital multi-meter with input impedance of $10M\Omega$. An oscilloscope with a bandwidth of 10MHz and a 10/1 probe attenuator. An RGB color bar generator type HANTAREX K190E.

After the monitor has been turned on for about 5 minutes, adjust the controls until an acceptable image has been obtained and than proceed to the alignment of the chassis according to the following instructions.

1) POWER SUPPLY WITHOUT SIGNAL

Variable resistor RV 12 adjusts the supply voltage and requires adjustment only following repair, in which case proceed as follows:

- a) turn the G2 control counterclockwise to the minimum.
- b) connect digital voltmeter to SP20 and adjust RV12 to obtain a voltage of 115 Vdc

WARNING

Voltages greater than or less than nominal impair the functioning of the monitor.

2) RGB INPUT LEVELS. (signal: color bars)

Turn RV10, brightness control, to the maximum; checking on R27, R28, R31 adjust input control RV 1, 2, 3 (contrast) to obtain a 0,6 Vpp.

3) RGB VIDEO OUTPUT (signal: color bars)

- Adjust RV5; RV7; RV9 on the socket-board to obtain at KG; KR; KB, a "black level" at 140 Vdc.
- Adjust RV4; RV6; RV8 to have, at the same points, a "gain" of 50 Vpp.
- Adjust RV10 (brightness) to have, at the same points, a "black level" at 160 Vdc.
- Adjust G2 to obtain cut-off on the CRT.

4) WHITE BALANCE (signal: no signal)

With RV10 turned to make a white background visible correct the grey by means of RV5; RV7; RV9.

5) HORIZONTAL OSCILLATOR (signal: crosshatch)

Short circuit TP7 and TP8 then adjust RV13 to obtain the most stable image in the horizontal sense and then remove the short circuit.

6) VERTICAL OSCILLATOR (signal: crosshatch)

Regulate RV 15 so as to obtain a slight roll-over of the image in a downward direction. Than turn back slowly to stop this roll-over.

7) HORIZONTAL GEOMETRY (signal: crosshatch)

Set the horizontal linearity coil B4 for maximum amplitude and then adjust for the best horizontal linearity. Adjust RV14 for correct horizontal centering. Finally re-adjust horizontal amplitude by means of B5 width coil.

8) VERTICAL GEOMETRY (signal: crosshatch)

Adjust RV16 so as to reduce the image by 3 cm with respect to the height of the CRT. By means of RV23 centre the graticule vertically, and adjust RV16 again for the correct vertical amplitude and RV17 for the best linearity.

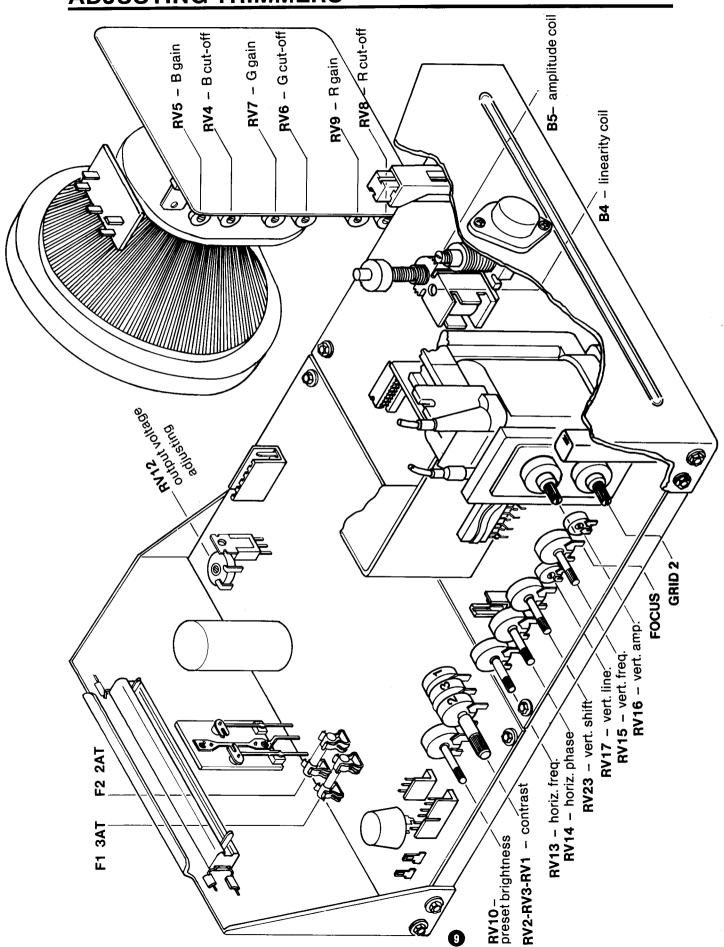
9) FOCUS (signal: crosshatch)

Adjust focus control to obtain the best visual result.

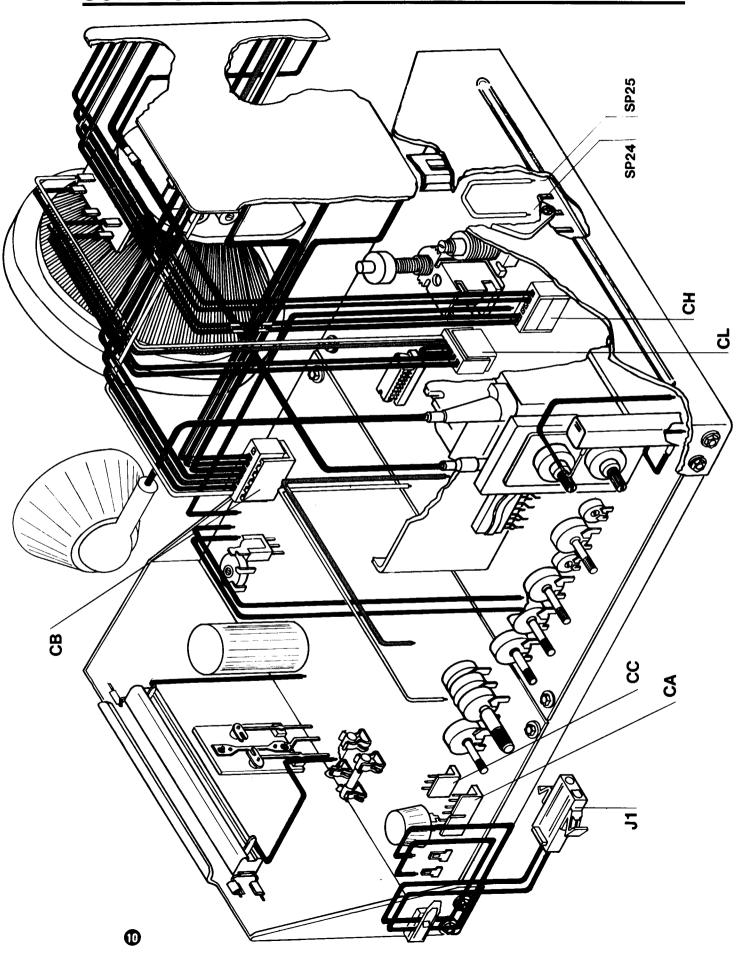
WARNING

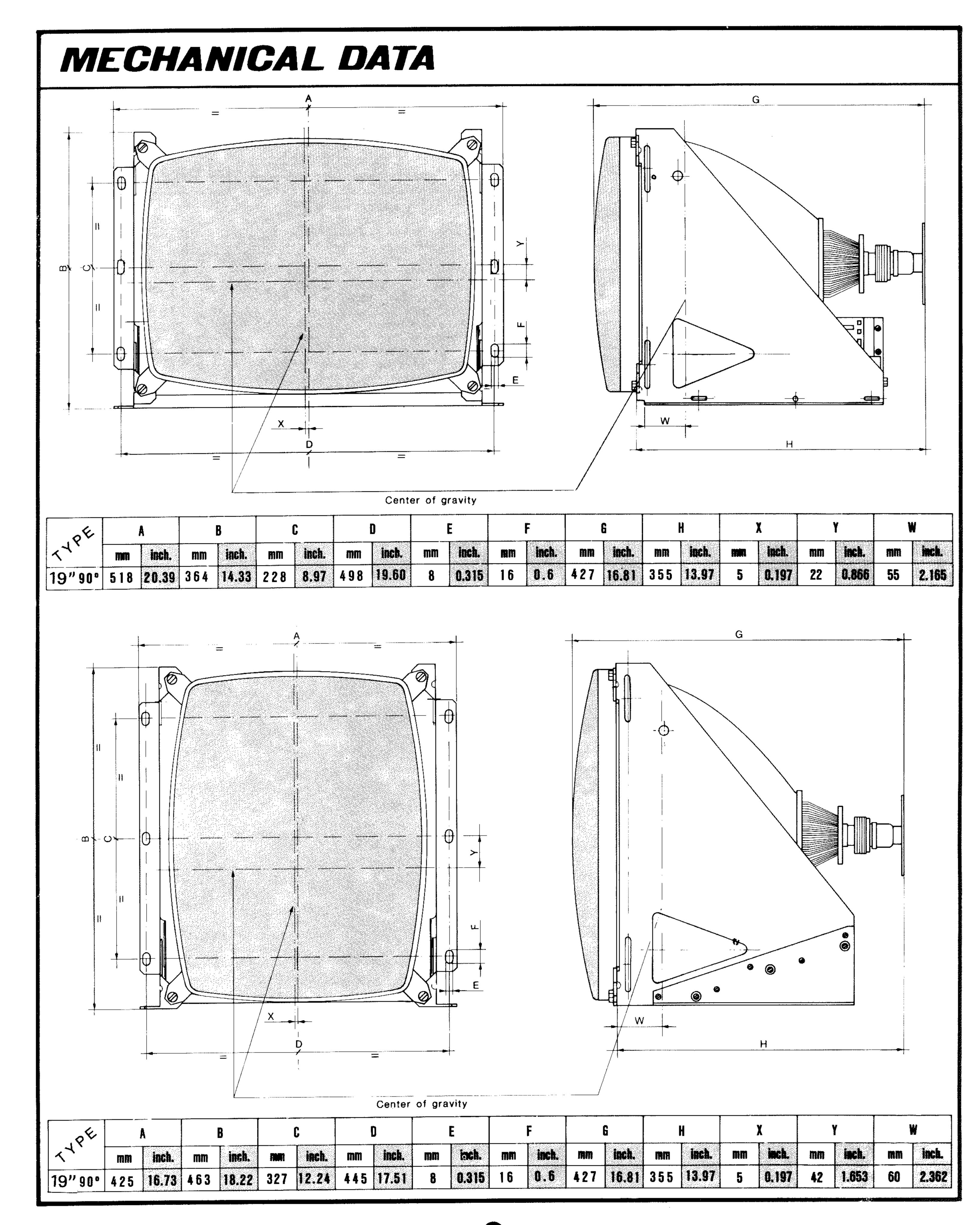
The monitor is pre-set to work with a video active time of about 40µs. However, to change the video active time to 50µs cut the yellow jumper between points SP24; SP25 (see Diagram on page 10).

ADJUSTING TRIMMERS

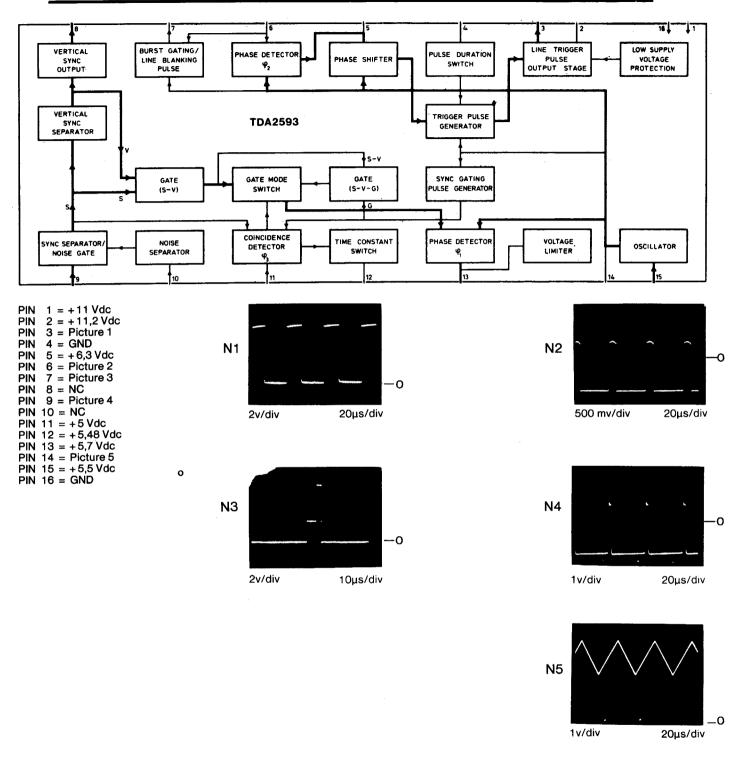


CONNECTION DIAGRAM

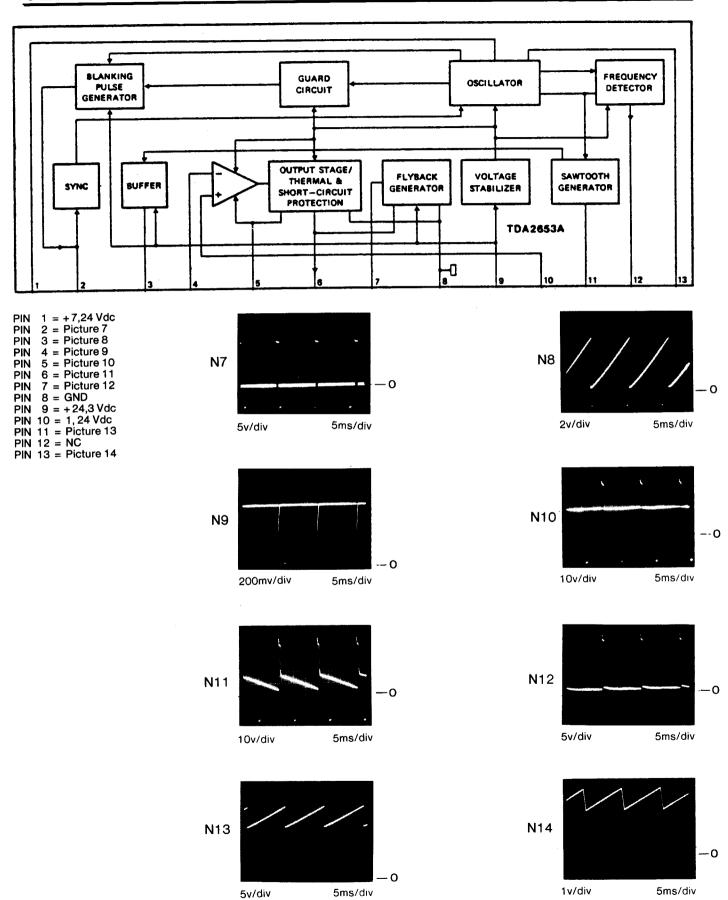




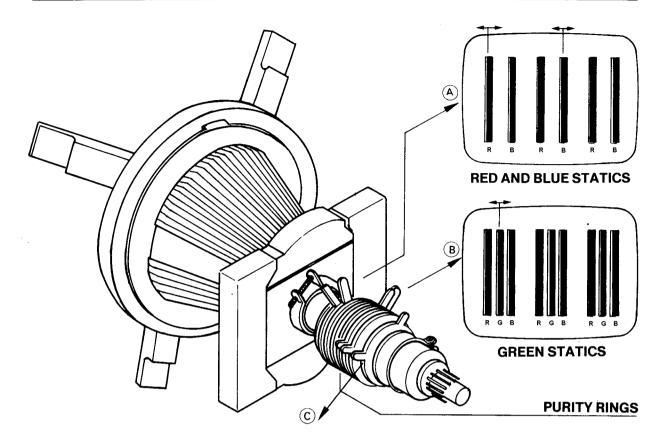
HORIZONTAL COMBINATION I.C. PHILIPS TDA 2593



VERTICAL DEFLECTION CIRCUIT I.C. PHILIPS TDA 2653 A



STATIC CONVERGENCE RINGS



The kind of picture tube used, is the toshiba 510 510 UEB 22 (TC02) selfconvergence type. All Adjustments (purity and convergency) are directly made by the tube manufacturer.

In case convergence or purity readjustments are required, you can operate as follows using a crosshatch pattern generator:

Release the rings from the fixing resin taking care not to turn them. The rings operate with the following sequency: (see the above picture)

- A These rings adjust convergency between red and blue.
- B These rings adjust convergency of green respect to red/blue
- C These rings adjust points out of purity using a generator with a red field.

Before operating, please take care that the monitor is free from residual magnetic fields. Should any part of the chassis or cabinet become magnetized, it will be necessary to degauss the affected area by means of a manual degaussing coil.



Test Signals and Controls:

- 7-step grey bars from white to black: video ampl. linearity
- 2) dot: convergence
- 3) cross hatch: linearity and geometry
- 4) white field: picture tube chromatic temperature
- 5) blue/green/red/field: purity
- 6) white/yellow/orange/green purple/red/blue/black bars: RGB amplifiers video input levels.

Video Output Levels for all Signals

positive to IV pp, 2Vpp, 4Vpp, 7Vpp (push button selection)

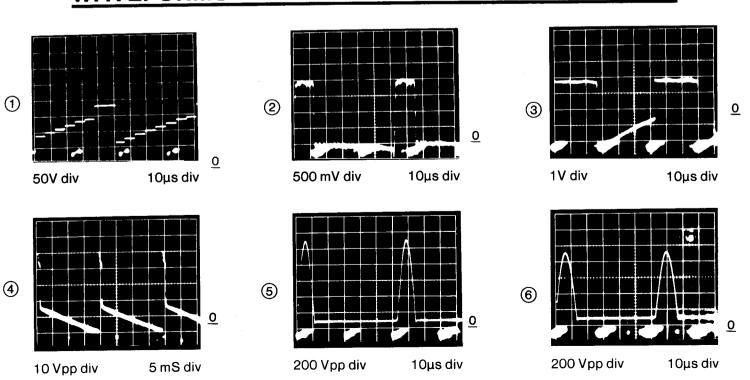
Synchronisms

horizontal and vertical, positive or negative: 5µs 4Vpp horizontal; 200µs 4Vpp vertical.

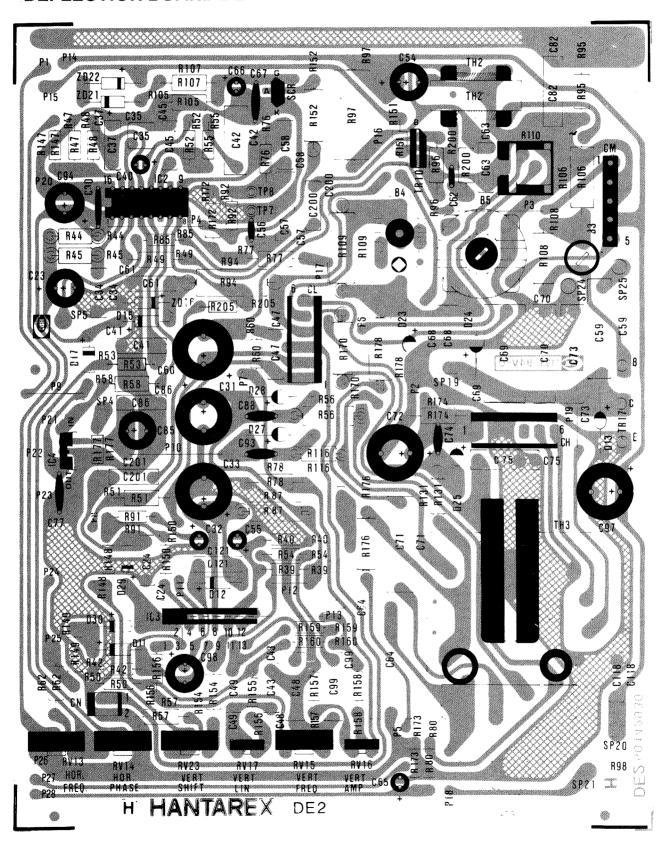
Mains Supply

120Vac - 15 + 10% 50/60 Hz

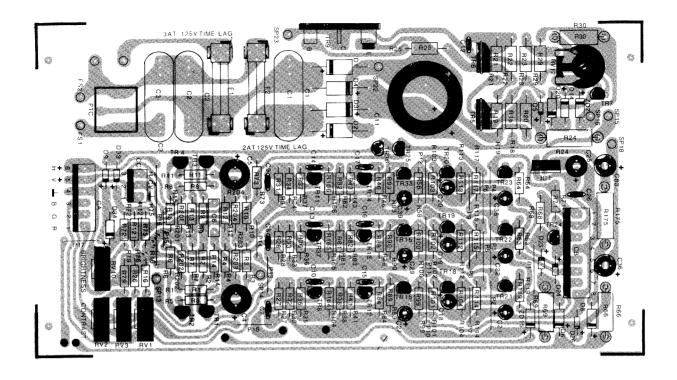
WAVEFORMS



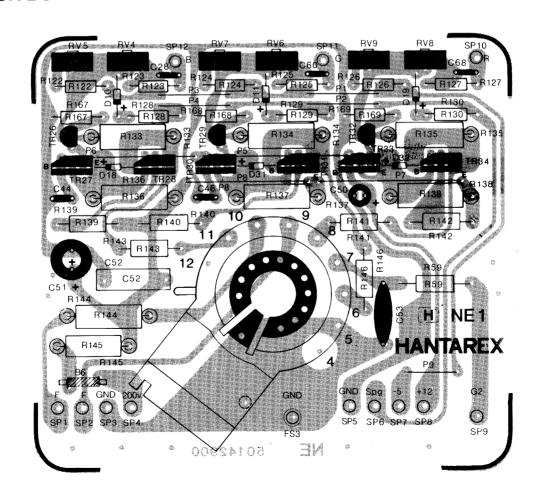
DEFLECTION BOARD DE



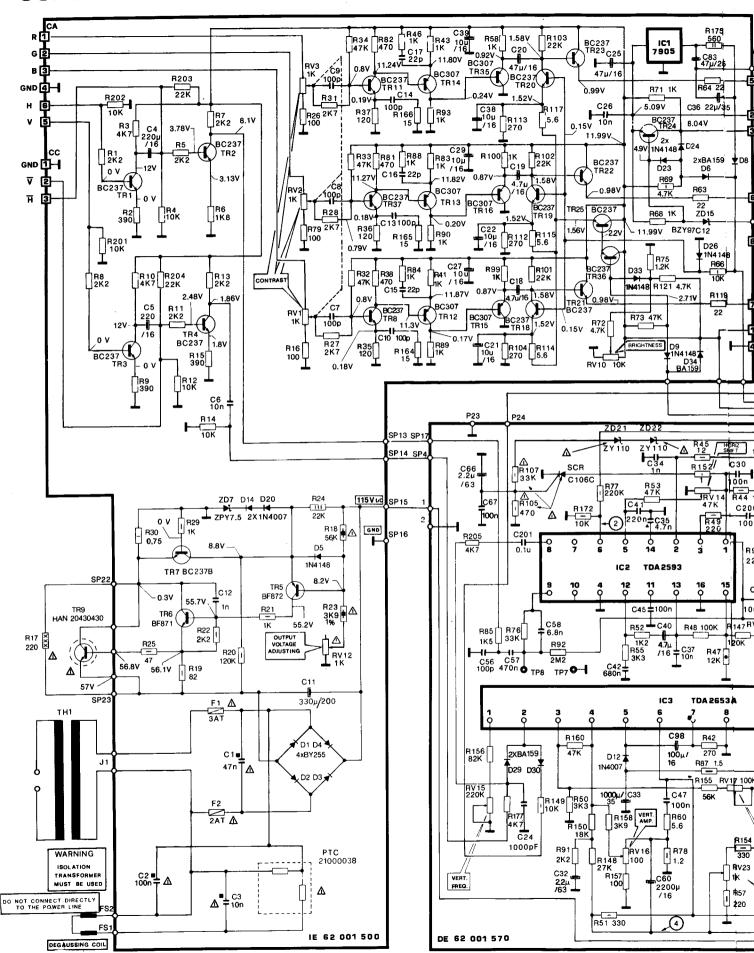
INTERFACE BOARD IE

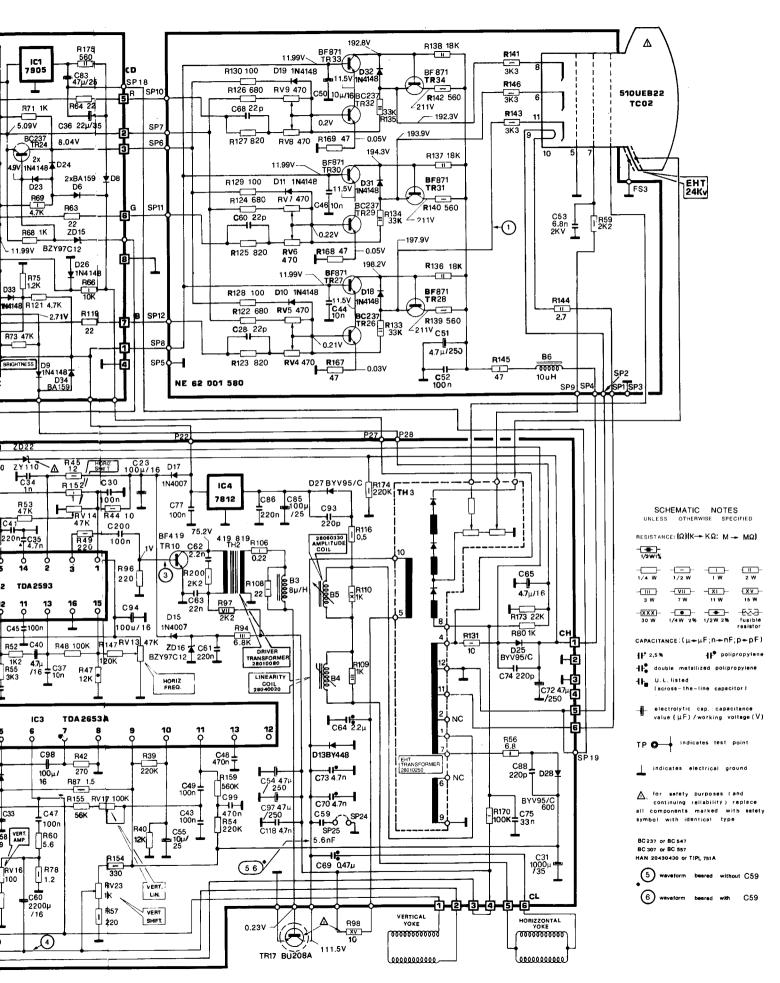


NECK BOARD NE



SCHEMATIC DIAGRAM





PARTS LIST

				1
	28040020	linearity coil	B 4	1
	28060331	amp. coil	B 5	1 [
i	29300010	Ferric beads 8 mm		24
	34020000	terminal PE 1120/D	TP 7-TP 8	2
i	34020090	socket for integrated circuit 16 pin		1
	34023356	A.M.P. connector mod. 1-6D 28 0611/1		2
	50142930	printed circuit deflection	DE	1 1
		•		:

NE C.R.T. BASE code 62001580

CODE	DESCRIPTION	REF. NO.	QTY.
20100000	diode 1N4148	D 10-D 11-D 18-D 19-D	
20400420	trans. BC 237 B	31-D 32 TR 26-TR 29-TR 32	6 3
20420500	trans. BF 871	TR 27-TR 28-TR 30-TR 31-TR 33-TR 34	6
21231000 21236800	res. 1/4 W 5% 100 Ω res. 1/4 W 5% 680 Ω	R 128-R 129-R 130 R 122-R 124-R 126	3 3
21238200	res. 1/4 W 5% 820 Ω	R 123-R 125-R 127	3
21224700 21335600	res. 1/4 W 5% 47 Ω res. 1/2 W 5% 560 Ω	R 167-R 168-R 169 R 139-R 140-R 142	3 3
21342200 21343300	res. 1/2 W 5% 2.2 K res. 1/2 W 5% 3.3 K	R 59 R 141-R 143-R 146	1
21424700 21512700	res. 1 W 5% 47 Ω res. 2 W 5% 2,7 Ω Resista WK 5	R 145 R 144	1
21551800	res. 2 W 5% 18 K	R 136-R 137-R 138 R 133-R 134-R 135	3
21553300 23034703	metal ossid res. 2 W 5% 33 K vertical trimmer PT 10 H 470 Ω	RV 4-RV 5-RV 6-RV	- 1
24321000	electrolytic capacitor EN 12.35 10 μF 16 V	7-RV 8-RV 9 C 50	6
24914700 25461000	electrolytic capacitor EN 12.35 4,7 µF 250 V polyester capacitor 100 nF 10% 250 V 1.60	C 51 C 52	1
26222100 26468720	ceramic capacitor 22 pF 5% 50 V NPO ceramic capacitor 6800 pF 20% 2000 V 507.6	C 28-C 60-C 68 C 53	3
26510601	ceramic capacitor 10000 pF -20+80 50 V	C 44-C 46	2
28020130 29300010	choke 10 µH with ferrite core Ferric beads 8 mm	B6	1 16
34020004 54142900	terminal AMP Faston M. 735084/2 socket printed circuit	FS3 NE	1

VERTICAL ALLUMINIUM HEAT SINK ASSEMBLY code 62001390

CODE	DESCRIPTION	REF. NO.	QTY
20620080	int, cct, MA 7812	IC 4	1
20620270	int, cct, TDA 2653 A	IC 3	1
40029065	self tapping screw 2,9x6,5 TCC		1
50111530	aluminium heat sink		1

POWER UNIT HEAT SINK ASSEMBLY code 62001510

CODE	DESCRIPTION	REF. NO	QTY.
18021500 20430430 34020210 40029010 40029014 22932200 50111040	wire U.L. 1007 AWG 22 brown trans. HAN 20430430 socket for TO 3 HAN self tapping screw 2,9x10 TCC self tapping screw 2.9x14 TCC wire wound resistor 30 W 10% 220 Ω heat sink 205 MO 32	R 17-SP 22-SP 23 TR 9	2 1 1 1 2 1
50420120	mica insulator for TO 3 500 V		1

MONITOR

IE INTERFACE code 62001500

CODE	DESCRIPTION	REF. NO.	QTY.
18021030 18021040	wire U.L. 1007 AWG 22 orange 206 M 039 wire U.L. 1007 AWG 22 Black 206 M 040	- -	1
18022500	wire U.L. 1007 AWG 22 red 206 M 051	-	1
18022510 20100000	wire U.L. 1007 AWG 22 Brown 206 M 050 diode 1N4148	– D 5-9-23	1
20100010	diode BA 159	D 24-26-33 D 6-8-34	6
20110100	zener diode 1,3 W BZY 97 C 12	ZD 15	1
20110200 20150007	zener diode 1,3 W ZY 7,5 diode 1 N 4007	ZD 7 D 14-D20	1 2
20150130	diode BY 255 trans BC 237 B	D 1-D 2-D 3-D 4 TR 1-TR 2-TR 3-TR 4-TF	4
20400420	uans DQ 237 D	7-TR 8-TR11-TR 18-TR	
		19-TR 20-TR 21-TR 36-TR 37-TR 22-TR	
00.400.400	4 BC 207	23-TR 24-TR 25 TR 12-TR 13-TR 14-TR	17
20400402	trans BC 307	15-TR 16-TR 35	6
20420500 20420510	trans BF 871 trans. BF 872	TR 6 TR 5	1
20620071	integrated circuit MA 7905	IC 1 PTC	1
21000038 21215600	dual PTC thermistor 2322.662.98013 110V res. 1/4 W 5% 5,6 Ω	R 114-R 115-R 117	3
21221500 21222200	res. 1/4 W 5% 15 Ω res. 1/4 W 5% 22Ω	R 164-165-166 R 63-R 64-R 119	3
21231000	res. 1/4 W 5% 100 Ω	R 16-R 26-R 79	3
21231200	res. 1/4 W 5% 120 Ω res. 1/4 W 5% 270 Ω	R 35-R 36-R 37 R 104-R 112-R 113	3
21233900	res. 1/4 W 5% 390 Ω res. 1/4 W 5% 470 Ω	R 2-R 9-R 15 R 38-R 81-R 82	3
21234700 21241000	res. 1/4 W 5% 4/0 Ω res. 1/4 W 5% 1 K	R 41-R 43-R 46-R 58-R	٦
		68-R 71-R 83-R 84-R 88-R 89-R 90-R 93-R	
04044000	1/4 M FW 1 2 V	99-R 100 R 75	14 1
21241200 21241800	res. 1/4 W 5% 1,2 K res. 1/4 W 5% 1,8 K	R6	1
21242200	res. 1/4 W 5% 2,2 K	R 1-R 5-R 7-R 8-R 11-R 13	6
21242700	res. 1/4 W 5% 2,7 K	R 27-R 28-R 31	3
21244700 21251000	res. 1/4 W 5% 4,7 K res. 1/4 W 5% 10K	R 3-R 10-R 72-R 121 R 4-R 12-R 14-R 201-R	4
21252200	res. 1/4 W 5% 22 K	202 R 101-R 102-R 103-R	5
		203- R 204	5
21254700 213 24700	res. 1/4 W 5% 47 K res. 1/2 W 5% 47 Ω	R 32-R 33-R 34-R 73 R 25	4
21328200	res. 1/2 W 5% 82 Ω	R 19 R 21-R 29	1 2
21341000 21342200	res. 1/2 W 5% 1 K res. 1/2 W 5% 2,2 K	R 22	1
21343901 21355601	res. 1/2 W 1% 3,9 K res. 1/2 W 1% 56 K	R 23 R 18	1
21361200	res. 1/2 w 5% 120 K	R 20 R 30	1
21407500 21444700	res. 1 W 5% 0,75 Ω res. 1 W 5% 4,7 K	R 69	1
21451000	res, 1 W 5% 10 K metal ossid res, 2 W 5% 560 Ω	R 66 R 175	1
21652200	res. 3 W 5% 22 K RESISTA WK 8	R 24	1
23041000 23041005	vertical trimmer PT 15 NH 1 K horizontal trimmer PT 15 V 1 K	RV 1-RV 2-RV 3 RV 12	3
23051004	vertical trimmer PT 15 NH 10 K electrolytic capacitor EN 12,35 4,7 µF 16 V	RV 10 C 18-C 19-C 20	1
24314700 24321000	electrolytic capacitor EN 12,35 4,7 µF 16 V electrolytic capacitor EN 12,35 10 µF 16 V	C 21-C 22-C 27-C 29-C	
24324700	electrolytic capacitor EN 12,35 47 µF 16 V	38-C 39 C 25	6
24332200	electrolytic capacitor EN 12,35 220 µF 16 V	C 4-C 5	2
24424700 24522200	electrolytic capacitor EN 12,35 47 µF 25 V electrolytic capacitor EN 12,35 22 µF 35 V	C 36	1
24933302 25651000	electrolytic capacitor 330 µF 200 V polyester capacitor 10 nF 10% 630 V 1.60 P 10	C 11 C 6	1
25751003	polyester capacitor 10 nF U.L. listed (across-the-		1
25754703	line capacitor) polyester capacitor 47 nF U.L. listed (across-the-	C3	
25761003	line capacitor) polyester capacitor 100 nF U.L. listed (across-	C 1	1
	the-line capacitor)	C 2	1
26222100 26310100	ceramic capacitor 22 pF 5% 50 V NPO ceramic capacitor 100 pF 5% 50V NPO	C 15-C16-C17 C 7-C 8-C 9-C 10-C	3
	ceramic capacitor 1000 pF 10% 50V	13-C 14 C 12	6
26410803 26510601	ceramic capacitor 10000 pF -20+80 50V	C 26	1
29100080 29100200	fuse holder for printed circuit fuse 2AT 6,3x32	F 2	4
29100210	fuse 3AT 6,3x32	F1	1
29300010 34020004	ferric beads 8 mm. faston terminal	FS 1-FS 2	10 2
34023358 34025103	AMP connector 8 D 280612/1 MOLEX connector 3190-03	CB CC	1
34025106	MOLEX connector 3190-06	CA	1
50142911	Printed circuit interface	IE 2	1
1			

DE DEFLECTION code 62001590

CODE	DESCRIPTION	REF. NO.	QTY
	BESSELLE HOLL		
20100010	diode BA 159 zener diode 1,3 W BZY 97 C 12	D 29-D 30 ZD 16	2
20110100 20110500	zener diode 1,3 WBZ1 97 G 12 zener diode 1,3 WZY 110	ZD 22-ZD 21	2
20150007	diode 1N 4007	D 12-D 15-D 17 D 25-D 27-D 28	3 3
20150170 20150200	diode BYV 95/C-600 diode BY 448	D 13	1
20420140	trans. BF 419	TR 10	11
20440000 20620190	thyristor C 106 C integrated circuit TDA 2593	SCR IC 2	1
21215600	res. 1/4 W 5% 5,6 Ω	R 60	1
21231000	res. 1/4 W 5% 100Ω res. 1/4 W 5% 270 Ω	R 157 R 42	1
21241000	res 1/4 W 5% 1K	R 80	1
21241200	res. 1/4 W 5% 1,2 K res. 1/4 W 5% 1.5 K	R 52 R 85	1
21241500 21242200	res. 1/4 W 5% 2,2 K	R 91	1
21243300	res. 1/4 W 5% 3,3 K	R 50-R 55 R 158	2
21243900 21244700	res. 1/4 W 5% 3,9 K res. 1/4 W 5% 4,7 K	R 205-R 177	2
21351000	res. 1/2 W 5% 10 K	R 172- R 149	2
21251200 21251202	res. 1/4 W 5% 12 K metal film resistor 1/4 W 1% 12 K PH MR 25	R 40 R 47	1
21251800	res. 1/4 W 5% 18 K	R 150	
21252200 21252700	res. 1/4 W 5% 22 K res. 1/4 W 5% 27 K	R 173 R 53-R 148	1 2
21253300	res. 1/4 W 5% 33 K	R 76	1
21254700 21255600	res. 1/4 W 5% 47 K res. 1/4 W 5% 56 K	R 160 R 155	1
21258200	res. 1/4 W 5% 82 K	R 156	1
21261000	res. 1/4 W 5% 100 K res. 1/4 W 5% 120 K	R 48 R 147	1
21261200 21262200	res. 1/4 W 5% 220 K	R 39-R 54	2
21265600	res. 1/4 W 5% 560 K res. 1/4 W 5% 2,2 M	R 159 R 92	11
21272200	res. 1/2 W 5% 0,5 Ω	R 116	1
21311201	metal film resistor 1/2 W 2% 1,2 Ω PHVR 37 res. 1/2 W 5% 1,5 Ω	R 78 R 87	1 1
21311500 21321000	res. 1/2 W 5% 1,5 Ω	R44-R 131	2
21321200	res. 1/2 W 5% 12 Ω	R 45	1
21332200 21333300	res. 1/2 W 5% 220 Ω res. 1/2 W 5% 330 Ω	R 49-R 57-R 96 R 51-R 154	3 2
21334700	res. 1/2 W 5% 470 Ω	R 105	1
21342200 21353300	res 1/2 W 2,2 K 5% res. 1/2 W 5% 33 K	R 200 R 107	11
21362200	res. 1/2 W 5% 220 K	R 77-R 174	2
21402200 21411000	res. 1 W 10% 0,22 Ω VTM 200-0 res. 1 W 5% 1 Ω WK4	R 106 R 152	1
21416800	res. 1 W 5% 6,8 Ω	R 56	1
21422200 21461000	res. 1 W 5% 22 Ω res. 1 W 5% 100 K	R 108 R 170	1 1
21641000	res. 3 W 5% 1 K	R 109	1
21746800 22541000	metal oxide res. 4 W 5% 6,8 K res. 11 W 5% 1 K	R 94 R110	1
22342200	res. 7 W 5% 2,2 K	R97	1
23031000 23041000	trimmer PT 10 H 100 Ω vertical trimmer PT 15 NH 1 K	RV 16 RV 23	1
23054703	vertical trimmer PT 15 NH 47 K	RV 13-RV 14	2
23061002 23062201	vertical trimmer PT 10 NH 100 K vertical trimmer PT 15 NH 220 K	RV 17 RV 15	1
24314700	electrolytic capacitor EN 12.35 4,7 μF 16 V	C 40-C 65	2
24331000 24342200	electrolytic capacitor EN 12.35 100 μF 16 V electrolytic capacitor EN 12.35 2200 μF 16 V	C 23-C 94-C 98 C 60	3
24421000	electrolytic capacitor EN 12.35 10 μF 25 V	C 55	1
24431000 24541000	electrolytic capacitor EN 12.35 100 μF 25 V electrolytic capacitor EN 12.35 1000 μF 35 V	C 85 C 31-C 33	1 2
24612200	electrolytic capacitor EN 12.35 2,2 μF 63 V	C 32-C 66	2
24914700 24924702	electrolytic capacitor EN 12.35 4,7 µF 250 V electrolytic capacitor EN 12.35 47 µF 250 V	C 54 C 72-C 97	1 2
25144701	polyester capacitor 4,7 nF 2,5% 63 V 1.42	C 35	1
25262200 25264700	polyester capacitor 220 nF 10% 100 V 1.60 polyester capacitor 470 nF 10% 100 V 1.60	C 41-C 61-C 86 C 48-C 57-C99	3
25266800	polyester capacitor 680 nF 10% 100 V 1.60	C 42	1
25361001 25441000	polyester capacitor 100 nF 10% 160 V 1.60 polyester capacitor 1 nF 250 V 1.60	C 45-C 200-C 201 C 24	3
25444700	polyester capacitor 4,7 nF 10% 250 V 1.60	C 118	1
25451000 25452200	polyester capacitor 10 nF 10% 250V 1.60 polyester capacitor 22 nF 10% 250 V 1.60	C 37 C 63	1 1
25461010	polyester capacitor 100 nF 250 V 1.60	C 43-C 47- C 49	3
25464710 25472200	polyester capacitor 470 nF 10% 250 V 1.76 polyester capacitor 2,2 µF 10% 250 V 1.60	C 69 C 64	1
25653301	polyester capacitor 33 nF 10% 630 V 1.60	C 75	1
25646800 25741000	polyester capacitor 6,8 nF 10% 630 V 1.60 polyester capacitor 1 nF 10% 1000 V 1.60	C 58 C 34	1
2594560	polyester capacitor 5,6 nF 10% 2000 V 1.73	C 59	1
25944700 26310100	polyester capacitor 4,7 nF 5% 1750 V 1.73 ceramic capacitor 100 pF 5% 50 V NPO	C 70-C 73 C 56	1 1
26322400	ceramic capacitor 220 pF 10% 1000 V	C 74-C 88-C 93	3
26422608 26610601	ceramic capacitor 2200 pF -20+50 .500 V ceramic capacitor 100000 pF -20+80 50 V	C 62 C 30-C 67-C 77	1 3
28010080	driver transformer	TH 2	1
28010250 28020200	transf. diode split HIT. 2433011 choke 8 μH with ferrite core	TH 3 B 3	1
_0020200	555 5 pr. 1 157.110 0070		. [
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