

Service Manual

ViewSonic VX900-2

Model No.VLCDS26105-2W

19" Color TFT LCD Display

(VX900-2_SM_637 - Rev.1a-Feb 2003)

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Revision History

Revision	Date	Description Of Changes	Approval
1a	02/14/03	Initial Reversion DCN-2963	C.Shen

PRECAUTIONS AND NOTICES

Prior to using this manual, please ensure that you have carefully followed all the procedures outlined in the user manual for this product.

- Read all of these instructions.
- Save these instructions for later use.
- Follow all warnings and instructions marked on the product.
- Do not use this product near water.
- This display should be installed on a solid horizontal base.
- When cleaning, use only a neutral detergent cleaner with a soft damp cloth. Do not spray with liquid or aerosol cleaners.
- Do not expose this display to direct sunlight or heat. Hot air may cause damage to the cabinet and other parts.
- Adequate ventilation must be maintained to ensure reliable and continued operation and to protect the display from overheating. Do not block ventilation slots and openings with objects or install the display in a place where ventilation may be hindered.
- Do not install this display near a motor or transformer where strong magnetism is generated. Images on the display will become distorted and the color irregular.
- Do not allow metal pieces or objects of any kind fall into the display from ventilation holes.

Slots and openings in the cabinet and the back or bottom are provided for ventilation, to ensure reliable operation of the product and to protect it from overheating, those openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.

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Appendix

Reader's Response

I. Engineering Specifications.

1. Scope

The following specifications are applicable to model VX900-2 19 inch color LCD monitor.

General Description (VX900-2)

LCD	Fujitsu 19.0" SXGA TFT- MVA (premium)	
	Size	19.0 inches diagonal
	Effective Display Size	376.32 mm X 301.056 mm (typical)
	Pixel Pitch	0.294 mm X 0.294 mm
	Resolution	1280 x 1024 dot (SXGA)
	Brightness	250 cd / m ² (typ.), 200 min.
	Contrast Ratio	600:1(typ.), 400 (min.)
	Color	16,777,216
	Viewing Angle	Up 85° Down 85°(min.) Left 85° Right 85°(min.) CR>10:1
	Surface treatment	Anti-Glare
Input Signals	RGB	Analog 0.7 Vp-p / 75Ω Positive Polarity
		Separate sync. TTL level
		Composite sync
		Sync-On-Green
Input connector	Digital	TMDS.
	Analog	mini D-sub 15 pin x 1
	Digital	DVI-D x 1
	Audio	min-Din 2 channel x 2
Speaker	Micro-phone jack	
	Max 3W x 2	
	GM5120	
	16,777,216	
Preset Timings	SXGA/60Hz, 75Hz,	
	XGA/60Hz, 70Hz, 75Hz, 85Hz	
	SVGA/56Hz, 60Hz, 72Hz, 75Hz, 85Hz	
	VGA/60Hz, 72Hz, 75Hz, 85Hz	
	Dos-text/70Hz	

Synchronization	Horizontal	30 kHz to 83 kHz	(automatically)
	Vertical	50 Hz to 75 Hz	(automatically)
	Non-interlaced		
	Max Pixel Rated 135Mhz		
Resolution	Horizontal	1280 dots	
	Vertical	1024 lines	
Active Display Area	Horizontal	376.32 mm (typical)	
	Vertical	301.056 mm (typical)	
	(Active display area is dependent upon signal timings)		
Power Supply Rating	AC adapter input	AC90V-264V	50 / 60 Hz
AC Power Consumption	60W (Max.)	On mode	
	less than 3W	Off mode(w/o audio cable connected)	
Current Rating	AC input	0.7A	@AC 100-240V
	DC input	4.0A	@DC 12.0V
Dimensions	Net	442.0 (W) x 474.6 (H) x 180.6 (D) mm	
	Gross	565.0 (W) x 525.0 (H) x 260.0 (D) mm	
Weight	Net	7.5Kg	
	Gross	10.2Kg	
Environmental Conditions	Operating Temperature	0 to 50°C (PANEL SURFACE)	
	Operating Humidity	20 to 85% (no condensation, < wetbulb 29 degree C)	
	Storage Temperature	-20 to 60°C	
	Storage Humidity	5 to 85% (no condensation, < wetbulb 29 degree C)	
Accessories	AC power cord-UL	1.8m	
	AC power cord-Schuko	1.8m	
	Analog VGA cable	1.8m	
	DVI-D cable	1.8m	
	Audio cable	1	
	Microphone cable	1	
	ViewSonic CD-Wizard	1	

Regulatory Standards	UL, CSA or cUL, CB Report, CE, FCC-B, DOC-B, <u>TUV/Ergo</u> (which <u>covers ISO13406-2 and MPRIII</u>), TUV/GS, PCT (GOST-R) with 20 Hygienic certificates, PCBC (B Mark), SEMKO, DEMKO, FIMKO, NEMKO, BSMI, VCCI, CCIB/EMC, CCEE, PSB (Singapore Safety), TCO'99, NOM and Argentina IRAM (thru TUV).
OSD Language	English, French, German, Spanish, Finnish, Italian, Japanese, Traditional Chinese, Simplified Chinese
Others	Tilt Angle 20° up / 5° down Power Saving System User Control by tact switch keypad with On Screen Display- VESA DDC1/2B compatible (digital port DDC2B only)

2. Electrical Characteristics

2.1 Power Supply

2.1.1 AC Input

Input Voltage	AC90-264V
Frequency	47 / 63Hz
Power Consumption:	
60 W (max)	on mode
Less than 3W	power save mode (audio cable not connected)
Current Rating	0.7A @ AC100-240V

2.2 LCD

LCD	Fujitsu (TFT-MVA)
Effective display size	376.32 (H) x 301.06 (V) mm (typ.) 19.0" / 48 cm diagonal
Pixel number	1280 x 1024 pixels
Color filter arrangement	R.G.B. vertical stripe
Display method	TFT, normally black
Drive method	Active matrix (TFT) – MVA
Dot pitch	0.098 (H) x 0.294 (V) mm
Pixel pitch	0.294 (H) x 0.294 (V) mm
Dot number	1280 x 1024 x 3 dots
Backlight	Edge-lighting type with 4 CCFLs (Cold Cathode Fluorescent Tube)
Brightness	200 cd / m ² (min: center / all white)
Contrast ratio	400:1 (min)
Display color	16,777,216
Typical viewing angle	Up 85° / down 85° / right 85° / left 85° (min.) (Contrast ratio>10 at Ta=25°C, 77°F)
Response time	25 msec (Typical at 25 degree C)

2.3 Interface Signals

2.3.1 RGB Video Signals

2.3.1.1 Separate Sync . Signals

Analog R,G,B 0 - 0.7 Vp-p	
Signal Level	75Ω± 5%
Sync Level	TTL level
Sync Polarity	independent

2.3.1.2 Sync On green, Composite Sync

2.3.2 TMDS digital Signals

2.3.2.1 Video type

DVI 1.0 compliant

2.3.3 Audio spec.

2.3.3.1 Line input connection

3.5 mm stereo jack x 1

2.3.3.2 Line input signal & impedance

1.0Vrms, 10 kOhm

2.3.3.3 OUTPUT SIGNAL AT SPEAKER TERMINAL

3W @ < 5% DISTORTION

2.3.3.4 Frequency Response

400 Hz – 20 KHz

2.3.3.5 Connector PC99 requirement Audio in

Lime Green pantone # 577C

2.3.3.6 Cable length

1.8 m

2.3.3.7 Audio DPMS

Speakers stay on when the rest of the monitor is in power saving.

2.3.3.8 Speakers

Impedance 4 Ohm

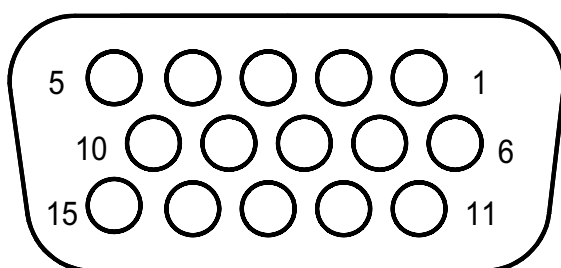
Output Wattage 3.0W (max.) x 2

2.3.4 Input Signal Connectors

2.3.4.1 Analog RGB Video Input : 15 pin mini D-sub

PIN NO.	Separate Sync
1	RED
2	GREEN
3	BLUE
4	GROUND
5	GROUND
6	GROUND
7	GROUND
8	GROUND

9	+5V
10	GROUND
11	N.C
12	SDA
13	H.SYNC
14	V.SYNC
15	SCL



2.3.4.2 Digital TMDS DVI-D Connector

24 pin DVI-D connector pin assignment

Pin No.	Signal Name	Description
1	RX2-	TMDS negative differential input, channel 2
2	RX2+	TMDS positive differential input, channel 2
3	GND	Logic Ground
4	Reserved 4	Reserved. No connection
5	Reserved 5	Reserved. No connection
6	DDC-CLK	DDC2B Clock
7	DDC-DAT	DDC2B Data
8	Reserved 8	Reserved. No connection
9	RX1-	TMDS negative differential input, channel 1
10	RX1+	TMDS positive differential input, channel 1
11	GND	Logic Ground
12	Reserved 12	Reserved. No connection
13	Reserved 13	Reserved. No connection
14	VCCX	Power
15	GND	Logic Ground
16	SENS	SENSE Pin, Pull High
17	RX0-	TMDS negative differential input, channel 0
18	RX0+	TMDS positive differential input, channel 0
19	GND	Logic Ground

20	Reserved 20	Reserved. No connection
21	Reserved 21	Reserved. No connection
22	GND	Logic Ground
23	RXC+	TMDS positive differential input, reference clock
24	RXC-	TMDS negative differential input, reference clock

2.3.4.3 Audio Connector

2.5 mm Stereo jack x 1,
3.5mm Microphone jack x 1

2.3.5 Signal Timing

2.3.5.1 User Timing Mode memory

always do auto image adjust after timing mode change

2.3.5.2 Timing mode Change

maximum time for mode Change with auto image adjust 7 sec.

2.3.5.3 Signal Timing Table

The factory test input video signal is defined as the following table:

Preset No.	H.sync Frequency	V.sync Frequency	SYNC		POL.	Video Mode	Description
			H-	V-			
MOD [1]	31.468 $\pm$ 1.0KHz	70.0 $\pm$ 1.0Hz	+	-	-	640X350(70)	Text mode
MOD [2]	31.468 $\pm$ 1.0KHz	70.0 $\pm$ 1.0Hz	-	+	-	720X400(70)	Dos text
MOD [3]	31.468 $\pm$ 1.0KHz	59.94 $\pm$ 1.0Hz	-	-	-	640X480(60)	VESA STANDARD
MOD [4]	35.01 $\pm$ 1.0KHz	66.67 $\pm$ 1.0Hz	-	-	-	640X480(66)	MAC
MOD [5]	37.86 $\pm$ 1.0KHz	72.81 $\pm$ 1.0Hz	-	-	-	640X480(72)	VESA STANDARD
MOD [6]	37.5 $\pm$ 1.0KHz	75.0 $\pm$ 1.0Hz	-	-	-	640X480(75)	VESA STANDARD
MOD [7]	43.27 $\pm$ 1.0KHz	85.0 $\pm$ 1.0Hz	-	-	-	640X480(85)	VESA STANDARD
MOD [8]	35.16 $\pm$ 1.0KHz	56.25 $\pm$ 1.0Hz	+	+	-	800X600(56)	VESA STANDARD
MOD [9]	37.88 $\pm$ 1.0KHz	60.32 $\pm$ 1.0Hz	+	+	-	800X600(60)	VESA STANDARD
MOD [10]	48.077 $\pm$ 1.0KHz	72.19 $\pm$ 1.0Hz	+	+	-	800X600(72)	VESA STANDARD
MOD [11]	46.875 $\pm$ 1.0KHz	75.0 $\pm$ 1.0Hz	+	+	-	800X600(75)	VESA STANDARD
MOD [12]	53.67 $\pm$ 1.0KHz	85.0 $\pm$ 1.0Hz	+	+	-	800X600(85)	VESA STANDARD
MOD [13]	49.72 $\pm$ 1.0KHz	74.5 $\pm$ 1.0Hz	-	-	-	832X624(75)	MAC
MOD [14]	48.363 $\pm$ 1.0KHz	60.0 $\pm$ 1.0Hz	-	-	-	1024X768(60)	VESA STANDARD
MOD [15]	58.01 $\pm$ 1.0KHz	72.08 $\pm$ 1.0Hz	-	-	-	1024X768(72)	VESA STANDARD
MOD [16]	60.023 $\pm$ 1.0KHz	75.0 $\pm$ 1.0Hz	+	+	-	1024X768(75)	VESA STANDARD
MOD [17]	68.67 $\pm$ 1.0KHz	85.0 $\pm$ 1.0Hz	+	+	-	1024X768(85)	VESA STANDARD

MOD [20]	63.981 ±1.0KHz	60.02 ±1.0Hz	+	+	1280X1024(60)	VESA STANDARD
MOD [21]	79.976 ±1.0KHz	75.0 ±1.0Hz	+	+	1280X1024(75)	VESA STANDARD

2.4 Luminance Control

Analog signal (6500K)

over 200 cd / m² (@ Cont / Bright max)

Digital signal (6500K)

over 200 cd / m² (@ Cont / Bright max)

2.5. Synchronization

Horizontal: 30 to 83 kHz

Vertical: 50 to 75 Hz Non-interlaced

maximum 75Hz @ 1280 x 1024 mode

Recommended 60Hz @ 1280 x 1024 mode

2.6 Display Characteristics

2.6.1 Picture Size

Horizontal Width 376.32 mm (typical)

Vertical Width 301.06 mm (typical)

2.6.2 Optical Characteristics

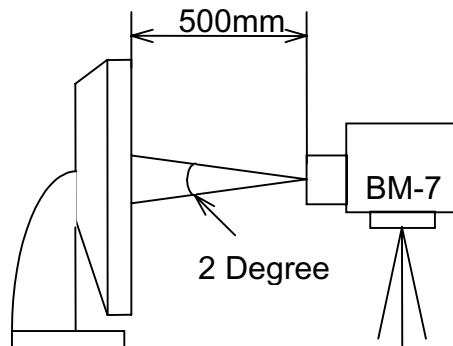
General qualities: The following data was measured by BM7 of TOPCON
data are panel optical data, for analog signal there are +- 5% tolerance.

Item	Code		Conditions	Min.	Typ.	Max.	Unit
Contrast	CR		White/Black at Image Center	400	600	—	—
White Brightness	L	VMAX	FULL White	200	250	—	cd / m ²
Uniformity of Brightness			$\frac{B_{min}}{B_{max}}$	75	—	—	%
Response At 25 degree	Tpd		All White → All Black All Black → All White		15 10	— —	ms ms
Viewing Angle	Right	θR	Center CR>10	85		—	Degree
	Left	θL		85		—	Degree
	Up	ΦH		85		—	Degree
	Down	ΦL		85		—	Degree

Luminance control		All White(digital signal or analog 6500k) Brightness at center of display surface	≥ 200 (cont / bright backlight max)	cd / m ²
-------------------	--	--	--	---------------------

These characteristics were measured under the following conditions:

Temperature: $77 \pm 6^{\circ}\text{F}$, $25 \pm 5^{\circ}\text{C}$
 Viewing angle: $AU = 0^{\circ}$, $AR = 0^{\circ}$
 Warm Up time: minimum 30 minutes
 Measuring instrument: TOPCOM BM-7 Luminance Meter
 Measuring distance: 500 mm
 Measuring angle: 2°

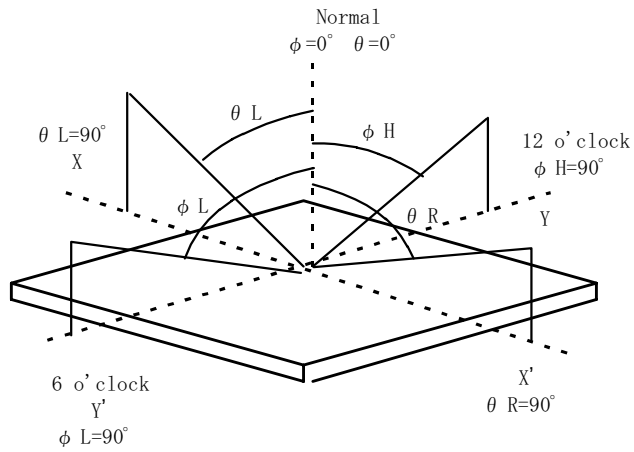


Notes:

(Note 1) Contrast ratio is defined as the following formula.

$$\text{Contrast ratio} = \frac{\text{Brightness(Luminance) with all pixels at "white"}}{\text{Brightness with all pixels at "black"}}$$

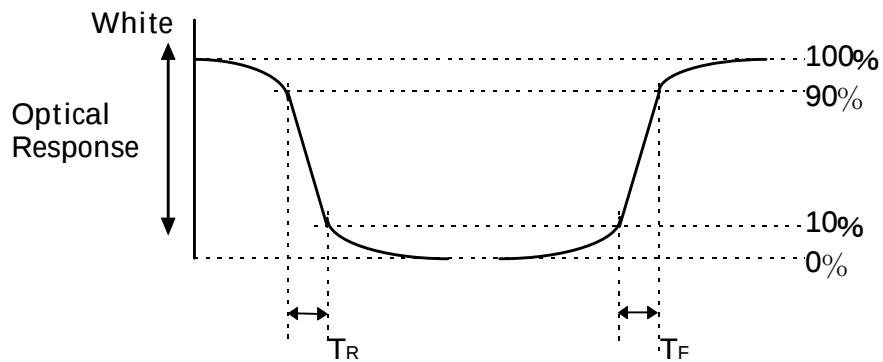
(Note 2) Viewing angle is measured as follows:



(Note 3) Definition of response time is as follows:

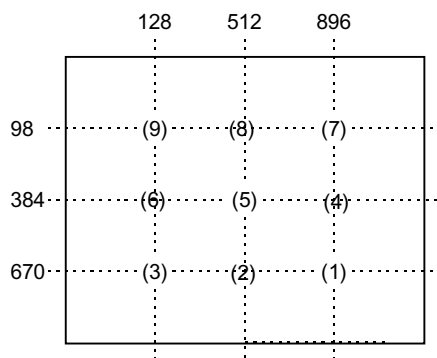
Response time is measured when the display data is changed from white to black.

White(TFT OFF)	Black(TFT ON)	White(TFT OFF)
----------------	---------------	----------------



(Note 4) Judge points for brightness uniformity

Brightness uniformity is judged at nine (9) points on display area:



$$BUNI = \frac{Bmin}{Bmax}$$

Bmax : Maximum Brightness

Bmin : Minimum Brightness

2.6.3. LCD Panel

Mechanical

Active Area (mm)	376.32 x 301.056
Pixel pitch (mm)	0.294 (0.098x3)
Mass typical (g)	3000
Panel dimensions (WxDxH) mm	414x335x23 mm(typ.)
Resolution	1280 x 1024
Surface Treatment with Haze value	Anti-glare, 2H
Panel Model number	FLC48SXC8V-01 (19" TFT)
Panel Interfaces	Dual LVDS

Optical performance

Contrast ratio	600:1 Typical 400 :1 Minimum
Luminance of white(center)	250 nits Typical 200 nits Minimum
White Uniformity	75% (5 points measurement)
Chromaticity values (red, green, blue) center	'x = +/- 0.030 'y = +/- 0.030
Color temperature	'x = 0.323 +/- 0.030 'y = 0.337 +/- 0.030
EBU	85% Min
Colors	True 8 bits (16.7M)
Viewing Angle H, V (CR >10)	170 (Min)
Film	Not used wide viewing film
Response time ms	Typical Tr = 15ms ; Tf = 10ms Maximum Tr = 30ms; Tf = 25ms
Number of Back Light(CCFL)	4 – Edge type back light
Backlight (hrs)	50,000 hours minimum; 60,000 hours typical

2.7 Power Management

Unit will enter power saving mode under the following conditions:

Power Management condition and status

State	Signals			Power Supply	Video Circuit	LCD	LED
	Horizontal	Vertical	Video				
On	Pulses	Pulses	Active	On	On	On	Green
Stand-by	No Pulses	Pulses	Blanking		Off	Off	Amber
Suspend	Pulses	No Pulses					
Off	No Pulses	No Pulses					
Complete	N/A	N/A	N/A	Off			

2.8 FullScan Capability

When the input display mode is not 1280x1024, the image area is changed as follows:

Flex Scan Mode	Input display		Expanded Rate		Expanded Resolution
	Mode	Resolution	Horizontal	Vertical	
Expansion 1		640x350	2	2.93	1280x1024
Expansion 2		640x400	2	2.56	1280x1024
Expansion 3		640x480	2	2.13	1280x1024
Expansion 4		720x400	1.78	2.56	1280x1024
Expansion 5		800x600	1.6	1.71	1280x1024
Expansion 6		832x624	1.54	1.64	1280x1024
Expansion 7		1024x768	1.25	1.33	1280x1024
Expansion 8		1152x864	1.11	1.19	1280x1024
Standard		1280x1024	1	1	1280x1024

3. Mechanical Characteristics

3.1 Dimensions

Net: 442.0 (W) x 474.6 (H) x 180.6 (D) mm

Gross: 565.0 (W) x 525.0 (H) x 260.0 (D) mm

3.2 Weight

Net: 7.5Kg

Gross: 10.2 Kg

3.3 Base Rotation

Tilt: up 20 ° / down 5 °

3.4 Labeling

3.4.1 ID Label (Paste on Rear Cover)

Material: Polyester's

Color: Black (same as plastic color) / White (Letter)

Size: 50 (W) X 25 (H) mm

Location: Rear Back Label

Contents: Appendix III

3.4.2 Bar Code Number Label (Carton Box)

Material: Art Paper

Color: White (Base) / Black (Letter)

Size: 76 (W) X 76 (H) mm

Location: Carton Box (Side Wall)

Contents: Appendix III

3.4.3 Serial Number Label (Rear Back Label)

Material: Art Paper

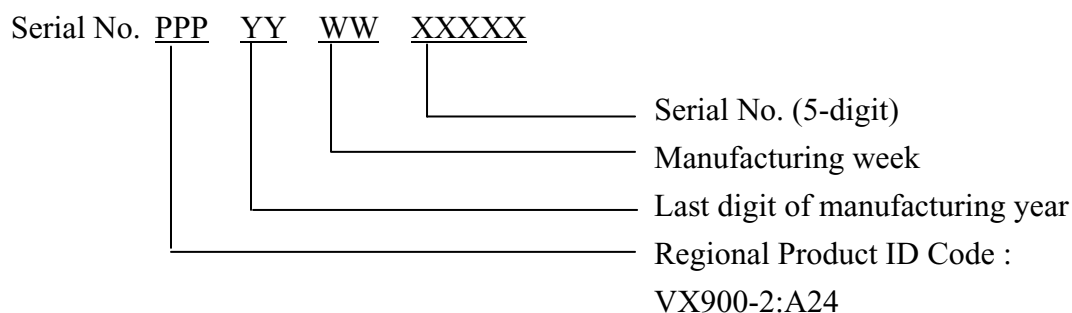
Color: White (Base) / Black (Letter)

Size: 25 (W) X 50 (H) mm

Location: Paste on Rear Back Label

Contents: Appendix III

3.5 Serial Number Format



3.6 UPC Coding (Code 39 format)

Worldwide Model UPC Code: 766907 80262 7

4. Packaging

4.1 Carton Box

Dimensions: 565(W) x 525(H) x 260(D) mm
Color: 4-Color printing box
Material: BC-FLUTE or Equivalent, double wall

5. Environmental Characteristics

5.1 Operating Conditions

Temperature: 0 Through + 40° C
Humidity: 20% To 85% (39 degree welt bulb)
Altitude: 0 – 3,000 Meter

5.2 Non-operating Conditions

Temperature: -20 Through +60 ° C
Humidity: 5% To 85% (39 degree welt bulb)
Altitude: 0 – 12,000 meter

6. Factory setting

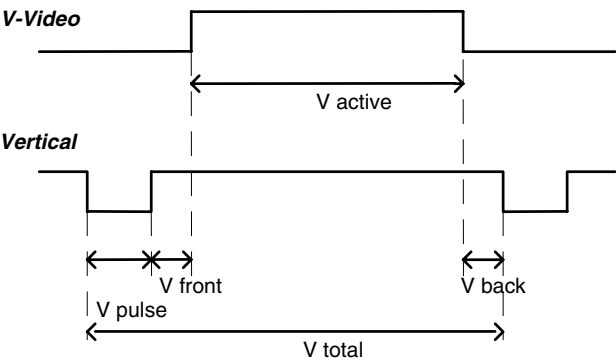
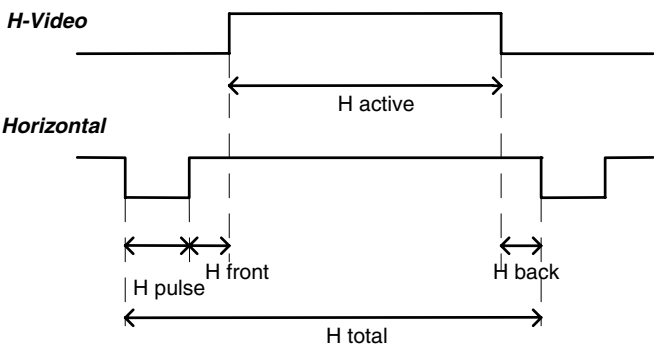
6.1 OSD

Brightness	100% (based on 0-100%)
Contrast	80% (based on 0-100%)
AutoTune	Executed
Color Temperature	6500k
Volume	50%
Balance	50%
Bass/Treble	50%
OSD Timeout	15 Sec
Language	English
OSD position	Center

6.2 Power Switch

OFF

Appendix I Preset Signal Timings



Analog timing mode table

		1	2	3	4	5	6	7
Signal name	symbol	TEXT mode	TEXT mode	VGA	MAC-II	VESA-VGA	VESA-VG A	VESA-VG A
H-frequency (kHz)		31.468	31.469	31.468	35.001	37.5	37.862	43.269
V-frequency (Hz)		70.087	70.087	59.941	66.667	75	72.807	85.005
Pixel rate (MHz)		25.175	28.322	25.175	30.240	31.5	31.501	36.000
H-sync	Ths	96	108	96	64	64	40	56
H-back porch	Thb	48	54	48	96	120	128	80
Count num (H-total)	Thd	800	900	800	864	840	832	832
H- front porch	Thf	16	18	16	64	16	24	56
V-sync	Tvs	2	2	2	3	3	3	3
V-back porch	Tvb	60	35	33	39	16	28	25
Count num (V-total)	Tvd	449	449	525	525	500	520	509
V-front porch	Tvf	37	12	10	3	1	9	1
H-sync. Polarity		Positive	Negative	Negative	Negative	Negative	Negative	Negative
V-sync Polarity		Negative	Positive	Negative	Negative	Negative	Negative	Negative
H-resolution (dots)		640	720	640	640	640	640	640
V-resolution (lines)		350	400	480	480	480	480	480

		8	9	10	11	12	13	14
Signal name	Symbol	IBM-8514A	SVGA	SVGA	SVGA	SVGA	MAC 16"	XGA
H-frequency (kHz)		35.156	37.879	48.077	46.875	53.674	49.725	48.363
V-frequency (Hz)		56.250	60.317	72.188	75.000	85.061	74.5	60.004
Pixel rate (MHz)		36.000	40.000	50.000	49.500	56.250	57.283	65.000
H-sync	Ths	72	128	120	80	64	64	136
H-back porch	Thb	128	88	64	160	152	224	160
Count num (H-total)	Thd	1024	1056	1040	1056	1048	1152	1344
H- front porch	Thf	24	40	56	16	32	32	24
V-sync	Tvs	2	4	6	3	3	3	6
V-back porch	Tvb	22	23	23	21	27	39	29
Count num (V-total)	Tvd	625	628	666	625	631	667	806
V-front porch	Tvf	1	1	37	1	1	1	3

H-sync. Polarity	Negative	Positive	Positive	Positive	Positive	Negative	Negative
V-sync Polarity	Negative	Positive	Positive	Positive	Positive	Negative	Negative
H-resolution (dots)	800	800	800	800	800	832	1024
V-resolution (lines)	600	600	600	600	600	624	768

		15	16	17	18	19	20	21
Signal name	Symbol	XGA	XGA	XGA	XGA	SXGA	720P	SXGA
H-frequency (kHz)		56.476	58.099	60.023	68.677	63.981	45.000	79.976
V-frequency (Hz)		70.069	72.082	75.029	84.997	60.02	60.00	75.025
Pixel rate (MHz)		75.000	78.084	78.750	94.500	108	74.250	135
H-sync	Ths	136	136	96	96	112	40	144
H-back porch	Thb	144	160	176	208	248	270	248
Count num (H-total)	Thd	1328	1344	1312	1376	1688	1658	1688
H- front porch	Thf	24	24	16	48	48	60	16
V-sync	Tvs	6	6	3	3	3	5	3
V-back porch	Tvb	29	29	28	36	38	20	38
Count num (V-total)	Tvd	806	806	800	808	1066	750	1066
V-front porch	Tvf	3	3	1	1	1	5	1
H-sync. Polarity		Negative	Negative	Positive	Positive	Positive	Negative	Positive
V-sync Polarity		Negative	Negative	Positive	Positive	Positive	Negative	Positive
H-resolution (dots)		1024	1024	1024	1024	1280	1280	1280
V-resolution (lines)		768	768	768	768	1024	720	1024

Digital timing mode table

		1	2	3	4	5	6	7
Signal name	symbol	TEXT mode	TEXT mode	VGA	VGA	VESA-VG A	VESA-VG A	VESA-VG A
H-frequency (kHz)		31.468	31.469	31.468	31.468	37.5	37.862	43.269
V-frequency (Hz)		70.087	70.087	70.000	59.941	75	72.807	85.005
Pixel rate (MHz)		25.175	28.322	25.175	25.175	31.5	31.501	36.000
H-sync	Ths	96	108	96	96	64	40	56
H-back porch	Thb	48	54	48	48	120	128	80
Count num (H-total)	Thd	800	900	800	800	840	832	832
H- front porch	Thf	16	18	16	16	16	24	56
V-sync	Tvs	2	2	2	2	3	3	3
V-back porch	Tvb	60	35	35	33	16	28	25
Count num (V-total)	Tvd	449	449	449	525	500	520	509
V-front porch	Tvf	37	12	10	6	1	9	1
H-sync. Polarity		Positive	Negative	Negative	Negative	Negative	Negative	Negative
V-sync Polarity		Negative	Positive	Negative	Negative	Negative	Negative	Negative
H-resolution (dots)		640	720	640	640	640	640	640
V-resolution (lines)		350	400	400	480	480	480	480

		8	9	10	11	12	13	14
Signal name	Symbol	IBM-8514A	SVGA	SVGA	SVGA	SVGA	XGA	XGA
H-frequency (kHz)		35.156	37.879	48.077	46.875	53.674	48.363	56.476
V-frequency (Hz)		56.250	60.317	72.188	75.000	85.061	60.004	70.069
Pixel rate (MHz)		36.000	40.000	50.000	49.500	56.250	65.000	75.000
H-sync	Ths	72	128	120	80	64	136	136
H-back porch	Thb	128	88	64	160	152	160	144
Count num (H-total)	Thd	1024	1056	1040	1056	1048	1344	1328
H- front porch	Thf	24	40	56	16	32	24	24
V-sync	Tvs	2	4	6	3	3	6	6
V-back porch	Tvb	22	23	23	21	27	29	29
Count num (V-total)	Tvd	625	628	666	625	631	806	806
V-front porch	Tvf	1	1	37	1	1	3	3

H-sync. Polarity	Negative	Positive	Positive	Positive	Positive	Negative	Negative
V-sync Polarity	Negative	Positive	Positive	Positive	Positive	Negative	Negative
H-resolution (dots)	800	800	800	800	800	1024	1024
V-resolution (lines)	600	600	600	600	600	768	768

		15	16	17	18	19
Signal name	Symbol	XGA	XGA	XGA	SXGA	HD-720P
H-frequency (kHz)		58.099	60.023	68.677	63.981	45.000
V-frequency (Hz)		72.082	75.029	84.997	60.02	60.00
Pixel rate (MHz)		78.084	78.750	94.500	108	74.250
H-sync	Ths	136	96	96	112	40
H-back porch	Thb	160	176	208	248	270
Count num (H-total)	Thd	1344	1312	1376	1688	1658
H- front porch	Thf	24	16	48	48	60
V-sync	Tvs	6	3	3	3	5
V-back porch	Tvb	29	28	36	38	20
Count num (V-total)	Tvd	806	800	808	1066	750
V-front porch	Tvf	3	1	1	1	5
H-sync. Polarity		Negative	Positive	Positive	Positive	Negative
V-sync Polarity		Negative	Positive	Positive	Positive	Negative
H-resolution (dots)		1024	1024	1024	1280	1280
V-resolution (lines)		768	768	768	1024	720

Appendix II EDID Code

Analog

128 BYTES OF EDID CODE:

	0	1	2	3	4	5	6	7	8	9
0		00	FF	FF	FF	FF	FF	FF	00	5A 63
10		11	90	01	01	01	01	01	0C	01 03
20		0E	26	1E	78	2A	2C	95	A6	58 4A
30		9A	26	21	50	54	BF	EF	00	81 80
40		01	01	01	01	01	01	01	01	01 01
50		01	01	01	01	30	2A	00	98	51 00
60		2A	40	30	70	13	00	78	2D	11 00
70		00	1E	00	00	00	FF	00	41	32 34
80		30	32	30	31	30	30	30	30	31 0A
90		00	00	00	FD	00	32	4B	1E	53 0E
100		00	0A	20	20	20	20	20	20	00 00
110		00	FC	00	56	58	39	30	30	2D 32
120		0A	20	20	20	20	20	00	AD	

Digital

128 BYTES OF EDID CODE:

	0	1	2	3	4	5	6	7	8	9
0		00	FF	FF	FF	FF	FF	FF	00	5A 63
10		11	90	01	01	01	01	01	0C	01 03
20		80	26	1E	78	2A	2C	95	A6	58 4A
30		9A	26	21	50	54	BF	EF	00	81 80
40		31	0A	01	01	01	01	01	01	01 01
50		01	01	01	01	30	2A	00	98	51 00
60		2A	40	30	70	13	00	78	2D	11 00
70		00	1E	00	00	00	FF	00	41	32 34
80		30	32	30	31	30	30	30	30	31 0A
90		00	00	00	FD	00	32	4B	1E	53 0E
100		00	0A	20	20	20	20	20	20	00 00
110		00	FC	00	56	58	39	30	30	2D 32
120		0A	20	20	20	20	20	00	02	

Appendix III Label Printing

ID LABEL



Bar Code label/Serial No Label

ViewSonic

VX900

Model Number: VLCD826105-2W

Serial Number: A24YYWWnnnnn

ViewSonic

VX900

766907802627

MODEL NUMBER: VLCD826105-2W

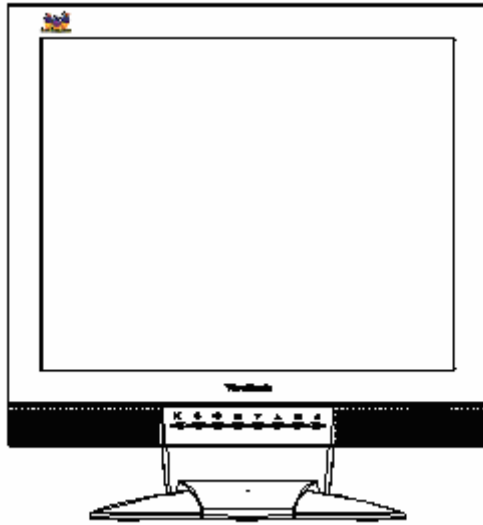
SERIAL NUMBER: A24YYWWnnnnn

(M)

Made In China

2

2. Front Panel Function Control Description



1. User control functions

Control buttons :



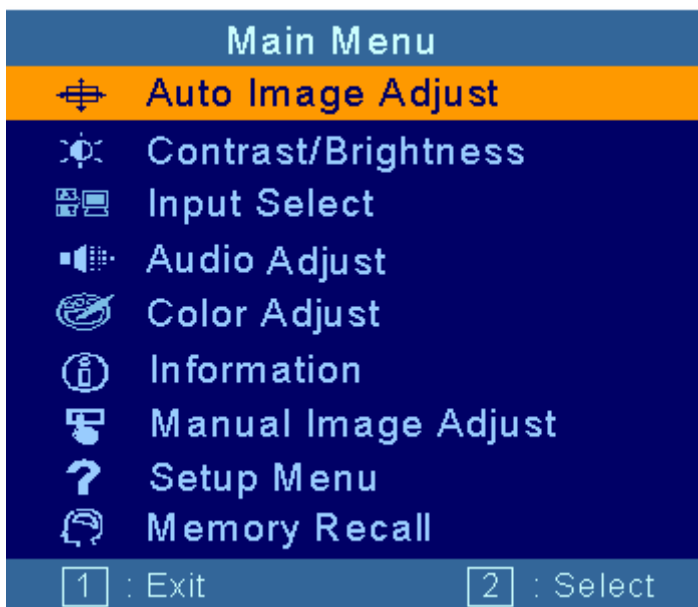
1. Press power button to power on LCD monitor. Led on the power button will turn green.
2. Press '2' button while no OSD will toggle the digital input port and analog input port to display.
3. Press "up" and "down" button simultaneously will reset the contrast and brightness to default.
4. Press '1' button will enter OSD main menu.
5. Press "volume plus", "volume minus" can directly adjust the audio volume
6. Press "mute" button can directly mute on or off the audio volume.

2. OSD operation flow

The following steps show how to access the **Main Menu**, **Submenus**, and controls within each **Submenu**. Details on the controls follow the steps listed below.

Note: Any OSD setting will only save after user totally exit OSD menu.

- 1 Press the [1] button to display the Main Menu shown below.
- 2 Press the [▼] or [▲] button to scroll to the desired menu option.
- 3 Press the [2] button to select the menu option.
- 4 Press the [▼] or [▲] button to select submenu option.
- 5 After making adjustments, press the [1] button exit the screen, must exit the OSD to save the settings.

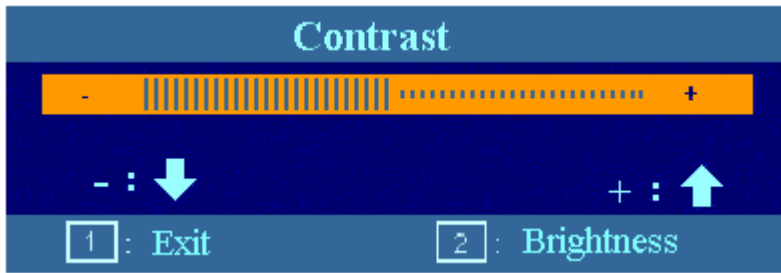


Auto Image Adjust automatically sizes, centers, and fine tunes the video signal to eliminate waviness and distortion. Press the [2] button to confirm to do auto adjust .

NOTE: Auto Image Adjust works with most common video card. If using the function does not work on your ViewPanel®, Lower the video refresh rate to 60 Hz and try again. (See computer or graphic card user guide to adjust refresh rate.) The panel may be manually tuned using the horizontal and vertical phase controls shown below.

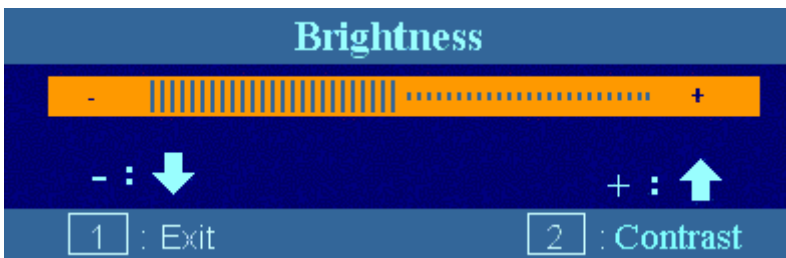
Contrast adjust foreground white level of screen image.

[▲] increase contrast, [▼] decrease contrast.



Shortcut: Before displaying the OnView menu, press the [▼] or [▲] button to adjust. Press button [2] to toggle between brightness and contrast.

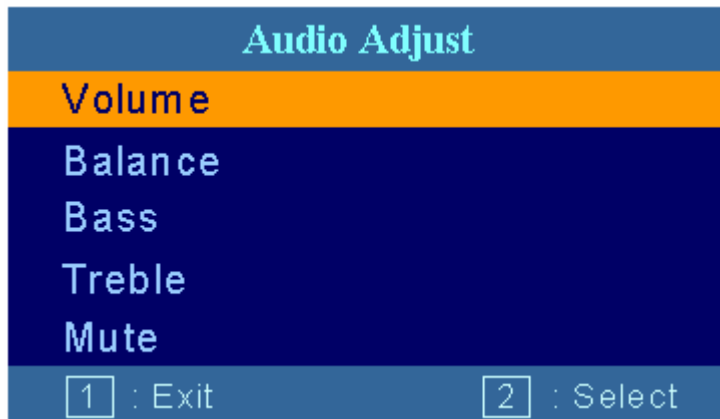
Brightness adjusts backlight brightness level of screen image.
[▲] increase brightness, [▼] decrease brightness.



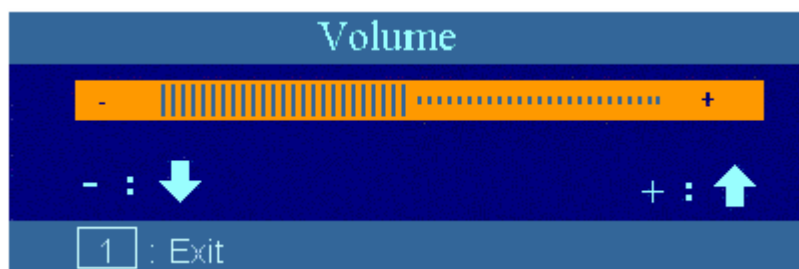
Input Select press [▼] or [▲] button to select Input Source.



Audio press [▼] or [▲] button to scroll desired menu option.
Press [2] button to select submenu option.

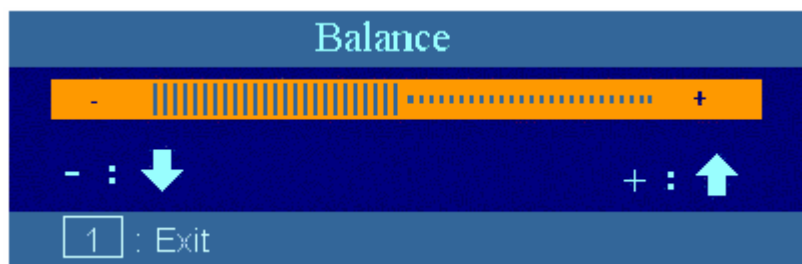


Volume increase the volume, decreases the volume,



Balance adjusts the proportion of sound coming from each speaker.

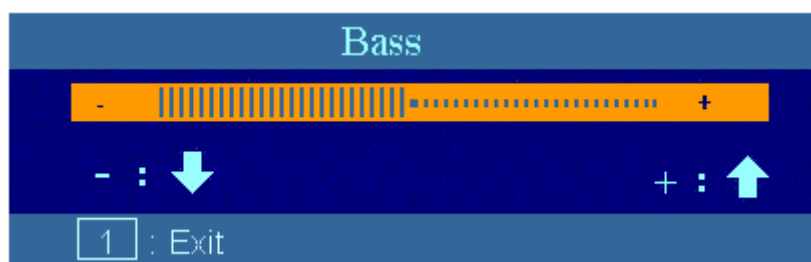
[▼] directs more of the sound to the left speaker, [▲] directs more of the sound to the right speaker.



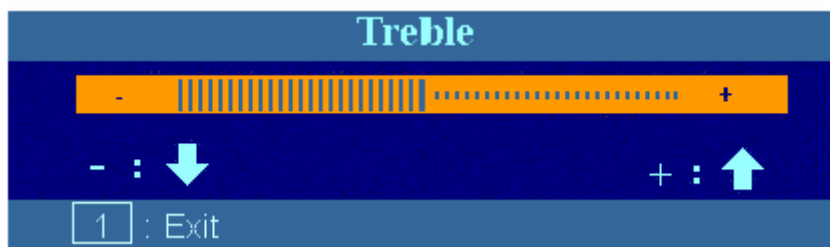
Bass/Treble adjusts the high (treble) and low (bass) frequency audio output

Press [2] button to select bass adjustment.

Bass press [▼] or [▲] to adjust bass.



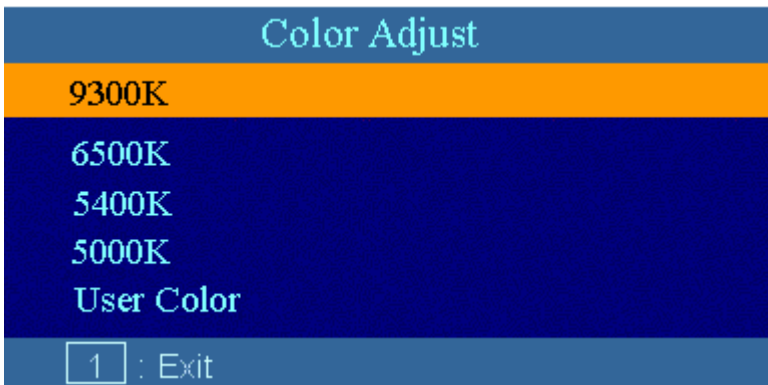
Treble press [▼] or [▲] to adjust treble.



Mute



Color Adjust



Color Adjust provides four preset color adjustment: *9300K*, *6500K*, *5400K*, *5000K* for improved brightness and color saturation. Press button [▼] or [▲] to fine tune the color response.

9300K—Adds blue to screen image for cooler white (used in most office settings with fluorescent lighting).

6500K—Adds red to screen image for warmer white and richer red.

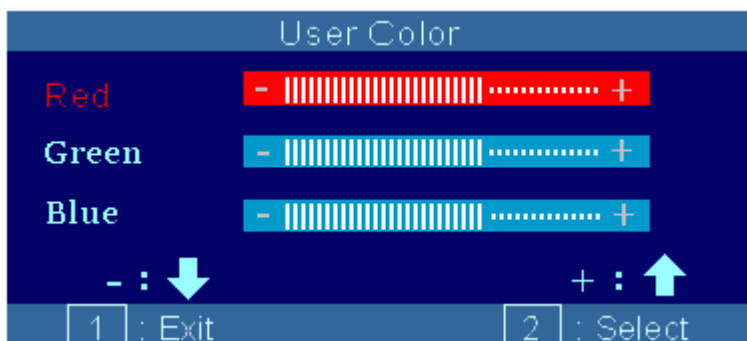
5400K—Adds green to screen image for a darker color.

5000K—Adds blue and green to screen image for a darker color.

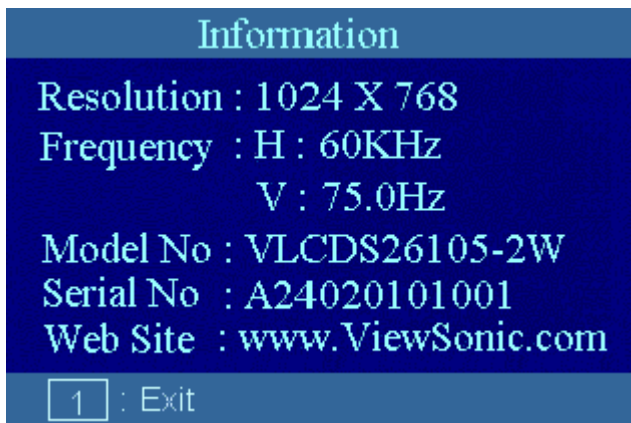
User Color—Individual adjustments for red (R), green (G), blue(B).

1 To adjust selected color, press [▼] or [▲].

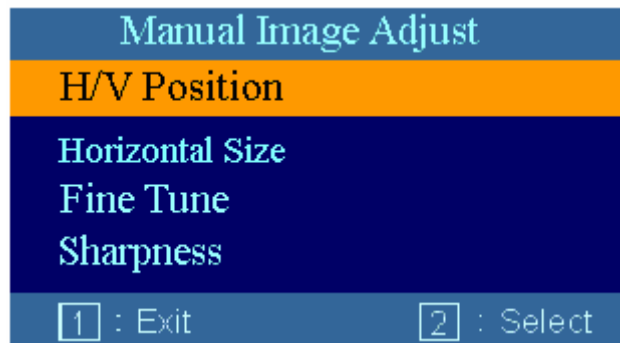
2 Press button [2] to set adjustment and select next color to adjust.



Information



Manual Image Adjust

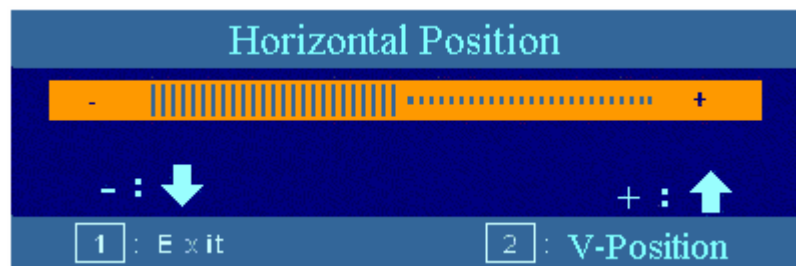


H/V Position Press the [2] button to select H-Position or V-Position.

H-Position moves screen image left or right.

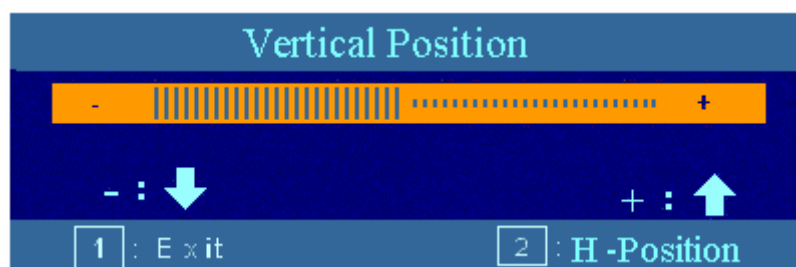
[▼] move screen image to *left*, [▲] moves screen image to *right*.

Press the [2] button to toggle between H. or V. Position.

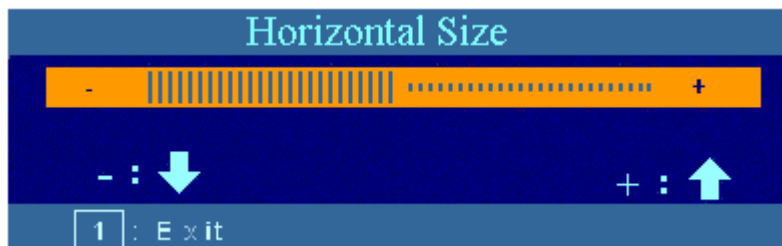


V-Position moves screen image up or down.

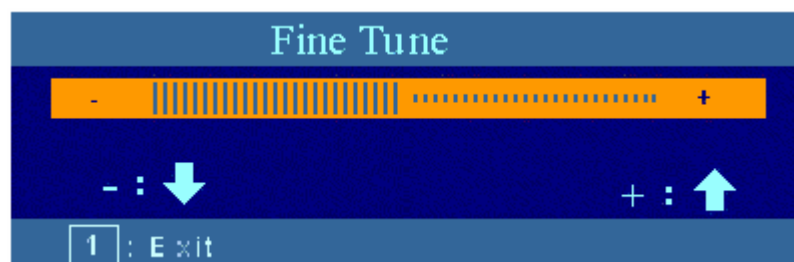
[▼] move screen image *down*, [▲] moves screen image *up*.



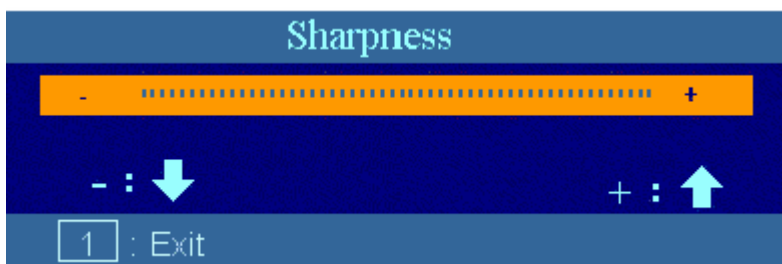
H-Size adjusts the width of screen image. [▼] decreases Width of screen image, [▲] increases width of image.



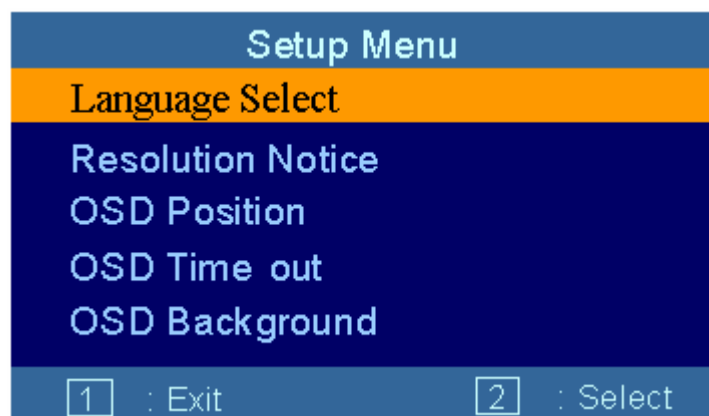
Fine-Tune



Sharpness adjusts the clarity of a non-SXGA (1280 x 1024) RGB signal Press [▼] or [▲] to adjust.



Setup Menu



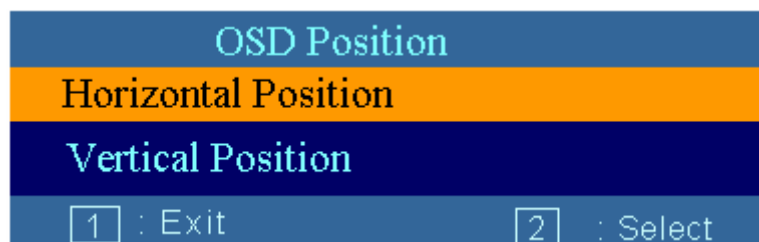
Language Select allows the user to choose from available languages.



Resolution Notice press the [▼] or [▲] button to select the Enable or Disable the Resolution Notice.

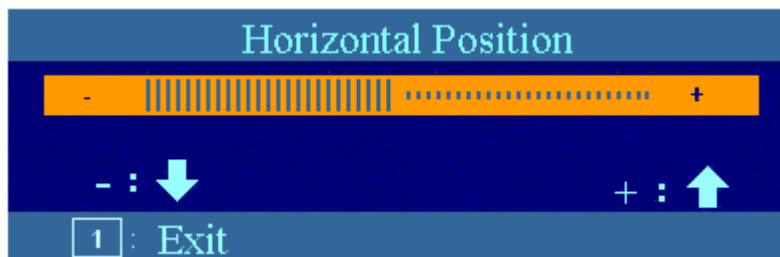


OSD Position press the [2] button to select the OSD Position.

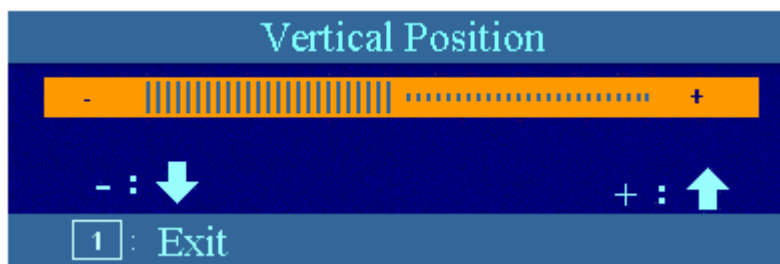


press the [2] button to select the OSD H-Position or OSD V-Position.

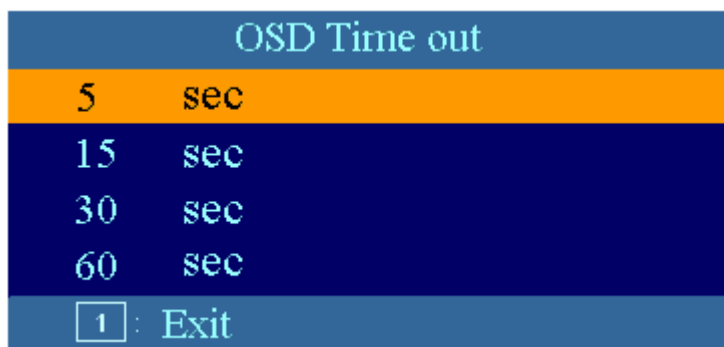
OSD H-Position [▼] moves OSD left, [▲] moves the OSD right.



OSD V-Position [▼] moves OSD down, [▲] moves the OSD up.



OSD Time out sets the length of time the On Screen Display screen is displayed before exiting.



OSD Background



Memory Recall

Returns the adjustments back to factory settings (only if the LCD Display is operating in a factory preset mode).

Press the [2] button to select the Memory Recall menu option.

Note:

OSD Controls

Auto Image Adjust*, Contrast/Brightness, Input Select, Audio Adjust [Volume, Balance, Bass, Treble, Mute], Color Adjust [9300K, 6500K(default), 5400, 5000, User Color], Information [Resolution, Frequency, Model Number, Serial Number, Web Site], Manual Image Adjust [H/V Position*, Horizontal Size*, Fine Tune*, Sharpness], Setup Menu [Language Select, Resolution Notice, OSD Position, OSD Time out, OSD Background], Memory Recall

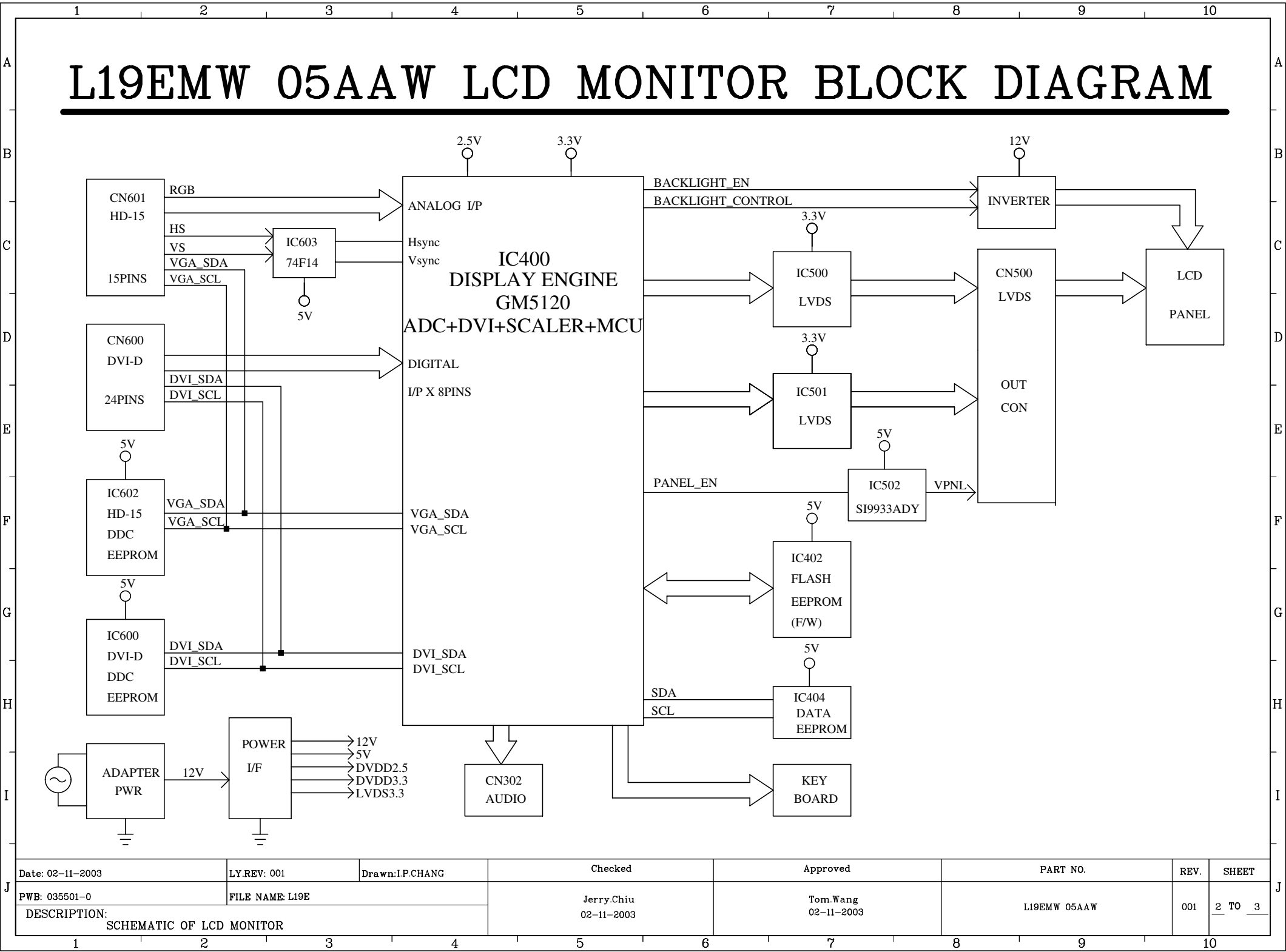
Note : “*” These functions are not available in Digital Mode.

Memory Recall is to recall the following functions to factory setting: Contrast, Brightness, H Size, H/V Position, Color Temperature @ 6500K, OSD Position, Sharpness, & OSD Time out.

OSD Auto Save

The OSD shall save new settings when it is turned off by the user or when it times out. There shall not be a separate save.

3. Circuit Description



Frame Name:FR9-1R00.TTL*

1. Interface Board

1.1 Power Supply (DC/DC Converter)

IC100 is a linear regulator that converts a 12V DC input voltage into regulated and stable output voltages of 5V respectively.

1.2 Micro-Controller

IC400 (scalar) built-in an micro-controller and an extra flash ROM (IC402---39SF010). It plays a major role in the digital control of the LCD monitor. IC400 acts as a Key control, DPMS power saving control, auto-detect controller, and controller of IC400 to do image process.

Pin 114 controls Inverter enable or disable

Pin 113 enable vcc for panel

Pin 125 send a HI signal when audio is invalid

send a LOW signal when audio is valid

Pin 5 receive HI signal from IC401 pin 3 to reset

Pin 1,4, 39, 43, 46, 47, 125, 206 make key function operate when press key button (receive LOW signal from key button.)

Pin 51, 52 communicate with IC404 (EEPROM) by I²C

Pin 48 detect audio in

Pin 44,45 do ISP(in-system program)

Pin 40 controls the brightness of panel

Pin 41, 42 controls LED (orange and green) on /off

Pin 123 control audio boards 12V on/off

Pin 126 control IC500, IC501(LVDS Transmitter) on/off.

1.3. Image Processor

IC400 (gm5120) is an all-in-one image processor for displays with a dual (analog and digital) interface supporting resolutions up to SXGA. It provides integrated ADC/PLL and a DVI compliant TMDS receiver and MCU, a high quality zoom and shrink scaling engine, an on-screen display(OSD) controller, a microprocessor and many other functions in a single device. This high level of integration enables simple, flexible, cost-effective solutions featuring fewer required components.

The gm5120 chip has three ADC's (analog-to-digital converters), one for each color (red, green, and blue) and supports digital separate sync (HSYNC/VSYNC), digital composite sync, and analog composite sync (also known as sync-on-green, or SOG). All sync types are supported without the need for external sync separation / extraction circuits.

The gm5120 features four clock inputs. All additional clocks are internal clocks derived from one or more of these four, using Direct Digital Synthesis (DDS).

TCLK is generated using an external crystal (recommended) or an external clock oscillator.

(1) Input Clock (TCLK). The external connection to the oscillator is via the TCLK and XTAL pads. A 14.3MHz crystal source is recommended, as internal PLL and logic circuits derive the required clock frequencies from this single source by default. Other crystal frequencies may be used, but require custom bootstrapping and programming. In lieu of using a crystal oscillator, XTAL can be driven by a single-ended TTL/CMOS input clock (e.g. for testing of the IC) – the TCLK pin should be grounded through a 2.7k pull-down resistor to maintain the correct duty cycle for the clock.

(2) TMDS Differential Input Clock (RC+ and RC-)

(3) Video Clock (VCLK) input pin

(4) Host Interface Transfer Clock (HCLK for 6-Wire nibble; SCL for 2-wire serial)

The gm5120 has an Input Format Measurement block (the IFM) providing the capability of measuring the horizontal and vertical timing parameters of the input video source. This information may be used to determine the video format and to detect a change in the input format. It is also capable of detecting the field type of interlaced formats.

The IFM features a host programmable reset, separate from the regular gm5120 soft reset. This reset disables the IFM, reducing power consumption. The IFM is capable of operating while gm5120 is running in power down mode.

Horizontal measurements are measured in terms of the selected IFM_CLK (either T_CLK or R_CLK/4), while vertical measurements are measured in terms of HSYNC pulses.

The gm5120 OSD controller supports both character-mapped and bitmapped modes. A user programmable palette of 256 true colors (255 colors, + 1 transparent) is available.

In character mapped mode, a maximum of four colors per character are available.

In 8-bit bitmapped mode, any pixel can be assigned any one of 256 user-defined true colors.

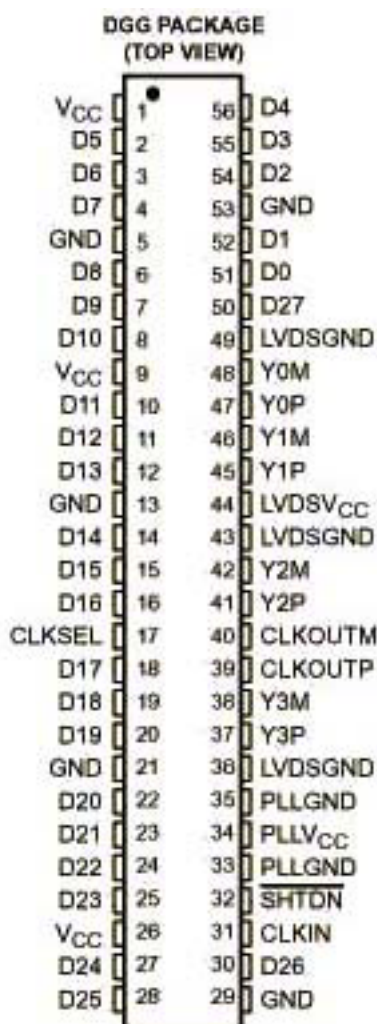
In 4-bit bitmapped mode, any pixel can be assigned any one of 16 user-defined true colors (15 colors plus one transparent).

The gm5120 incorporates an embedded microprocessor, or OCM (On-Chip Microprocessor). This processor is intended to simplify the gm5120 system software implementation by providing embedded macro functions such as OSD menu configurations. It is not intended to replace the system microprocessor.

An arbitration mechanism handles the register access requests from the OCM and the system. micro.

1.4 LVDS Transmitter

IC500, 501 (SN75LVDS83) FlatLink transmitters contains four 7-bit parallel-load serial-out shift registers, a clock synthesizer, and five low-voltage differential-signaling (LVDS) line drivers in a single integrated circuit. These functions allow 28 bits of single-ended low-voltage TTL (LVTTTL) data to be synchronously transmitted over five balanced-pair conductors for receipt by a compatible receiver,



When transmitting, data bits D0 through D27 are each loaded into registers upon the edge of the input clock signal (CLKIN). The rising or falling edge of the clock can be selected by way of the clock select (CLKSEL) terminal. The frequency of CLKIN is multiplied seven times () and then used to unload the data registers in 7-bit slices and serially. The four serial streams and a phase-locked clock (CLKOUT) are then output to LVDS output drivers. The frequency of CLKOUT is the same as the input clock, CLKIN.

The SN75LVDS83 requires no external components and little or no control. The data bus appears the same at the input to the transmitter and output of the receiver with the data transmission transparent to the user. The only user intervention is the possible use of the shutdown/clear (SHTDN) active-low input to inhibit the clock and shut off the LVDS output drivers for lower power consumption. A low-level signal on SHTDN clears all internal registers to a low level.

1.5 DDC 1/2 B

IC600 (24LC02) & IC602 (24LC21A) can continuously transmit its extended identification, “EDID” using DDC1 communication channel. In addition, the monitor can respond to a request for EDID, or complete VDIIF, to be transmitted using DDC2, level B commands. Pin6 SCL is clock input for DDC 2B, pin5 SDA for data input, and pin7 VCLK is clock input for DDC1.

In DDC1 data transfer (UNI-directional mode), the VCLK input pin is used as an input clock for data transmission and SDA output pin is used as serial data line the SCL pin will hold high. The DDC2B node (BI-directional mode) BUS consists of two wires. SCL is for the data transmission clock and SDA is for the data line.

2. Audio Board

2.1 Audio processor

ICA2 (PT2313L) is a four-channel digital audio processor utilizing CMOS Technology .Volume, Bass, Treble, Balance, Front/Rear Fader Processor are incorporated into a single chip. Loudness function and Selectable input gain are also provided to build a highly effective electronic Audio processor having the highest performance and reliability with the Least external components. And all functions are programmable using the IIC BUS

PIN#	PIN NAME	I/O	DESCRIPTION
1	REF	-	Analog reference voltage(1/2 VDD)
2	VDD	-	Supply input voltage
3	Agnd	-	Analog ground
4	Treb_L	I	Left channel input for treble control
5	Treb_R	I	Right channel input for treble control
6	RIN	I	Audio processor right channel input
7	Rout	O	Gain output & input selector for right channel
8	Loud_R	I	Right channel loudness input
9	Rin 3	I	Right channel input 3
10	Rin 2	I	Right channel input 2
11	Rin 1	I	Right channel input 1
12	Loud_L	I	Left channel loudness input
13	Lin 3	I	Light channel input 3

14	Lin 2	I	Light channel input 2
15	Lin 1	I	Light channel input 1
16	LIN	I	Audio processor left channel input
17	Lout	O	Gain output & input selector for left channel
18	Bin _L	I	Left bass controller input channel
19	Bout _L	O	Left bass controller output channel
20	Bin _R	I	Right bass controller input channel
21	Bout _R	O	Right bass controller output channel
22	RRout	O	Right rear speaker output
23	LRout	O	Left rear speaker output
24	RFout	O	Right front speaker output
25	LFout	O	Left front speaker output
26	Dgnd	-	Digital ground
27	Date	I	IIC Date
28	Clk	I	IIC Clk

ICA1 control & regulate the voltage (12Vto9V)to the ICA2

Volume signal through ICA2 pin24(right)pin25(left) into audio amplifier
ICA3

2.2 Audio amplifier:

ICA3(TDA1517) is an integrated class-B dual output amplifier ,
It contains two identical amplifier differential input stages. The gain
Of each amplifier is fixed at 20 dB.

Pins 1 and 9 are right and left channel inputs respectively. Pins 4 and 6 are
right and left channel outputs which connect to two 4 OHM speakers.

Pin 8 is the mute/stand-by

Pin 7 is the voltage input for ICA1

4. Troubleshooting Flow Chart

1. Figure of Waveform

FIG 1. 12V

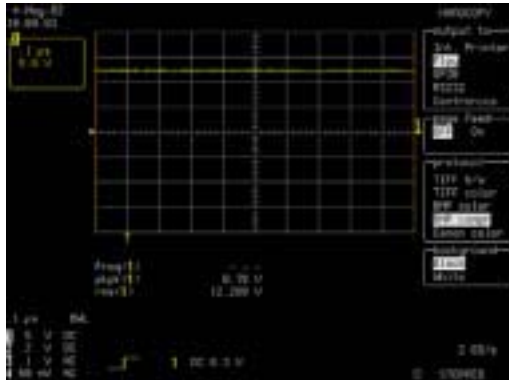


FIG 2. 5V

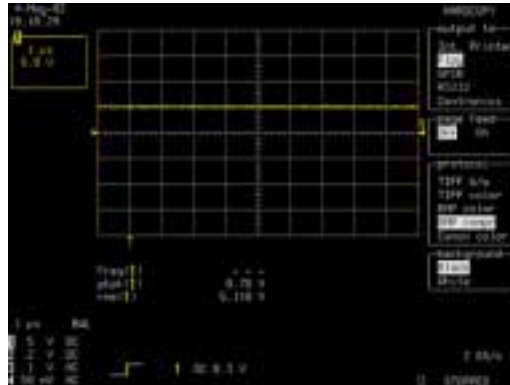


FIG 3. 3.3V

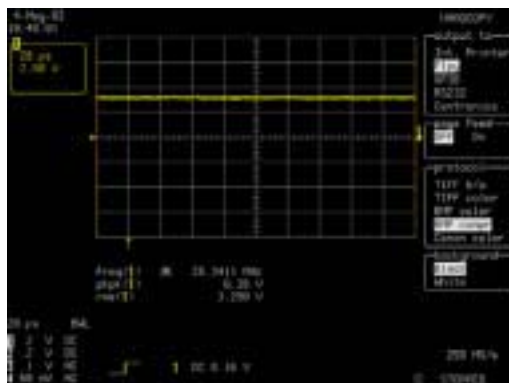


FIG 4. 2.5V

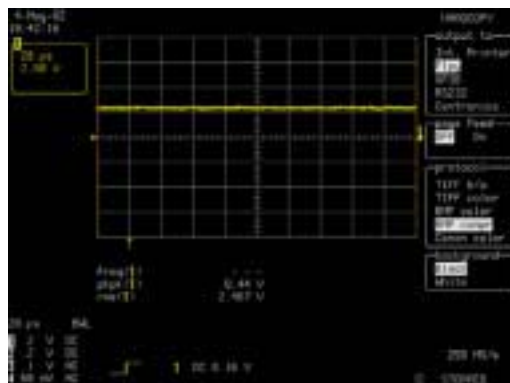


FIG 5. 32 GRAY SIGNAL INPUT

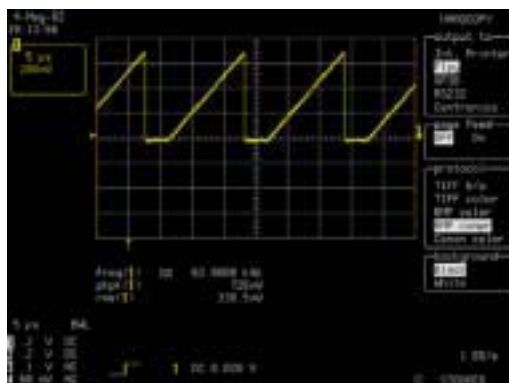


FIG 6. H-SYNC

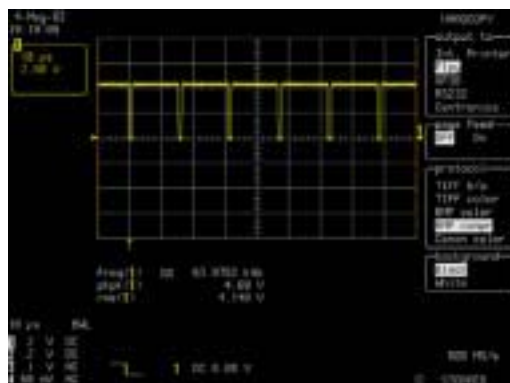


FIG 7. V-SYNC

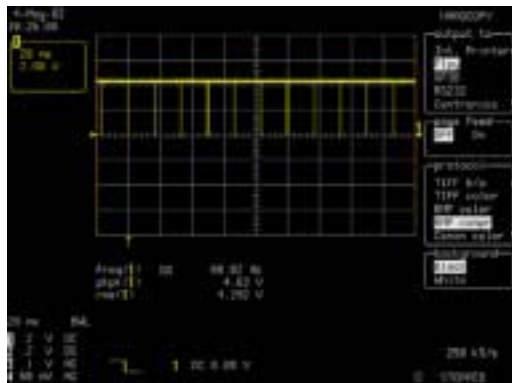


FIG 8. 14.3M CLOCK

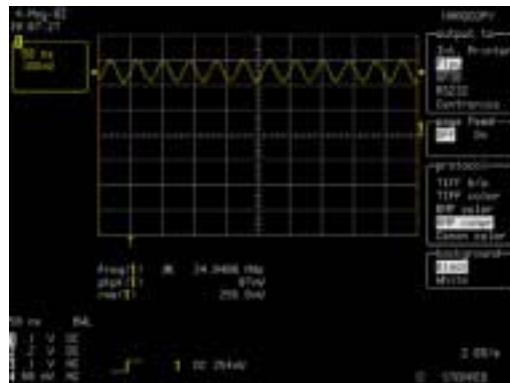


FIG 9. DISPLAY CLOCK+

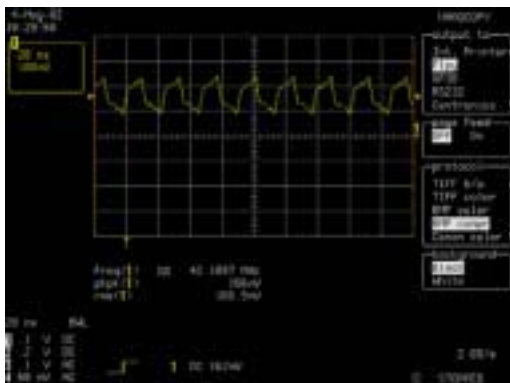


FIG 10. DISPLAY H-SYNC

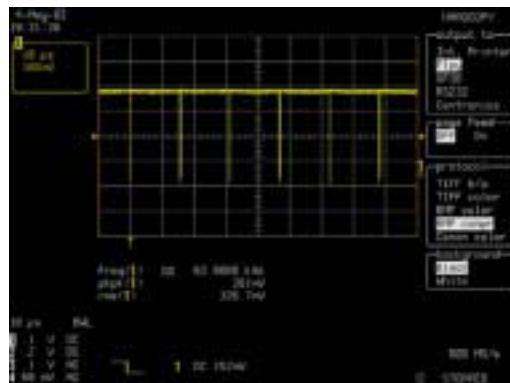


FIG 11. DISPLAY V-SYNC

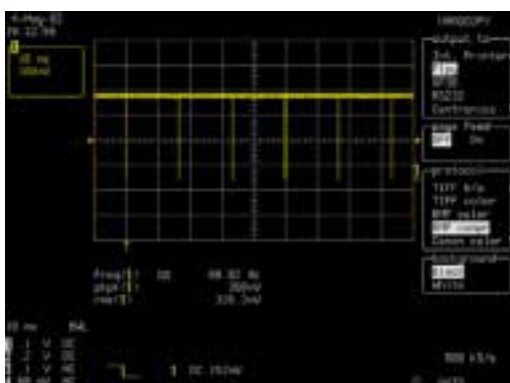


FIG 12. DISPLAY ENABLE

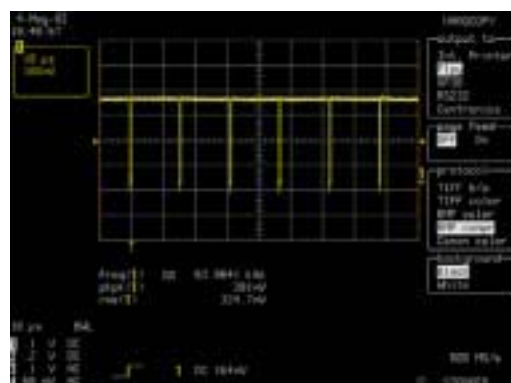


FIG 13. LVDS TX0+

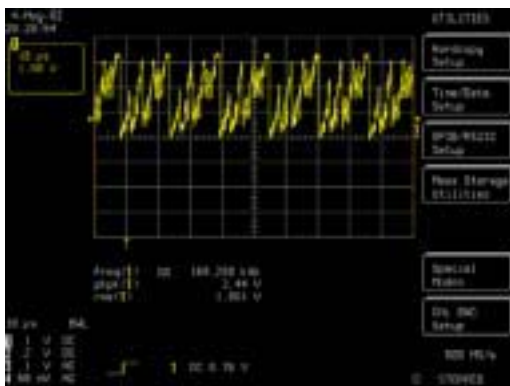


FIG 14. LVDS TX0-

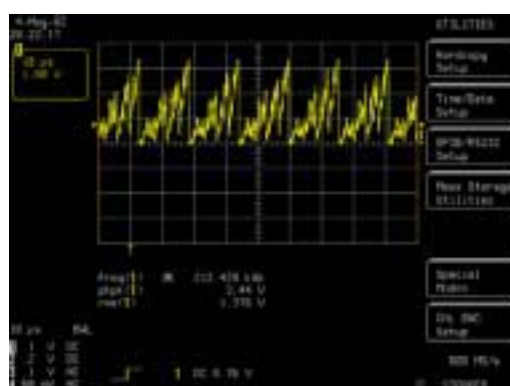


FIG 15. LVDS CLOCK+

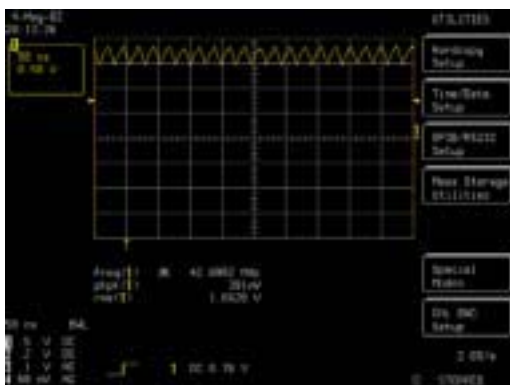


FIG 16. LVDS CLOCK-

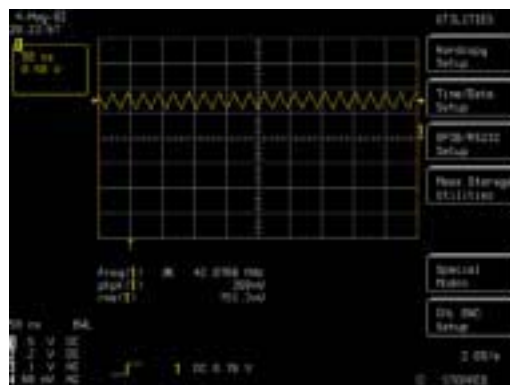


FIG 17. AUDIO SINE SIGNAL IN

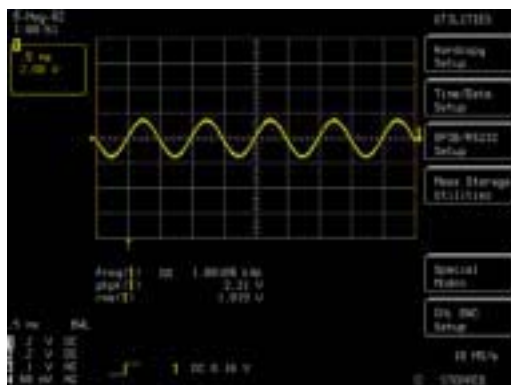
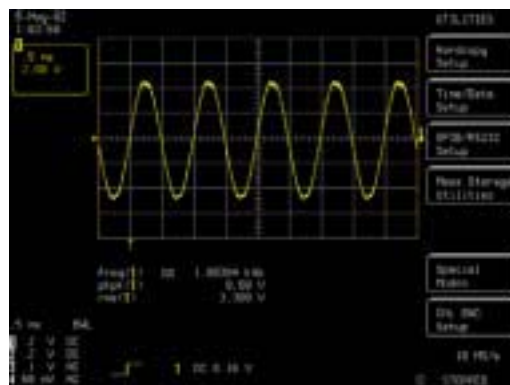
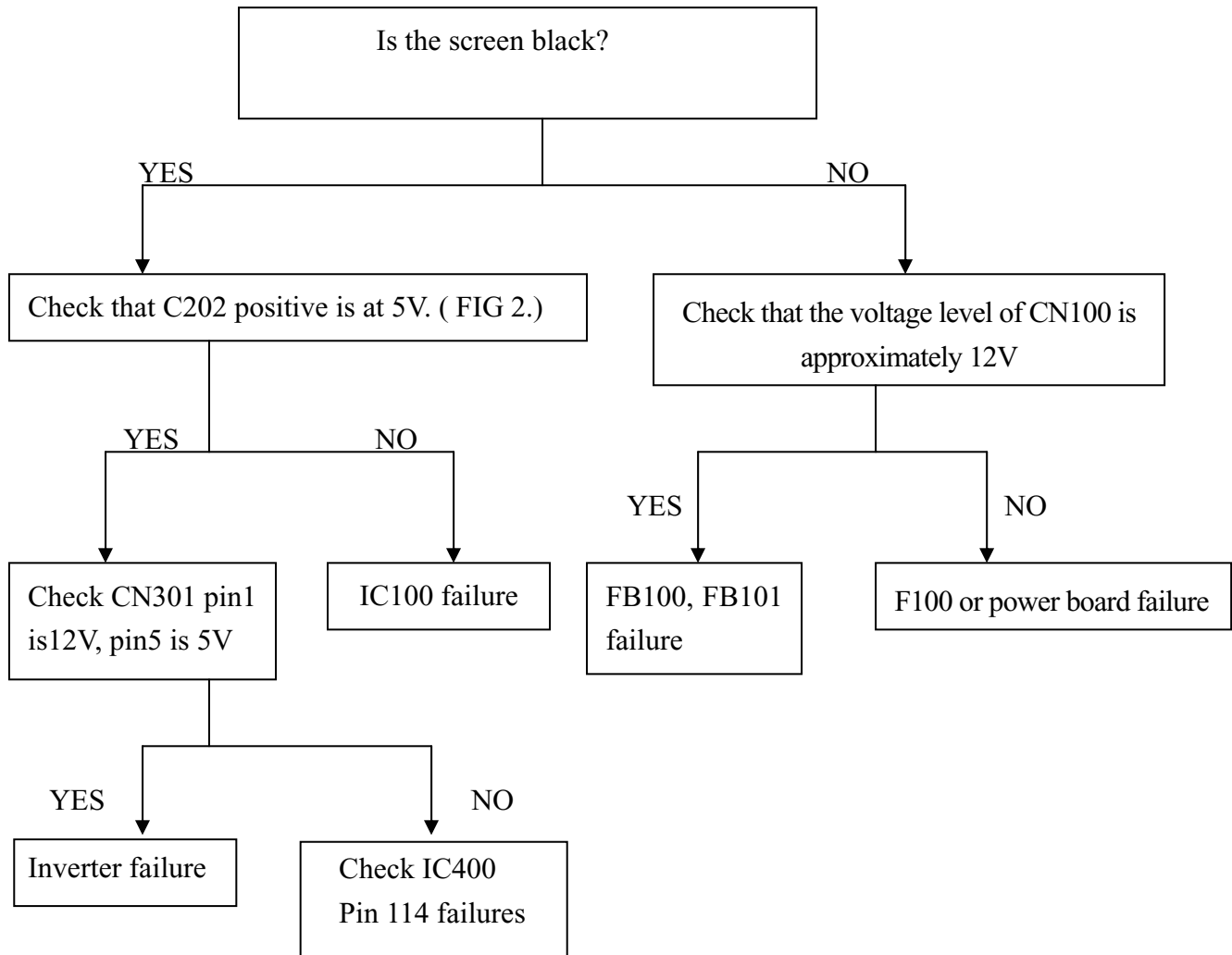


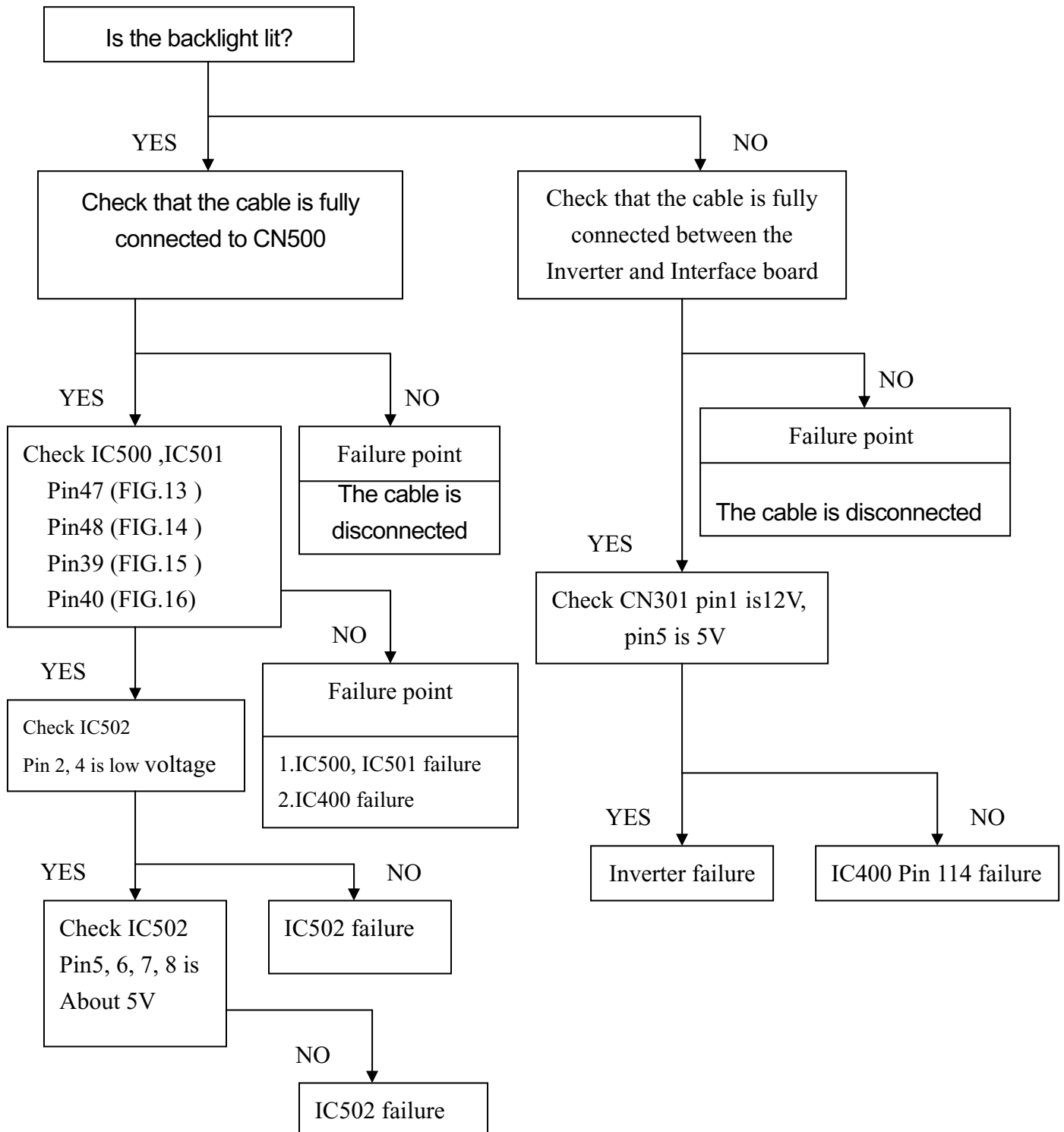
FIG 18. AUDIO SINE SIGNAL OUT



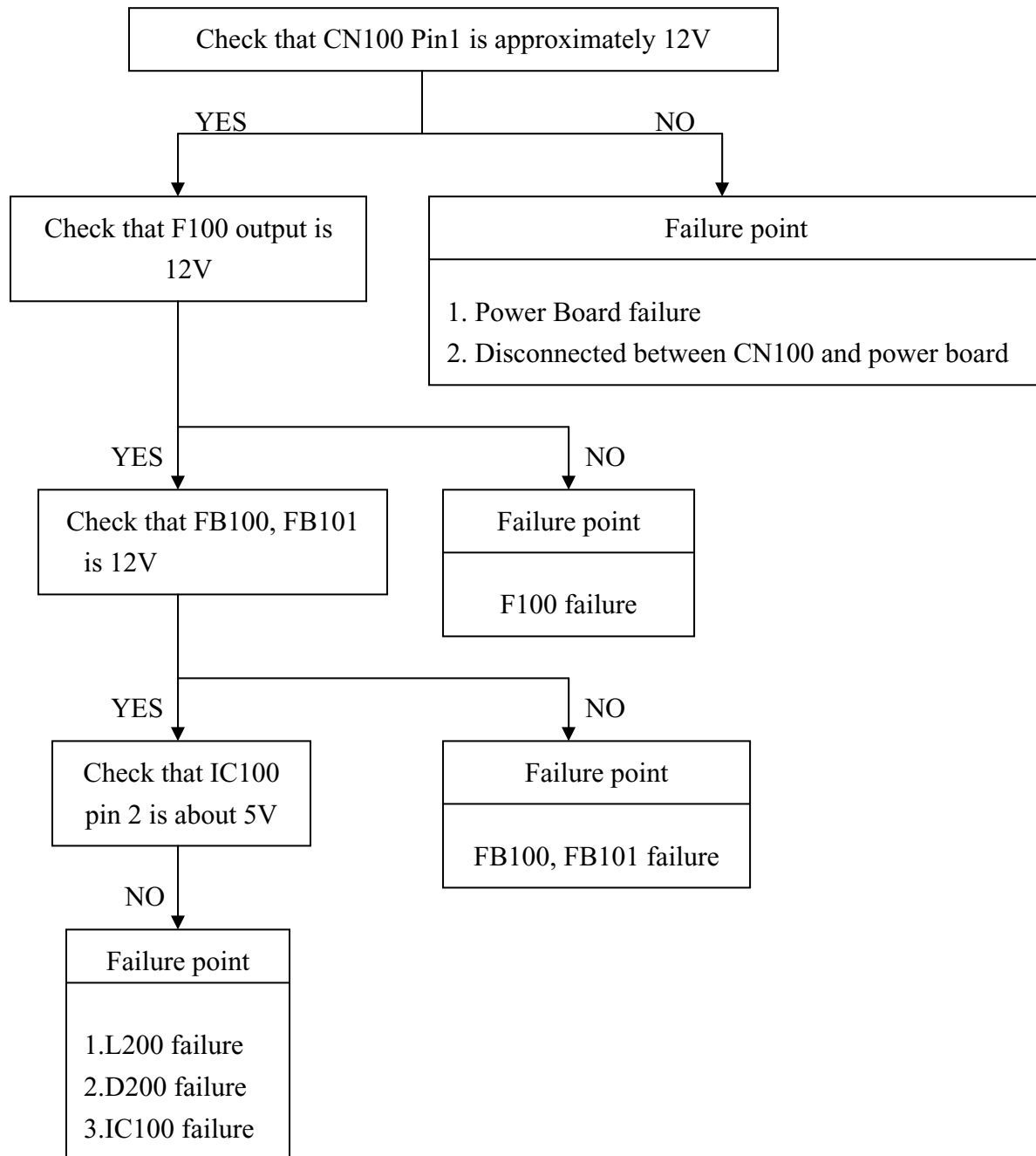
2. No Display on Screen (Screen is black, LED is off)



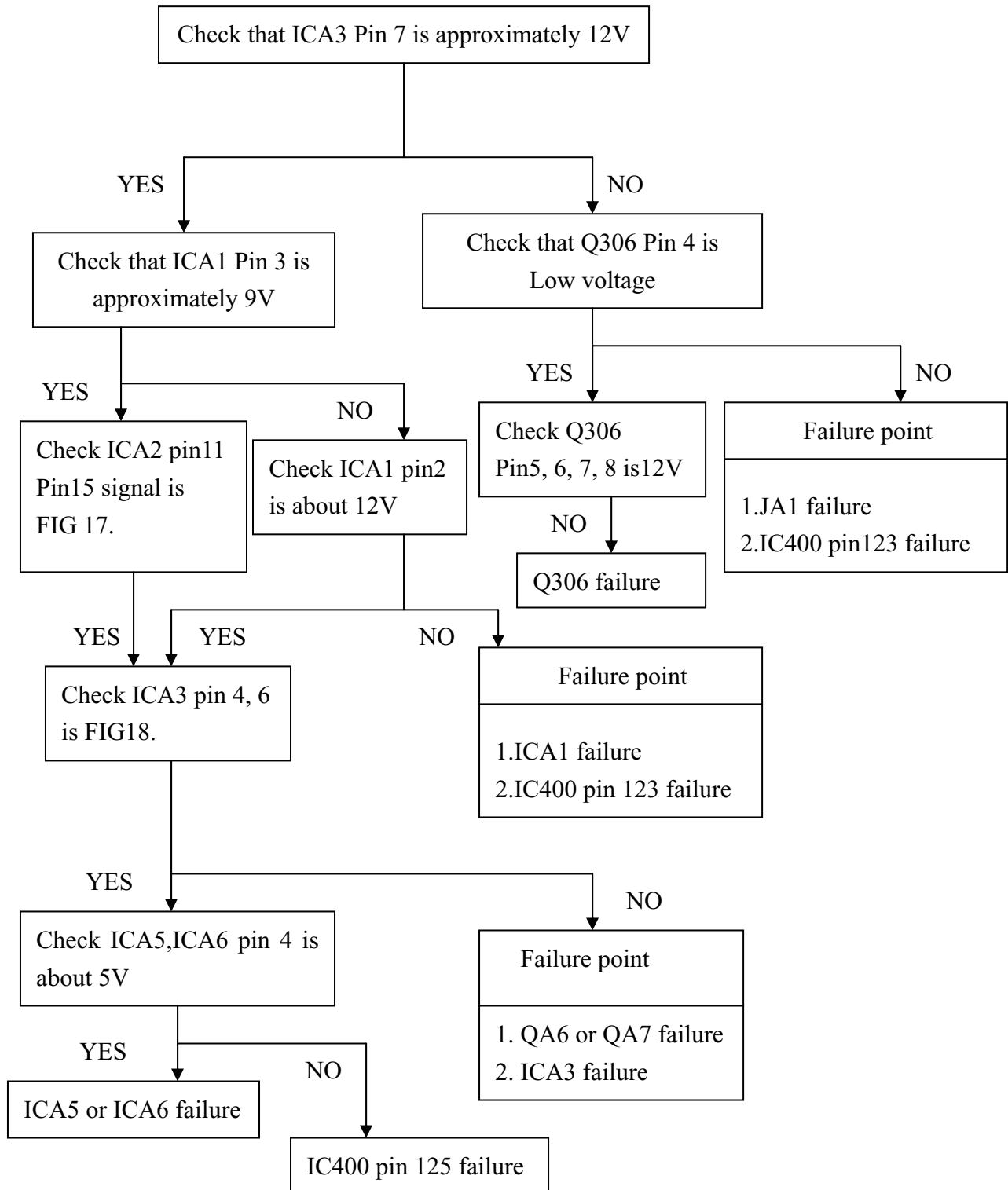
3. No Display on Screen (LED is green)



4. No Power On

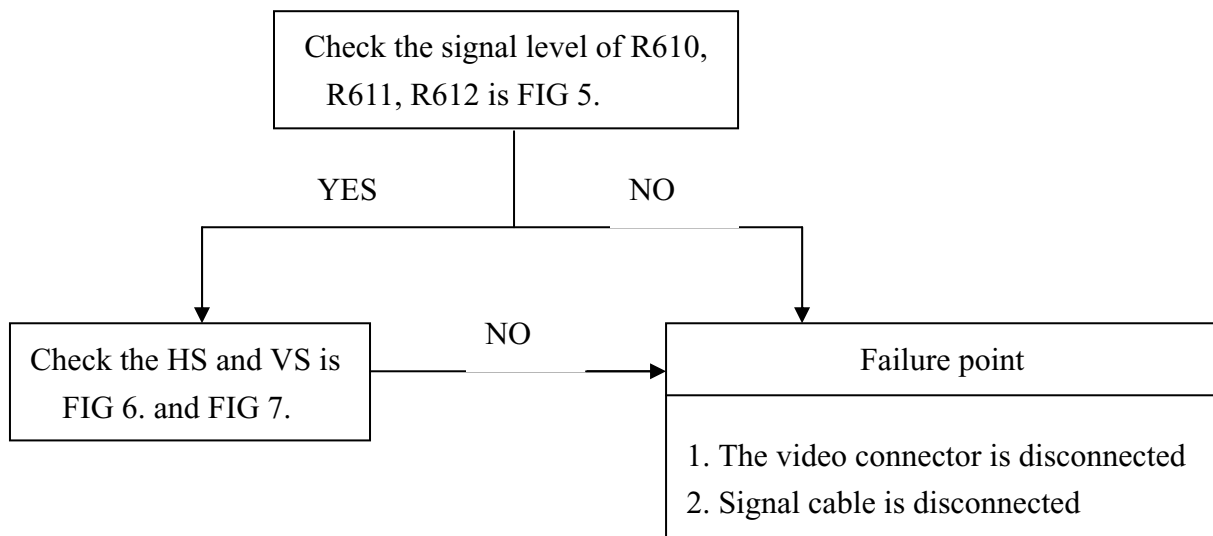


5. No Sound (Test signal: 1r.m.s sine waveform)

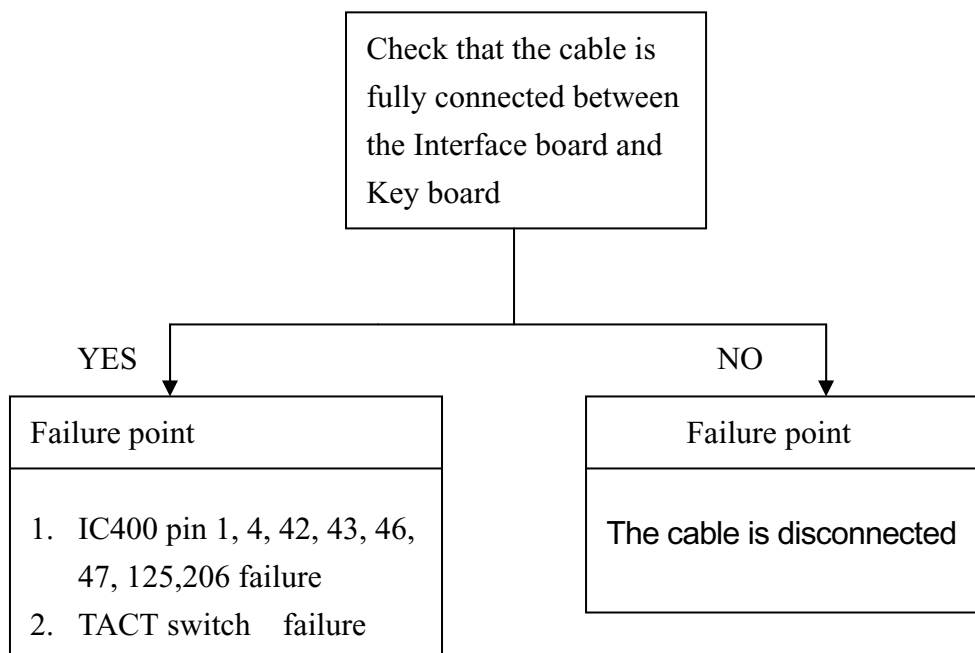


6. Show “No Signal” on screen

(Test pattern: 32 gray 1280X1024 60HZ)



7. Keypad can not work



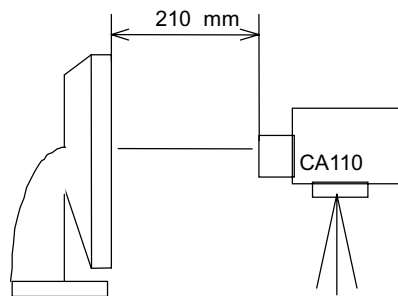
5. Adjust Procedure

CONTENTS

- A. INSTRUMENT ALIGNMENT
 - 1. PREPARATION OF MANUAL ALIGNMENT
 - 2. COLOR TEMPERATURE ALIGNMENT
 - 3. FACTORY PRESET SETTING

1. PREPARATION OF MANUAL ALIGNMENT

- 1.1 THE ALIGNMENT PROCEDURE IS PERFORMED AFTER UNIT HAS BEEN COMPLETELY ASSEMBLED AND BEFORE SET INSPECTION.
- 1.2 BEFORE ALIGNMENT, SET SHOULD BE BURNED-IN FOR OVER 30MIN.
- 1.3 MEASURING EQUIPMENT USED
PRE-PROGRAMMED CHROMA 2226 OR EQUIVALENT PRODUCTS.
COLOR METER-- MINOLTA CA210 OR EQUIVALENT PRODUCTS.



1.4 METHOD TO ENTER/EXIT FACTORY MODE



- 1.4.1 PRESS "2" AND "DOWN" KEY AND POWER ON TO SET THE MONITOR TO THE BURN-IN MODE.
- 1.4.2 PRESS "VOL-" AND "1" KEY AND POWER ON TO SET THE MONITOR TO THE FACTORY MODE.
- 1.4.3 TO ENSURE THE MONITOR IS UNDER FACTORY MODE, CHECK THE STATUS IN THE OSD MENU SCREEN.

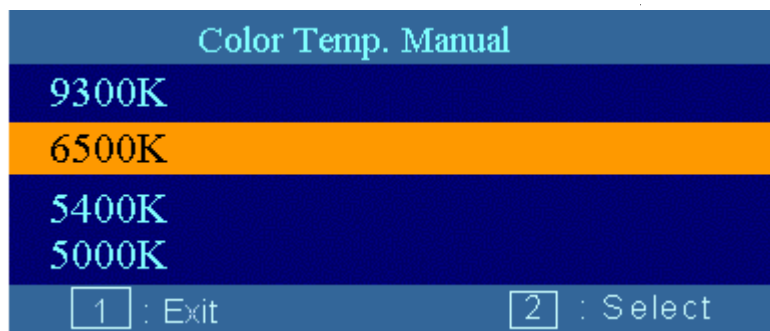
OTHERWISE, FOLLOW THE PROCEDURE

DESCRIBED IN SESSION 1.4.1 TO ENTER THE FACTORY MODE AGAIN

- 1.4.3 UNDER FACTORY MODE, PRESS “POWER” KEY. THE MONITOR WILL EXIT FACTORY MODE AND ENTER NORMAL DISPLAY MODE.

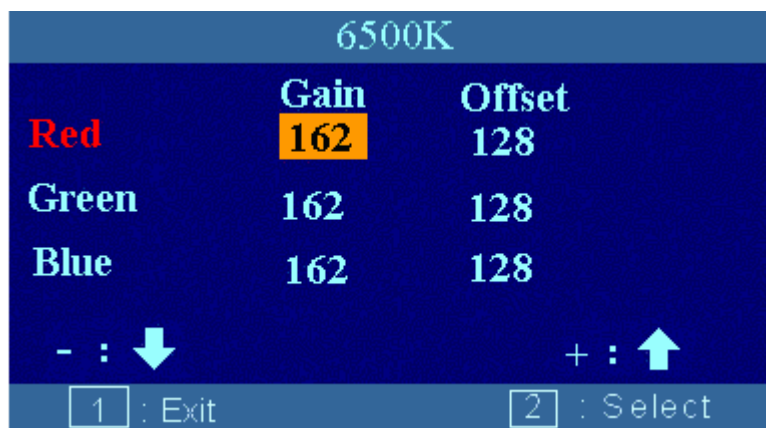
1.5 METHOD TO ENTER/EXIT MANUAL COLOR ALIGNMENT MENU

UNDER FACTORY MODE, SELECT COLOR TEMP MANUAL. ITEM ON FACTORY OSD MENU. IT WILL DISPLAY THE FOLLOWING COLOR TEMPERATURE ADJUST MENU.



USE “UP” AND “DOWN” TO MOVE CURSOR BETWEEN ITEMS “9300”, “6500”, “5400” AND “5000”. PRESS “2” TO SELECT WHICH COLOR TEMPERATURE TO BE ADJUSTED. IT WILL SHOW FOLLOWING MENU.

USE “2” KEY TO SWITCH R, G, B, DRIVER. “UP” OR “DOWN” KEY TO ADJUST THE R, G, B VALUE CORRESPONDING TO THE SELECTED ITEM.



2. COLOR TEMPERATURE ALIGNMENT

BEFORE MANUALLY ADJUSTING COLOR TEMPERATURE , SET OSD CONTRAST 80%, BRIGHTNESS 100% (FACTORY DEFAULT), ENTER INTO FACTORY MODE AND SELECT “COLOR TEMP. MANUAL” ITEM

2.1 9300 ° K ALIGNMENT

2.1.1 USE “UP” OR “DOWN” KEY TO MOVE CURSOR TO 9300 COLOR TEMPERATURE. THEN PRESS “2” KEY TO SELECT 9300 COLOR TEMPERATURE ADJUSTMENT.

2.1.2 USE “2” TO MOVE CURSOR TO R-DRIVER OR G-DRIVER OR B-DRIVER AND THEN PRESS “UP” OR “DOWN” KEY TO ADJUST IT TO MEET FOLLOWING CHROMATICITY SPEC.

$$9300\text{ }^{\circ}\text{K} \rightarrow x = 0.283 \pm 0.003, y = 0.298 \pm 0.003 \quad Y \geq 150\text{CD/M}^2.$$

2.1.3 PRESS “1” TO EXIT 9300 COLOR TEMPERATURE ADJUSTMENT AND DO ANOTHER COLOR TEMPERAUTE ADJUSTMENT.
THE ABOVE RESULT R.G.B GAIN WILL AUTOMATICALLY BE SAVED, WHEN EXITING THE FACTORY MODE OSD MENU.

2.2 6500 ° K ALIGNMENT

2.2.1 USE “UP” OR “DOWN” KEY TO MOVE CURSOR TO 6500 COLOR TEMPERATURE. THEN PRESS “2” KEY TO SELECT 6500 COLOR TEMPERATURE ADJUSTMENT.

2.2.2 USE “2” TO MOVE CURSOR TO R-DRIVER OR G-DRIVER OR B-DRIVER AND THEN PRESS “UP” OR “DOWN” KEY TO ADJUST IT TO MEET FOLLOWING CHROMATICITY SPEC.

$$6500\text{ }^{\circ}\text{K} \rightarrow x = 0.313 \pm 0.003, y = 0.329 \pm 0.003 \quad Y \geq 180\text{CD/M}^2.$$

2.2.3 PRESS “1” TO EXIT 6500 COLOR TEMPERATURE ADJUSTMENT AND DO ANOTHER COLOR TEMPERAUTE ADJUSTMENT.
THE ABOVE RESULT R.G.B GAIN WILL AUTOMATICALLY BE SAVED, WHEN EXITING THE FACTORY MODE OSD MENU.

2.3 5400 °K ALIGNMENT

2.3.1 USE “UP” OR “DOWN” KEY TO MOVE CURSOR TO 5400 COLOR TEMPERATURE. THEN PRESS “2” KEY TO SELECT 5400 COLOR TEMPERATURE ADJUSTMENT.

2.3.2 USE “2” TO MOVE CURSOR TO R-DRIVER OR G-DRIVER OR B-DRIVER AND THEN PRESS “UP” OR “DOWN” KEY TO ADJUST IT TO MEET FOLLOWING CHROMATICITY SPEC.

$$5400\text{ }^{\circ}\text{K} \rightarrow x = 0.332 \pm 0.003, y = 0.348 \pm 0.003 \quad Y \geq 180\text{CD/M}^2.$$

2.3.3 PRESS “1” TO EXIT 5400 COLOR TEMPERATURE ADJUSTMENT AND DOES ANOTHER COLOR TEMPERAUTE ADJUSTMENT.
THE ABOVE RESULT R.G.B GAIN WILL AUTOMATICALLY BE SAVED,
WHEN EXITING THE FACTORY MODE OSD MENU.

2.4 5000 °K ALIGNMENT

2.4.1 USE “UP” OR “DOWN” KEY TO MOVE CURSOR TO 5000 COLOR TEMPERATURE. THEN PRESS “2” KEY TO SELECT 5000 COLOR TEMPERATURE ADJUSTMENT.

2.4.2 USE “2” TO MOVE CURSOR TO R-DRIVER OR G-DRIVER OR B-DRIVER AND THEN PRESS “UP” OR “DOWN” KEY TO ADJUST IT TO MEET FOLLOWING CHROMATICITY SPEC.

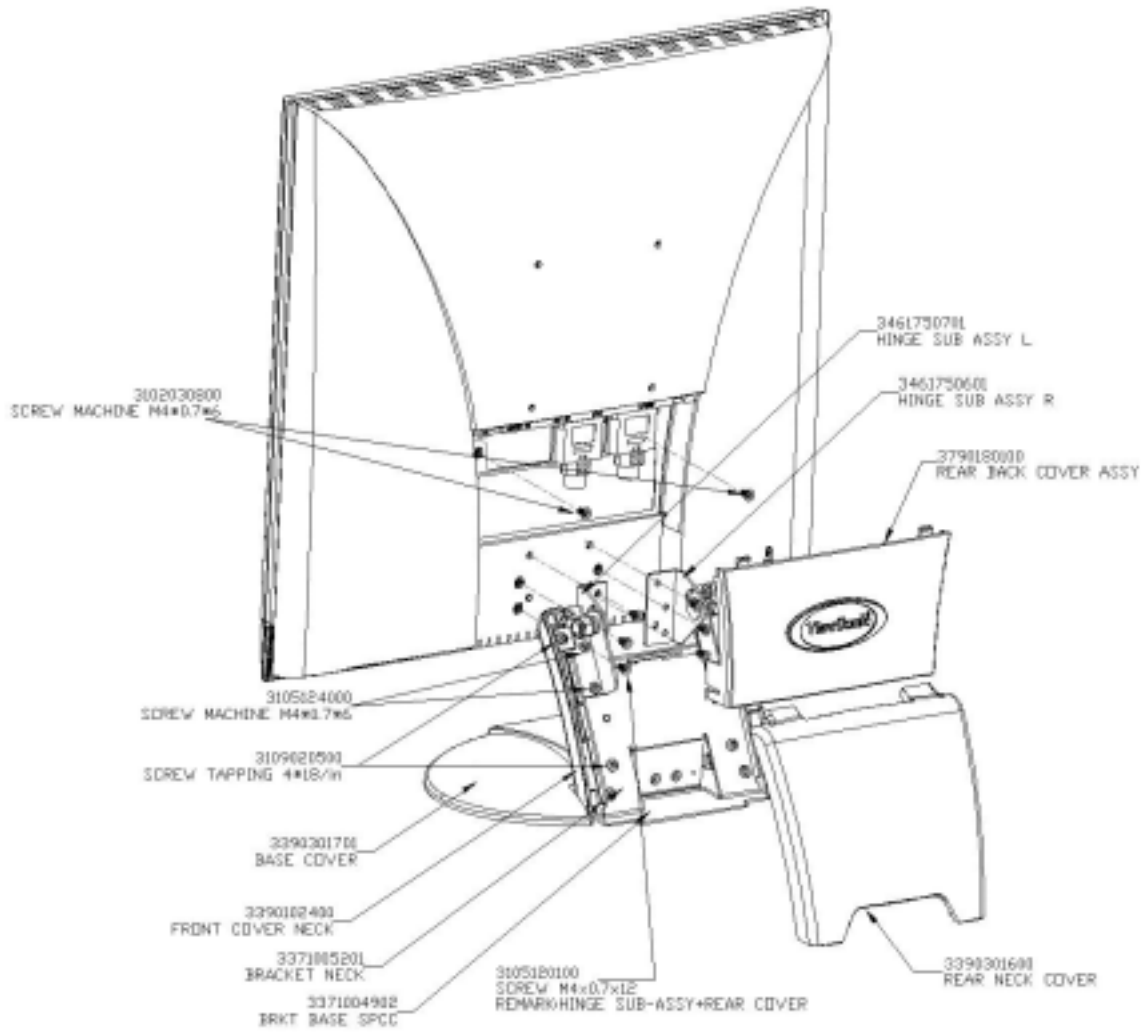
$$5000\text{ }^{\circ}\text{K} \rightarrow x = 0.346 \pm 0.003, y = 0.359 \pm 0.003 \quad Y \geq 180\text{CD/M}^2.$$

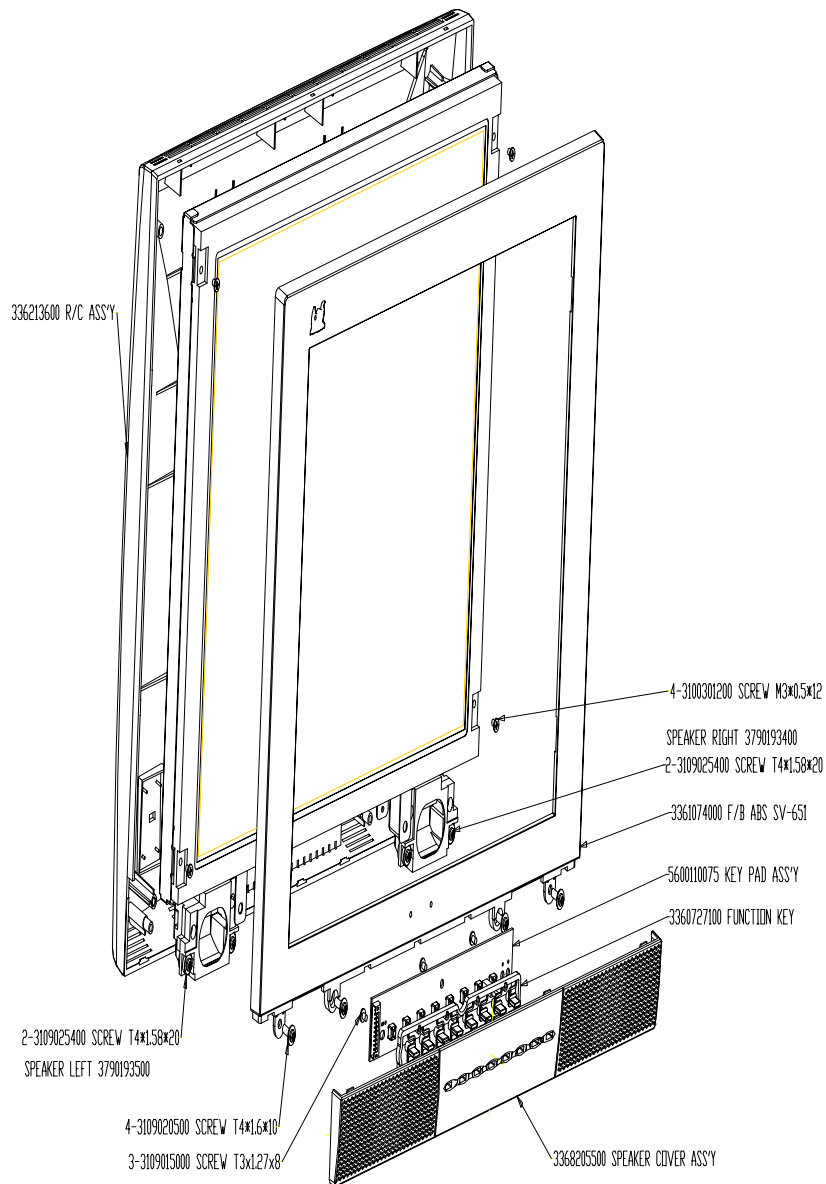
2.4.3 PRESS “1” TO EXIT 5000 COLOR TEMPERATURE ADJUSTMENT AND DOES ANOTHER COLOR TEMPERAUTE ADJUSTMENT.
THE ABOVE RESULT R.G.B GAIN WILL AUTOMATICALLY BE SAVED,
WHEN EXITING THE FACTORY MODE OSD MENU.

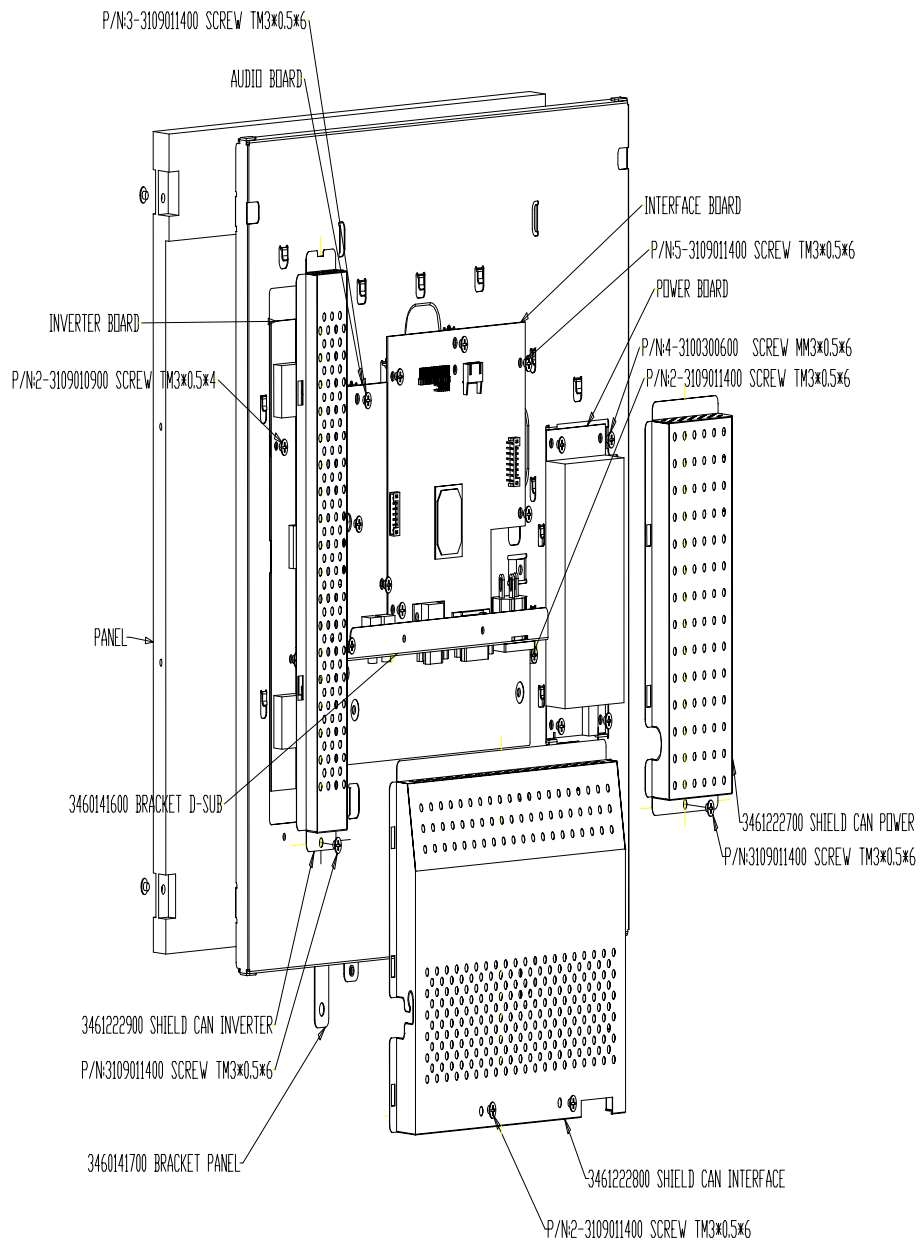
3. FACTORY PRESET SETTING

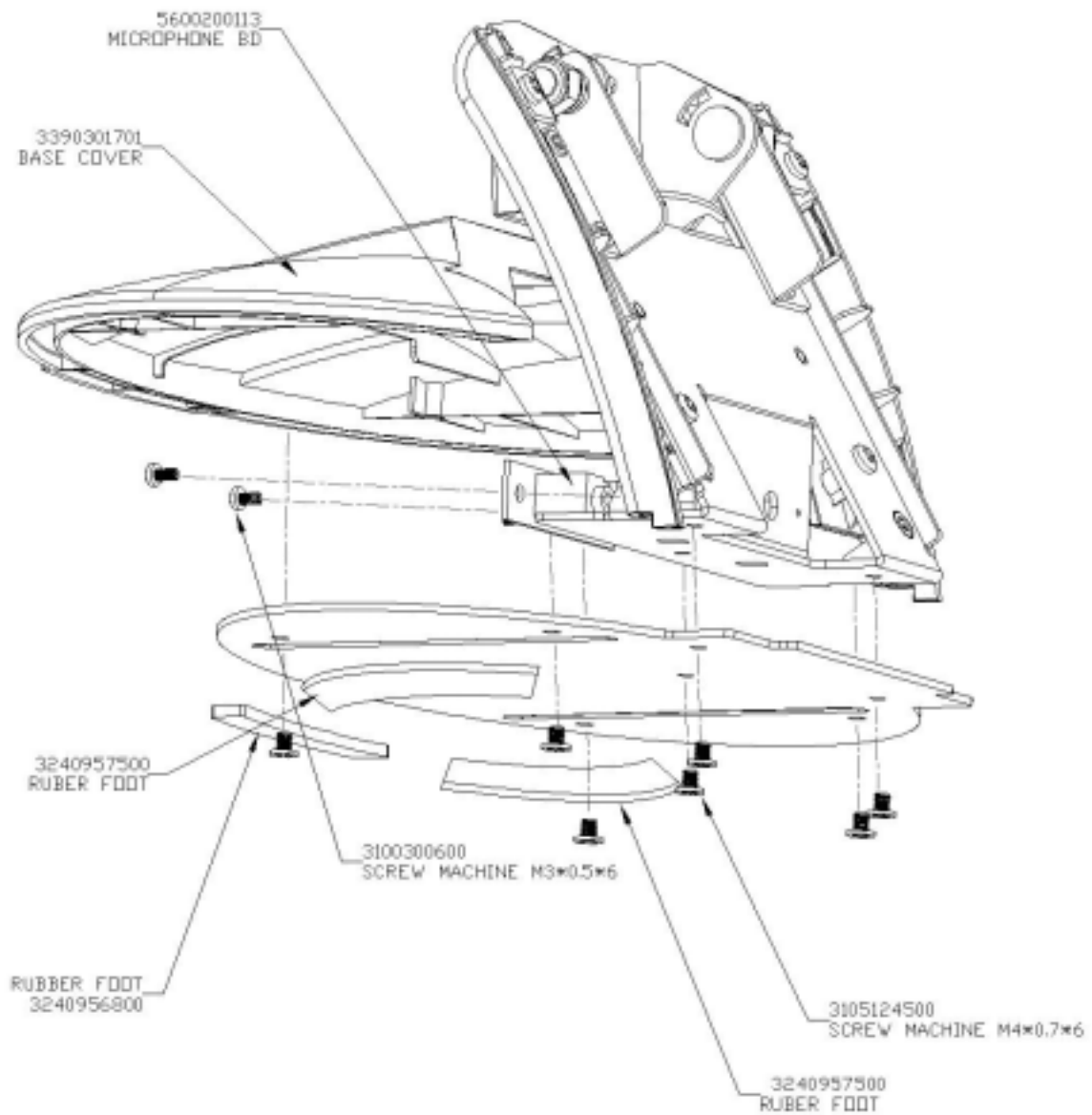
3.1 IN FACTORY MODE OSD MAIN MENU, SELECT FACTORY DEFAULT SETTING. PRESS “2” TO COFIRM THE SELECTION.

6. Mechanical Assembly





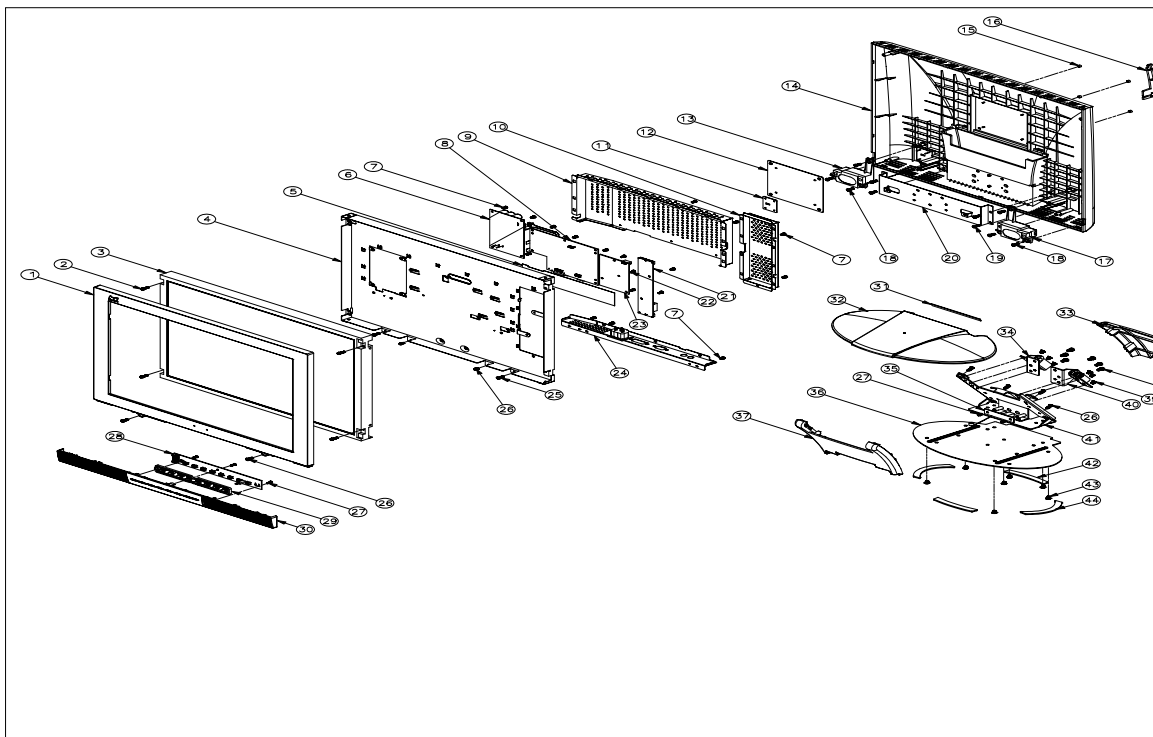




VX900-2 MECHANICAL PARTS LIST

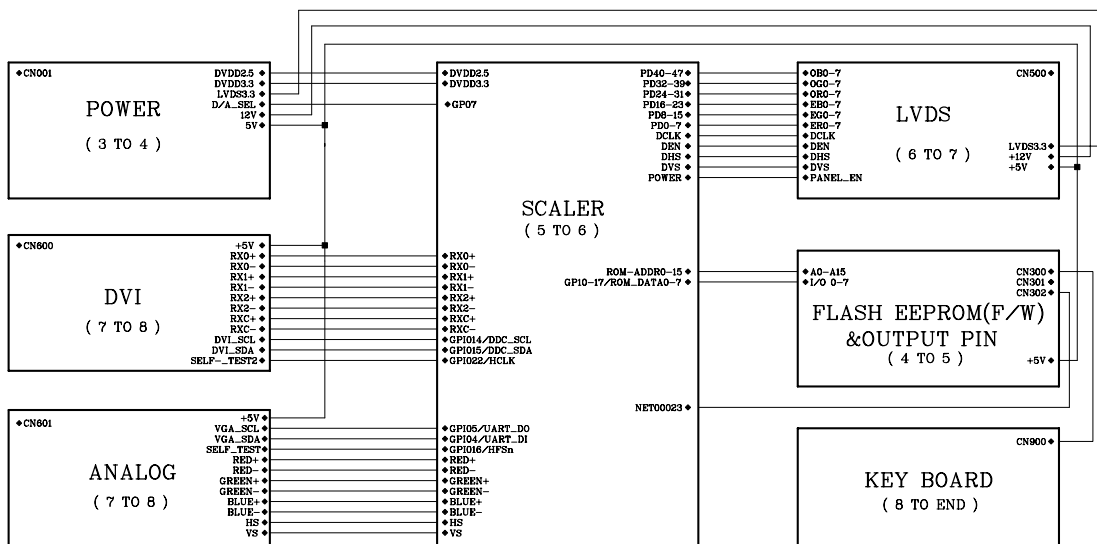
No.	VSC PART	DELTA PartNo	DELTA DESCRIPTION	
1	C-FP-0301-0813	3361073800	FRONT BEZEL	
2	M-SCW-0824-0433	3100301200	SCREW M3*0.5*12 PAN C S+P S20C	
3	M-LCD-0826-0123	5051900022	LCD 19" TFT PANEL LVDS	
4	M-MH-0822-0009	3460141400	BRACKET PANEL SECC 417.6*338.6	
5	M-MS-0808-8607	3240659800	INSULATOR FR700 PC T1 BLACK	
6	B-PS-0204-0052	993026502	POWER BD	
7	M-SCW-0824-0413	3109011400	SCREW T M3*0.5*6 BIND C S18C ZN	
8	B-IF-0222-0035	5600110057	I/F BS ASSY	
9	M-MS-0808-8611	3460141501	SHIELD CAN SPTE 316.9*150.8 T0.3	
10	M-CV-0830-2392	3461224700	SHIELD CAN I/V SPTE 228.4*73.2	
11	M-MH-0822-0004	3371005701	BRACKET KENSINGTON SECC T=1.2	
12	M-MH-0822-0002	3371005500	BRACKET VESA MOUNTING SECC T=1	
13	E-SK-0412-0071	3790193500	SPEAKER-L ASSY	
14	C-BC-0302-0480	3360240300	CABINET BACK	
15	M-MS-0808-8608	3240956400	RUBBER HOLD PLUG OD4.9 H3.2 BLK	
16	C-BC-0302-0482	3368213700	R/C ASSY	
17	E-SK-0412-0070	3790193400	SPEAKER-R ASSY	
18	M-SCW-0824-0733	3109026000	SCREW TAPPINGφ4*1.27*12 FPH C S18C	
19	M-SCW-0824-0412	3109020400	SCREW TAPPINGφ4*1.6*8 PAN C S18C ZN	
20	M-MS-0808-8161	3371005601	BRACKET R/C SECC T=1.2MM	
21	B-SB-0221-0449	4900502600	I/V BD	
22	M-SCW-0824-0007	3109010100	SCREW Tφ3*0.5*8 BIND C A18C	
23	B-AC-0215-0038	5600110046	AUDIO BD ASSY	
24	M-MH-0822-0008	3460141300	BRACKET D-SUB SECC 296.8*46 T0.8	
25	M-SCW-0824-0412	3109020400	SCREW TAPPINGφ4*1.6*10 PAN C S18C	
26	M-SCW-0824-0410	3100300600	SCREW M3*0.5*6 PAN C S+P S20C	
27	M-SCW-0814-0694	3109015000	SCREW TAPPINGφ3*1.27*8 PAN C S20C	
28	B-KB-0207-0031	5600110067	K/B ASSY	
29	PL-FK-0709-0114	3360727100	FUNCTION KEY	
30	M-CV-0830-2389	3361204300	SPEAKER COVER	
31	M-MS-0808-8157	3240957400	SPONGE PU FOAM 100*7 T1	
32	M-CV-0830-2384	3361204500	COVER BASE	
33	M-CV-0830-2382	3360916400	ARM REAR	
34	M-MS-0808-8612	3461750602	HINGE SUB ASSY R	
35	A-MC-0105-0018	990601015	MICROPHONE ASSY	
36	M-MS-0808-8159	3371004902	BRACKET BASE SPCC T=2 ZN BLK	BRACKET BASE SPCC T=2 ZN BLK
37	M-MS-0808-8609	3369016300	ARM FRONT	ARM FRONT
38	M-SCW-0814-0691	3105120100	SCREW M4*0.7*12 PAN C S+P S18C	SCREW M4*0.7*12 PAN C S+P S18C
39	M-SCW-0814-0692	3105124000	SCREW M4*0.7*6 NI PAN C S18C NI	SCREW M4*0.7*6 NI PAN C S18C NI
40	M-MS-0808-8613	3461750702	HINGE SUB ASSY L	HINGE SUB ASSY L
41	M-MS-0808-8610	3371005203	BRACKET HINGE SPCC 128*156	BRACKET HINGE SPCC 128*156
42	PL-PD-0714-0067	3240956800	RUBBER FOOT 81*13	RUBBER FOOT 81*13
43	M-SCW-0814-0693	3105124500	SCREW M4*0.7*6 FF C S18C ZN	SCREW M4*0.7*6 FF C S18C ZN
44	PL-PD-0714-0068	3240957500	RUBBER FOOT 75*10	RUBBER FOOT 75*10

7. Explode Diagram



Sechmatic Daigrams

L19EMW 05AAW



Date: 02-11-2003	LY REV: 001	Drawn: LPCHANG	Checked	Approved	PART NO.	REV.	SHEET
035501-0	FILE NAME: L19E		Jerry Chiu	Tom Wang	L19EMW 05AAW	001	1 TO 2
DESCRIPTION: SCHEMATIC OF LCD MONITOR			01-16-2003	01-16-2003			

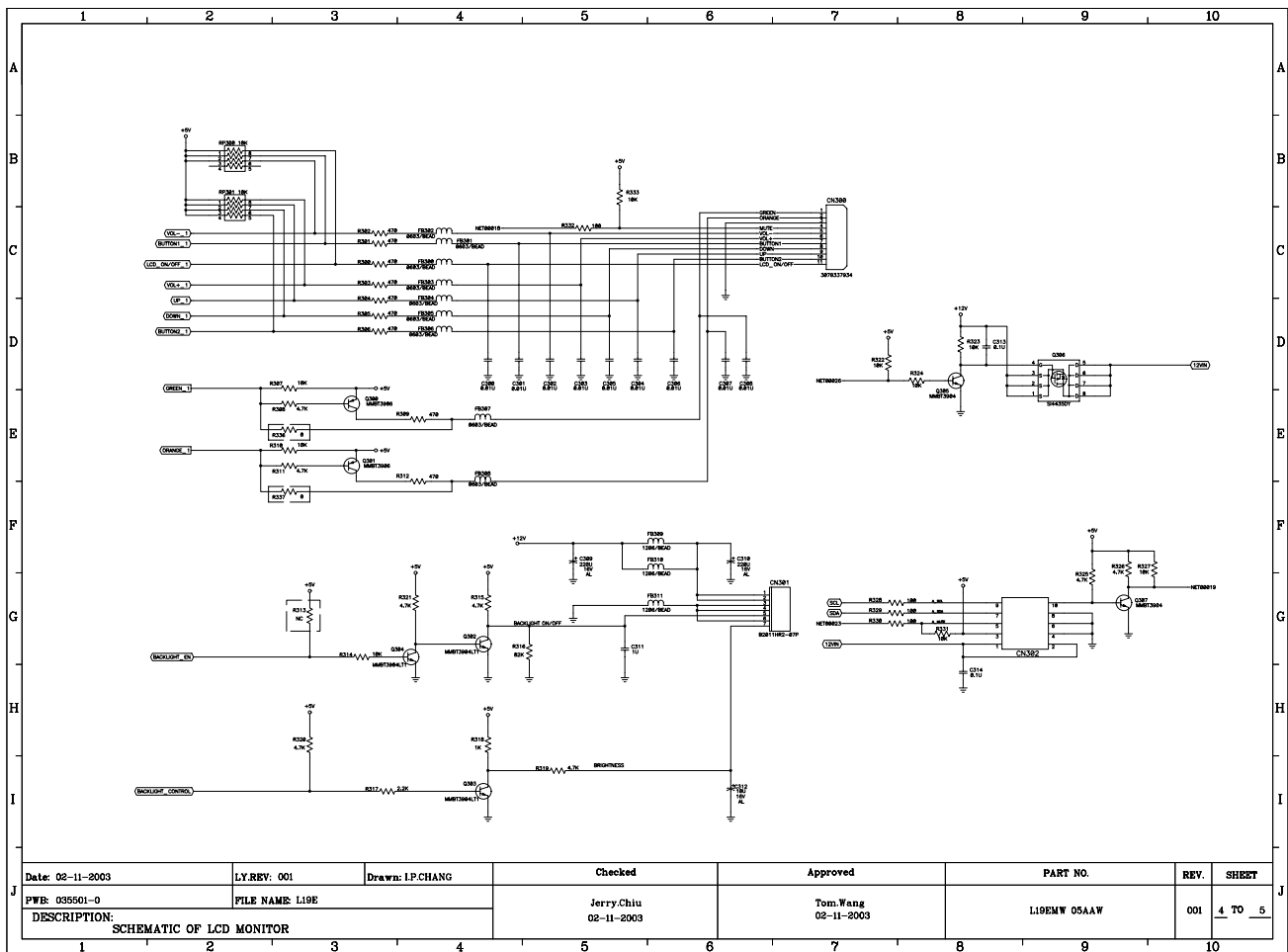
Frame Name: FR0-1R00.TTL*

ViewSonic Corporation

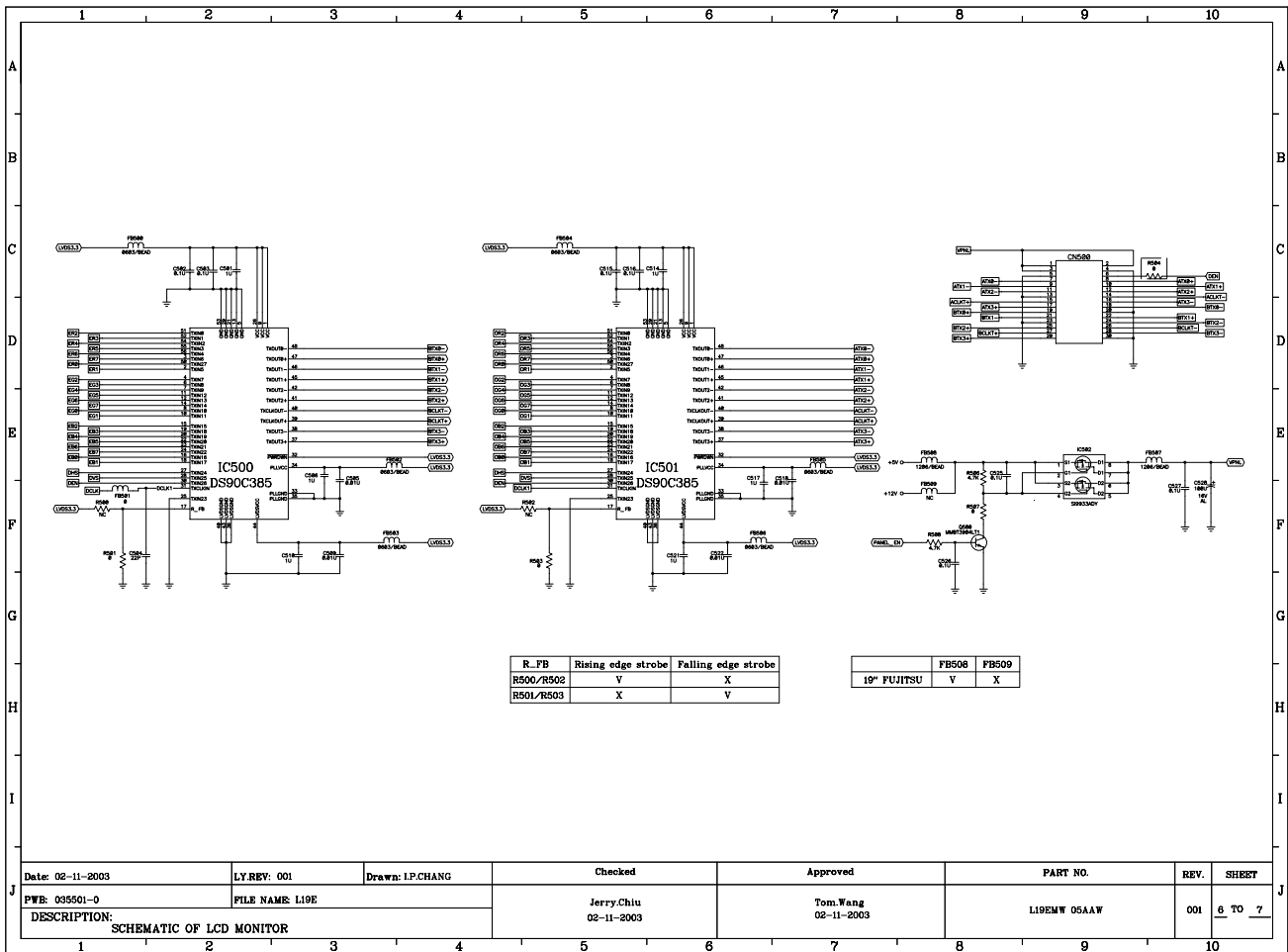
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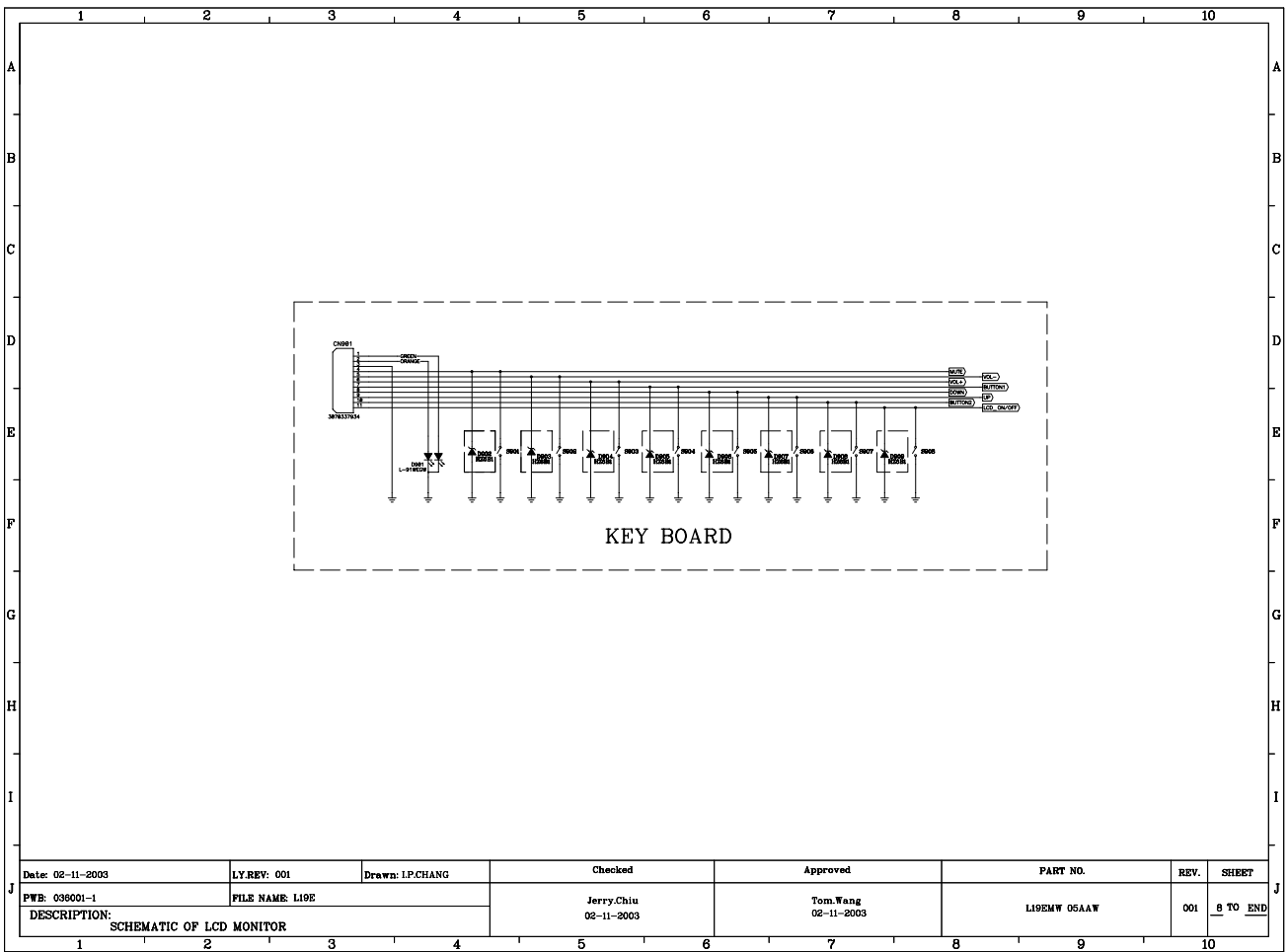
VX900-2



Frame Name:FR9-1R00.TTL*

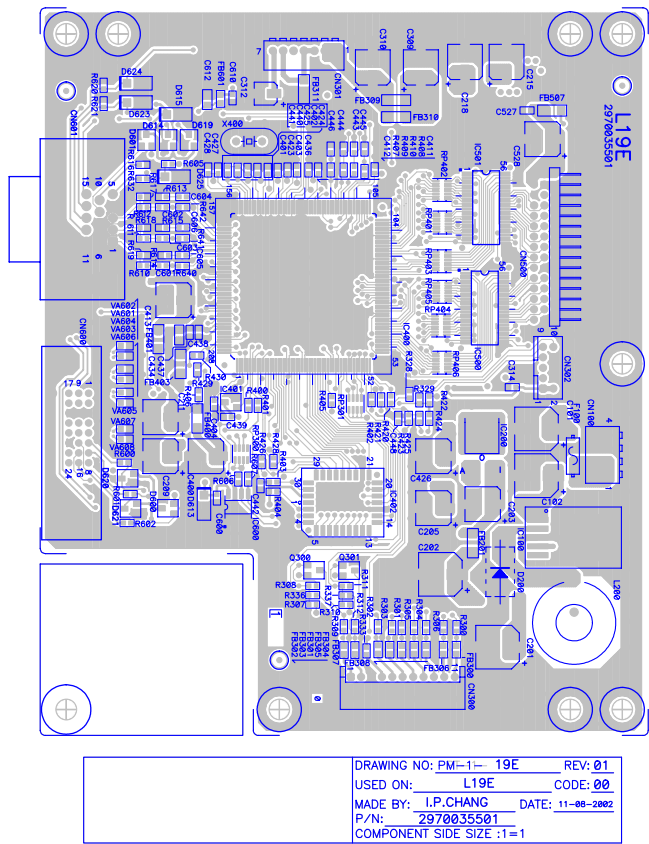


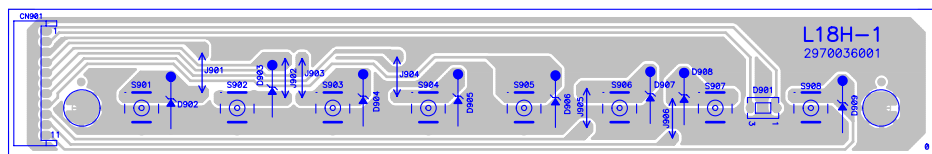
Frame Name:FR9-1R00.TTL*



Frame Name:FR9-1R00.TTL*

PCB Layout





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MADE BY: BETTY LEE DATE: 11-05-2002 P/N: 2970036001	COMPONENT SIDE SIZE: 1=1

Recommended Spare Parts List

VX900-2

NO.	VIEWSONIC P/N	REFERENCE	DESCRIPTION	REMARKS
1	A-AD-0114-0182	0993026502	POWER 90-264VAC 12VDC 5A COMPUTER USE	
2	A-PC-0106-0193	3070000501	AC POWER CORD L1800 BLACK EURO	
3	A-AU-0120-0033	3080005100	CABLE AUDIO L=1800 BLK PC99	
4	A-MC-0105-0017	3080005200	CABLE MICPHONE L=1800 BLK PC99	
5	M-MS-0808-8033	3080412101	CABLE D-SUB TO D-SUB RGB BLK L	
6	M-MS-0808-8041	3080412401	CABLE DVI-D/DVI-D SINGLE LINK	
7	A-PC-0106-0229	3090119001	AC POWER CORD L1830 BLACK US	
8	M-SCW-0824-0410	3100300600	SCREW M M3*0.5*6 PAN C S+P S20	MICROPHONE BOARD+ BRKT NECK
9	M-SCW-0824-0410	3100300600	SCREW M M3*0.5*6 PAN C S+P S20	PANEL BRKT+BACK CABINET
10	M-SCW-0824-0433	3100301200	SCREW M M3*0.5*12 PAN C S+P S2	PANEL/COVER LCD ASS'Y+R/C
11	M-SCW-0824-0433	3100301200	SCREW M M3*0.5*12 PAN C S+P S2	PANEL+COVER LCD
12	M-SCW-0824-0734	3102710800	SCREW M M4*0.7*8 PAN C S S18C	AC SOCKET GNED WIRE
13	M-SCW-0824-0690	3105051501	SCREW M #4-40*7 HEXH #4-40*3 S	CONN. D-SUB
14	M-SCW-0824-0690	3105051501	SCREW M #4-40*7 HEXH #4-40*3 S	CONN. DVI-D
15	M-SCW-0814-0691	3105120100	SCREW M M4*0.7*12 PAN C S+P S1	HINGE SUB ASSY+REAR COVER
16	M-SCW-0814-0692	3105124000	SCREW M M4*0.7*6 PAN C S18C NI	HINGE SUB ASSY+BKT NECK
17	M-SCW-0814-0693	3105124500	SCREW M M4*0.7*6 FF C S18C ZN	NECK SUB ASSY+BTTM COVER +BASE COVER
18	M-SCW-0814-0693	3105124500	SCREW M M4*0.7*6 FF C S18C ZN	NECK BRKT+BRKT BTTM
19	M-SCW-0824-0007	3109010100	SCREW T $\phi 3 \times 0.5 \times 8$ BIND C S18C	AUDIO BD+ICA3
20	M-SCW-0824-0413	3109011400	SCREW T M3*0.5*6 BIND C S18C Z	AUDIO+PANEL BKT
21	M-SCW-0824-0413	3109011400	SCREW T M3*0.5*6 BIND C S18C Z	I/V+PANEL BKT
22	M-SCW-0824-0413	3109011400	SCREW T M3*0.5*6 BIND C S18C Z	I/F+PANEL BKT
23	M-SCW-0824-0413	3109011400	SCREW T M3*0.5*6 BIND C S18C Z	D-SUB BKT+PANEL BKT
24	M-SCW-0824-0413	3109011400	SCREW T M3*0.5*6 BIND C S18C Z	I/V SHIELD CAN+PANEL BKT
25	M-SCW-0824-0413	3109011400	SCREW T M3*0.5*6 BIND C S18C Z	SHIELD CAN +D-SUB BKT
26	M-SCW-0824-0413	3109011400	SCREW T M3*0.5*6 BIND C S18C Z	POWER BD+PANEL BKT
27	M-SCW-0814-0694	3109015000	SCREW T $\phi 3 \times 1.27 \times 8$ PAN C S20C	K/B+SPEAKER COVER
28	M-SCW-0824-0412	3109020400	SCREW T $\phi 4 \times 1.6 \times 8$ PAN C S18C Z	R/C+BRKT R/C
29	M-SCW-0824-0620	3109020500	SCREW T $\phi 4 \times 1.6 \times 10$ PAN C S18C	BACK CABINET+FRONT CABINET
30	M-SCW-0824-0620	3109020500	SCREW T $\phi 4 \times 1.6 \times 10$ PAN C S18C	BACK CABINET+PANEL BRKT
31	M-SCW-0824-0733	3109026000	SCREW T $\phi 4 \times 1.27 \times 12$ FPH C S18C	NECK F/C PC/ABS+BRKT NECK
32	M-MS-0808-8040	3110250000	WASHER SPRING SWRT	CONN. D-SUB
33	M-MS-0808-8040	3110250000	WASHER SPRING SWRT	CONN. DVI-D
34	M-LB-0813-0712	3200449700	LABEL WARING	AIR SHIPPING
35	M-MS-0808-4686	3200462800	NAME PLATE AL+PC VSC 3-BIRD LO	F/B
36	M-MS-0808-8151	3200641801	NAME PLATE AL 43*6.9*1.15T VIE	F/B
37	M-MS-0808-7739	3200648800	NAME PLATE ABS 94HB VIEWSONIC	
38	M-LB-0813-0759	3200930800	LABEL VER. CONTROL 20*20 VIEWS	
39	M-LB-0813-0760	3201942600	LABEL ID 160*43 VSC VX900-2	
40	M-LB-0813-0700	3202207300	LABEL MIC IN 10.2*15	BRACKET NECK
41	M-MS-0808-8303	3211024500	MYLAR 435*350 T.2	FRONY BEZEL
42	C-BC-0302-0480	3360240300	CABINET BACK ABS 41 VX900	
43	C-BC-0302-0481	3360240700	R/C ABS 41 VX900	

44	PL-FK-0709-0114	3360727100	FUNCTION KEY ABS VSC02B S7LFA1	
45	M-CV-0830-2381	3360916300	ARM FRONT ABS 41 VX700-2	
46	M-CV-0830-2382	3360916400	ARM REAR ABS 41 VX700-2	
47	C-FP-0301-0813	3361073800	F/B ABS 5140 VX900	
48	M-CV-0830-2389	3361204300	COVER SPEAKER ABS VSC02B VX900	
49	M-CV-0830-2384	3361204500	COVER BASE ABS 41 VX700-2	
50	M-CV-0830-2390	3368205400	SPEAKER COVER ASSY L19EMW05AAW	
51	C-BC-0302-0482	3368213700	R/C ASSY L19EMW05AAW	
52	M-MS-0808-8159	3371004902	BRKT BASE SPCC T=2 ZN BLK	
53	M-MS-0808-8160	3371005202	BRACKET MECK SPCC T=2 ZN BLUE	
54	M-MH-0822-0002	3371005500	BRACKET VESA MOUNTING SECC T=1	FOR CABINET BACK
55	M-MS-0808-8161	3371005601	BRACKET R/C SECC T=1.2MM	
56	M-MH-0822-0004	3371005701	BRACKET KENSINGTON SECC T=1.2	FOR CABINET BACK
57	M-MS-0808-8162	3421024500	CABLE CLAMP GROUNDING SPCC T.3	K/B WIRE+PANEL BRKT
58	M-MH-0822-0008	3460141300	BRACKET D-SUB SECC 296.8*46 T0	
59	M-MH-0822-0009	3460141400	BRACKET PANEL SECC 417.6*338.6	
60	M-CV-0830-2391	3460141500	SHIELD CAN SPTE 316.9*150.8 T0	
61	M-MH-0822-0007	3460144800	BRACKET CONN SECC 41.7*30 T0.6	PANEL+WIRE3670184200
62	M-CV-0830-2392	3461224700	SHIELD CAN I/V SPTE 228.4*73.2	
63	M-MS-0808-8163	3461750601	HINGE SUB ASSY R	
64	M-MS-0808-8164	3461750701	HINGE SUB ASSY L	
65	P-FM-0602-0814	3500084101	CUSHION B EPS 550*245*190	
66	P-FM-0602-0815	3500084201	CUSHION T EPS 550*245*190	
67	P-BX-0601-0779	3512235200	CARTON 565*260*525 VSC VX900-2	3% for spare parts
68	M-MS-0808-7743	3532059900	MANUAL PACKING ASSY VSC VX900-	
69	A-CD-VX900-2	3532060000	CD-ROM VSC A-CD-VX900-2	A-CD-VX900-2
70	M-WR-0828-0685	3610170800	AC SOCKET ASSY L19EMW05AAW L15	
71	M-WR-0828-0686	3670184200	WIRE WITH HOUSING 20276 #30 L2	PANEL TO I/F
72	M-WR-0828-0687	3670190200	WIRE WITH HOUSING 1007 #28 L55	K/F TO I/F
73	M-WR-0828-0682	3670190400	WIRE WITH HOUSING 1007 #28 L12	AUDIO TO I/F
74	M-WR-0828-0641	3670459102	WIRE WITH HOUSING 1007 #28 L=4	TO AUDIO BD+SPKR
75	E-SK-0412-0070	3790193400	SPEAKER-R ASSY L17KMW05AAW	
76	E-SK-0412-0071	3790193500	SPEAKER-L ASSY L17KMW05AAW	
77	B-SB-0221-0449	4900502600	DC-AC INVERTER 12V/1900V 4L 19	
78	M-MS-0808-7744	5011086500	MANUAL QUICK START GUIDE VSC V	
79	M-LCD-0826-0123	5051900022	LCD 19" TFT PANEL LVDS SXGA	
80	B-AC-0215-0038	5600110046	LCD AUDIO BD ASSY L19EMW 05AAW	
81	B-IF-0222-0035	5600110057	LCD I/F BD ASSY L19EMW 05AAW	
82	B-KB-0207-0031	5600110067	LCD FUN KEY BD ASSY L19EMW 05A	
83	B-SB-0221-0450	5600200113	MICROPHONE BD A	

Complete Parts List

ViewSonic Model Name: VX900-2

ITEM	VIEWSONIC P/N	REFERENCE	MFG PART	DESCRIPTION	QTY	UNIT
1	A-AD-0114-0182	0993026502	ADP-60AF A	ADAPTER 90-264VAC 12VDC 5A	1	PCE
2	A-PC-0106-0193	3070000501	WP201-WTP-003	AC POWER CORD L1800 BLACK EURO	1	PCE
3	A-AU-0120-0033	3080005100		CABLE AUDIO L=1800 BLK PC99	1	PCE
4	A-MC-0105-0017	3080005200		CABLE MICPHONE L=1800 BLK PC99	1	PCE
5	M-MS-0808-8033	3080412101		CABLE D-SUB TO D-SUB RGB BLK L	1	PCE
6	M-MS-0808-8041	3080412401		CABLE DVI-D/DVI-D SINGLE LINK	1	PCE
7	A-PC-0106-0229	3090119001		AC POWER CORD L1830 BLACK US	1	PCE
8	M-SCW-0824-0410	3100300600		SCREW M M3*0.5*6 PAN C S+P S20	2	PCE
9	M-SCW-0824-0410	3100300600		SCREW M M3*0.5*6 PAN C S+P S20	2	PCE
10	M-SCW-0824-0433	3100301200		SCREW M M3*0.5*12 PAN C S+P S2	2	PCE
11	M-SCW-0824-0433	3100301200		SCREW M M3*0.5*12 PAN C S+P S2	2	PCE
12	M-SCW-0824-0734	3102710800		SCREW M M4*0.7*8 PAN C S S18C	1	PCE
13	M-SCW-0824-0690	3105051501		SCREW M #4-40*7 HEXH #4-40*3 S	2	PCE
14	M-SCW-0824-0690	3105051501		SCREW M #4-40*7 HEXH #4-40*3 S	2	PCE
15	M-SCW-0814-0691	3105120100		SCREW M M4*0.7*12 PAN C S+P S1	6	PCE
16	M-SCW-0814-0692	3105124000		SCREW M M4*0.7*6 PAN C S18C NI	6	PCE
17	M-SCW-0814-0693	3105124500		SCREW M M4*0.7*6 FF C S18C ZN	4	PCE
18	M-SCW-0814-0693	3105124500		SCREW M M4*0.7*6 FF C S18C ZN	3	PCE
19	M-SCW-0824-0007	3109010100		SCREW T φ3*0.5*8 BIND C S18C	1	PCE
20	M-SCW-0824-0413	3109011400		SCREW T M3*0.5*6 BIND C S18C Z	3	PCE
21	M-SCW-0824-0413	3109011400		SCREW T M3*0.5*6 BIND C S18C Z	2	PCE
22	M-SCW-0824-0413	3109011400		SCREW T M3*0.5*6 BIND C S18C Z	5	PCE
23	M-SCW-0824-0413	3109011400		SCREW T M3*0.5*6 BIND C S18C Z	3	PCE
24	M-SCW-0824-0413	3109011400		SCREW T M3*0.5*6 BIND C S18C Z	1	PCE
25	M-SCW-0824-0413	3109011400		SCREW T M3*0.5*6 BIND C S18C Z	3	PCE
26	M-SCW-0824-0413	3109011400		SCREW T M3*0.5*6 BIND C S18C Z	4	PCE
27	M-SCW-0814-0694	3109015000		SCREW T φ3*1.27*8 PAN C S20C	3	PCE
28	M-SCW-0824-0412	3109020400		SCREW T φ4*1.6*8 PAN C S18C Z	4	PCE
29	M-SCW-0824-0620	3109020500		SCREW T φ4*1.6*10 PAN C S18C	2	PCE
30	M-SCW-0824-0620	3109020500		SCREW T φ4*1.6*10 PAN C S18C	2	PCE
31	M-SCW-0824-0733	3109026000		SCREW T φ4*1.27*12 FPH C S18C	4	PCE
32	M-SCW-0824-0733	3109026000		SCREW T φ4*1.27*12 FPH C S18C	4	PCE
33	M-MS-0808-8040	3110250000		WASHER SPRING SWRT	2	PCE
34	M-MS-0808-8040	3110250000		WASHER SPRING SWRT	2	PCE
35	M-LB-0813-0712	3200449700		LABEL WARING	0.13	PCE
36	M-MS-0808-4686	3200462800	DA-1565SB	NAME PLATE AL+PC VSC 3-BIRD LO	1	PCE
37	M-MS-0808-8151	3200641801		NAME PLATE AL 43*6.9*1.15T VIE	1	PCE
38	M-LB-0813-0384	3200712700		LABEL CONTROL 100*90	0.06	PCE
39	M-LB-0813-0551	3200744000		LABEL BAR CODE 55*15 VSC-G	1	PCE
40	M-LB-0813-0696	3200753101		LABEL BAR CODE 76*121 VIEWSONI	1	PCE
41	M-LB-0813-0759	3200930800		LABEL VER. CONTROL 20*20 VIEWS	1	PCE
42	M-LB-0813-0760	3201942600		LABEL ID 160*43 VSC VX900-2	1	PCE
43	M-LB-0813-0700	3202207300		LABEL MIC IN 10.2*15	1	PCE
44	M-LB-0813-0714	3202310700		LABEL HV WARNING 100*25	1	PCE
45	M-MS-0808-8303	3211024500		MYLAR 435*350 T.2	1	PCE
46	M-MS-0808-8202	3220133600	#1350F-1 W=10	TAPE W=10 #1350F-1 3M	0.3	MTR
47	M-MS-0808-6072	3220140600	#1350F-2 W=37	TAPE W=37 #1350F-2 3M	0.07	MTR
48		3220605633	#7290 W=45	TAPE W=45 #7290 NITTO	0.13	MTR
49		3221101900	PP47 W=76 50M	TAPE W=76 PP47 50M 4P	0.8	MTR
50		3221407510	VHB4926 W=7	TAPE W=7 VHB4926 E468	0.19	MTR
51		3240659800		INSULATOR FR700 PC T.4 193*42	1	PCE
52		3240956400		RUBBER HOLD PLUG OD4.9 H3.2 BL	4	PCE
53	PL-PD-0714-0067	3240956800		RUBBER FOOT 81*13*3T BLK	2	PCE
54	PL-PD-0714-0068	3240957500		RUBBER FOOT 75*10 T3	2	PCE
55	M-MS-0808-7754	3343705302		HSK AL T=1.5 21*9	1	PCE
56	C-BC-0302-0480	3360240300		CABINET BACK ABS 41 VX900	1	PCE
57		4020371607	D-180 41	PLASTIC ABS 94HB 41 D-180	815	GRM
58		4020371609	SD-0150 41	PLASTIC ABS 94HB 41 SD-0150	815	GRM
59		4020371614	PA-707 41	PLASTIC ABS 94HB 41 PA-707	815	GRM

60	M-CV-0830-2381	3360916300		ARM FRONT ABS 41 VX700-2	1	PCE
61		4020371607	D-180 41	PLASTIC ABS 94HB 41 D-180	65	GRM
62		4020371609	SD-0150 41	PLASTIC ABS 94HB 41 SD-0150	65	GRM
63		4020371614	PA-707 41	PLASTIC ABS 94HB 41 PA-707	65	GRM
64	M-CV-0830-2382	3360916400		ARM REAR ABS 41 VX700-2	1	PCE
65		4020371607	D-180 41	PLASTIC ABS 94HB 41 D-180	85	GRM
66		4020371609	SD-0150 41	PLASTIC ABS 94HB 41 SD-0150	85	GRM
67		4020371614	PA-707 41	PLASTIC ABS 94HB 41 PA-707	85	GRM
68	C-FP-0301-0813	3361073800		F/B ABS 5140 VX900	1	PCE
69		4020372907	D-180 5140	PLASTIC ABS 94HB 5140 D-180	213	GRM
70		4020372908	HF-380 5140	PLASTIC ABS 94HB 5140 HF-380	213	GRM
71		4020372909	SD-0150 5140	PLASTIC ABS 94HB 5140 SD-0150	213	GRM
72		4020372914	PA-757 5140	PLASTIC ABS 94HB 5140 PA-757	213	GRM
73	M-CV-0830-2384	3361204500		COVER BASE ABS 41 VX700-2	1	PCE
74		4020371607	D-180 41	PLASTIC ABS 94HB 41 D-180	121	GRM
75		4020371609	SD-0150 41	PLASTIC ABS 94HB 41 SD-0150	121	GRM
76		4020371614	PA-707 41	PLASTIC ABS 94HB 41 PA-707	121	GRM
77	M-CV-0830-2390	3368205400		SPEAKER COVER ASSY L19EMW05AAW	1	PCE
78	PL-FK-0709-0114	3360727100		FUNCTION KEY ABS VSC02B S7LFA1	1	PCE
79		4020372907	D-180 5140	PLASTIC ABS 94HB 5140 D-180	1	GRM
80		4020372908	HF-380 5140	PLASTIC ABS 94HB 5140 HF-380	1	GRM
81		4020372909	SD-0150 5140	PLASTIC ABS 94HB 5140 SD-0150	1	GRM
82		4020372914	PA-757 5140	PLASTIC ABS 94HB 5140 PA-757	1	GRM
83	M-CV-0830-2389	3361204300		COVER SPEAKER ABS VSC02B VX900	1	PCE
84		4020371607	D-180 41	PLASTIC ABS 94HB 41 D-180	64	GRM
85		4020371609	SD-0150 41	PLASTIC ABS 94HB 41 SD-0150	64	GRM
86		4020371614	PA-707 41	PLASTIC ABS 94HB 41 PA-707	64	GRM
87	C-BC-0302-0482	3368213700		R/C ASSY L19EMW05AAW	1	PCE
88	M-MS-0808-7739	3200648800		NAME PLATE ABS 94HB VIEWSONIC	1	PCE
89		4020371607	D-180 41	PLASTIC ABS 94HB 41 D-180	11	GRM
90		4020371609	SD-0150 41	PLASTIC ABS 94HB 41 SD-0150	11	GRM
91		4020371614	PA-707 41	PLASTIC ABS 94HB 41 PA-707	11	GRM
92	C-BC-0302-0481	3360240700		R/C ABS 41 VX900	1	PCE
93		4020371607	D-180 41	PLASTIC ABS 94HB 41 D-180	65	GRM
94		4020371609	SD-0150 41	PLASTIC ABS 94HB 41 SD-0150	65	GRM
95		4020371614	PA-707 41	PLASTIC ABS 94HB 41 PA-707	65	GRM
96	M-MS-0808-8159	3371004902		BRKT BASE SPCC T=2 ZN BLK	1	PCE
97	M-MS-0808-8160	3371005202		BRACKET MECK SPCC T=2 ZN BLUE	1	PCE
98	M-MH-0822-0002	3371005500		BRACKET VESA MOUNTING SECC T=1	1	PCE
99	M-MS-0808-8161	3371005601		BRACKET R/C SECC T=1.2MM	1	PCE
100	M-MH-0822-0004	3371005701		BRACKET KENSINGTON SECC T=1.2	1	PCE
101	M-MS-0808-8162	3421024500	FN-011	CABLE CLAMP GROUNDING SPCC T.3	1	PCE
102	M-MH-0822-0008	3460141300		BRACKET D-SUB SECC 296.8*46 T0	1	PCE
103	M-MH-0822-0009	3460141400		BRACKET PANEL SECC 417.6*338.6	1	PCE
104	M-CV-0830-2391	3460141500		SHIELD CAN SPTE 316.9*150.8 T0	1	PCE
105	M-MH-0822-0007	3460144800		BRACKET CONN SECC 41.7*30 T0.6	1	PCE
106	M-CV-0830-2392	3461224700		SHIELD CAN I/V SPTE 228.4*73.2	1	PCE
107	M-MS-0808-8163	3461750601		HINGE SUB ASSY R	1	PCE
108	M-MS-0808-8164	3461750701		HINGE SUB ASSY L	1	PCE
109	P-FM-0602-0814	3500084101		CUSHION B EPS 550*245*190	1	PCE
110	P-FM-0602-0815	3500084201		CUSHION T EPS 550*245*190	1	PCE
111	M-MS-0808-7674	3500932401		PE BAG 500*640 T=0.06 CLEAN	1	PCE
112		3510441600		TRAY 1166*1076*142H(INSIDE) VX	0.13	PCE
113	M-LCD-0826-0127	3510552100		TUBE 1156*1066*1050(H) LCD 19"	0.06	PCE
114		3510807600		ANGLE PAPER 2190*55*55	0.13	PCE
115		3510878400		CAP PAPER 1140*1050*120	0.03	PCE
116	P-BX-0601-0779	3512235200		CARTON 565*260*525 VSC VX900-2	1	PCE
117		3520026000		PALLET FUMIGATED 1070*1140*120	0.03	PCE
118	M-MS-0808-5135	3520082400		PE FILM t=0.02mm W=500	0.04	KGM
119		3520084000		PE SHEET 1800*1600*0.15	0.06	PCE
120	M-MS-0808-7748	3520087700	#9	PE SHIELDING BAG 280*200	1	PCE

121		3520130500		DRYER 15G 80*60	4	PCE
122	PL-SP-0723-0002	3520142700		PLASTIC STRIP W=12 T.5 BLACK	1	MTR
123	M-MS-0808-7743	3532059900		MANUAL PACKING ASSY VSC VX900-	1	PCE
124	M-MS-0808-8396	3520094201		PE BAG 260*155*0.1T	1	PCE
125	M-MS-0808-7744	5011086500		MANUAL QUICK START GUIDE VSC V	1	PCE
126	A-CD-VX900-2	3532060000		CD-ROM VSC A-CD-VX900-2	1	PCE
127	M-WR-0828-0685	3610170800		AC SOCKET ASSY L19EMW05AAW L15	1	PCE
128	M-WR-0828-0686	3670184200		WIRE WITH HOUSING 20276 #30 L2	1	PCE
129	M-WR-0828-0687	3670190200		WIRE WITH HOUSING 1007 #28 L55	1	PCE
130	M-WR-0828-0682	3670190400		WIRE WITH HOUSING 1007 #28 L12	1	PCE
131	M-WR-0828-0641	3670459102		WIRE WITH HOUSING 1007 #28 L=4	1	PCE
132	E-SK-0412-0070	3790193400		SPEAKER-R ASSY L17KMW05AAW	2	PCE
133	E-SK-0412-0071	3790193500		SPEAKER-L ASSY L17KMW05AAW	1	PCE
134	B-SB-0221-0449	4900502600	DAC-12C024 A0	DC-AC INVERTER 12V/1900V 4L 19	1	PCE
374	M-LCD-0826-0123	5051900022	FLC48SXC8V-01	LCD 19" TFT PANEL LVDS SXGA	1	PCE
375	B-AC-0215-0038	5600110046		LCD AUDIO BD ASSY L19EMW 05AAW	1	PCE
376	E-R-0405-7053	0341041300	2322 704 61002	RES CH 1/10W 1K F 0603	1	PCE
377	E-R-0405-7046	0341046100	2322 734 62402	RES CH 1/8W 2.4K F 0805	1	PCE
378	E-R-0405-7041	0343000300	2322 702 96001	RES CH 1/10W ZERO J 0603	1	PCE
379	E-R-0405-7041	0343000300	2322 702 96001	RES CH 1/10W ZERO J 0603	1	PCE
380	E-R-0405-7054	0343102300	2322 702 60102	RES CH 1/10W 1K J 0603	1	PCE
381	E-R-0405-7054	0343102300	2322 702 60102	RES CH 1/10W 1K J 0603	1	PCE
382	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
383	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
384	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
385	E-R-0405-6685	0343103300	ERJ-3GEYJ 103	RES CH 1/10W 10K J 0603	1	PCE
386	E-R-0405-7042	0343220300	2322 702 60229	RES CH 1/10W 22 J 0603	1	PCE
387	E-R-0405-7042	0343220300	2322 702 60229	RES CH 1/10W 22 J 0603	1	PCE
388	E-R-0405-7055	0343221300	ERJ-3GEYJ 221	RES CH 1/10W 220 J 0603	1	PCE
389	E-R-0405-7055	0343221300	ERJ-3GEYJ 221	RES CH 1/10W 220 J 0603	1	PCE
390	E-R-0405-6687	0343222300	2322 702 60222	RES CH 1/10W 2.2K J 0603	1	PCE
391	E-R-0405-6687	0343222300	2322 702 60222	RES CH 1/10W 2.2K J 0603	1	PCE
392	E-R-0405-7031	0343472300	2322 702 60472	RES CH 1/10W 4.7K J 0603	1	PCE
393	E-R-0405-7031	0343472300	2322 702 60472	RES CH 1/10W 4.7K J 0603	1	PCE
394	E-R-0405-7035	0343473300	2322 702 60473	RES CH 1/10W 47K J 0603	1	PCE
395	E-R-0405-7035	0343473300	2322 702 60473	RES CH 1/10W 47K J 0603	1	PCE
396	E-R-0405-6691	0343562300	2322 702 60562	RES CH 1/10W 5.6K J 0603	1	PCE
397	E-R-0405-6691	0343562300	2322 702 60562	RES CH 1/10W 5.6K J 0603	1	PCE
398	E-C-0404-4857	148124701303	UWX1C470MCR1GB	CAP AL CP 16V 47U M 6.3*5.4	1	PCE
399	E-C-0404-4857	148124701303	UWX1C470MCR1GB	CAP AL CP 16V 47U M 6.3*5.4	1	PCE
400	E-C-0404-4857	148124701303	UWX1C470MCR1GB	CAP AL CP 16V 47U M 6.3*5.4	1	PCE
401	E-C-0404-4857	148124701303	UWX1C470MCR1GB	CAP AL CP 16V 47U M 6.3*5.4	1	PCE
402	E-C-0404-4857	148124701303	UWX1C470MCR1GB	CAP AL CP 16V 47U M 6.3*5.4	1	PCE
403	E-C-0404-4857	148124701303	UWX1C470MCR1GB	CAP AL CP 16V 47U M 6.3*5.4	1	PCE
404	E-C-0404-4860	148144781103	UWX1E4R7MCR1GB	CAP AL CP 25V 4.7U M 4*5.5	1	PCE
405	E-C-0404-4860	148144781103	UWX1E4R7MCR1GB	CAP AL CP 25V 4.7U M 4*5.5	1	PCE
406	E-C-0404-4860	148144781103	UWX1E4R7MCR1GB	CAP AL CP 25V 4.7U M 4*5.5	1	PCE
407	E-C-0404-4860	148144781103	UWX1E4R7MCR1GB	CAP AL CP 25V 4.7U M 4*5.5	1	PCE
408	E-C-0404-4856	149124711433	UWT1C471MNR1GS	CAP AL CP 16V 470U M 8*10	1	PCE
409	E-C-0404-4856	149124711433	UWT1C471MNR1GS	CAP AL CP 16V 470U M 8*10	1	PCE
410	E-C-0404-4859	149141001203	UUT1E100MCR1GS	CAP AL CP 25V 10U M 5*5.7	1	PCE
411	E-C-0404-4859	149141001203	UUT1E100MCR1GS	CAP AL CP 25V 10U M 5*5.7	1	PCE
412	E-C-0404-4859	149141001203	UUT1E100MCR1GS	CAP AL CP 25V 10U M 5*5.7	1	PCE
413	E-C-0404-4859	149141001203	UUT1E100MCR1GS	CAP AL CP 25V 10U M 5*5.7	1	PCE
414	E-C-0404-4859	149141001203	UUT1E100MCR1GS	CAP AL CP 25V 10U M 5*5.7	1	PCE
415	E-C-0404-4859	149141001203	UUT1E100MCR1GS	CAP AL CP 25V 10U M 5*5.7	1	PCE
416	E-C-0404-4879	1511477000	2238 586 15528	CAP MC CP 50V 2.7KP J X7R 0603	1	PCE
417	E-C-0404-4879	1511477000	2238 586 15528	CAP MC CP 50V 2.7KP J X7R 0603	1	PCE
418	E-C-0404-4874	1511530000	C0603N101J050T	CAP MC CP 50V 100P J C0G 0603	1	PCE
419	E-C-0404-4874	1511530000	C0603N101J050T	CAP MC CP 50V 100P J C0G 0603	1	PCE
420	E-C-0404-4874	1511530000	C0603N101J050T	CAP MC CP 50V 100P J C0G 0603	1	PCE

421	E-C-0404-4874	1511530000	C0603N101J050T	CAP MC CP 50V 100P J C0G 0603	1	PCE
422	E-C-0404-4875	1511545000	C1608C0G1H102JT	CAP MC CP 50V 1KP J C0G 0603	1	PCE
423	E-C-0404-4875	1511545000	C1608C0G1H102JT	CAP MC CP 50V 1KP J C0G 0603	1	PCE
424	E-C-0404-4497	1517658000	2238 586 19812	CAP MC CP 50V .1U Z Y5V 0603	1	PCE
425	E-C-0404-4497	1517658000	2238 586 19812	CAP MC CP 50V .1U Z Y5V 0603	1	PCE
426	E-C-0404-4497	1517658000	2238 586 19812	CAP MC CP 50V .1U Z Y5V 0603	1	PCE
427	E-C-0404-4497	1517658000	2238 586 19812	CAP MC CP 50V .1U Z Y5V 0603	1	PCE
428	E-C-0404-4497	1517658000	2238 586 19812	CAP MC CP 50V .1U Z Y5V 0603	1	PCE
429	E-C-0404-4497	1517658000	2238 586 19812	CAP MC CP 50V .1U Z Y5V 0603	1	PCE
430	E-C-0404-4497	1517658000	2238 586 19812	CAP MC CP 50V .1U Z Y5V 0603	1	PCE
431	E-C-0404-4497	1517658000	2238 586 19812	CAP MC CP 50V .1U Z Y5V 0603	1	PCE
432	E-C-0404-4497	1517658000	2238 586 19812	CAP MC CP 50V .1U Z Y5V 0603	1	PCE
433	E-C-0404-4497	1517658000	2238 586 19812	CAP MC CP 50V .1U Z Y5V 0603	1	PCE
434	E-C-0404-4497	1517658000	2238 586 19812	CAP MC CP 50V .1U Z Y5V 0603	1	PCE
435	E-D-0403-2053	203812540836	RLZ TE-11 5.6B	DIO ZEN 0.5W 5.45-5.73V LLDS(M	1	PCE
436	E-D-0403-2054	203812550636	RLZ TE-11 6.8C	DIO ZEN 0.5W 6.66-7.01V LLDS(M	1	PCE
437	E-D-0403-2054	203812550636	RLZ TE-11 6.8C	DIO ZEN 0.5W 6.66-7.01V LLDS(M	1	PCE
438	E-D-0403-2054	203812550636	RLZ TE-11 6.8C	DIO ZEN 0.5W 6.66-7.01V LLDS(M	1	PCE
439	E-D-0403-2054	203812550636	RLZ TE-11 6.8C	DIO ZEN 0.5W 6.66-7.01V LLDS(M	1	PCE
440	E-D-0403-2047	204810750136	RLS4148 TE-11	DIO SW 0.15A 75V MINIMELF	1	PCE
441	E-Q-0402-1087	210522000405	MMBT3904LT1	TR 40V 0.2A SOT-23 100-300	1	PCE
442	E-Q-0402-1087	210522000405	MMBT3904LT1	TR 40V 0.2A SOT-23 100-300	1	PCE
443	E-Q-0402-0407	210522000717	MMBT2222A	TR 40V 1A SOT-23 75	1	PCE
444	E-Q-0402-1550	242601100223	GF4412	FET 30V 7A 28mohm SO-8PIN	1	PCE
445	E-Q-0402-1550	242601100223	GF4412	FET 30V 7A 28mohm SO-8PIN	1	PCE
446	E-Q-0402-1549	242601100231	SI4412DY-T1	FET 30V 7A 0.028ohm SO-8	1	PCE
447	E-Q-0402-1549	242601100231	SI4412DY-T1	FET 30V 7A 0.028ohm SO-8	1	PCE
448	E-IC-0401-2517	2500047320	PQ20WZ1U	IC REGU +20V 1A SC-63 5PIN	1	PCE
449	E-IC-0401-1927	2530085011	PT2313L	IC 4-CH AUDIO PROCESSOR SO-28P	1	PCE
450	E-IC-0401-1928	2530100016	TDA1517/N3	IC 2*6 STEREO CARD RADIO 9P	1	PCE
451	E-L-0407-1546	2921093512	MLB-160808-0040A-N	CORE BEAD 100MHZ 40 OHM 0.4A 0	1	PCE
452	E-L-0407-1546	2921093512	MLB-160808-0040A-N	CORE BEAD 100MHZ 40 OHM 0.4A 0	1	PCE
453	E-L-0407-1547	2921174612	MLB-201209-0080P-N	CORE BEAD 100MHZ 80 OHM 3A 080	1	PCE
454	E-L-0407-1547	2921174612	MLB-201209-0080P-N	CORE BEAD 100MHZ 80 OHM 3A 080	1	PCE
455	B-AC-0215-0033	2973006403		PWB D0 L2 FR-4 60*100 (AUDIO B	1	PCE
456		3071312334	A2501WV2-4P	HEADER NYLON66 94V-0 4P P2.5	1	PCE
457		3072230400	JY-3551-21-070	CONN PHONE JACK OD3.5 7P RIGHT	1	PCE
458		3072231000	JY-3551-D1-070	CONN PHONE JACK OD3.5 7P R/A G	1	PCE
459		3076265034	A2005WV0-2D*5P	HEADER BOX PBT 94V0 2*5P P2.0	1	PCE
460	B-IF-0222-0035	5600110057		LCD I/F BD ASSY L19EMW 05AAW	1	PCE
461		0313151000	2322 711 61151	RES CH 1/4W 150 J 1206	1	PCE
462		0313151000	2322 711 61151	RES CH 1/4W 150 J 1206	1	PCE
463	E-R-0405-7041	0343000300	2322 702 96001	RES CH 1/10W ZERO J 0603	1	PCE
464	E-R-0405-7041	0343000300	2322 702 96001	RES CH 1/10W ZERO J 0603	1	PCE
465	E-R-0405-7041	0343000300	2322 702 96001	RES CH 1/10W ZERO J 0603	1	PCE
466	E-R-0405-7041	0343000300	2322 702 96001	RES CH 1/10W ZERO J 0603	1	PCE
467	E-R-0405-7041	0343000300	2322 702 96001	RES CH 1/10W ZERO J 0603	1	PCE
468	E-R-0405-7041	0343000300	2322 702 96001	RES CH 1/10W ZERO J 0603	1	PCE
469	E-R-0405-7041	0343000300	2322 702 96001	RES CH 1/10W ZERO J 0603	1	PCE
470	E-R-0405-7041	0343000300	2322 702 96001	RES CH 1/10W ZERO J 0603	1	PCE
471	E-R-0405-7041	0343000300	2322 702 96001	RES CH 1/10W ZERO J 0603	1	PCE
472	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE
473	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE
474	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE
475	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE
476	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE
477	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE
478	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE
479	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE
480	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE
481	E-R-0405-6684	0343101300	2322 702 60101	RES CH 1/10W 100 J 0603	1	PCE

[illegible]

543	E-R-0405-7033	0343471300	2322 702 60471	RES CH 1/10W 470 J 0603	1	PCE
544	E-R-0405-7033	0343471300	2322 702 60471	RES CH 1/10W 470 J 0603	1	PCE
545	E-R-0405-7033	0343471300	2322 702 60471	RES CH 1/10W 470 J 0603	1	PCE
546	E-R-0405-7033	0343471300	2322 702 60471	RES CH 1/10W 470 J 0603	1	PCE
547	E-R-0405-7031	0343472300	2322 702 60472	RES CH 1/10W 4.7K J 0603	1	PCE
548	E-R-0405-7031	0343472300	2322 702 60472	RES CH 1/10W 4.7K J 0603	1	PCE
549	E-R-0405-7031	0343472300	2322 702 60472	RES CH 1/10W 4.7K J 0603	1	PCE
550	E-R-0405-7031	0343472300	2322 702 60472	RES CH 1/10W 4.7K J 0603	1	PCE
551	E-R-0405-7031	0343472300	2322 702 60472	RES CH 1/10W 4.7K J 0603	1	PCE
552	E-R-0405-7031	0343472300	2322 702 60472	RES CH 1/10W 4.7K J 0603	1	PCE
553	E-R-0405-7031	0343472300	2322 702 60472	RES CH 1/10W 4.7K J 0603	1	PCE
554	E-R-0405-7031	0343472300	2322 702 60472	RES CH 1/10W 4.7K J 0603	1	PCE
555	E-R-0405-7031	0343472300	2322 702 60472	RES CH 1/10W 4.7K J 0603	1	PCE
556	E-R-0405-7031	0343472300	2322 702 60472	RES CH 1/10W 4.7K J 0603	1	PCE
557	E-R-0405-7031	0343472300	2322 702 60472	RES CH 1/10W 4.7K J 0603	1	PCE
558		0343685300	RMC1/16 685 JTP	RES CH 1/10W 6.8M J 0603	1	PCE
559		0343750300	2322 702 60759	RES CH 1/10W 75 J 0603	1	PCE
560		0343750300	2322 702 60759	RES CH 1/10W 75 J 0603	1	PCE
561		0343750300	2322 702 60759	RES CH 1/10W 75 J 0603	1	PCE
562		0343823300	2322 702 60823	RES CH 1/10W 82K J 0603	1	PCE
563		0619700605	RS8M-22R0-J1	RES ARRAY 1/16W 22 J 16P8R 4*1	1	PCE
564		0619700605	RS8M-22R0-J1	RES ARRAY 1/16W 22 J 16P8R 4*1	1	PCE
565		0619700605	RS8M-22R0-J1	RES ARRAY 1/16W 22 J 16P8R 4*1	1	PCE
566		0619700605	RS8M-22R0-J1	RES ARRAY 1/16W 22 J 16P8R 4*1	1	PCE
567		0619700605	RS8M-22R0-J1	RES ARRAY 1/16W 22 J 16P8R 4*1	1	PCE
568		0619700605	RS8M-22R0-J1	RES ARRAY 1/16W 22 J 16P8R 4*1	1	PCE
569		0619900705	RS1-1002R-J1	RES ARRAY 10K J 8P4R 1206	1	PCE
570		0619900705	RS1-1002R-J1	RES ARRAY 10K J 8P4R 1206	1	PCE
571		0619900712	YC164-JR-07 10K	RES ARRAY 10K J 8P4R 1206	1	PCE
572		0619900712	YC164-JR-07 10K	RES ARRAY 10K J 8P4R 1206	1	PCE
573		0730060412	AT014318F30AA	CRYSTAL 14.318MHZ+-30PPM AT-49	1	PCE
574		0841110702	0251004.NRT1	FUSE F/P 4A 125V UL CSA	1	PCE
575		148121011303	UWX1C101MCR1GB	CAP AL CP 16V 100U M 6.3*5.4	1	PCE
576		148121011303	UWX1C101MCR1GB	CAP AL CP 16V 100U M 6.3*5.4	1	PCE
577		148121011303	UWX1C101MCR1GB	CAP AL CP 16V 100U M 6.3*5.4	1	PCE
578		148121011303	UWX1C101MCR1GB	CAP AL CP 16V 100U M 6.3*5.4	1	PCE
579		148121011303	UWX1C101MCR1GB	CAP AL CP 16V 100U M 6.3*5.4	1	PCE
580		148121011303	UWX1C101MCR1GB	CAP AL CP 16V 100U M 6.3*5.4	1	PCE
581		148121011303	UWX1C101MCR1GB	CAP AL CP 16V 100U M 6.3*5.4	1	PCE
582		148121011308	16REV100M6.3*5.5	CAP AL CP 16V 100U M 6.3*5.5	1	PCE
583		148121011308	16REV100M6.3*5.5	CAP AL CP 16V 100U M 6.3*5.5	1	PCE
584		148121011308	16REV100M6.3*5.5	CAP AL CP 16V 100U M 6.3*5.5	1	PCE
585		148121011308	16REV100M6.3*5.5	CAP AL CP 16V 100U M 6.3*5.5	1	PCE
586		148121011308	16REV100M6.3*5.5	CAP AL CP 16V 100U M 6.3*5.5	1	PCE
587		148121011308	16REV100M6.3*5.5	CAP AL CP 16V 100U M 6.3*5.5	1	PCE
588		148121011308	16REV100M6.3*5.5	CAP AL CP 16V 100U M 6.3*5.5	1	PCE
589	E-C-0404-4857	148124701303	UWX1C470MCR1GB	CAP AL CP 16V 47U M 6.3*5.4	1	PCE
590	E-C-0404-4857	148124701303	UWX1C470MCR1GB	CAP AL CP 16V 47U M 6.3*5.4	1	PCE
591	E-C-0404-4857	148124701303	UWX1C470MCR1GB	CAP AL CP 16V 47U M 6.3*5.4	1	PCE
592	E-C-0404-4856	148124701308	16REV47M6.3*5.5	CAP AL CP 16V 47U M 6.3*5.5	1	PCE
593	E-C-0404-4856	148124701308	16REV47M6.3*5.5	CAP AL CP 16V 47U M 6.3*5.5	1	PCE
594	E-C-0404-4869	148124701308	16REV47M6.3*5.5	CAP AL CP 16V 47U M 6.3*5.5	1	PCE
595	E-C-0404-4869	149121001108	16RGV10M4*5.5	CAP AL CP 16V 10U M 4*5.5	1	PCE
596	E-C-0404-4869	149121001133	UWT1C100MCR1GB	CAP AL CP 16V 10U M 4*5.4	1	PCE
597	E-C-0404-4869	149122211333	UWT1C221MCR1GS	CAP AL CP 16V 220U M 6.3*7.7	1	PCE
598		149122211333	UWT1C221MCR1GS	CAP AL CP 16V 220U M 6.3*7.7	1	PCE
599		149124711408	16RGV470M8*10.5	CAP AL CP 16V 470U M 8*10.5	1	PCE
600		149124711408	16RGV470M8*10.5	CAP AL CP 16V 470U M 8*10.5	1	PCE
601		149124711433	UWT1C471MNR1GS	CAP AL CP 16V 470U M 8*10	1	PCE
602		149124711433	UWT1C471MNR1GS	CAP AL CP 16V 470U M 8*10	1	PCE
603		149142211408	25RGV220M8*10.5	CAP AL CP 25V 220U M 8*10.5	1	PCE

604		149142211408	25RGV220M8*10.5	CAP AL CP 25V 220U M 8*10.5	1	PCE
605		149142211433	UWT1E221MNR1GS	CAP AL CP 25V 220U M 8*10	1	PCE
606		149142211433	UWT1E221MNR1GS	CAP AL CP 25V 220U M 8*10	1	PCE
607		1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
608		1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
609		1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
610		1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
611	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
612	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
613	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
614	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
615	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
616	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
617	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
618	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
619	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
620	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
621	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
622	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
623	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
624	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
625	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
626	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
627	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
628	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
629	E-C-0404-4869	1511454000	2238 586 15536	CAP MC CP 50V .01U J X7R 0603	1	PCE
630	E-C-0404-4878	1511514000	2238 867 15229	CAP MC CP 50V 22P J C0G 0603	1	PCE
631	E-C-0404-4878	1511514000	2238 867 15229	CAP MC CP 50V 22P J C0G 0603	1	PCE
632	E-C-0404-4878	1511514000	2238 867 15229	CAP MC CP 50V 22P J C0G 0603	1	PCE
633	E-C-0404-4878	1511514000	2238 867 15229	CAP MC CP 50V 22P J C0G 0603	1	PCE
634	E-C-0404-4878	1511514000	2238 867 15229	CAP MC CP 50V 22P J C0G 0603	1	PCE
635	E-C-0404-4878	1511514000	2238 867 15229	CAP MC CP 50V 22P J C0G 0603	1	PCE
636	E-C-0404-4881	1514504000	2238 867 14508	CAP MC CP 50V 5P C C0G 0603	1	PCE
637	E-C-0404-4881	1514504000	2238 867 14508	CAP MC CP 50V 5P C C0G 0603	1	PCE
638		1547667100	C0805Y105Z016T	CAP MC CP 16V 1U Z Y5V 0805	1	PCE
639		1547667100	C0805Y105Z016T	CAP MC CP 16V 1U Z Y5V 0805	1	PCE
640		1547667100	C0805Y105Z016T	CAP MC CP 16V 1U Z Y5V 0805	1	PCE
641		1547667100	C0805Y105Z016T	CAP MC CP 16V 1U Z Y5V 0805	1	PCE
642		1547667100	C0805Y105Z016T	CAP MC CP 16V 1U Z Y5V 0805	1	PCE
643		1547667100	C0805Y105Z016T	CAP MC CP 16V 1U Z Y5V 0805	1	PCE
644		1547667100	C0805Y105Z016T	CAP MC CP 16V 1U Z Y5V 0805	1	PCE
645		1547667100	C0805Y105Z016T	CAP MC CP 16V 1U Z Y5V 0805	1	PCE
646		1547667100	C0805Y105Z016T	CAP MC CP 16V 1U Z Y5V 0805	1	PCE
647		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
648		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
649		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
650		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
651		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
652		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
653		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
654		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
655		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
656		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
657		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
658		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
659		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
660		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
661		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
662		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
663		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
664		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE

665		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
666		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
667		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
668		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
669		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
670		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
671		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
672		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
673		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
674		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
675		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
676		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
677		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
678		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
679		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
680		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
681		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
682		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
683		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
684		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
685		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
686		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
687		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
688		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
689		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
690		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
691		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
692		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
693		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
694		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
695		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
696		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
697		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
698		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
699		1552458000	C0603X104K025T	CAP MC CP 25V .1U K X7R 0603	1	PCE
700		202351080105	1N5822	DIO SBD 3A 40V DO-201AD	1	PCE
701	E-D-0403-2053	203812540836	RLZ TE-11 5.6B	DIO ZEN 0.5W 5.45-5.73V LLDS(M	1	PCE
702	E-D-0403-2053	203812540836	RLZ TE-11 5.6B	DIO ZEN 0.5W 5.45-5.73V LLDS(M	1	PCE
703	E-D-0403-2053	203812540836	RLZ TE-11 5.6B	DIO ZEN 0.5W 5.45-5.73V LLDS(M	1	PCE
704	E-D-0403-2053	203812540836	RLZ TE-11 5.6B	DIO ZEN 0.5W 5.45-5.73V LLDS(M	1	PCE
705	E-D-0403-2053	203812540836	RLZ TE-11 5.6B	DIO ZEN 0.5W 5.45-5.73V LLDS(M	1	PCE
706	E-D-0403-2053	203812540836	RLZ TE-11 5.6B	DIO ZEN 0.5W 5.45-5.73V LLDS(M	1	PCE
707	E-D-0403-2049	204520700205	BAV99LT1	DIO SW 0.215A 70V SOT-23 SE.	1	PCE
708	E-D-0403-2049	204520700205	BAV99LT1	DIO SW 0.215A 70V SOT-23 SE.	1	PCE
709	E-D-0403-2049	204520700205	BAV99LT1	DIO SW 0.215A 70V SOT-23 SE.	1	PCE
710	E-D-0403-2049	204520700205	BAV99LT1	DIO SW 0.215A 70V SOT-23 SE.	1	PCE
711	E-D-0403-2049	204520700205	BAV99LT1	DIO SW 0.215A 70V SOT-23 SE.	1	PCE
712	E-D-0403-2049	204520700205	BAV99LT1	DIO SW 0.215A 70V SOT-23 SE.	1	PCE
713	E-D-0403-2049	204520700205	BAV99LT1	DIO SW 0.215A 70V SOT-23 SE.	1	PCE
714	E-D-0403-2050	204520700207	BAV99,235	DIO SW 0.215A 75V SOT-23 SE.	1	PCE
715	E-D-0403-2050	204520700207	BAV99,235	DIO SW 0.215A 75V SOT-23 SE.	1	PCE
716	E-D-0403-2050	204520700207	BAV99,235	DIO SW 0.215A 75V SOT-23 SE.	1	PCE
717	E-D-0403-2050	204520700207	BAV99,235	DIO SW 0.215A 75V SOT-23 SE.	1	PCE
718	E-D-0403-2050	204520700207	BAV99,235	DIO SW 0.215A 75V SOT-23 SE.	1	PCE
719	E-D-0403-2050	204520700207	BAV99,235	DIO SW 0.215A 75V SOT-23 SE.	1	PCE
720	E-D-0403-2050	204520700207	BAV99,235	DIO SW 0.215A 75V SOT-23 SE.	1	PCE
721		204520700217	BAV99	DIO SW 0.2A 70V SOT-23 SE.	1	PCE
722		204520700217	BAV99	DIO SW 0.2A 70V SOT-23 SE.	1	PCE
723		204520700217	BAV99	DIO SW 0.2A 70V SOT-23 SE.	1	PCE
724		204520700217	BAV99	DIO SW 0.2A 70V SOT-23 SE.	1	PCE
725		204520700217	BAV99	DIO SW 0.2A 70V SOT-23 SE.	1	PCE

726		204520700217	BAV99	DIO SW 0.2A 70V SOT-23 SE.	1	PCE
727		204520700217	BAV99	DIO SW 0.2A 70V SOT-23 SE.	1	PCE
728		204520700305	BAV70LT1	DIO SW 0.2A 70V SOT-23 C.C.	1	PCE
729		204520700305	BAV70LT1	DIO SW 0.2A 70V SOT-23 C.C.	1	PCE
730		204520700307	BAV70,235	DIO SW 0.215A 75V SOT-23	1	PCE
731		204520700307	BAV70,235	DIO SW 0.215A 75V SOT-23	1	PCE
732		204520700317	BAV70	DIO SW 0.2A 70V SOT-23 C.C.	1	PCE
733		204520700317	BAV70	DIO SW 0.2A 70V SOT-23 C.C.	1	PCE
734	E-Q-0402-1087	210522000405	MMBT3904LT1	TR 40V 0.2A SOT-23 100-300	1	PCE
735	E-Q-0402-1087	210522000405	MMBT3904LT1	TR 40V 0.2A SOT-23 100-300	1	PCE
736	E-Q-0402-1087	210522000405	MMBT3904LT1	TR 40V 0.2A SOT-23 100-300	1	PCE
737	E-Q-0402-1087	210522000405	MMBT3904LT1	TR 40V 0.2A SOT-23 100-300	1	PCE
738	E-Q-0402-1087	210522000405	MMBT3904LT1	TR 40V 0.2A SOT-23 100-300	1	PCE
739	E-Q-0402-1087	210522000405	MMBT3904LT1	TR 40V 0.2A SOT-23 100-300	1	PCE
740	E-Q-0402-1180	210522000417	MMBT3904	TR 40V 0.2A SOT-23 100-300	1	PCE
741	E-Q-0402-1180	210522000417	MMBT3904	TR 40V 0.2A SOT-23 100-300	1	PCE
742	E-Q-0402-1180	210522000417	MMBT3904	TR 40V 0.2A SOT-23 100-300	1	PCE
743	E-Q-0402-1180	210522000417	MMBT3904	TR 40V 0.2A SOT-23 100-300	1	PCE
744	E-Q-0402-1180	210522000417	MMBT3904	TR 40V 0.2A SOT-23 100-300	1	PCE
745	E-Q-0402-1180	210522000417	MMBT3904	TR 40V 0.2A SOT-23 100-300	1	PCE
746		211522000205	MMBT3906LT1	TR -40V -0.2A SOT-23 100-300	1	PCE
747		211522000205	MMBT3906LT1	TR -40V -0.2A SOT-23 100-300	1	PCE
748	E-Q-0402-7017	211522000217	MMBT3906	TR -40V -0.2A SOT-23 100-300	1	PCE
749	E-Q-0402-7017	211522000217	MMBT3906	TR -40V -0.2A SOT-23 100-300	1	PCE
750		243600600031	SI9933ADY-T1	FET -20V -3.4A 0.075ohm SO-8P	1	PCE
751	E-Q-0402-1551	243601100017	FDS4435	FET -30V -8.8A 0.02ohm SO-8	1	PCE
752	E-Q-0402-1552	243601100031	SI4435DY-REVA-T1	FET -30V -8.0A 0.02ohm SO-8	1	PCE
753		2500075813	LM2576D2TR4-5	IC VOLT/REG 5V 3A D2PAK-5P(TO-	1	PCE
754		2500080410	LD1085CDT-R	IC REGU LDO ADJ 3A DPAK	1	PCE
755		2500080541	APL1085-UC-TR	IC REGU ADJ 3A TO-252	1	PCE
756		2500088136	XC61CC4402MR	IC VOL DETECTOR 4.4V SOT-23	1	PCE
757		2500092109	SI-8050SD	IC VOLT/REGU 5V 3A TO-263-5	1	PCE
758		2500223009	SI-3033KS-TL	IC REGU 3.3V 1A SMD-8P	1	PCE
759		2500223009	SI-3033KS-TL	IC REGU 3.3V 1A SMD-8P	1	PCE
760		2530192427	GM5120	IC IMAGE PROCESSOR PQFP-208P	1	PCE
761	E-IC-0401-1931	2540005008	SN75LVDS83DGGR	IC TRANSMITTER TSSOP-56P	1	PCE
762	E-IC-0401-1931	2540005008	SN75LVDS83DGGR	IC TRANSMITTER TSSOP-56P	1	PCE
763	E-IC-0401-1932	2540170021	THC63LVDM83A	IC LVDS I/F TSSOP-56P	1	PCE
764	E-IC-0401-1932	2540170021	THC63LVDM83A	IC LVDS I/F TSSOP-56P	1	PCE
765		2540317134	CS5828	IC LVDS X'CEVIER 28:4 85MHZ TS	1	PCE
766		2540317134	CS5828	IC LVDS X'CEVIER 28:4 85MHZ TS	1	PCE
767		2600088009	74F14SC	IC HEX INVERTER SOIC-14	1	PCE
768	E-IC-0401-2724	2610049742	M24C02-WMN6T	IC CMOS 2K EEPROM SO8	1	PCE
769	E-IC-0401-2719	2610099337	24LC21AT/SN	IC EEPROM 1K SO-8	1	PCE
770	E-IC-0401-2720	2610099942	ST24LC21BM6TR	IC EEPROM 1K*8 SO-8	1	PCE
771	E-IC-0401-2721	2610188212	AT24C16-10PC	IC E2PROM 16K 5V 8PIN	1	PCE
772	E-IC-0401-2722	2610188612	AT24C16N-10SC-2.7	IC EEPROM 16K SOIC-8P	1	PCE
773	E-IC-0401-2572	2610380523	A290011TL-70	IC FLASH MEMORY 128K*8 70NS PL	1	PCE
774	E-IC-0401-2723	2610452084	SST39SF010-90-4C-N	IC F-EEPROM 128K*8 90NS PLCC32	1	PCE
775		2817123010	E-7267B	CHOKE CR 100uH L	1	PCE
776		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
777		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
778		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
779		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
780		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
781		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
782		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
783		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
784		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
785		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
786		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE

787		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
788		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
789		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
790		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
791		2921093612	MLB-160808-0120B-N	CORE BEAD 100MHZ 120 OHM 0.2A	1	PCE
792		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A 12	1	PCE
793		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A 12	1	PCE
794		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A 12	1	PCE
795		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A 12	1	PCE
796		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A 12	1	PCE
797		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A 12	1	PCE
798		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A 12	1	PCE
799		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A 12	1	PCE
800		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A 12	1	PCE
801		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A 12	1	PCE
802		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A 12	1	PCE
803		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A 12	1	PCE
804		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A 12	1	PCE
805		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A 12	1	PCE
806		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A 12	1	PCE
807		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A 12	1	PCE
808		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A 12	1	PCE
809		2921113212	MLB-321611-0120P-N	CORE BEAD 100MHZ 120 OHM 4A 12	1	PCE
810		2970035501		PWB M0 L4 FR-4 140*117 (I/F BD)	1	PCE
811		3020015200	1041003201	SOCKET IC 32P P1.27 SMD	1	PCE
812		3070337934	A2002WR2-11P	WAFER 2.0mm 11P R-ANGLE	1	PCE
813		3075308757	DV11201-P8-1	CONN D-SUB 15P R/A PC99 W/O SC	1	PCE
814		3075316128	67351-9074	CONN DVI-D 94V0 24P R/A GOLD F	1	PCE
815		3076151434	A2003WR2-2A*15P	PIN HEADER PBT 94V0 2*15P P2.0	1	PCE
816		3076265034	A2005WV0-2D*5P	HEADER BOX PBT 94V0 2*5P P2.0	1	PCE
817		3202009100		LABEL REISTRATION 40*16	1	PCE
818		3202215900		LABEL MCU 11*11 POLYESTER 50#	1	PCE
819		3670470900		WIRE WITH HOUSING 1007 #24 L10	1	PCE
820		3670704600		WIRE WITH HOUSING 1007 #28 L20	1	PCE
821	B-KB-0207-0031	5600110067		LCD FUN KEY BD ASSY L19EMW 05A	1	PCE
822	M-MS-0808-8179	2301462531	L-91WEGW	LED HI-RED/GRN 3*4*2 C.C.	1	PCE
823		2970036001		PWB S1 FR-1 28.5*180 (KEY BD)	1	PCE
824		3000093900	SKHHPJ2410	SWITCH TACTILE DPST	1	PCE
825		3000093900	SKHHPJ2410	SWITCH TACTILE DPST	1	PCE
826		3000093900	SKHHPJ2410	SWITCH TACTILE DPST	1	PCE
827		3000093900	SKHHPJ2410	SWITCH TACTILE DPST	1	PCE
828		3000093900	SKHHPJ2410	SWITCH TACTILE DPST	1	PCE
829		3000093900	SKHHPJ2410	SWITCH TACTILE DPST	1	PCE
830		3000093900	SKHHPJ2410	SWITCH TACTILE DPST	1	PCE
831		3000093900	SKHHPJ2410	SWITCH TACTILE DPST	1	PCE
832		3070337934	A2002WR2-11P	WAFER 2.0mm 11P R-ANGLE	1	PCE
833		3122009500		HOLDER FOR LED NY66 UL94V-2 6*	1	PCE
834	M-WR-0828-0224	3411000300		JUMP WIRE BRASS 0.6*7.5*4.0	6	PCE
835	M-WR-0828-0402	4010670000		WIRE CU 0.6 TNC	0.13	GRM
836	B-SB-0221-0450	5600200113		MICROPHONE BD ASSY	1	PCE
837		0990601015	MD6052UWZ-4	MICROPHONE ASSY -46+-4dB L=150	1	PCE
838		2973007402		PWB D0 L2 FR-4 15.5*60 (MICROP	1	PCE
839		3072230200	JY-3561-F1-070	CONN PHONE JACK OD3.5 7P VERTI	1	PCE
840		3072230300	JY-3561-51-070	CONN PHONE JACK OD3.5 7P VERTI	1	PCE

Reader's Response

Dear Readers:

Thank you in advance for your feedback on our Service Manual, which allows continuous improvement of our products. We would appreciate your completion of the Assessment Matrix below, for return to ViewSonic corporation.

Assessment

A. What do you think about the content after reading VX900-2 Service Manual?

<i>Unit</i>	<i>Excellent</i>	<i>Good</i>	<i>Fair</i>	<i>Bad</i>
1. Engineering Specifications				
2. Panel Control Description				
3. Circuit Description				
4. Troubleshooting Flow Chart				
5. Adjust Procedure				
6. Mechanical Assembly				
7. Schematic Diagrams				
8. PCB LAYOUT				
9. Recommended Spare Parts List				
10. Complete Parts List				

B. Are you satisfied with the VX900-2 service manual?

<i>Item</i>	<i>Excellent</i>	<i>Good</i>	<i>Fair</i>	<i>Bad</i>
1. Service Manual Content				
2. Service Manual Layout				
3. The form and listing				

C. Do you have any other opinion or suggestion about this service manual?

Reader's basic data:

Name:		Title:	
Company:			
Add:			
Tel:		Fax:	
E-mail:			

After completing this form, please return it to ViewSonic Quality Assurance in the USA at facsimile 1-909-839-7943. You may also e-mail any suggestions to the Director of Quality Assurance (marc.maupin@viewsonic.com)