~*PREFACE*~

This manual is prepared for the maintenance service for the LCD Monitor. Maintenance procedures described in this manual are intended to isolate faulty parts and replace them in the field. It also aims to serve as a guide in procuring replacement parts for this product.

This manual includes system overview, major system assembly, components' description, and the "Troubleshooting" makes explanations on how to detect errors. It also includes a flow chart for checking or correcting faults.

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No event will the vendor be liable for direct, indirect, special, inci dental or consequential damages arising out of the user or inability to use this product or documentation.

🗁 *NOTICE*

The information found in this manual is subject to change without prior notice. Any subsequent changes made to the data herein will be incorporated in future edition.

Model Name: PV630ATMR

Manual Version 1.0

Document #535-G04-02A

Table of Contents

Chapter 1

Introduction

This manual provides an integral information you need to maintain the LCD Monitor. And this manual is applied to the mode of 800*600 pixels color TFT LCD Monitor. There are seven topics in this manual, you can immediately identify problems through this manual. Optoma is a specialist in the LCD Monitor field, so we believe that your customers will appreciate the service that you give them.

This manual is for the technicans and people who have the electronic background. Send the product back to the distributor for repairing and do not attempt to do anything which is complex or isn't mentioned in the troubleshooting.

1.1 The appropriate operation for using the LCD monitor

- ❏ The LCD panel surface should not come in contact with any other object. And it should be handled with Reasonable care.
- ❏ The VGA cable's connector with core side should be connected to the PC.
- ❏ The standard SVGA monitor mode (800*600) is recommended.
- ❏ Press " RESET " if anything appears wrong.
- ❏ Display flickering, adjust by " TRACK " function.
- ❏ The housing may be cleaned with a soft cloth moistened with a diluted solution of mild cleaning naphtha.
- ❏ The product's LCD panel is extremely sensitive device. Do not use abrasive cleaners waxes or solvents.

1.2 Features

- ❖ Direct analog RGB input
- ❖ Active matrix TFT LCD technology
- ❖ MicroTouch resistive type touch screen 12.1" diagonal screen size
- ❖ 800 * 600 addressable pixels
- ❖ 250cd/m^2 brightness
- ❖ 24-50kHz Horizontal scan
- ❖ 75Hz high refresh rate
- ❖ Full screen re-scaling capability
- ❖ Multifunction OSD user controls
- ❖ Integrated multimedia audio function
- ❖ VESA DPMS power saving

1.3 Technical Specification

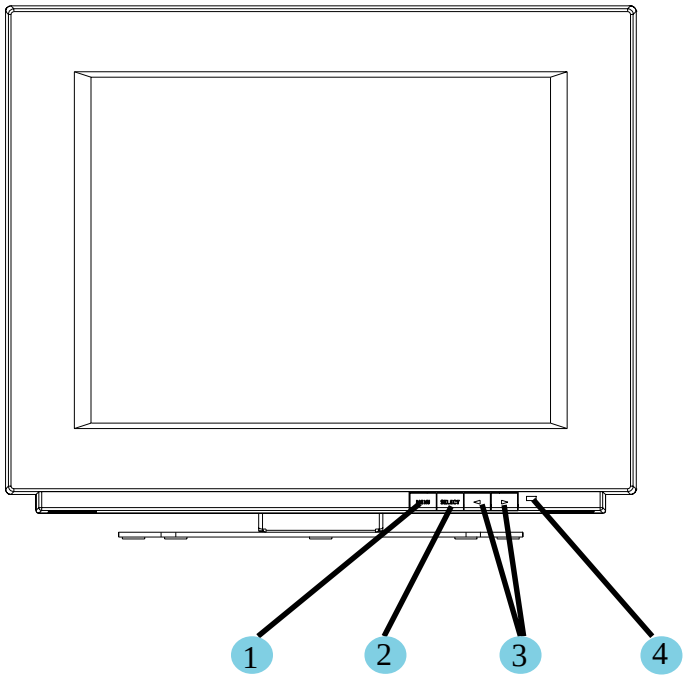
LCD Technology

- active matrix TFT color LCD
- 12.1" diagonal screen size
- 800 * 600 addressable pixels
- 0.308mm * 0.308mm pixel pitch
- 250cd/m^2(typ.) brightness
- 100:1(min.) contrast ratio
- LR= ±30°, U=10°, D=20°(min.) viewing angle, CR≥10
- tr=50ms(max.)/tf=50ms(max.) response time
- dual CCFT backlights lamp w/ 30,000hrs average light time

Display Resolution	- 800 pixels(H) * 600 lines(V)
Active Display Area	- 246.0 mm (H) * 184.5 mm (V)
Displayable Color	- 16.7M
Horizontal Scan	- 24kHz to 50kHz
Vertical Refresh	- 56Hz to 85Hz
Pixel Frequency	- 50MHz
Compatibility	- IBM/VESA VGA 640 * 480, 60~85Hz - VESA SVGA 800 * 600, 60~75Hz - Apple Macintosh 640 * 480, 67Hz
Input Signal	- Video: analog RGB 0.7Vp-p - Sync.: separate sync. TTL level
Touch Screen	- MicroTouch Resistive type - 80% light transmission
Multimedia Audio	- a pair of forward facing speakers w/1 watt output - built-in amplifier w/ 3 watt * 2 output
I/O Connectors	- DC power in - VGA 15-pin D-sub - audio-in * 1 - earphone * 1 - 9-pin RS-232 connector for touch screen
User Controls	- On screen display - auto-save and reset capability MENU#1 Horizontal Position, Vertical Position, Tracking, Contrast, Brightness MENU #2 Volume, Mute, Balance, Bass, Treble, Stereo . MENU #3 Text-Graphic, Frequency, Oversize, Smooth, Reset.

Power Saving	-	VESA DPMS standard
Power Consumption	-	30 watts (max.) < 8 watts (off mode)
Stand	-	tilt (-5°~+45°)
AC/DC Adapter	-	external power adapter - universal type AC 100-240V(47~63Hz) - output: DC 5V/12V - UL, CSA, TUV, CE Mark compliant
Dimensions(W * H * D)	-	13.4" * 11.3" * 6.7" (340mm * 286.7mm * 170mm)
Weight	-	10.4lbs/4.7kg
Agency approval	-	FCC-B, CE-B, VCCI-II , - UL, CUL, TUV
Environmental	-	operating temperature: 5°~35°C/41°~95°F humidity: 80% maximum - storage temperature: -20°~60°C/-4°~140°F humidity: 80% maximum
Standard Package	-	the PV630ATMR contains the followings: • LCD monitor with stand • VGA signal cable • Power cord • Audio-in cable • RS-232 series cable • AC/DC power adapter • English user's manual • Warranty card • Three 1.44MB diskettes of touch screen drivers for DOS, Window 3.1, Window 95, and Window NT 4.0 • Mac adapter *(optional)*

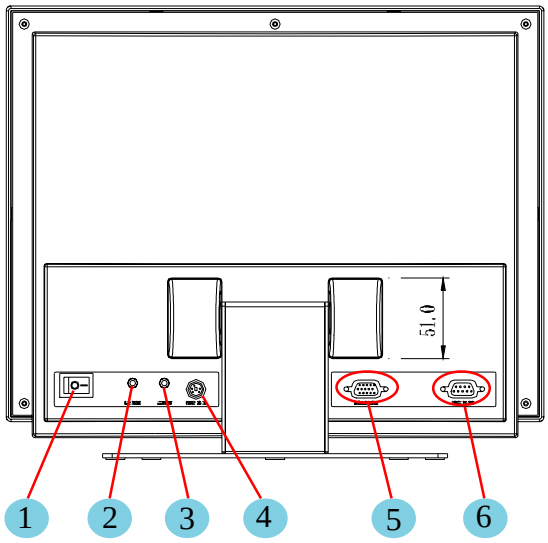
1.4 Front Panel Controls and LED



Front Control Panel

Item	Control	Function
1.	"Menu" button	Pop up the OSD menu
2.	"Select" button	Select OSD item
3.	"<"&">" button	Change the display parameter in the select item
4.	Power LED	1.Green indicates monitor is turned on an d signal be received simultaneously. 2.Orange indicates monitor is in status of no signal.

1.5 Rear Panel Connectors

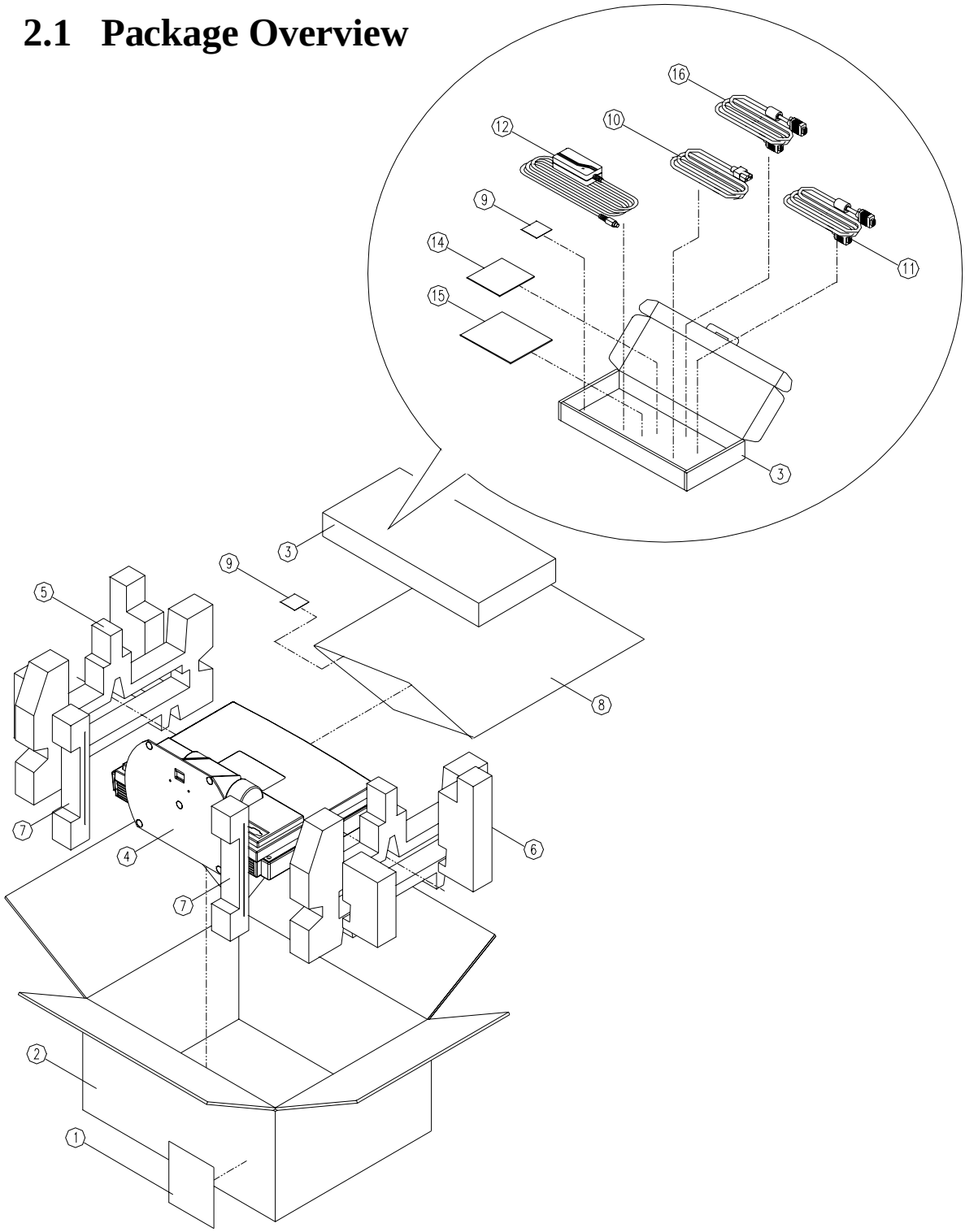


PRear Connection Port	
Item	**Cable**
1.	Power Switch
2.	Ear Phone
3.	Audio In
4.	Power DC-In
5	Display Input
6	Touch RS-232

Chapter 2

Mechanical construction

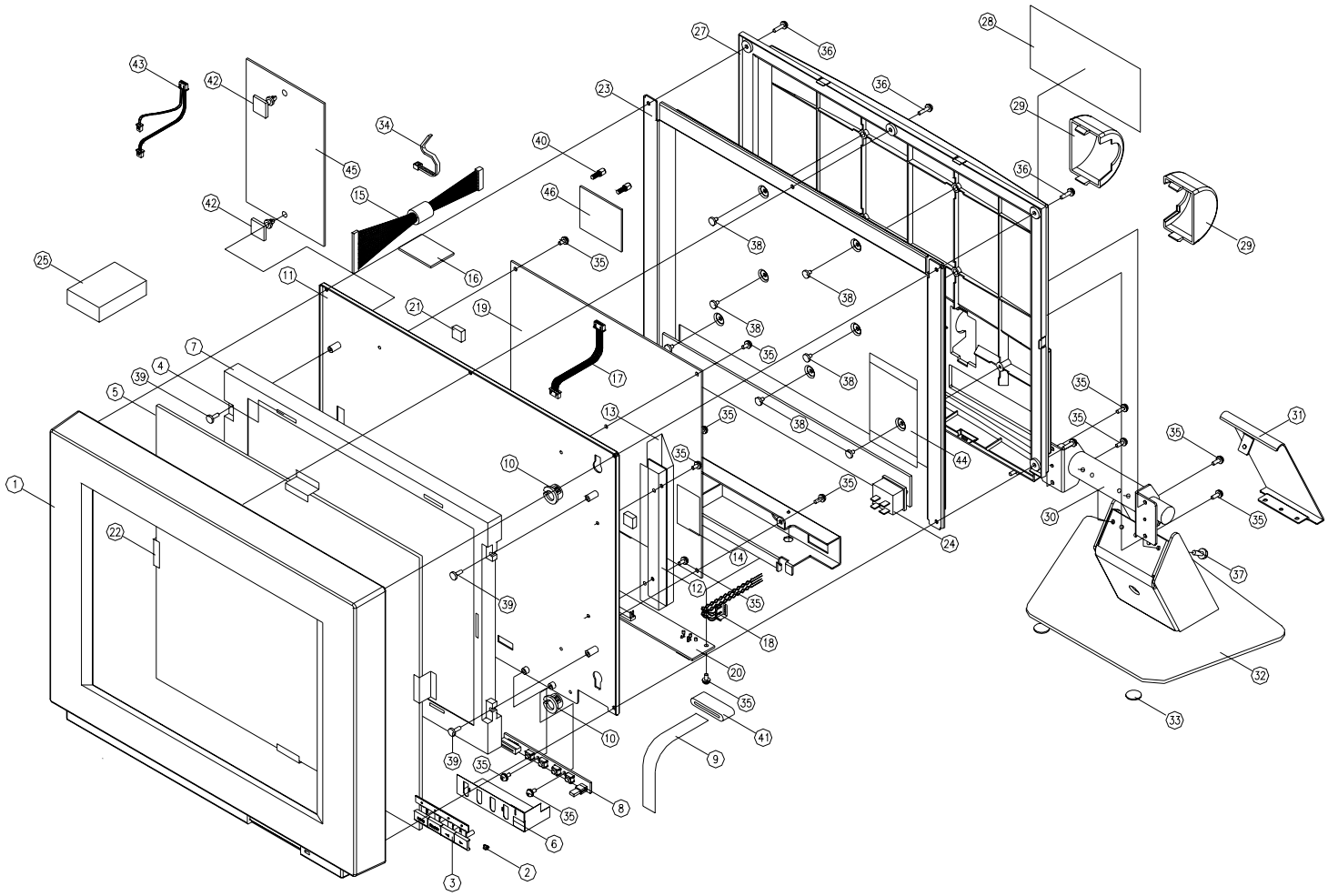
2.1 Package Overview



2.1.1 Replacement parts list

Item	P/N	Description
1.	35.52302.091	Lable Carton 108*92mm
2.	55.53501.011	Carton AB 460*380*225mm HH12.1ELVT
3.	55.52102.001	Box B 395*195*53mm LMT-5020
4.	DC.53505.001	D.C. PV630ATMR
5.	56.53501.002	Cushion R EPE HH12.1ELVT
6.	56.53502.002	Cushion L EPE HH12.1ELVT
7.	56.53503.002	Cushion Stand EPE HH12.1ELVT
8.	51.80112.001	ESD Bag LDPE 420*600*0.07tmm EzPro 500
9.	57.00001.001	Pack SIO2 Drier 20g
10.	42.50115.001	Cable, Power Cord 1830mm SP30+IS14
11.	42.53604.001	Cable, VGA 15P 1800mm 2-core CT01 PV745
12.	47.53502.002	Adapter In=100-250 Out=5V 3A 12V 1.5A
13.	37.53502.001	CD-ROM Istallation Driver User's Manual PV 630ATMR
14.	36.53508.001	User's Manual PV 630ATMR ICL-USA
15.	42.52402.031	Cable Touch RS-232 9P 1800 PV630 (2 Core)

2.2 Exploded View



2.2.1 Replacement parts list

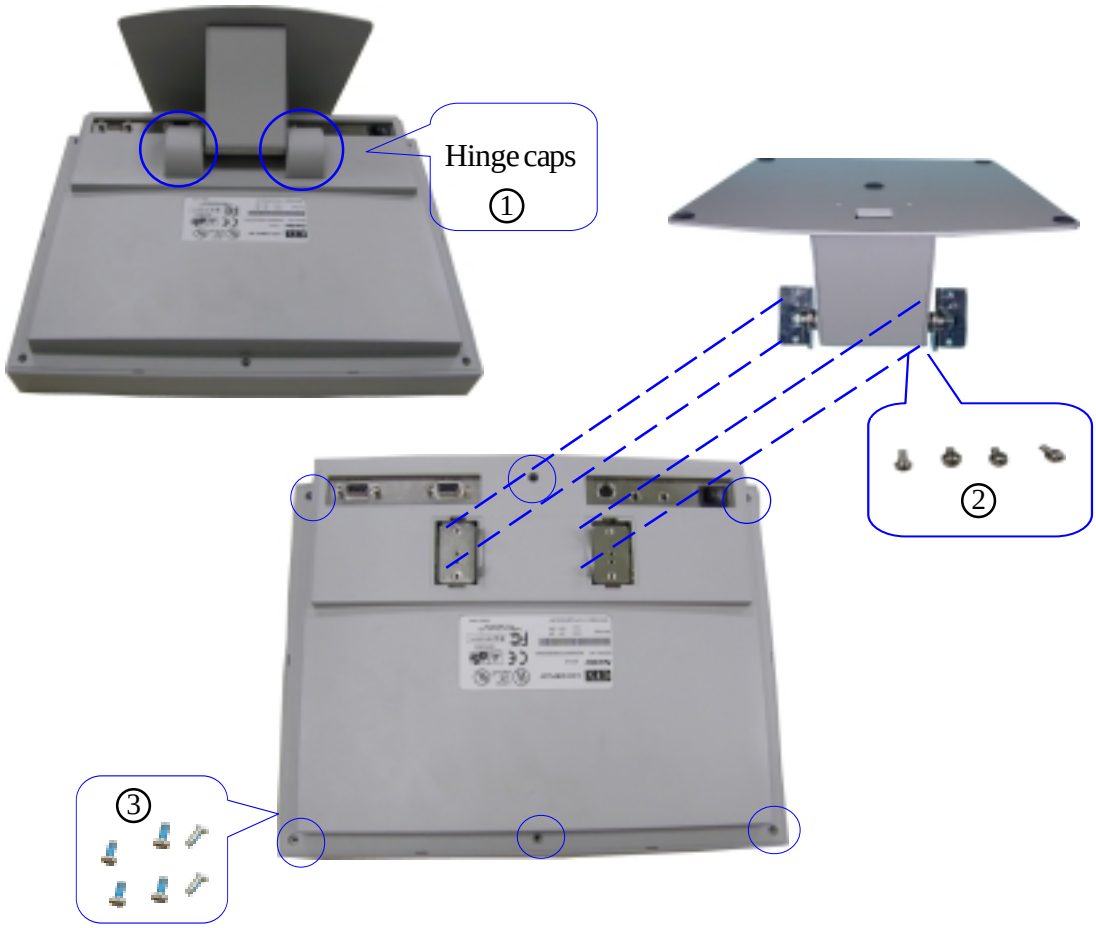
Item	P/N	Description
1.	51.53501.403	Front Cover
2.	51.53504.001	LED Lens PMMA/PC HH12.1ELVT
3.	51.53503.201	Select Knob
4.	51.00026.001	Double Tape 3M-Y4609 6mm(W)*0.8mm(T)
5.	49.30401.001	MISC Microtouch 12.1" Resistive Touch Panel 43-5975-5"
6.	51.53506.002	Insulator CTRL Mylar HH12.1ELVT
7.	48.53501.001	TFT LCD 12.1" 800*600 TOSHIBA LTM12C275C
8.	80.53503.001	PCBA CTRL BD LCD Display HH12.1ELVT
9.	42.53007.001	Cable FFC 12P 1.0 120mm PV550 (CTRL)
10.	51.80102.001	Open Closed Bushings SB-0609A
11.	61.53501.101	LCD Brkt LTM12C275 AL5052 PV630ATMR
12.	44.53501.002	PCBA Inverter Board
13.	51.53508.001	Insulator Inverter Mylar HH12.1ELVT
14.	35.00010.001	Label Caution High Voltage 30*20mm
15.	42.53101.001	W.A.30P UL1571 #28 140mm w/core
16.	52.00007.001	Double Sided Tape 3M VAB #4930 0.64t
17.	42.53501.001	W.A. 7P UL1571 #28 50mm
18.	42.53003.001	W.A. 4P UL1007 #24 80mm
19.	80.53510.001	PCBA Main BD
20.	80.53504.001	PCBA Connector BD
21.	52.60301.001	Rubber Foot PG-L080803 8*8*3.5tmm
22.	41.53501.001	Metallized Fabric Tape UCT-25 W:25mm
23.	61.53502.002	Support Bracket SPCC-Ni
24.	43.80122.001	AC Power Switch
25.	47.53502.002	Adapter In:100-250V Out:5V 2.5A 12V 1A

Item	P/N	Description
26.	61.53511.022	CNNT Bracket SPCC-Ni (A/T)
27.	51.53502.203	Rear-Cover ABS-CT01
28.	35.52301.091	Label Spec 99*49mm Optoma
29.	51.53001.011	Hinge Cap
30.	61.53504.002	Hinge
31.	61.53506.202	Stand Cover
32.	61.53505.202	Stand Chassis
33.	52.53501.011	PU Foot D12X0.8t
34.	51.00001.001	Cable Tie
35.	85.1F123.080	Screw Pan Mech W/SF M3*8
36.	85.1A523.080	Screw Pan Mech M3*8
37.	85.1F124.120	Screw Pan Mech W/SF M4*12
38.	85.ZA523.040	Screw VCH/W Mech M3*4
39.	85.ZA123.080	Screw WCH/W Mech M3*8
40.	85.005AG.075	Screw Hex I/O #4-40*H5*L7.5
41.	41.53503.001	Flat Core FP-23.8*6.3*7(L8) 51.99£[/100M
42.	51.00045.001	Spacer Support Nylon Adhesive
43.	42.53503.001	W.A. 5/2/3P 1571 #28 50/100mm
44.	51.53511.001	Insulator INV Mylar
45.	80.54606.002	PCBA Touch BD
46.	80.53511.001	PCBA RS-232 BD

Chapter 3

Procedure of Disassembly

3.1 Disassemble the Stand unit and Main body unit



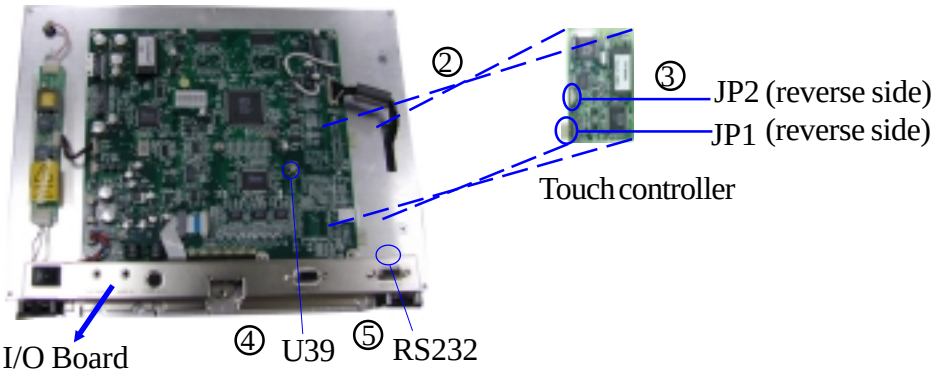
1. Press two Hinge caps and take them off.
2. Unscrew the four screws to remove Stand unit from the Main body unit.
3. Unscrew six screws of the Rear cover.

3.2 The procedure of the disassembling the Main body unit

3.2.1 Disassemble the Front cover and Rear cover set

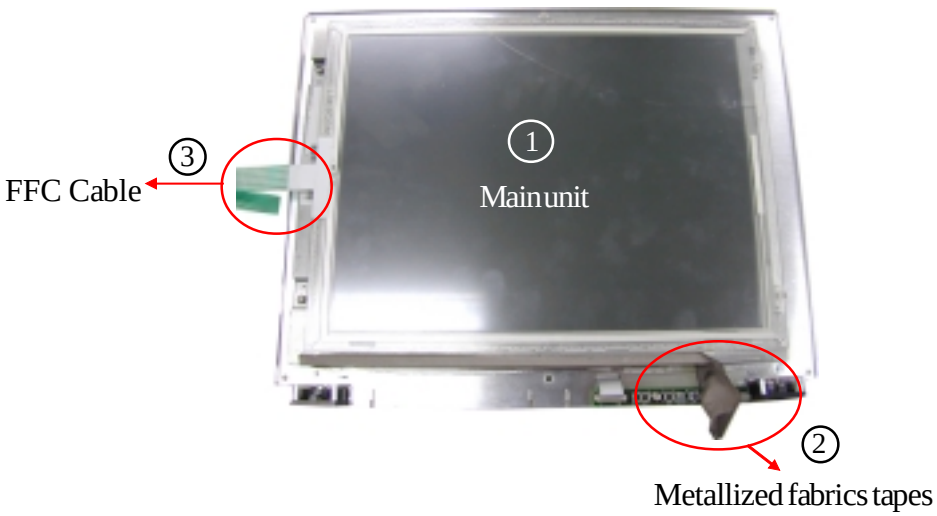
1. Disunit the Front cover and Rear cover

3.2.2 Disassemble the Touch controller



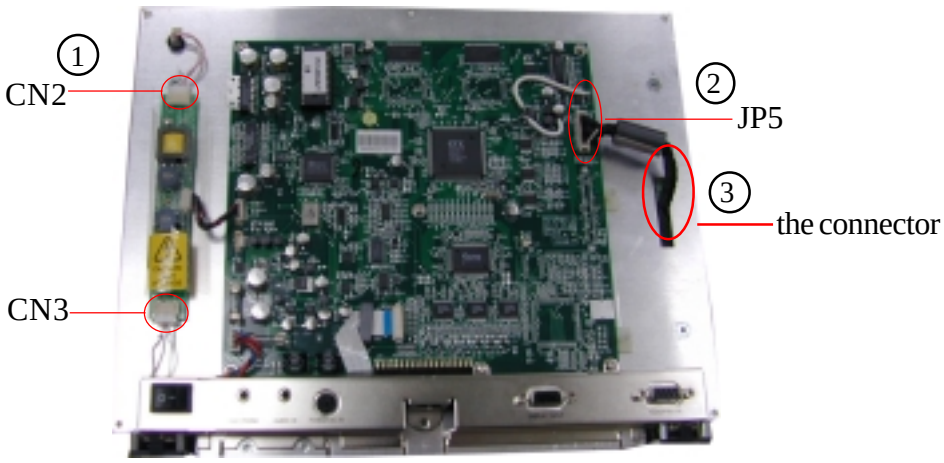
1. Turn over the Main body
2. Use the plier clamp tight to loose the two spacer support and then ture over the Touch controller
3. Disconnect the JP1 and JP2 on Touch controller.
4. Unplug the connector around U39
5. Disunit the connector I/O Board (RS232)

3.2.3 Disassemble the Touch panel module

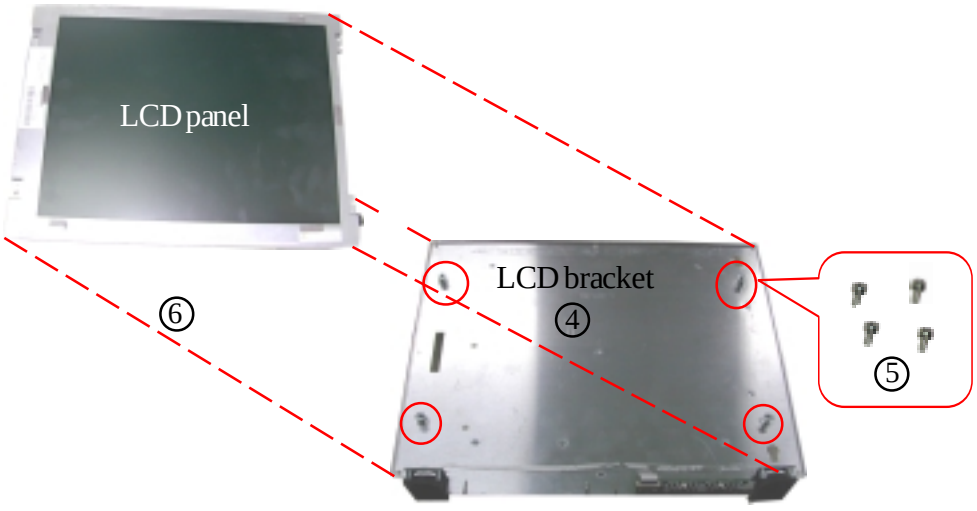


1. Turn over the Main unit and LCD panel on the surface side
2. Rip the whole Metallized fabrics tapes.
3. Pull the FFC cable out to the front side.
4. Use pazor blade to cut open the Double-sided tape between LCD panel and Touch panel carefully and remove the Touch panel.

3.2.4 Disassemble the LCD panel

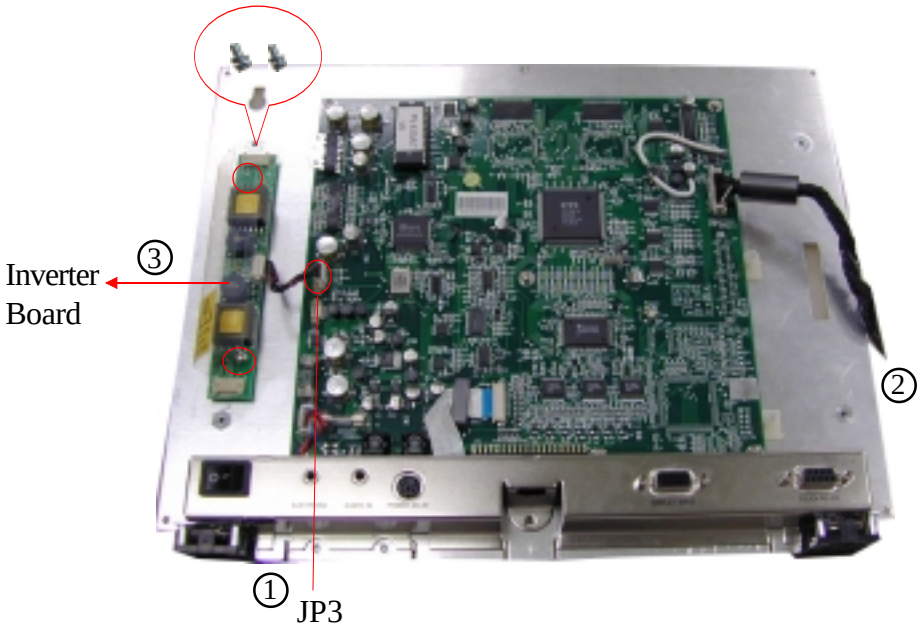


1. Unplug two connectors cable (CN2 and CN3) of the Invertor board.
2. Disunit the JP5 on the Main Board
3. Disunit the connector on the LCD panel



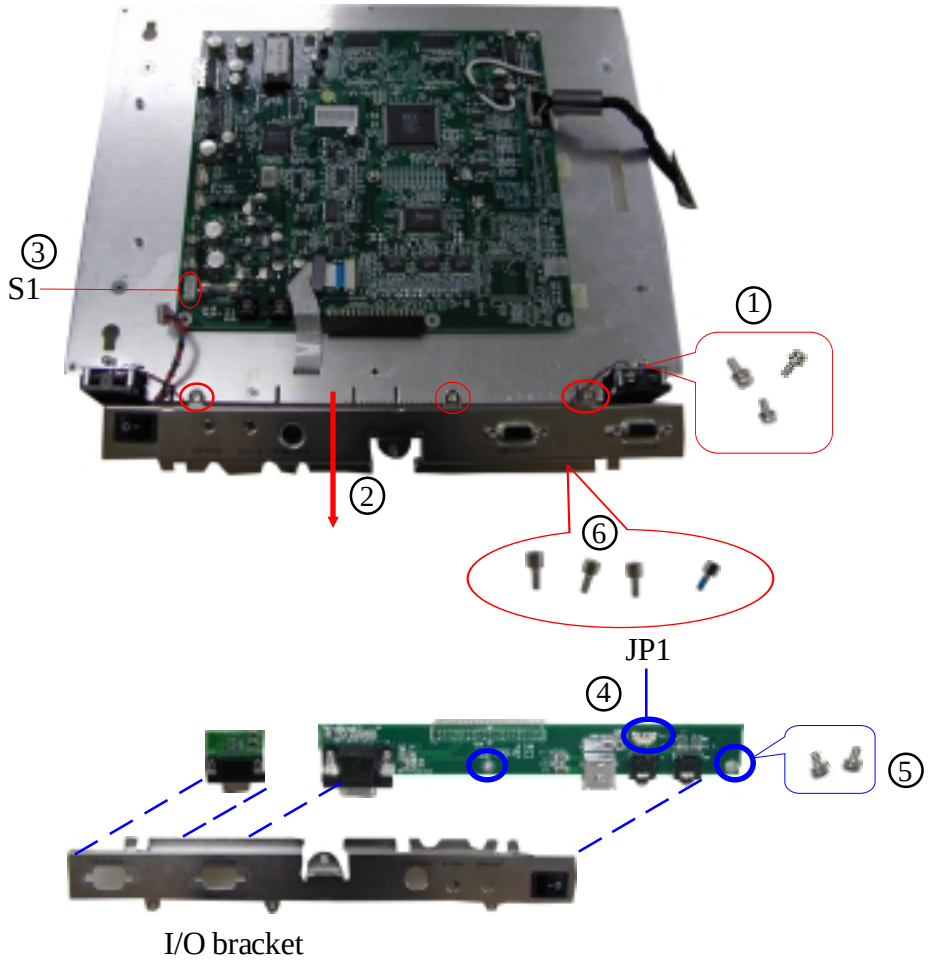
4. Turn over LCD bracket
5. Unscrew the four screws
6. Remove the LCD panel

3.2.5 Disassemble the Inverter Board



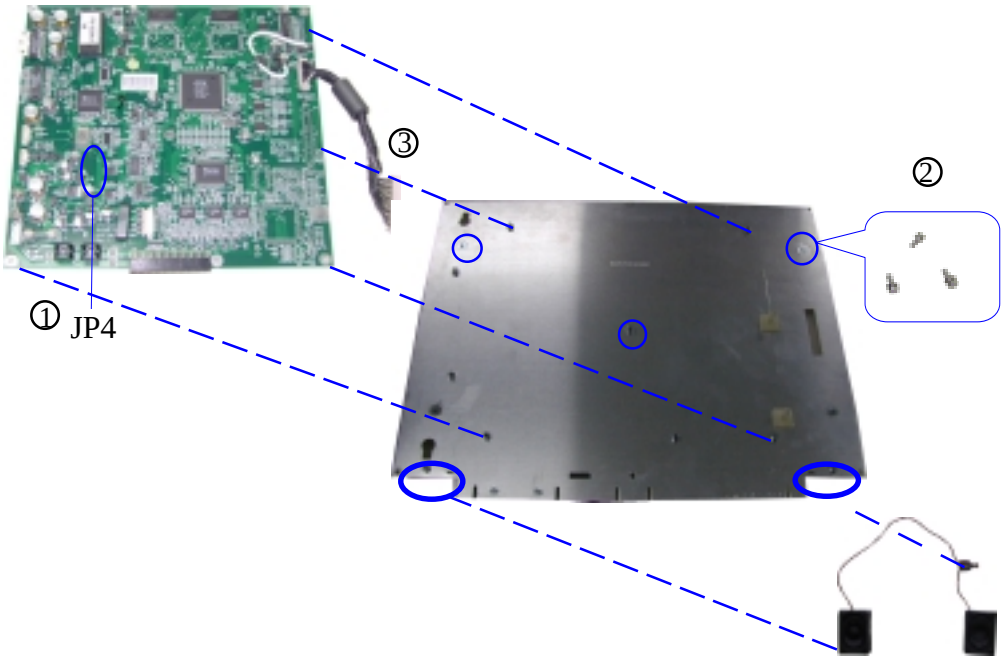
1. Disunit the JP3 of the Main Board
2. Go straight through the Insulator
3. Unscrew two screws and take off the Inverter Board

3.2.6 Disassemble I/O bracket

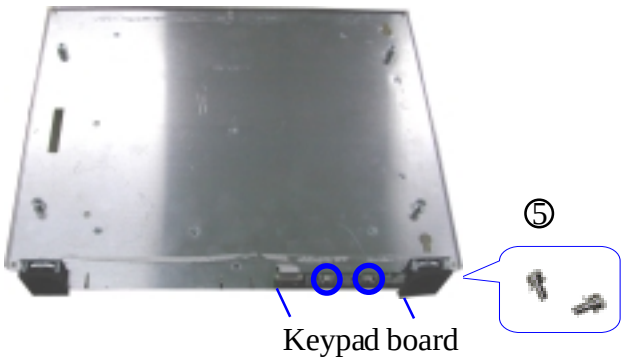


1. Unscrew three screws on the Main board
2. Push I/O bracket down
3. Unplug the connector S1 of Main board
4. Unplug the connector JP1 of Connector board and then take off the I/O bracket .
5. Unscrew two screws on the I/O bracket
6. Unscrew four hexs to take off PCBA Connector board and PCBA RS232 board

3.3 Disassemble Main board and the Speaker



1. Unplug the connector JP4
2. Unscrew three screws on the Main board
3. Remove the Main Board
4. Unscrew two screws and then remove two Speakers



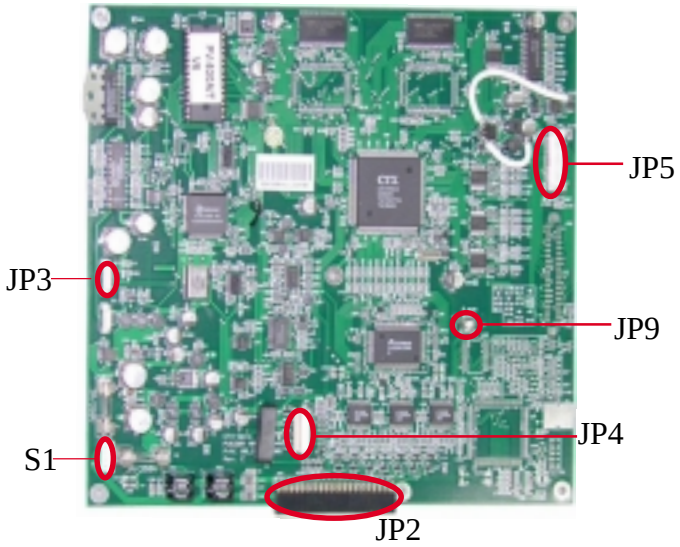
5. Unscrew two screws and then remove the Keypad board

Chapter 4

Function of Boards

4.1 Main Board

4.1.1 Position



4.1.1 JP2: Input/Output Connector

Pin #	Signal Name	Function
1.	+12V	+12V Power Input
2.	+12V	+12V Power Input
3.	+12V	+12V Power Input
4.	N.C.	No Connetion
5.	+5V	+5V Power Input
6.	N.C.	No Connetion
7.	+5V	+5V Power Input
8.	N.C.	No Connetion
9.	+5V	+5V Power Input
10.	+5V	+5V Power Input
11.	GND	Ground

Pin#	Singal Name	Function
12.	GND	Ground
13.	Ground	Ground
14.	GND	Ground
15.	AER_L	Left Ear
16.	AER_R	Right Ear
17.	APC_L	Left Speaker Channel
18.	APC_L	Left Speaker Channel
19.	AVD_L	No Connection
20.	AVD_R	No Connection
21.	GND	Ground
22.	GND	Ground
23.	N.C.	No Connection
24.	N.C.	No Connection
25.	N.C.	No Connetion
26.	N.C.	No Connetion
27.	GND	Ground
28.	GND	Ground
29.	VGA_VSY	Vsytnc.
30.	VGA_HSY	Hsync.
31.	DDCCLK1	DDC Clock
32.	DDCDATA1	DDC Data
33.	GND	Ground
34.	GND	Ground
35.	VGA_B	Blue Data
36.	GND	Ground
37.	VGA_G	Green Data
38.	GND	Ground
39.	VGA_R	Red Data
40.	GND	Ground

4.1.2 JP3: Inverter Connector 2

Pin#	Signal Name	Function
1.	+12VBL	12VPower
2.	+12VBL	12VPower
3.	GND	Ground
4.	GND	Ground
5.	GND	Ground
6.	Bright 1	Brightness Control
7.	GND	Ground

4.1.3 JP4: Control Connector

Pin#	Singal Name	Function
1.	Keypad Singal	Menu Control
2.	LED	Signal Indicator
3.	GND	Ground
4.	+12V	+12V Power Input
5.	GND	Ground
6.	N.C.	No Connection
7.	GND	Ground
8.	N.C.	No Connection
9.	N.C.	No Connection
10.	GND	Ground
11.	N.C.	No Connection
12.	N.C.	No Connection

4.1.4 JP5: LCD Connector

Pin#	Signal Name	Function
1.	GND	Ground
2.	CLK	Clock
3.	N.C.	No Connection
4.	N.C.	No Connection
5.	GND	Ground
6.	RA0	Red Data
7.	RA1	Red Data
8.	RA2	Red Data
9.	RA3	Red Data
10.	RA4	Red Data
11.	RA5	Red Data
12.	GND	Ground
13.	GA0	Green Data
14.	GA1	Green Data
15.	GA2	Green Data
16.	GA3	Green Data
17.	GA4	Green Data
18.	GA5	Green Data
19.	GND	Ground
20.	BA0	Blue Data
21.	BA1	Blue Data
22.	BA2	Blue Data
23.	BA3	Blue Data
24.	BA4	Blue Data
25.	BA5	Blue Data
26.	DE	DTMG
27.	GND	Ground
28.	V5V2	Power Supply +5
29.	V5V2	Power Supply +5
30.	GND	Ground

4.1.5 JP9

Pin#	Signal Name	Function
1.	+5V	+5v Power Input
2.	Ground	Ground

4.1.6 S1: SW:SW.DPST. Connector

Pin#	Singal Name	Function
1.	+12V	+12V Power Input
2.	+12V	+12V Power Input
3.	+5V	+5V Power Input
4.	+5V	+5V Power Input

4.2 Inverter Board

4.2.1 Position

4.2.2 CN1: Inverter Connector

Pin#	Signal Name	Function
1.	+12V	+12V Power Input
2.	+12V	+12V Power Input
3.	GND	Ground
4.	GND	Ground
5.	GND	Ground
6.	BRI-CTRL	Brightness Control
7.	GND	Ground

4.2.3 CN2&CN3: LCD Module Connector

Pin#	Signal Name	Function
1.	HVA	High-Voltage1
2.	HVA	High-Voltage2

4.3 Control Board

4.3.1 Position

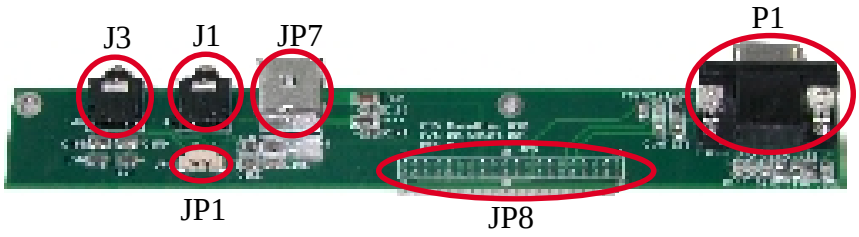
JP9

4.3.2 JP9: Control Connector

Pin#	Signal Name	Function
1.	GLED	Signal Index
2.	RLED	Power on Index
3.	GND	Ground
4.	N.C.	No Connection
5.	GND	Ground
6.	N.C.	No Connection
7.	GND	Ground
8.	RDKEY+	Increase
9.	RDKEY-	Decrease
10.	GND	Ground
11.	RDKEYS	Select Function
12.	MENU	Menu Control

4.4 Connector Board

4.4.1 Position



4.4.2 P1: VGA Input Connector

Pin#	Signal Name	Function
1.	Rin	Red Input
2.	Gin	Green Input
3.	Bin	Blue Input
4.	N.C.	No Connection
5.	Ground	Ground
6.	RRET	Red Return
7.	GRET	Green Return
8.	BRET	Blue Return
9.	N.C.	No Connection
10.	Ground	Ground
11.	N.C.	No Connection
12.	N.C.	No Connection
13.	HSYIN	Horizontal Sync. Input
14.	VSYIN	Vertical Sync. Input
15.	N.C.	No Connection

4.4.3 J1: Audio-In Connector

Pin#	Signal Name	Function
1.	Ground	Ground
2.	BAPC_L	Left Channel Input
3.	N.C.	No Connection
4.	N.C.	No Connection
5.	BAPC_R	Reft channel Input

4.4.4 J3: Audio Output Connector

Pin#	Signal Name	Function
1.	BARET	Ground
2.	BAER_L	Left channel of Ear phone
3.	BSPK_L	Left channel of Speaker
4.	BSPK_R	Right channel of Speaker
5.	BAER_R	Right channel of Ear phone

4.4.5 JP7: Power Connector

Pin#	Signal Name	Function
1.	+5V	+5V
2.	+5V	+5V
3.	12V	+12V
4.	Ground	Ground
5.	N.C.	No Connection

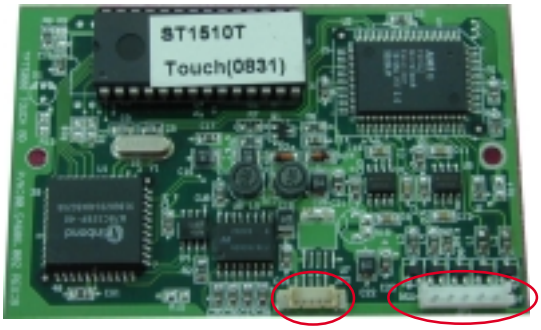
4.4.6 JP8: Power/signal Connector

Pin#	Signal Name	Function
1.	+12V	+12V
2.	+12V	+12V
3.	+12V	+12V
4.	Ground	Ground
5.	+5V	+5V
6.	Ground	Ground
7.	+5V	+5V
8.	Ground	Ground
9.	+5V	+5V
10.	+5V	+5V
11.	Ground	Ground
12.	Ground	Ground
13.	Ground	Ground
14.	Ground	Ground
15.	N.C.	No Connection

Pin#	Signal Name	Function
16.	N.C.	No Connection
17.	N.C.	No Connection
18.	N.C.	No Connection
19.	N.C.	No Connection
20.	N.C.	No Connection
21.	Ground	Ground
22.	Ground	Ground
23.	N.C.	No Connection
24.	N.C.	No Connection
25.	N.C.	No Connection
26.	N.C.	No Connection
27.	Ground	Ground
28.	Ground	Ground
29.	VSYIN	Vertical Sync. Input
30.	HSYIN	Horizontal Sync. Input
31.	N.C.	No Connection
32.	N.C.	No Connection
33.	Ground	Ground
34.	Ground	Ground
35.	BIN	Blue Input
36.	Ground	Ground
37.	GIN	Green Input
38.	Ground	Ground
39.	RIN	Red Input
40.	Ground	Ground

4.5 Touch Board

4.5.1 Position



4.5.2 JP1: Touch Panel Connector

Pin#	Signal Name	Fuction
1	UL	Up-Left
2	UR	UP-Right
3	Sense	Sense
4	LR	Low-Right
5	LL	Low-Left
6	GND	Ground

4.5.3 JP2: Touch Connector

Pin#	Signal Name	Fuction
1	VCC12V	+12V
2	GND	Ground
3	STXDB2	Transmic Serial Data
4	STXDB2	Recieve Serial Data
5	GND	Ground

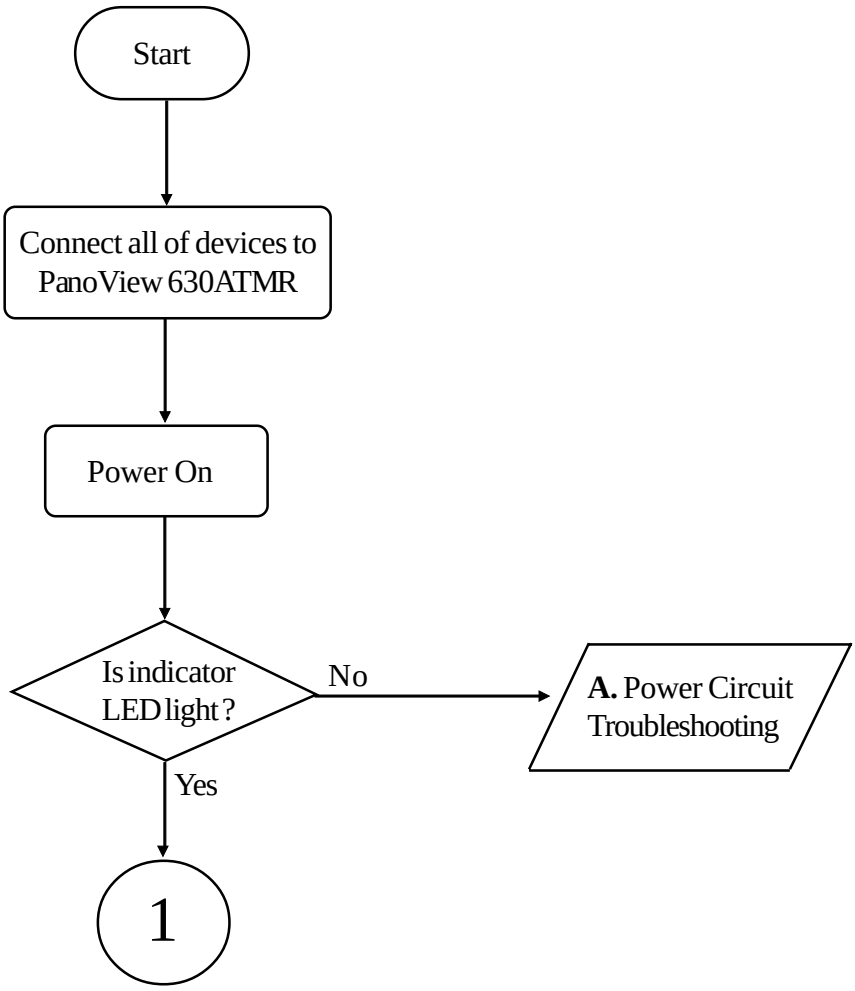
Chapter 5

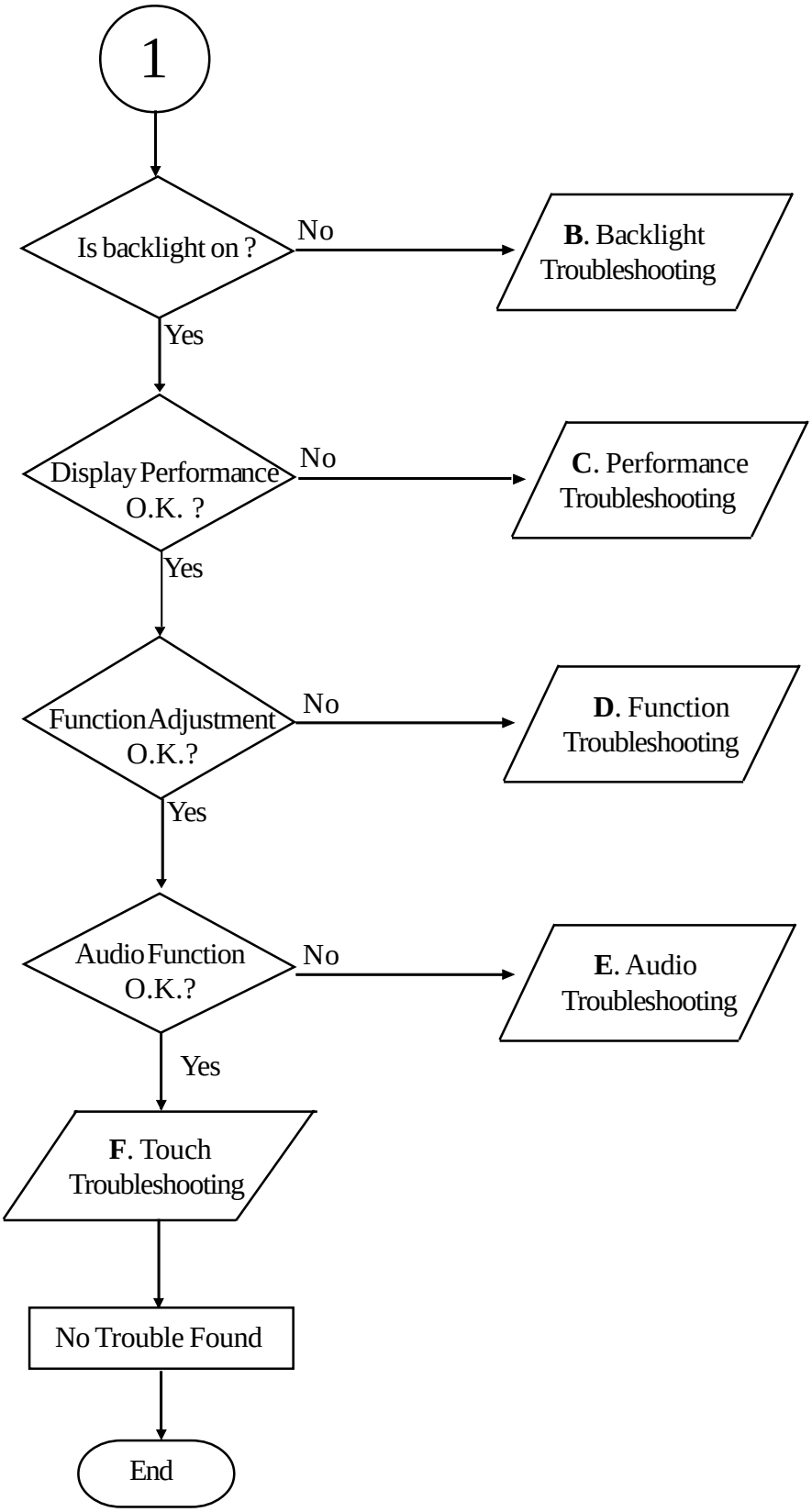
Troubleshooting

5.1 Equipment

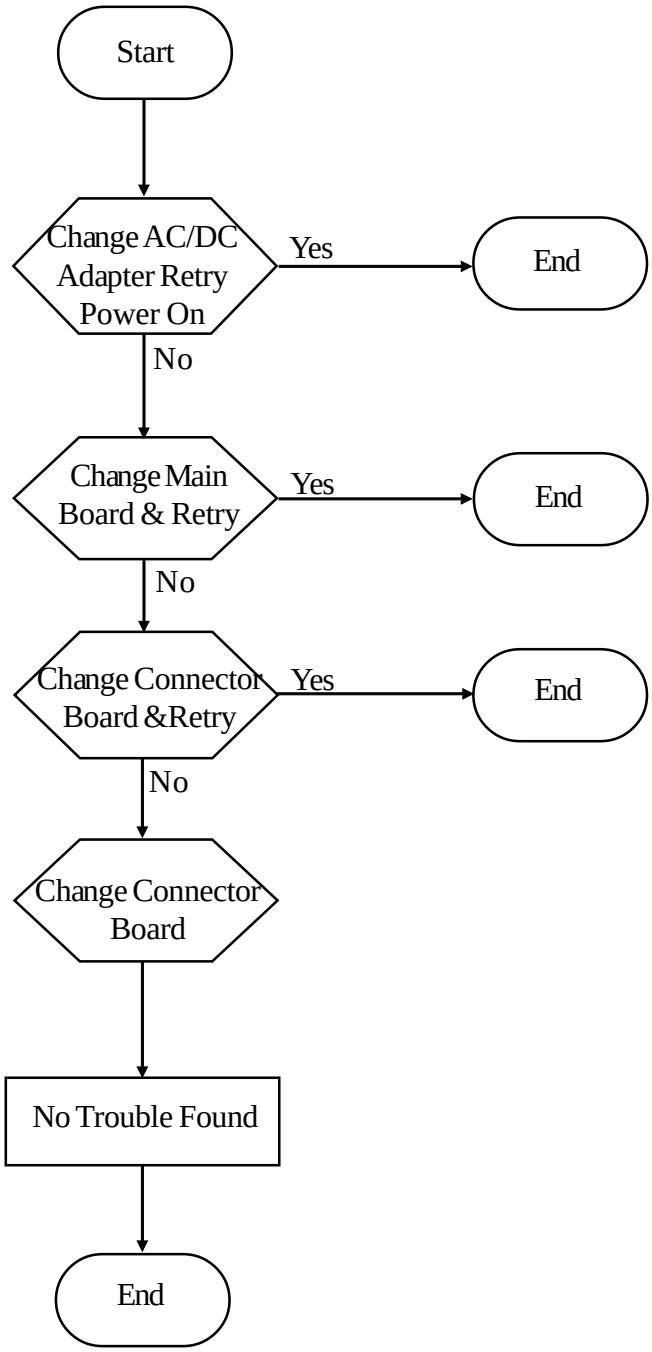
- ❖ PanoView 630ATMR series
- ❖ PC (Personal Computer) with SVGA Card
- ❖ Screw Driver

5.2 Main Procedure

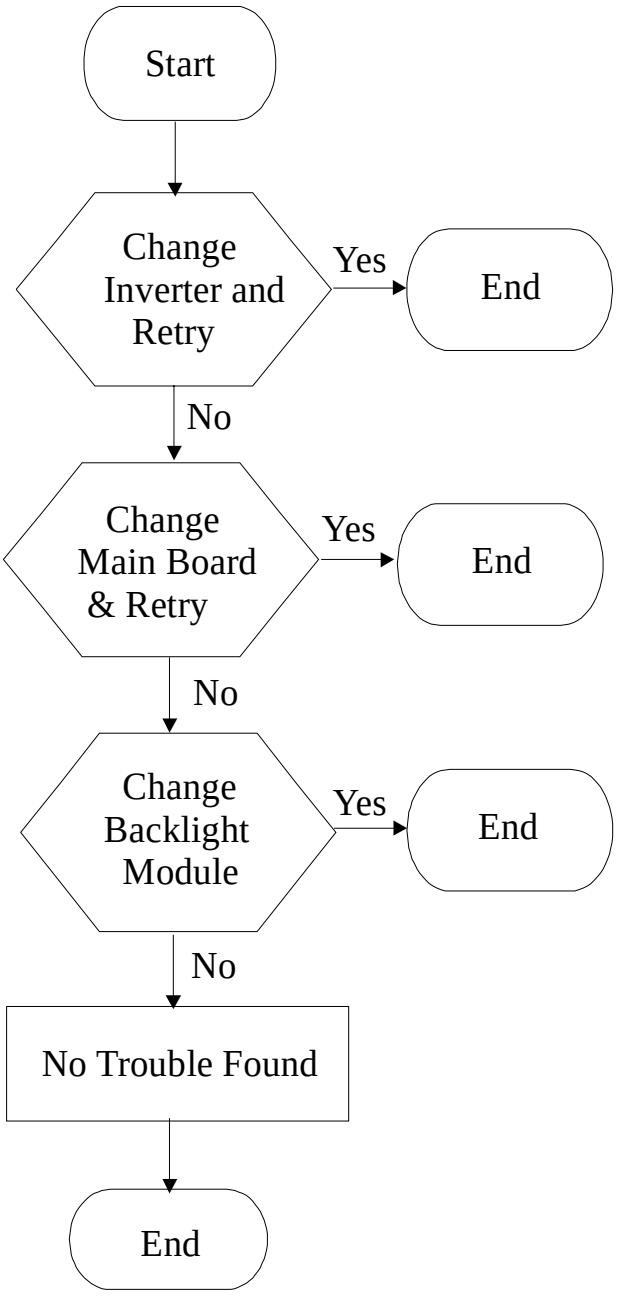



1
Is backlight on ?
No
B. Backlight Troubleshooting
Yes
Display Performance O.K. ?
No
C. Performance Troubleshooting
Yes
Function Adjustment O.K.?
No
D. Function Troubleshooting
Yes
Audio Function O.K.?
No
E. Audio Troubleshooting
Yes
F. Touch Troubleshooting
No Trouble Found
End

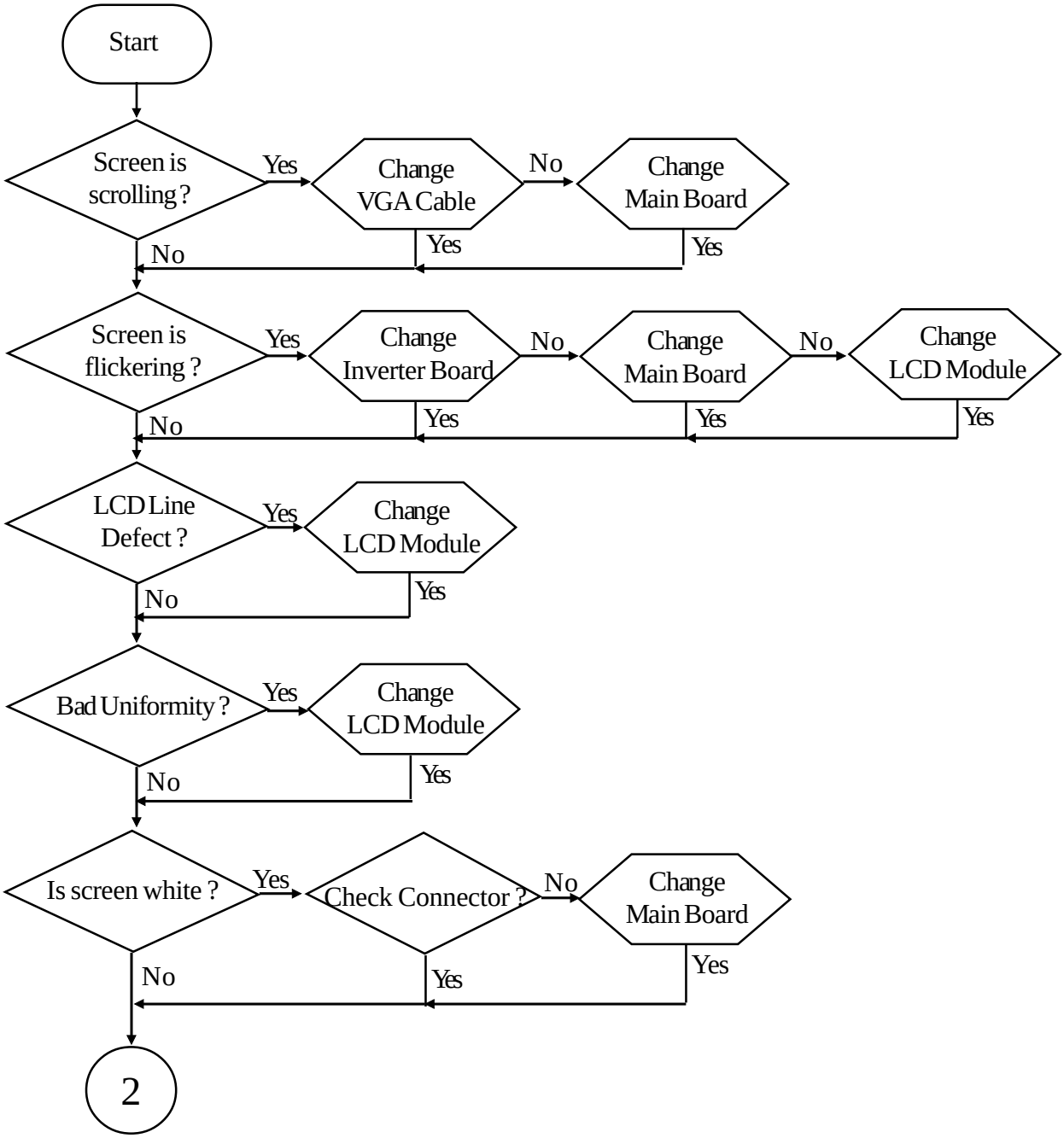
5.2.1 A.Power Circuit Troubleshooting

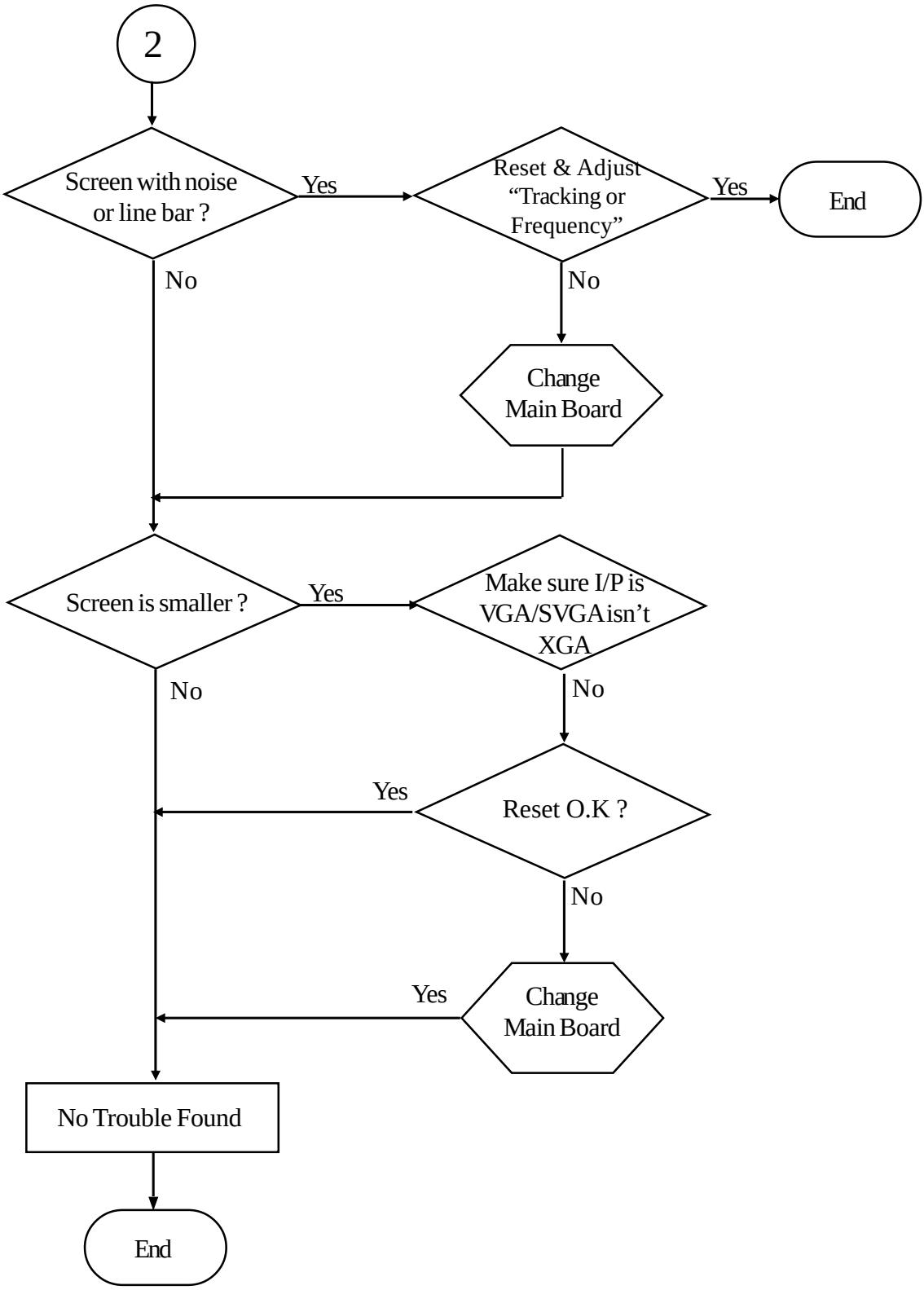


5.2.2 B. Backlight Troubleshooting

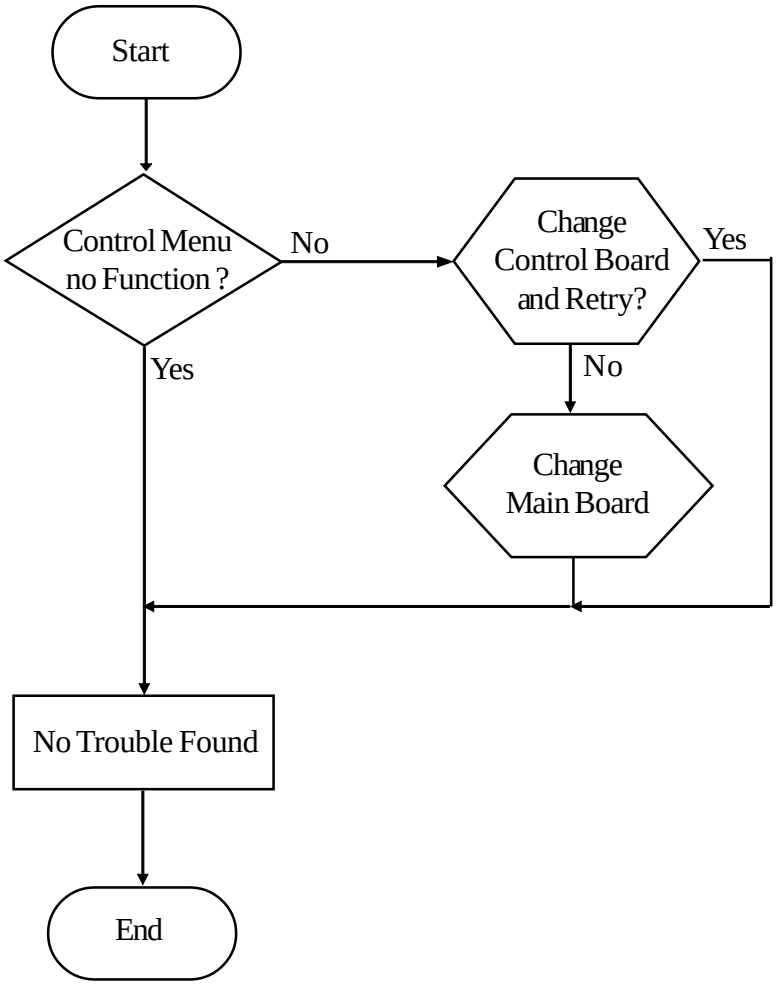


5.2.3 C.Performance Troubleshooting

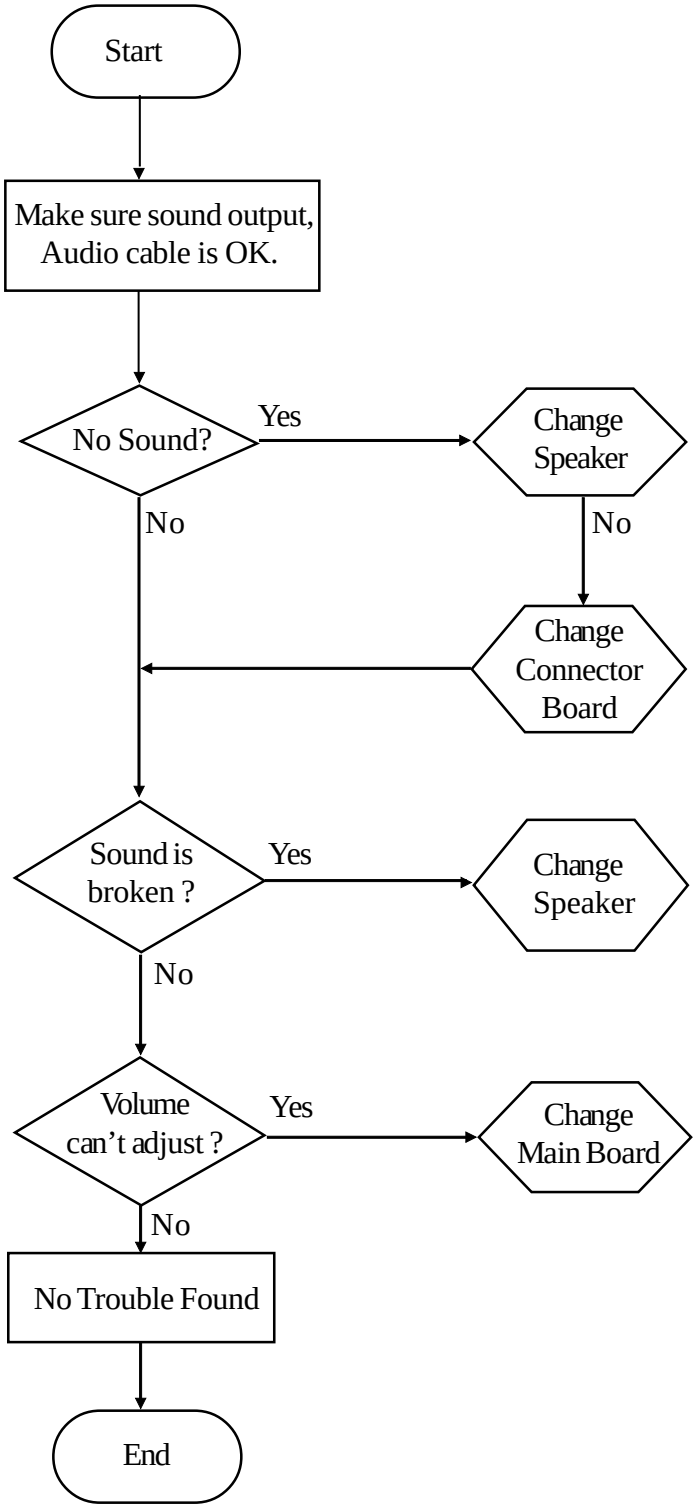



2
Screen with noise or line bar ?
Yes
Reset & Adjust "Tracking or Frequency"
Yes
End
No
No
Change Main Board
Screen is smaller ?
Yes
Make sure I/P is VGA/SVGA isn't XGA
No
No
Yes
Reset O.K ?
No
Yes
Change Main Board
No Trouble Found
End

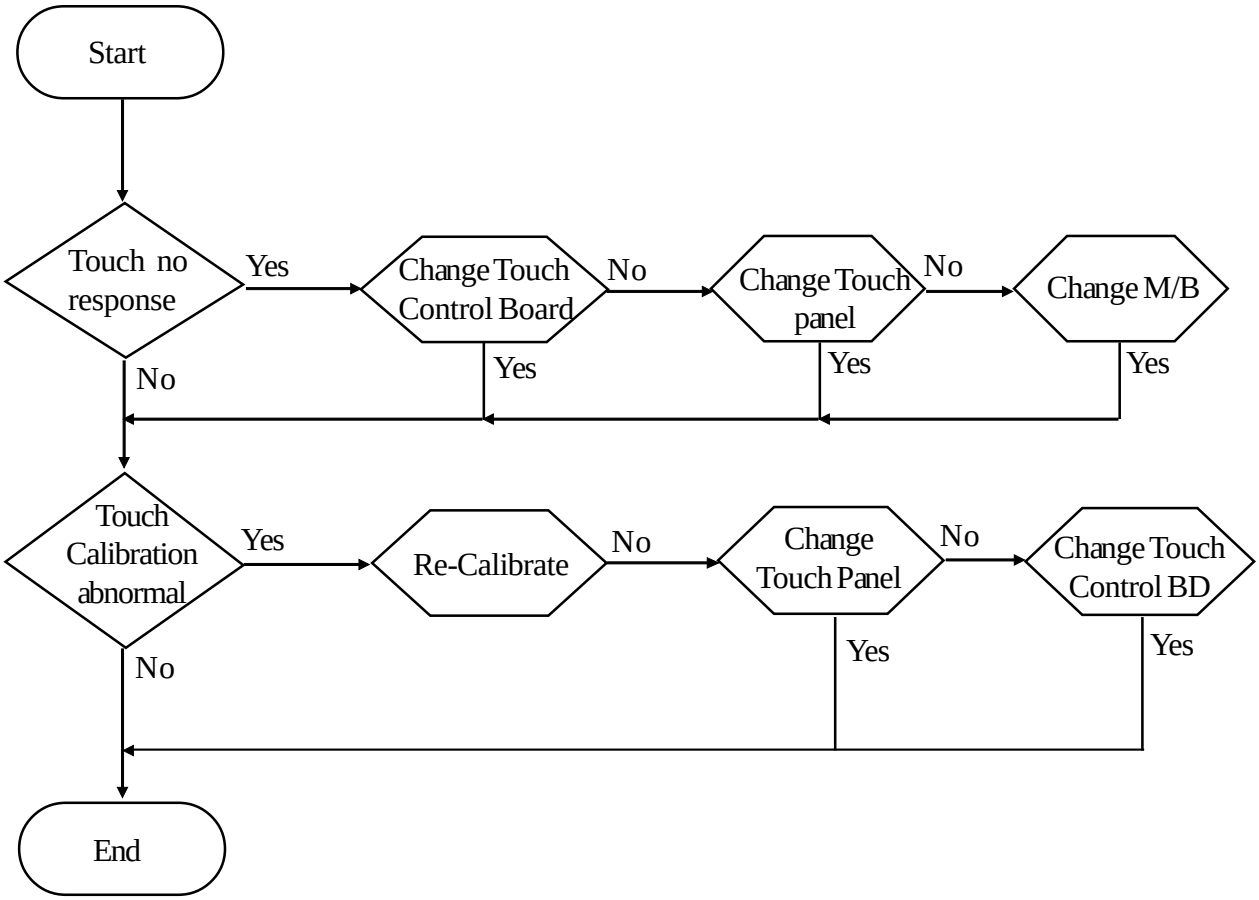
5.2.4 D. Function Troubleshooting



5.2.5 E. Audio Troubleshooting



5.2.6 F. Touch Function Trouble Shooting



Chapter 6

Specification

6.1 LCD panel

6.1.1 General Specification

Display Mode	TN color (64 gray scales, 256k colors) Transmissive type, Normally white (❖ k=1024)
Viewing Direction	6 o'clock (in direction of maximum contrast)
Driving Method	TFT Active matrix
Input Signals	NCLK (clock). ENAB (compound synchronization signal) R5~R0 (Red display data) G5~G0 (Green display data) B5~B0 (Blue display data)
Dimensional Outline	290.0(W)*220.0(H)*15(max)(D)mm
Active Area	246.0*184.5 mm
Viewing Area	247.5*186.0 mm
Number of Pixels	800 (H)*600 (V)
Pixel Pitch	0.3075 (H)*0.3075 (V) mm
Pixel Arrangment	RGB Vertical Stripes
Surface Treatment	Anti-glare and hard coat 3H on LCD surface
Backlight	Twin cold-cathode fluorescent lamps for side lighting

6.1.2 Pixel Specification for Optoma Model PV630ATMR Monitor

Item	Description/ Specification	Class
Function	No display, Malfunction	Major
Display Quality	Missing Line	Major
	Missing Sub-Pixels 1) Bright defects : 10pcs Maximum 2) Dark defects : 10pcs Maximum 3) Total sub-pixel defects : 15pcs Maximum 4) Total numbers of sub-pixel bright defects within 10mm in diameter : 4pcs Maximum	Minor
	Inconspicuous flicker, crosstalk, newton ring and other defects : neglect	---
Black and White Spot/Lines	Inconspicuous defects : neglect	---
Backlight	Missing (non-operating)	Major

Note:

1) Defect of both color filter and black matrix are counted as a bright or dark defect. Inspection are shoould be within an active area (246.0*184.5mm^2)
2) Bright defect means a bright spot (sub-pixel) on the display pattern of gray scale L0. Dark defect means a dark spot (sub-pixel) on the display pattern of gray scale L63.
3) Bright defect, which can not be found by using 5%ND-filter, shall not be counted as a defect.

6.1.2 Dot Defect

	Current Spec.	New Spec.
Bright defects	10 pcs. maximum	5 pcs. maximum
Dark defects	10 pcs. maximum	5 pcs. maximum
Total subpixel	15 pcs. maximum	8 pcs. maximum
Total numbers of sub-pixel defects within 10mm in diamater	Bright defects 4pcs. maximum	5pcs. maximum Bright defects 4 pcs. maximum Dark defects 4 pcs. maximum

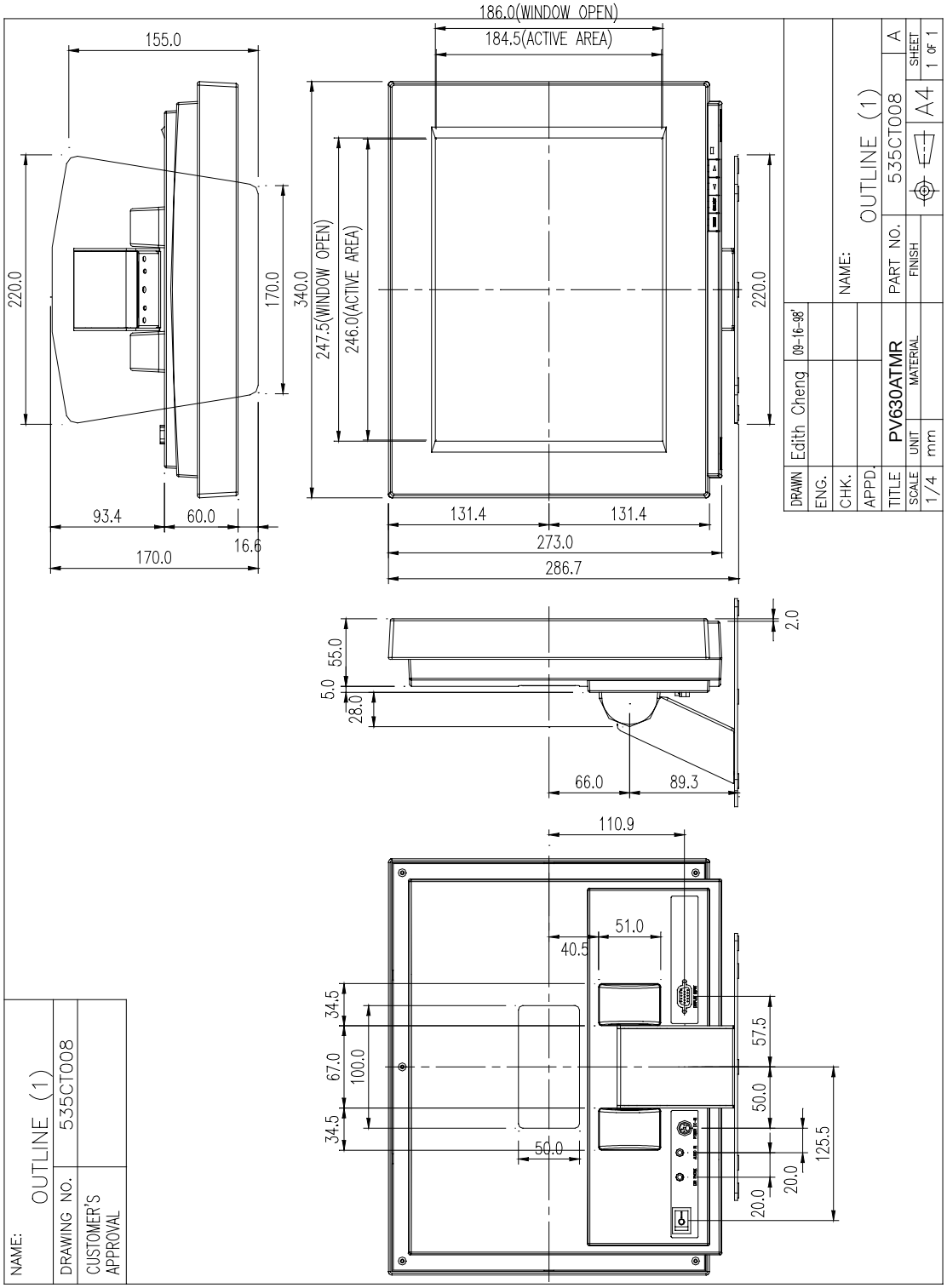
Chapter 7

Appendix

7.1 Compatible Modes

Standard	*Resolution*	*Vertical Refresh*	*Horizontal scan*
IBM VGA	640*350	70	31.5
VESA VGA	640*350	85	37.9
IBM VGA	640*400	70	31.5
VESA VGA	640*400	85	37.9
IBM VGA	720*400	70	31.5
VESA VGA	720*400	85	37.9
IBM VGA	640*480	60	31.5
VESA VGA	640*480	72	37.9
VESA VGA	640*480	75	37.5
VESA VGA	640*480	85	43.2
VESA SVGA	800*600	56	35.2
VESA SVGA	800*600	60	37.9
VESA SVGA	800*600	72	48.1
VESA SVGA	800*600	75	46.9
Apple Mac LC	640*480	67	34.9
Apple Mac II	640*480	67	35.0

7.2 Outline Demension of PanoView 630ATMR



7.3 The serial number system definition

7.3.1 The serial number for LCD display

A	BBB	Y	WW	C	D	BEMO	EEEE
1	2	3	4	5	6	7	8

1. A = Optoma B~Z = OEM
2. Production Code (ex: 535=PanoView 630ATMR)
3. Y=Last number of the year (ex: 1999--9, 2000--0)
4. Week of Year
5. Panel vendor code
6. Electrical classification
7. B: BIOS version , E: PCB board version , M: Mechanical version , O: Optical version
8. Serial Code (from 0001~)

EX: A535950T062200545

A535950T062200545 represents PanoView 630ATMR whole serial number which includes version A of main board, version sixth of BIOS. This model is produced on week 50 1999 for universal area and serial code is 0545.

7.3.2 The definition of PCBA main board serial number

L	BB	M	Y	M	A1	AAAA
1	2	3	4	5	6	7

1 : L: LPP, M: LMT

2 : BB: Model code (ex: 91= PanoView 630ATMR.....etc.)

3 : M: Main Board A:A/V Board D: Driver Board

4 : Last number of the year (ex: 1999--9, 2000--0)

5 : M: Month (Jan.~Sep.=1~9, Oct.~Dec.=X.Y.Z.)

6 : A1: version (A1~AZ, B1~BZ.....)

7 : Serial Code (from 0001~)

Ex: M91M02C40143

This label "M91M02C40143" represents the version C4 of the Main board of PanoView 630ATMR on February, 2000.

25mm*14mm

Reader's Response

Dear readers :

Thank you for your backing our service manual up. In order to refine our content of the service manual and satisfy your requirement. We expect you can offer us some precious opinions for reference.

Assessment :

A. How do you feel the content after reading the PV630ATMR Service Manual ?

Unit	Excellent	Good	Fair	Bad
1. Introduction				
2. Mechanical Construction				
3. Procedure of Disassembly				
4.Fuction of Boards				
5.Troubleshooting				
6.Specification				
7.Appendix				

B. Are you satisfied with PV630ATMR Service Manual ?

Unit	Excellent	Good	Fair	Bad
1. Service Manual Content				
2. Service Manual Layout				
3. The Form and Listing				

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

_____

_____

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Company :			
Address :			
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E-mail Address:			

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