Acer AL1511

Service Guide

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Conventions

The following conventions are used in this manual

:

Screen messages	Denotes actual messages that appear on screen.
NOTE	Gives bits and pieces of additional information related to the current topic.
WARNING	Alerts you to any damage that might result from doing or not doing specific actions.
CAUTION	Gives precautionary measures to avoid possible hardware or software problems.
IMPORTANT	Reminds you to do specific actions relevant to the accomplishment of procedures.

Preface

Before using this information and the product it supports, please read the following general information.

1. This Service Guide provides you with all technical information relating to the BASIC CONFIGURATION
decided for Acer's "global" product offering. To better fit local market requirements and enhance product competitiveness, your regional office MAY have decided to extend the functionality of a machine (e.g.add-on card, modem, or extra memory capability).
These LOCALIZED FEATURES will NOT be covered in this generic service guide.
In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.

2. Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide.
For ACER-AUTHORIZED SERVICE PROVIDERS, your Aceroffice may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide.
You MUST use the list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

WARNING: (FOR FCC CERTIFIED MODELS)

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

NOTICE:

1. The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
2. Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.
3. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. It is the responsibility of the user to correct such interference.

As an ENERGY STAR® Partner our company has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

WARNING:

To prevent fire or shock hazard, do not expose the monitor to rain or moisture. Dangerously high voltages are present inside the monitor. Do not open the cabinet. Refer servicing to qualified personnel only.

PRECAUTIONS

- Do not use the monitor near water, e.g. near a bathtub, washbowl, kitchen sink, laundry tub, swimming pool or in a wet basement.
- Do not place the monitor on an unstable trolley, stand, or table. If the monitor falls, it can injure a person and cause serious damage to the appliance. Use only a trolley or stand recommended by the manufacturer or sold with the monitor. If you mount the monitor on a wall or shelf, use a mounting kit approved by the manufacturer and follow the kit instructions.
- Slots and openings in the back and bottom of the cabinet are provided for ventilation. To ensure reliable operation of the monitor and to protect it from overheating, be sure these openings are not blocked or covered. Do not place the monitor on a bed, sofa, rug, or similar surface. Do not place the monitor near or over a radiator or heat register. Do not place the monitor in a bookcase or cabinet unless proper ventilation is provided.
- The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- The monitor is equipped with a three-pronged grounded plug, a plug with a third (grounding) pin. This plug will fit only into a grounded power outlet as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to ground the appliance safely. Do not defeat the safety purpose of the grounded plug.
- Unplug the unit during a lightning storm or when it will not be used for long periods of time. This will protect the monitor from damage due to power surges.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- Never push any object into the slot on the monitor cabinet. It could short circuit parts causing a fire or electric shock. Never spill liquids on the monitor.
- Do not attempt to service the monitor yourself; opening or removing covers can expose you to dangerous voltages and other hazards. Please refer all servicing to qualified service personnel
- To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100 - 240V AC, Min. 3.5A.
- The wall socket shall be installed near the equipment and shall be easily accessible.
- For use only with the attached power adapter (output 12V DC)which have **UL,CSA** listed license

SPECIAL NOTES ON LCD MONITORS

The following symptoms are normal with LCD monitor and do not indicate a problem.

NOTES

- Due to the nature of the fluorescent light, the screen may flicker during initial use. Turn off the Power Switch and then turn it on again to make sure the flicker disappears.
- You may find slightly uneven brightness on the screen depending on the desktop pattern you use.
- The LCD screen has effective pixels of 99.99% or more. It may include blemishes of 0.01% or less such as a missing pixel or a pixel lit all of the time.
- Due to the nature of the LCD screen, an afterimage of the previous screen may remain after switching the image, when the same image is displayed for hours. In this case, the screen is recovered slowly by changing the image or turning off the Power Switch for hours.

Table of Contents

Monitor Features

		QDI(Option)	SHARP(Option)
LCD Panel	Driving system	TFT Color LCD	TFT Color LCD
	Size	38cm(17.0")	38cm(17.0")
	Pixel pitch	0.297mm(H)x 0.297mm(V)	0.297mm(H)x 0.297mm(V)
	Brightness	250cd/m^2 (Typical)	300cd/m^2 (Typical)
	Contrast	350:1(Typical)	450:1(Typical)
	Viewable angle	140° (H) 125° (V)	140° (H) 130° (V)
	Response time	25ms(Tr+Tf),Tr=8ms,Tf=17ms	25 ms(Tr+Tf)Tr=9ms/Tf=16ms
Input	Video	R,G,B Analog Interface	R,G,B Analog Interface
	Separate Sync.	H/V TTL	H/V TTL
	H-Frequency	30KHz – 60KHz	30KHz – 60KHz
	V-Frequency	55-75Hz	55-75Hz
Display Colors		16.2M Colors	16.2M Colors
Dot Clock		80MHZ	80MHZ
Max. Resolution		1024 x 768 @75Hz	1024 x 768 @75Hz
Plug & Play		VESA DDC1/2B™	VESA DDC1/2B™
EPA ENERGY STAR®	ON Mode	⩽30W	⩽30W
	OFF Mode	⩽3W	⩽3W
Input Connector		D-Sub 15pin	
Input Video Signal		Analog:0.7Vp-p(standard), 75 OHM, Positive	Analog:0.7Vp-p(standard), 75 OHM, Positive
Maximum Screen Size		Horizontal : 337.92mm Vertical : 270.34mm	Horizontal : 337.92mm Vertical : 270.34mm
Power Source		100~264VAC,47~63HZ	100~264VAC,47~63HZ
Environmental Considerations		Operating Temp: 5° to 50°C Storage Temp.: -20° to 65°C Operating Humidity: 10% to 85%	Operating Temp: 5° to 50°C Storage Temp.: -20° to 65°C Operating Humidity: 10% to 85%
Dimensions		415(W)X423(H)X152(D)	
Weight (N. W.)		5.0kg Unit (net)	

External Controls:	Switch	• Auto Adjust Key • </ Volume down(option) • >/ Volume up(option) • Power Button • MENU/ Exit	• Auto Adjust Key • </ Volume down(option) • >/ Volume up(option) • Power Button • MENU/ Exit
	Functions	• Contrast • Brightness • Focus • Clock • H.Position • V.Position • Input Selected • Language • Dos-mode resolution selected • (Warm) Color • (Cool)Color • RGB Color temperature • Reset • OSD timeout • information • Exit	• Contrast • Brightness • Focus • Clock • H.Position • V.Position • Input Selected • Language • Dos-mode resolution selected • (Warm) Color • (Cool)Color • RGB Color temperature • Reset • OSD timeout • information • Exit
Power Consumption (Maximum)		45 Watts	45 Watts
Audio Output(option)		Rated Power 1W rms (Per channel)	Rated Power 1W rms (Per channel)
Regulatory Compliance		CSA, TÜV/GS, CE, TCO'99, UL	CSA, TÜV/GS, CE, TCO'99, UL

FACTORY PRESET TIMING TABLE

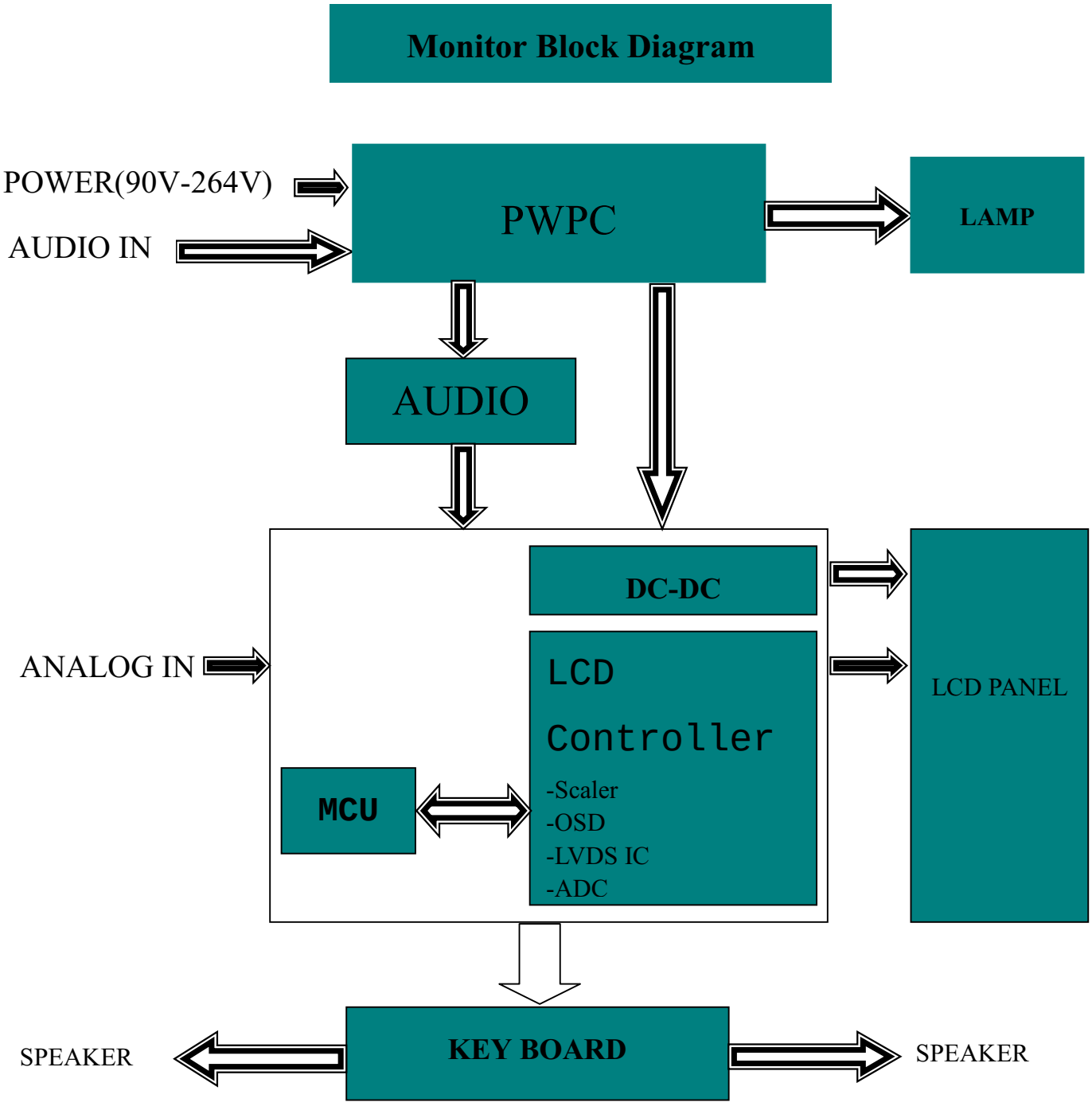
			Horizontal		Vertical		
Mode	Resolution	Total	Nominal Frequency +/- 0.5kHz	Sync Polarity	Nominal Freq. +/- 1 Hz	Sync Polarity	Nominal Pixel Clock (MHz)
VGA	640x480@60Hz	800 x 525	31.469	N	59.940	N	25.175
	640x480@72Hz	832 x 520	37.861	N	72.809	N	31.500
	640x480@75Hz	840 x 500	37.500	N	75.00	N	31.500
SVGA	800x600@56Hz	1024 x 625	35.156	N/P	56.250	N/P	36.000
	800x600@60Hz	1056 x 628	37.879	P	60.317	P	40.000
	800x600@72Hz	1040 x 666	48.077	P	72.188	P	50.000
	800x600@75Hz	1056x625	46.875	P	75.000	P	49.500
XGA	1024x768@60Hz	1344x806	48.363	N	60.004	N	65.000
	1024x768@70Hz	1328x806	56.476	N	70.069	N	75.000
	1024x768@75Hz	1312x800	60.023	P	75.029	P	78.750
IBM MODES							
			Horizontal		Vertical		
DOS	720x400@70Hz	900 x 449	31.469	N	70.087	P	28.322
XGA	1024x768@72Hz	1304 x 798	57.515	P	72.1	P	75.000
MAC MODES							
VGA	640x480@67Hz	864x525	35.000	N	66.667	N	30.240
SVGA	832x624@75Hz	1152x667	49.725	N	74.551	N	57.2832
XGA	1024x768@60Hz	1312x813	48.780	N	60.001	N	64.000
	1024x768@75Hz	1328x804	60.241	N	74.927	N	80.000

Monitor Block Diagram

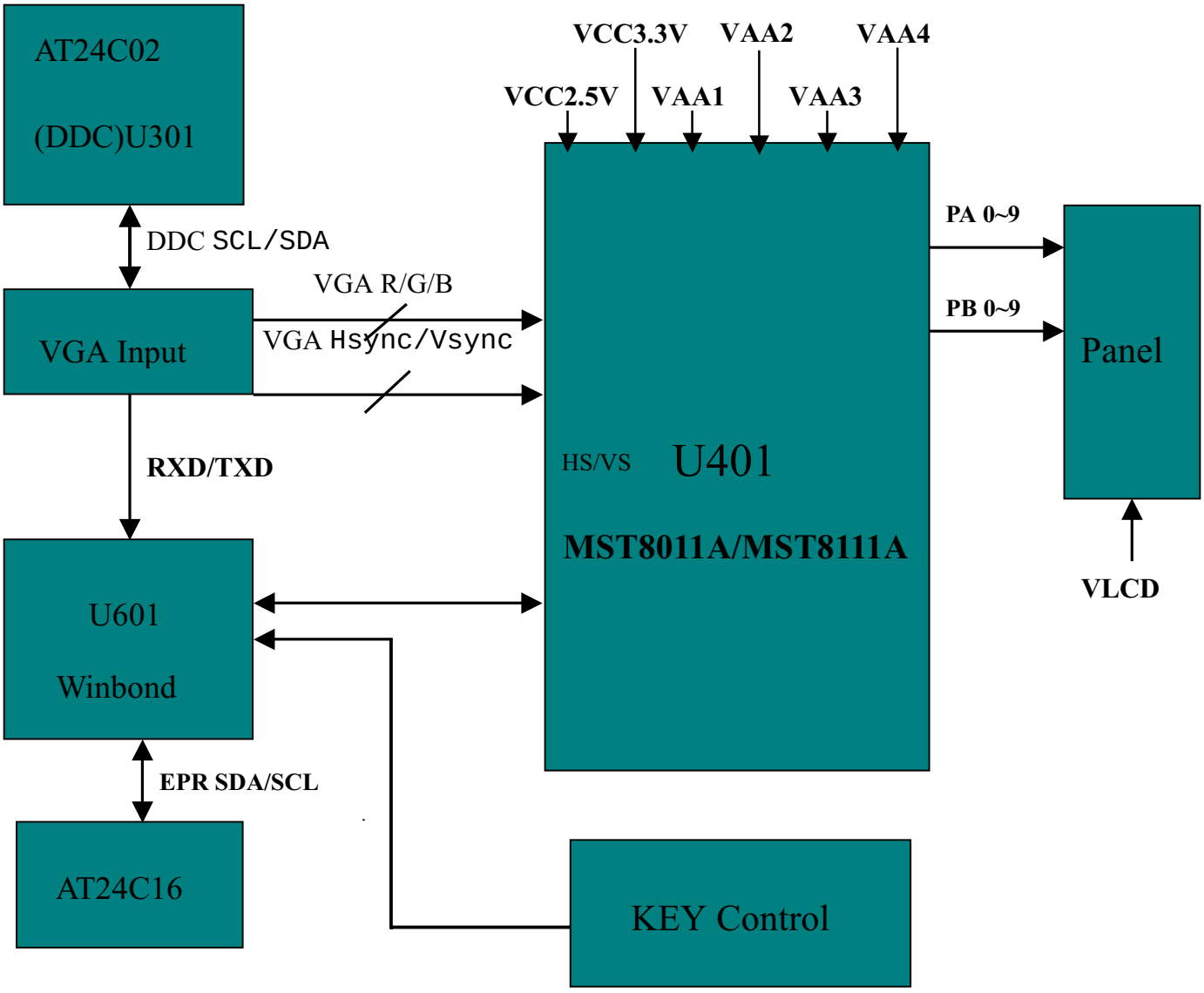
The LCD MONITOR will contain an main board, an inverter/power board, keypad board and internal adapter which house the flat panel control logic, brightness control logic and DDC.

The Inverter board will drive the backlight of panel and the DC-DC conversion.

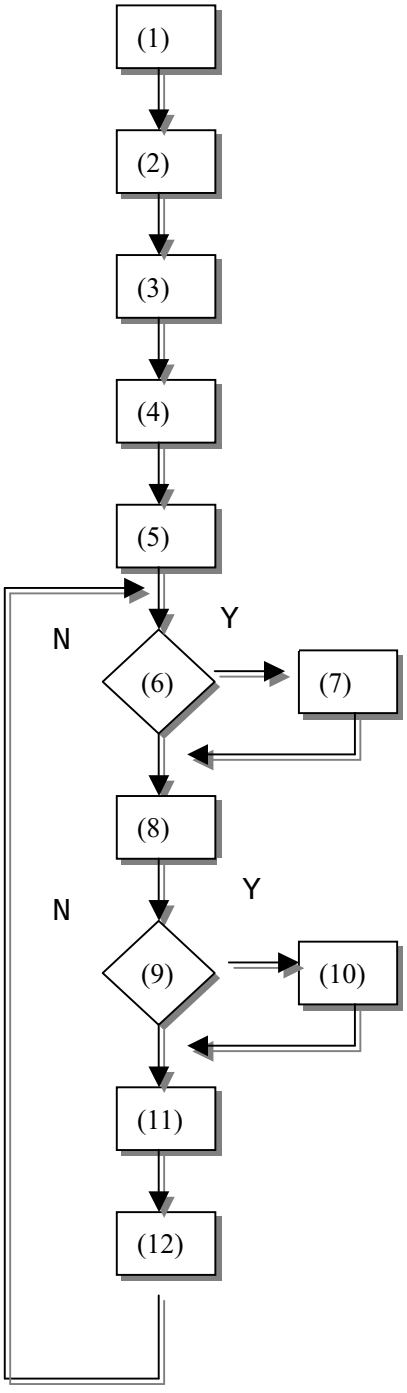
The Adapter will provides the 12V DC-power to inverter/power board.



MAIN BOARD DIAGRAM

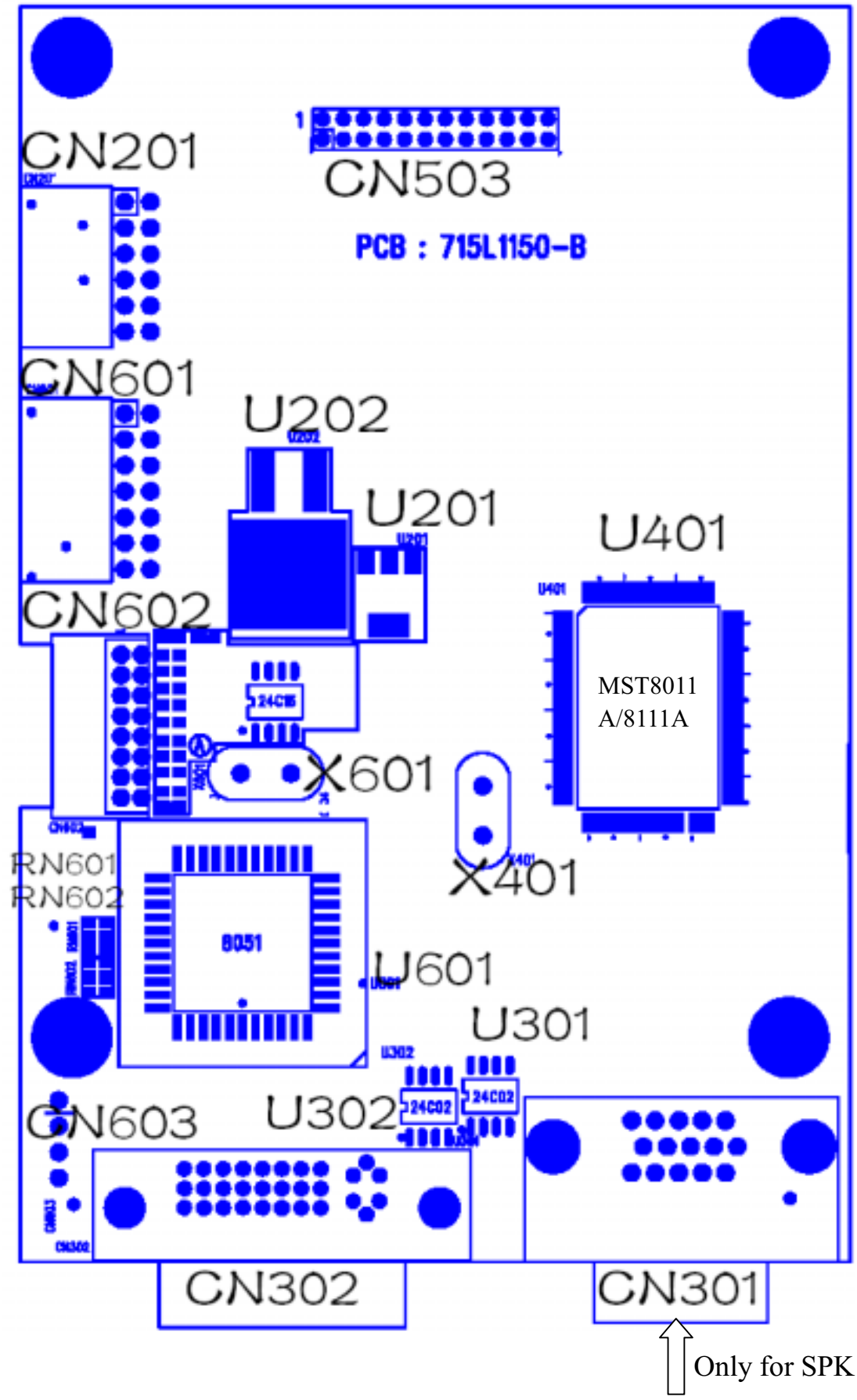


Software Flow Chart



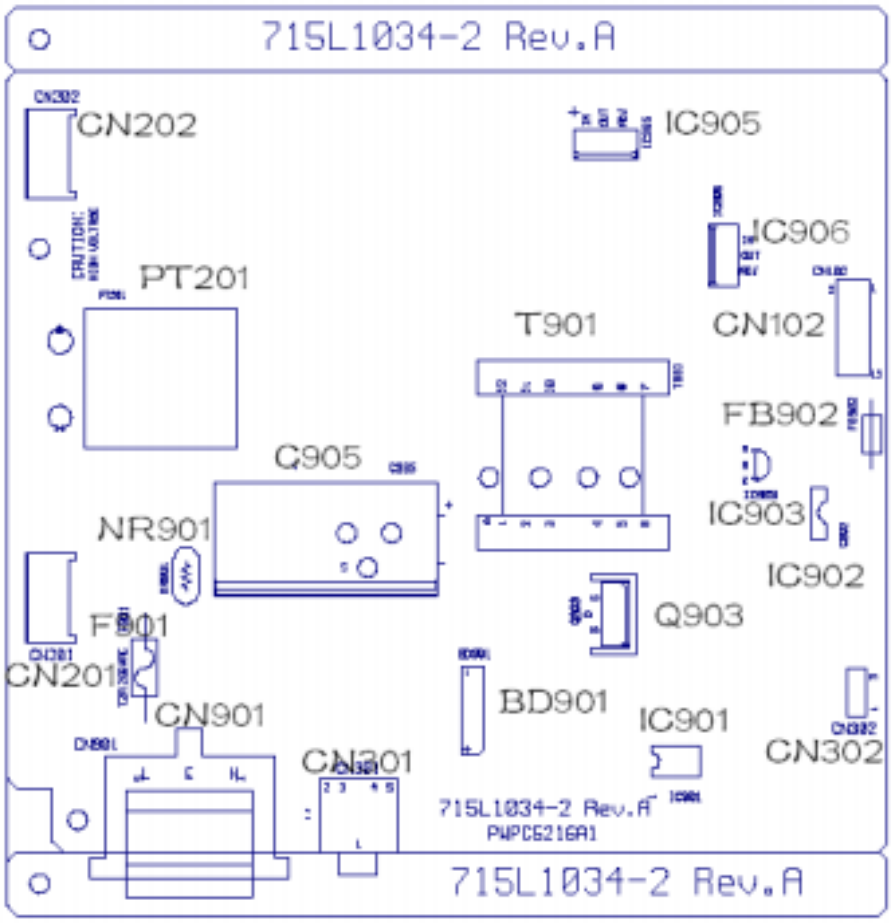
1. **Initialize MCU settings, including I/O, Timer, ISR and Serial Port settings.**
2. **Read EEPROM content to recover monitor settings, including brightness, contrast, color temperature and OSD position …. etc.**
3. **Initialize system variable, including system flag, OSD timeout counter, burin mode status… etc.**
4. **Initialize OSD menu variable for user operation**
5. **Initialize device on the board, now only MST scaler chip will be initialized**
6. **Check if system is in power off status from first AC power up. If yes, then go to 7, else go to 8.**
7. **If yes, system will be forced to enter power off status**
8. **Mode detection**
9. **Check if input timing has been changed, if yes then go to 10, else go to 11**
10. **Setup MST scaler for display according input timing**
11. **OSD handler for OSD operation.**
12. **Debug handler, only debug only**

Mainboard Layout



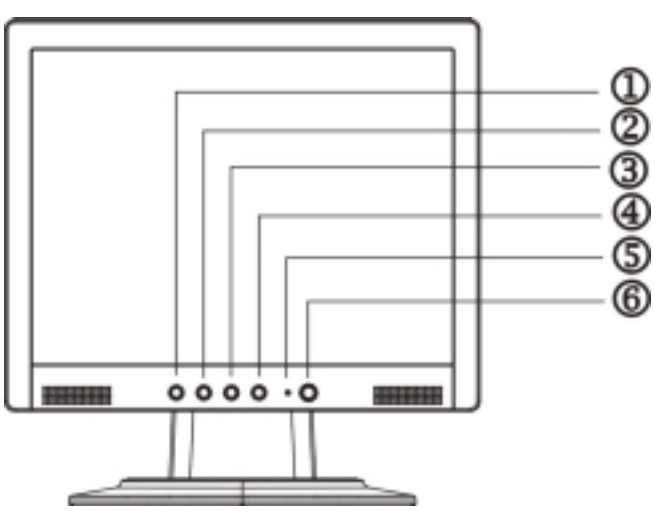
ITEM	Description
X401	CRYSTAL 14.318MHzHC-49U
X601	20MHZ
U201	RT9164-25CG
U202	AIC1084-33CM
U301	M24C02-WMN6T
U401	MST8011A PQFP-128
U601	PLCC SMT CONN PD41C-441
CN201	CONN.2P R/A DIP BY ACES
CN301	PHONE JACK(Only for SPK)
CN302	3 PIN
CN503	PIN HEADER 24P 2.0mm
CN601	PIN EADER
CN602	WAFER 16PIN 2.0mm DIP
RN601	CHIP AR 8P4R 10KOHM +-5
RN602	CHIP AR 8P4R 10KOHM +-5

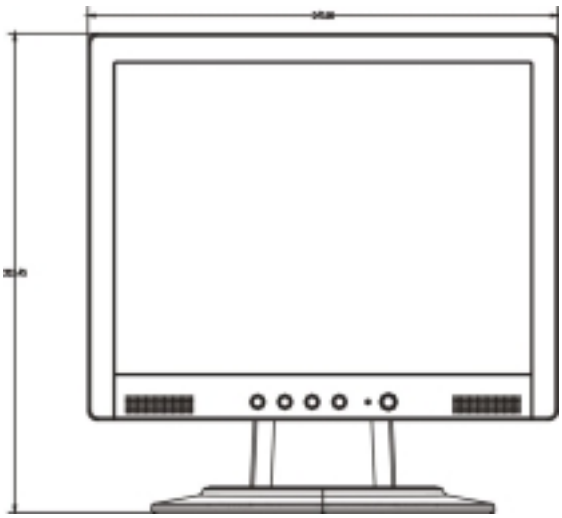
Inverter Board Layout



ITEM	Description
IC901	SG6841D BY SYSTEM
IC902	PC123 Y82
IC903	HTL431
IC905	AIC1084-33CT
IC906	AIC1084CT
PT201	X'FMR
T901	ADAPTOR BY LISHIN
FB902	TIN COATED
NR901	8 OHM NCTR
F901	5.2X20 FUSE
BD901	BRIDGE 2KBP06M
CN102	HEADER 2*6P
CN201	CONN.2P R/A DIP BY ACES
CN202	CONN.2P R/A DIP BY ACES
CN301	PHONE JACK(Only for SPK)
CN302	3 PIN
CN901	AC SOCKET
Q903	2SK2996

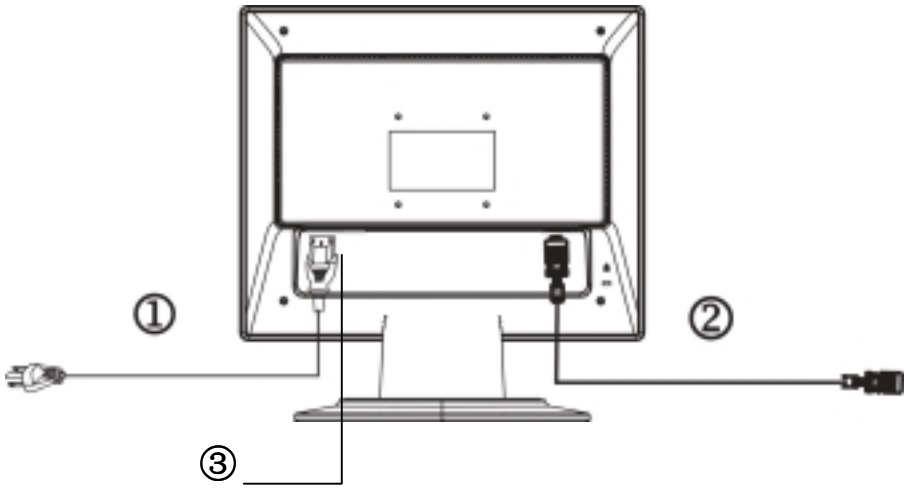
Front Bezel





Item	Description
1	Auto Adjust Key/Exit
2	>/ Volume up(option)
3	</ Volume down(option)
4	MENU/ENTER
5	LED
6	POWER

Rear Bezel



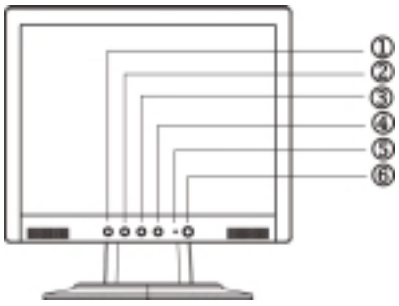
Item	Description
1	AC POWER CORD
2	Signal Cable
3	Audio Cable（Only for speaker）

Chapter 2

Operating Instructions

Press the power button to turn the monitor on or off. The other control buttons are located at front panel of the monitor. By changing these settings, the picture can be adjusted to your personal preferences.

- The power cord should be connected.
- Connect the video cable from the monitor to the video card.
- Press the power button to turn on the monitor position. The power indicator will light up.



External Control Button

EXTERNAL CONTROLS

1.	Auto Adjust Key/Exit	4.	MENU/ENTER
2.	>/ Volume up(option)	5.	LED
3.	</ Volume down(option)	6.	Power Key

FRONT PANEL CONTROLS

- **Power Button:**
  Press this button to turn the monitor ON or OFF.

- **MENU / ENTER :**
  Activate OSD menu when OSD is OFF or activate/de-activate adjustment function when OSD is ON or Exit OSD menu when in Volume Adjust OSD status.

- **</ Volume down:**
  Activates the volume control when the OSD is OFF or navigate through adjustment icons when OSD is ON or adjust a function when function is activated.

- **>/ Volume up:**
  Activates the volume control when the OSD is OFF or navigate through adjustment icons when OSD is ON or adjust a function when function is activated.

- **Auto Adjust button / Exit:**

  1. When OSD menu is in active status, this button will act as EXIT-KEY
     (EXIT OSD menu).
  2. When OSD menu is in off status, press this button for 2 seconds to activate the Auto Adjustment function.
     The Auto Adjustment function is used to set the HPos, VPos, Clock and Focus.

- **Power Indicator:**

  Green — Power On mode.
  Orange — Off mode.

NOTES

- Do not install the monitor in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, or excessive dust or mechanical vibration or shock.
- Save the original shipping carton and packing materials, as they will come in handy if you ever have to ship your monitor.
- For maximum protection, repackage your monitor as it was originally packed at the factory.
- To keep the monitor looking new, periodically clean it with a soft cloth. Stubborn stains may be removed with a cloth lightly dampened with a mild detergent solution. Never use strong solvents such as thinner, benzene, or abrasive cleaners, since these will damage the cabinet. As a safety precaution, always unplug the monitor before cleaning it.

1. Press the MENU-button to activate the OSD window. See figure 4.
2. Press <or >to select the desired function. See figure 4.
3. Press the MENU-button to select the function that you want to adjust.
4. Press < or >to change the settings of the current function.
5. To exit and save, select the exit function. If you want to adjust any other function, repeat steps 2-4.

ADJUSTING THE PICTURE

1.) Main OSD Menu :

a. Outline:

I. Analog-Only Model

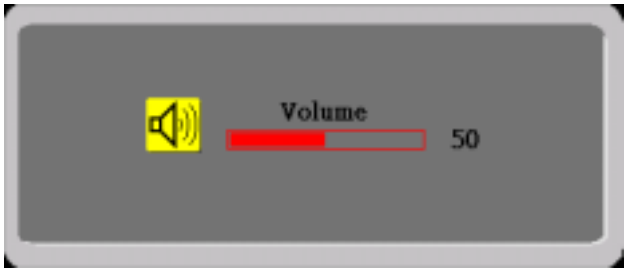
b. The description for control function :

Main Menu Icon	Sub Menu Item	Sub Menu Icon	Description	Adjustment Range	Reset Value
	Contrast		Contrast from Digital-register.	0-100	Recall Cool Contrast Value
	Brightness		Backlight Adjustment	0-100	Recall Cool Brightness Value
	Focus		Adjust Picture Phase to reduce Horizontal-Line noise	0-100	Do Auto Config
	Clock		Adjust picture Clock to reduce Vertical-Line noise.	0-100	Do Auto Config
	H. Position		Adjust the horizontal position of the picture.	0-100	Do Auto Config
	V. Position		Adjust the verticalposition of the picture.	0-100	Do Auto Config
	Warm	N/A	Recall Warm Color Temperature from EEPROM.	N/A	The Color Temperature will be set to Cool. The User R/G/B value(default is 100) will not be Modified by Reset function.
	Cool	N/A	Recall Cool Color Temperature from EEPROM.	N/A	
	User / Red		Red Gain from Digital-register.	0-100	
	User / Green		Green Gain Digital-register.	0-100	
	User / Blue		Blue Gain from Digital-register.	0-100	
	English	N/A	Set OSD display language to English.	N/A	The Language will be set to English.
	繁體中文	N/A	Set OSD display language to Tranditional Chinese.	N/A	
	Deutsch	N/A	Set OSD display language to German.	N/A	
	Français	N/A	Set OSD display language to French.	N/A	
	Español	N/A	Set OSD display language to Spain.	N/A	
	Italiano	N/A	Set OSD display language to Italian.	N/A	
	简体中文	N/A	Set OSD display language to Simplified Chinese.	N/A	
	日本語	N/A	Set OSD display language to Japanese.	N/A	
	H. Position		Adjust the horizontal position of the OSD.	0-100	50
	V. Position		Adjust the verticalposition of the OSD.	0-100	50
	OSD Timeout		Adjust the OSD timeout.	10-120	10

 (Analog-Only Model)	Auto Config	N/A	Auto Adjust the H/V Position, Focus and Clock of picture.	N/A	N/A
	Information	N/A	Show the resolution, H/V frequency and input port of current iput timing.	N/A	N/A
	Reset	N/A	Clear each old status of Auto-configuration and set the color temperature to Cool.	N/A	N/A
	Exit	N/A	Exit OSD	N/A	N/A

2.) Hot-Key Menu(option):

a. Outline:



b. The description for Hot-Key function :

Item	Operation	Icon	Description	Adjustment Range	Reset Value
Volume	When the OSD is closed, press Left or Right button will be Volume Hot-Key Function		Volume of Audio adjustment. The Audio will be Mute when volume=0.	0-100	50

3.) OSD Message:

a. Outline:

b. The description for OSD Message :

Item	Description
Auto Config Please Wait	1.) When Analog signal input, if User Press Hot-Key "Auto", will show this message, and the monitor do the auto config function. 2.) When Digital signal input, without this OSD Message.
Input Not Supported	When the Hsync Frequency, Vsync Frequency or Resolution is out of the monitor support range, will show this message. This message will be flying.
Cable Not Connected	1.) Analog-Only Model : When the video cable is not connected, will show this message. This message will be flying. 2.) Dual-Input Model : Dual-Input Model without this OSD Message.
No Signal	1.) Analog-Only Model : When the video cable is connected, but there is no active signal input, will show this message, then enter power saving. 2.) Dual-Input Model : When the video cable is not connected, or the video cable is connected but there is no active signal input, will show this message, then enter power saving.

4.) LOGO:

When the monitor is power on, the LOGO will be showed in the center, and disappear slowly.

HOW TO OPTIMIZE THE DOS-MODE

PLUG AND PLAY

Plug & Play DDC1/2B Feature

This monitor is equipped with VESA DDC1/2B capabilities according to the VESA DDC STANDARD. It allows the monitor to inform the host system of its identity and, depending on the level of DDC used, communicate additional information about its display capabilities. The communication channel is defined in two levels, DDC1 and DDC2B.
The DDC1 is a unidirectional data channel from the display to the host that continuously transmits EDID information. The DDC2B is a bidirectional data channel based on the I²C protocol. The host can request EDID information over the DDC2B channel.

THIS MONITOR WILL APPEAR TO BE NON-FUNCTIONAL IF THERE IS NO VIDEO INPUT SIGNAL. IN ORDER FOR THIS MONITOR TO OPERATE PROPERLY, THERE MUST BE A VIDEO INPUT SIGNAL.

This monitor meets the Green monitor standards as set by the Video Electronics Standards Association (VESA) and/or the United States Environmental Protection Agency (EPA) and The Swedish Confederation Employees (NUTEK). This feature is designed to conserve electrical energy by reducing power consumption when there is no video-input signal present. When there is no video input signal this monitor, following a time-out period, will automatically switch to an OFF mode. This reduces the monitor's internal power supply consumption. After the video input signal is restored, full power is restored and the display is automatically redrawn. The appearance is similar to a "Screen Saver" feature except the display is completely off. The display is restored by pressing a key on the keyboard, or clicking the mouse.

USING THE RIGHT POWER CORD

The accessory power cord for the Northern American region is the wallet plug with NEMA 5-15 style and is UL listed and CSA labeled. The voltage rating for the power cord shall be 125 volts AC.
Supplied with units intended for connection to power outlet of personal computer: Please use a cord set consisting of a minimum No. 18 AWG, type SJT or SVT three conductors flexible cord. One end terminates with a grounding type attachment plug, rated 10A, 250V, CEE-22 male configuration. The other end terminates with a molded-on type connector body, rated 10A, 250V, having standard CEE-22 female configuration.
Please note that power supply cord needs to use VDE 0602, 0625, 0821 approval power cord in European counties.

Chapter 3

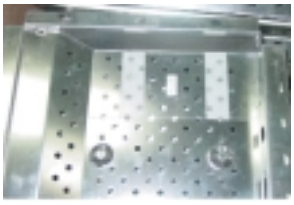
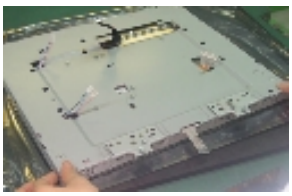
Machine Disassembly

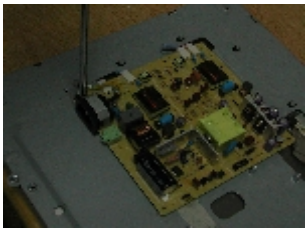
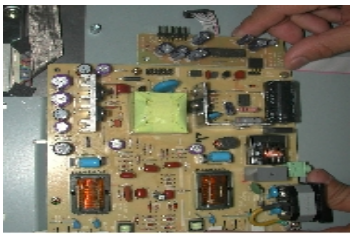
This chapter contains step-by-step procedures on how to assemble the monitor for maintenance and troubleshooting.

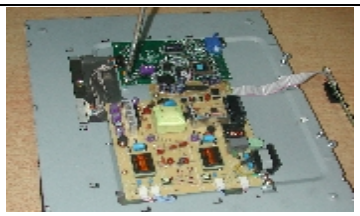
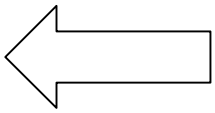
NOTE: 1.The screws for the different components vary in size. During the disassembly process, group the screws with the corresponding components to avoid mismatch when putting back the components.

2. Note: The monitor surface is susceptible to scratching!Therefore,lay the monitor on a soft surface when mounting or removing the base.

3. Wear gloves

Picture	description
 	To stick the insulated film on the mainframe and the shield
 1  2	Make preparation before putting the main board: 1、 insert the wiring harness 2、 stick the soft cushion
	To put the bezel on panel
	To fix the main frame and panel with the screws

Picture	description
	To put inverter board, and connect related interfaces
	To fix the board with screws
	To fix the wires with adhesive tape
	Connect Inverter board with Audio board
	To fix Audio board with screws(only for speaker)
	To connect main board with Audio board(only for speaker)
	To connect all other interfaces

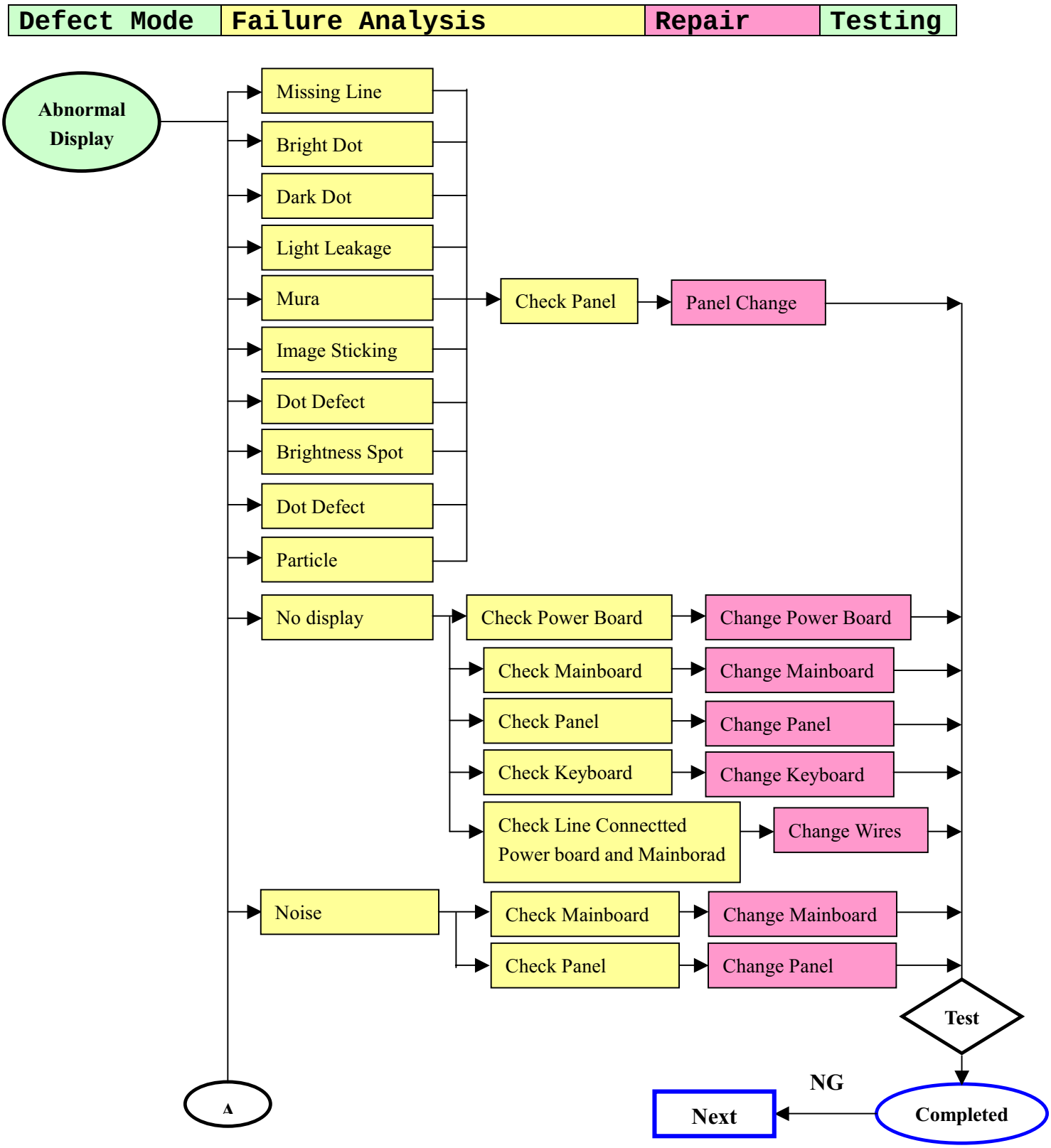
<table>
<tr><td>  </td><td rowspan="3"></td></tr>
<tr><td>  </td></tr>
<tr><td>  </td></tr>
<tr><td>  </td><td>To fix the main board with screws</td></tr>
<tr><td>  </td><td>After having fix the board, cover the shield on them
STRENGTH:  </td></tr>
<tr><td colspan="2">In the end ,cover the back bezel and connect above part with the chassis</td></tr>
</table>

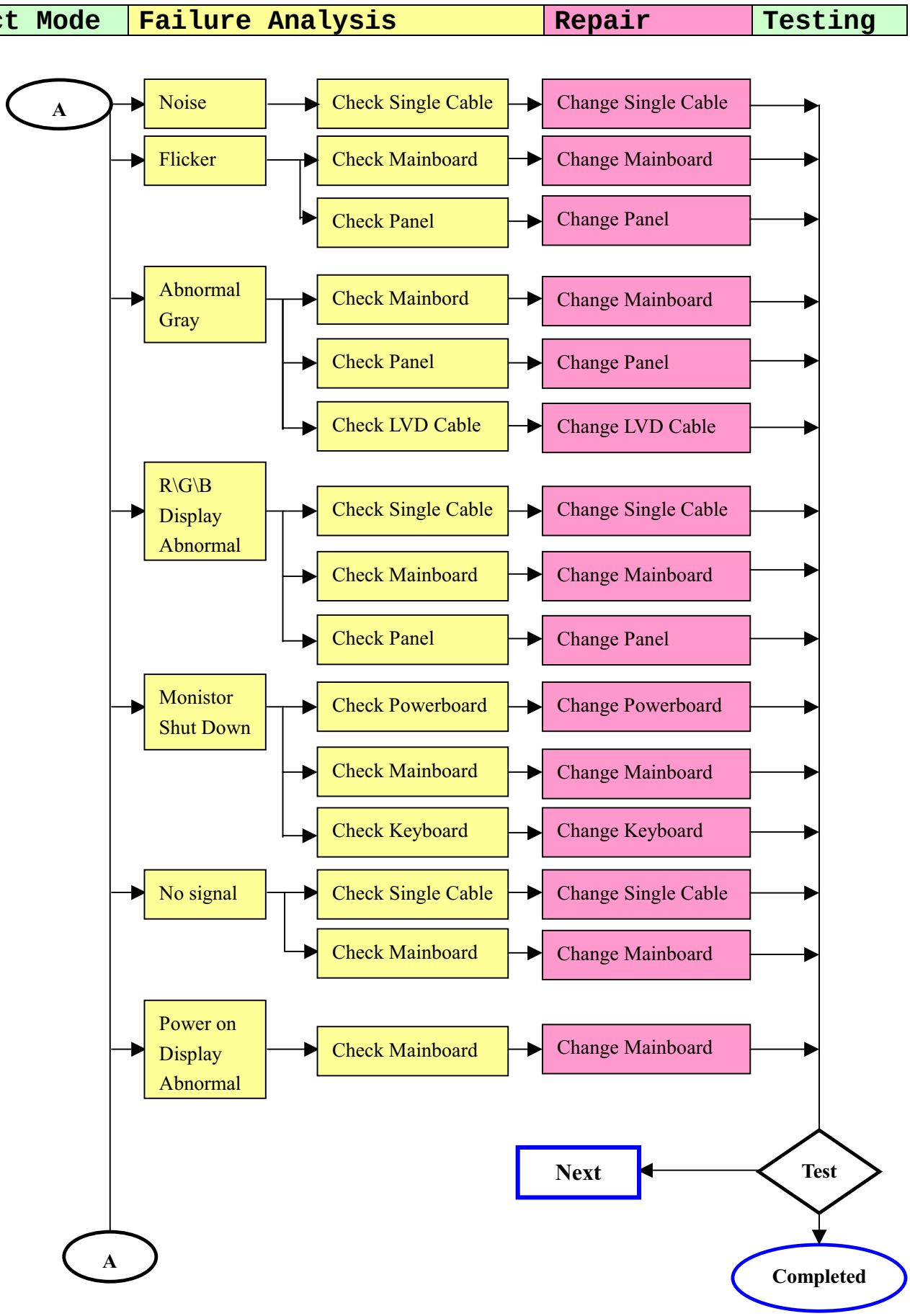
Warning: 1.In order to prevent the static disturbance,wear resisting static ring

2. No watch

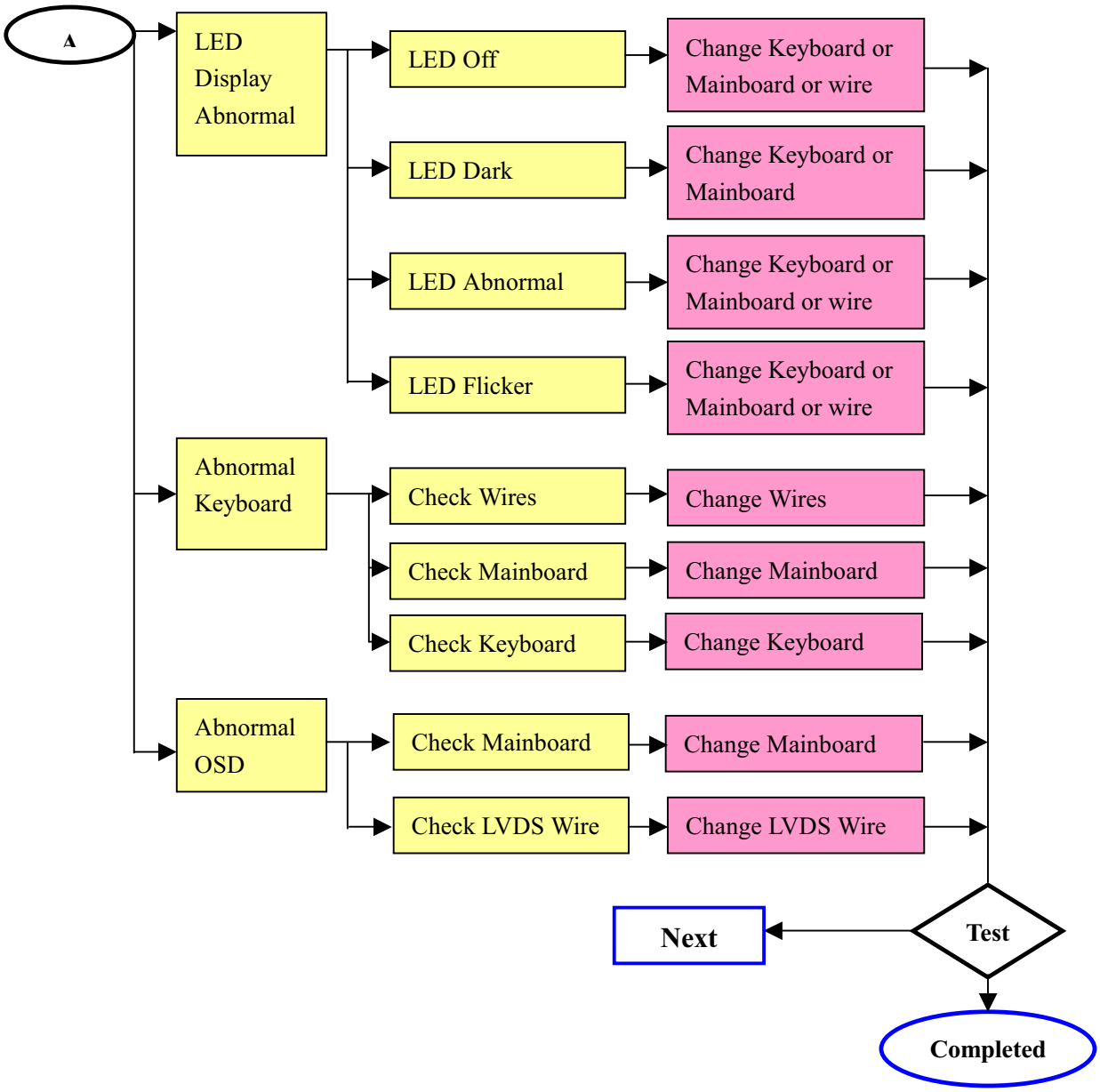
Troubleshooting

This chapter provides troubleshooting information for the AL1511:



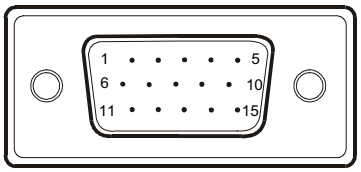

Defect Mode
Failure Analysis
Repair
Testing
A
Noise
Check Single Cable
Change Single Cable
Flicker
Check Mainboard
Change Mainboard
Check Panel
Change Panel
Abnormal Gray
Check Mainbord
Change Mainboard
Check Panel
Change Panel
Check LVD Cable
Change LVD Cable
R\G\B Display Abnormal
Check Single Cable
Change Single Cable
Check Mainboard
Change Mainboard
Check Panel
Change Panel
Monistor Shut Down
Check Powerboard
Change Powerboard
Check Mainboard
Change Mainboard
Check Keyboard
Change Keyboard
No signal
Check Single Cable
Change Single Cable
Check Mainboard
Change Mainboard
Power on Display Abnormal
Check Mainboard
Change Mainboard
Next
Test
A
Completed

Defect Mode	Failure Analysis	Repair	Testing



Connector Information

The following figure shows the connector locations on the monitor board:



15 - Pin Color Display Signal Cable(D-sub)

PIN NO.	DESCRIPTION	PI N NO.	DESCRIPTION
1.	Red	9.	NC
2.	Green	10.	Ground
3.	Blue	11.	Ground
4.	Ground	12.	DDC-Serial Data
5.	Ground	13.	H-Sync
6.	R-Ground	14.	V-Sync
7.	G-Ground	15.	DDC-Serial Clock
8.	B-Ground		

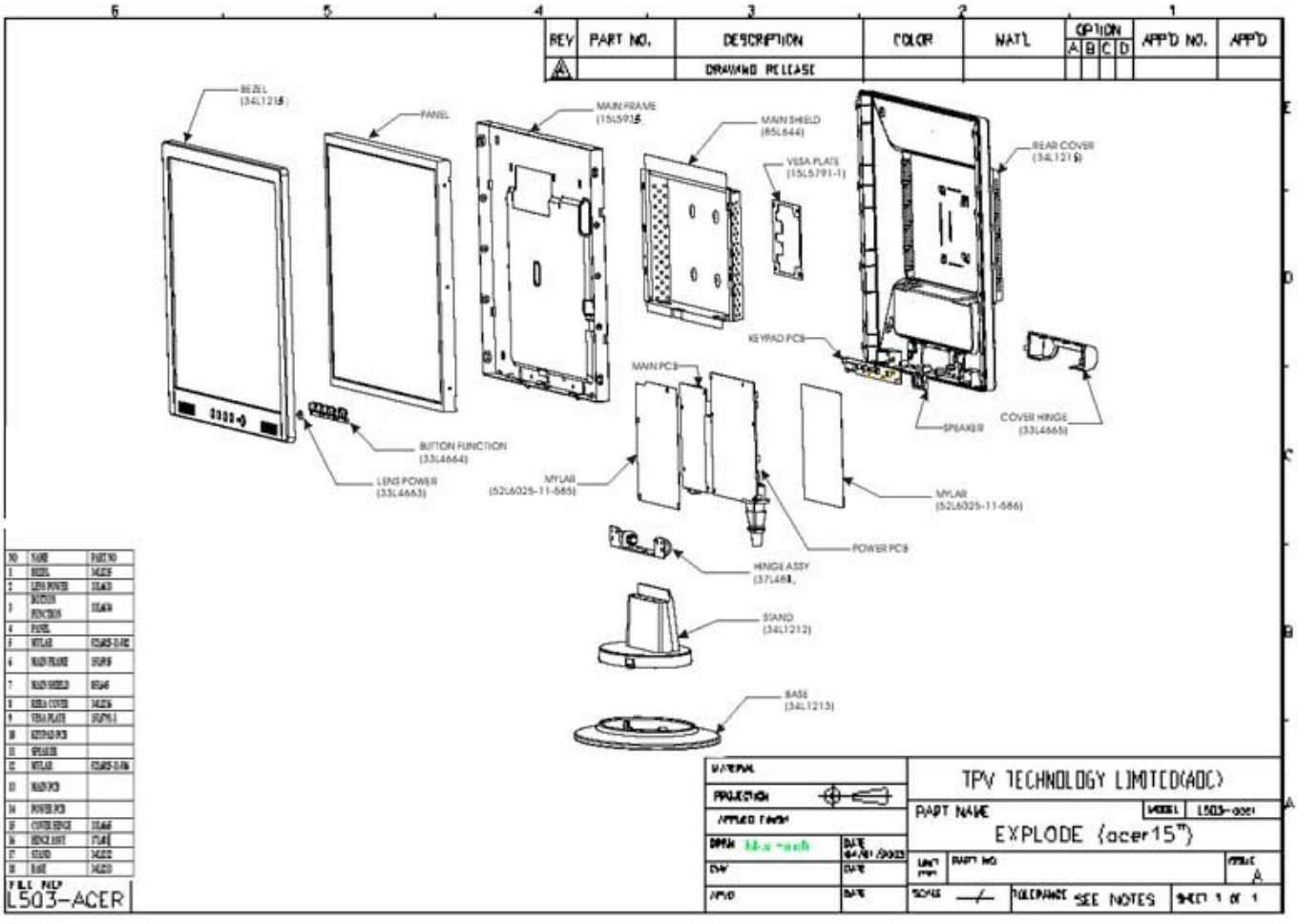
Chapter 6

FRU (Field Replaceable Unit) List

This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of Monitor AL1511.Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).Please note that WHENORDERING FRU PARTS, you should check the most up-to-date information available on your regional web or channel. For whatever reasons a part number change is made, it will not be noted on the printed Service Guide. For ACER AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code from those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

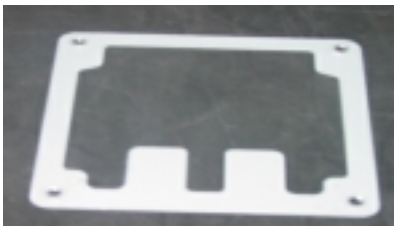
NOTE: To scrap or to return the defective parts, you should follow the local goverment ordinance or regulations on how to dispose it properly, or follow the rules set by your regional Acer office on how to return it.

Exploded Diagram



Note: above picture show the description of the following component

Plz access to website (http://aicsl.acer.com.tw/spl/) for obtaining the update FRU version.

No.	Picture	Description
1		Front Bezel
2		Main Frame
3		Back cover
4		Panel
5		Shield
6		VESA Plate

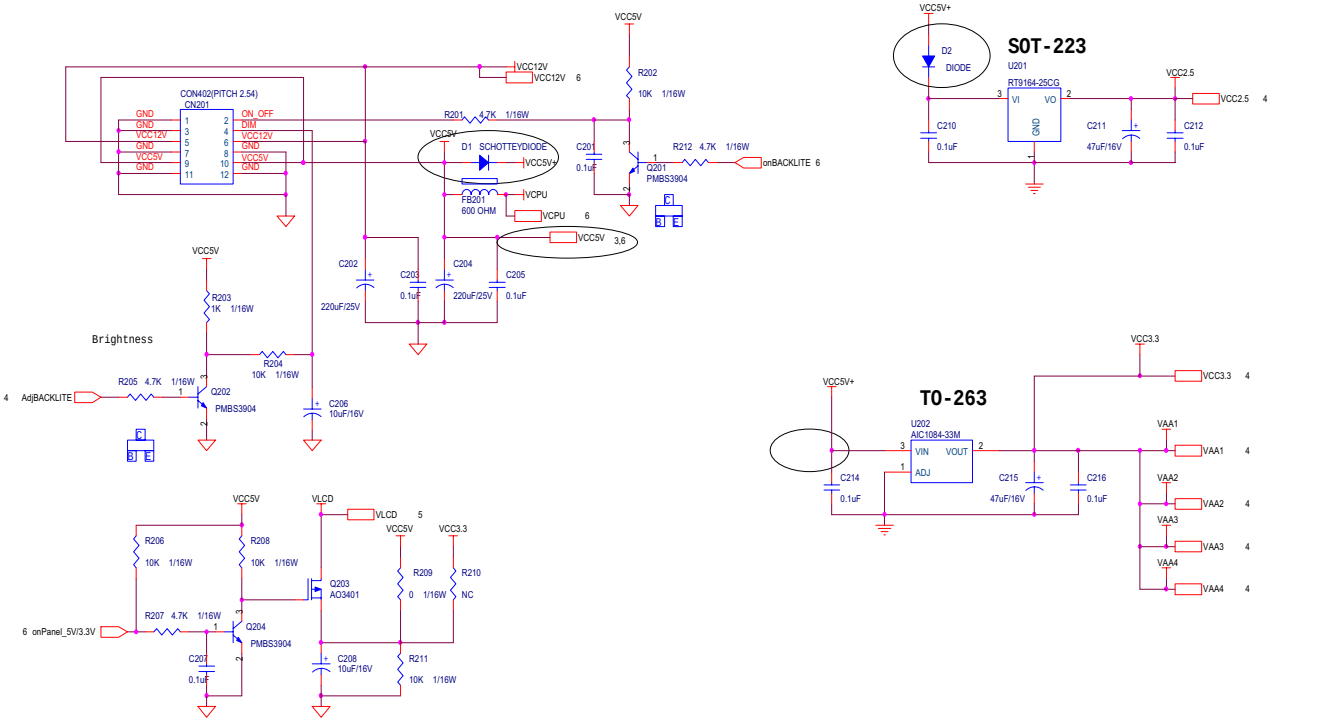
No.	Picture	Description
7		Hinge cover
8		Stand base
9		Foot sticker
10		Inverter board
11		Mylar
12		Function board
13		Speaker(option)

No.	Picture	Description
14		Main board
15		Audio Board(option)
16		Signal cable
17		Audio cable(option)
18		Power code
19		Inverter board cable
20	 	LVDS cable
21		Sponge
22		Mainframe screws

No.	Picture	Description
23		Rear panel screws
24		Ground rush
25		Hinge cover screws
26		Function board screws
27		Main shield screws
28		D-sub screws

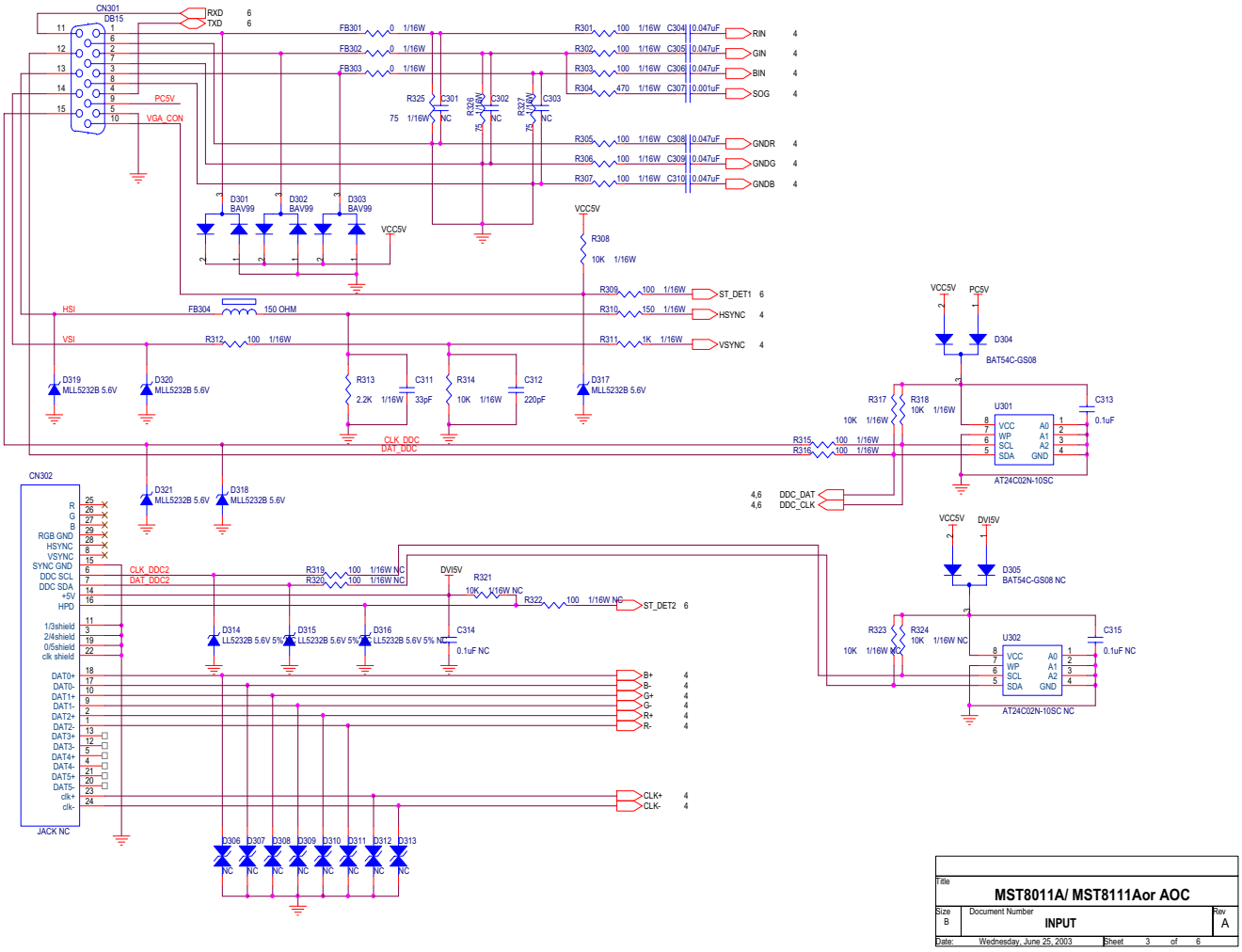
Schematic Diagram

Analog input



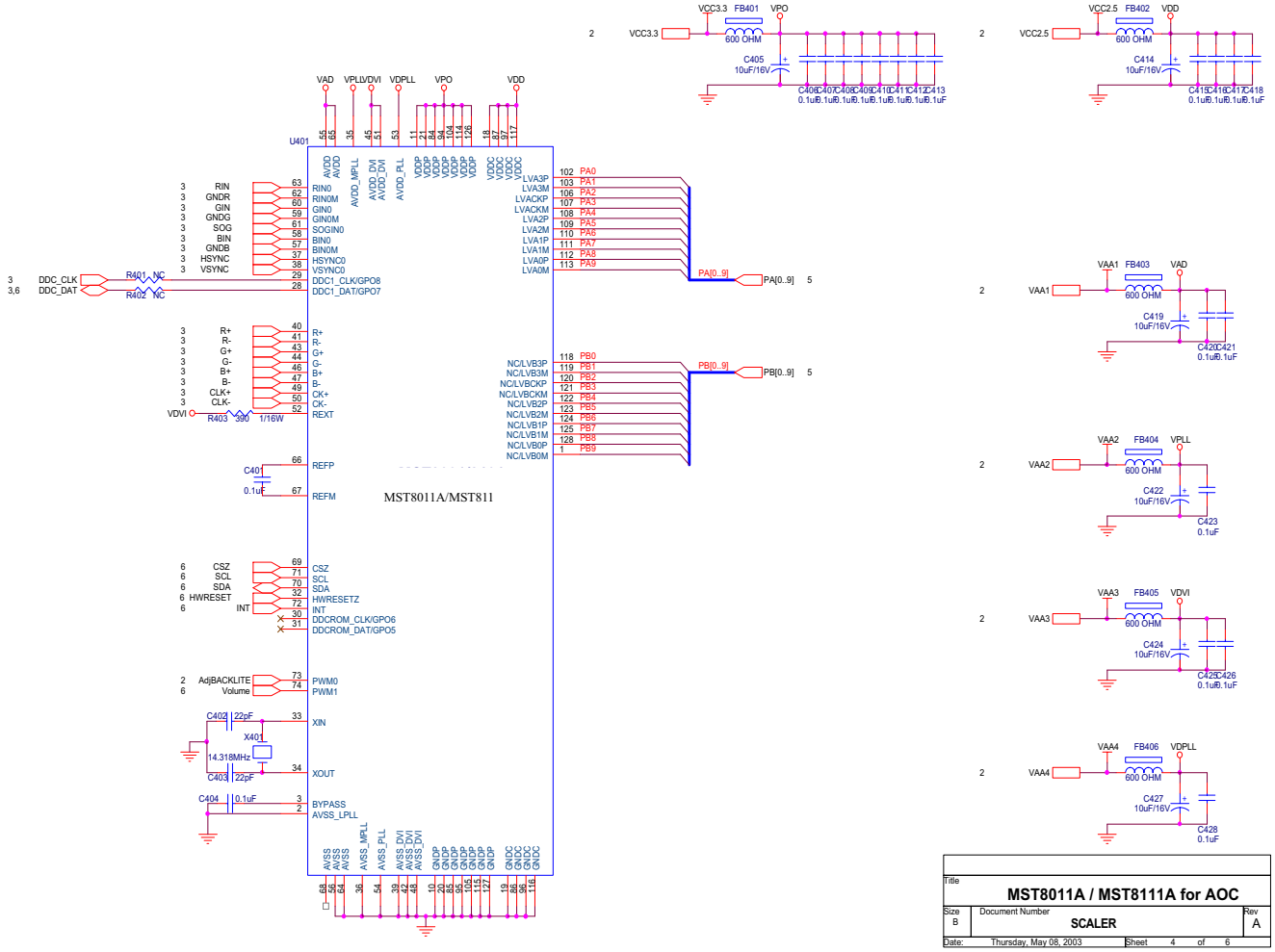
Title	MST8011A/ MST8111Afor AOC	
Size: B	Document Number: POWER	Rev: A
Date: Wednesday, June 11, 2003	Sheet 2 of 6	

INPUT

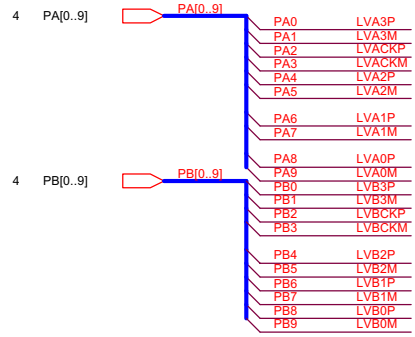


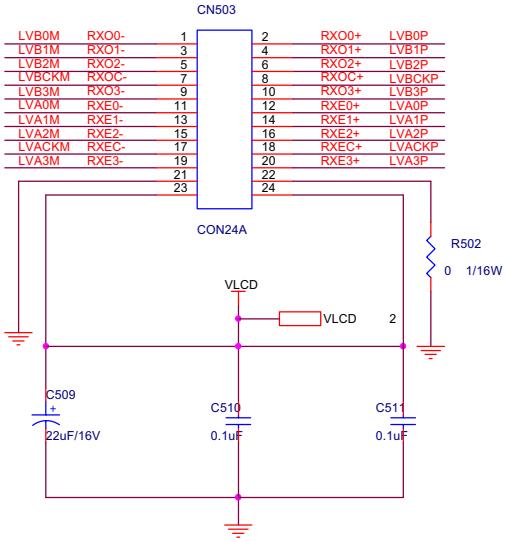
Title	MST8011A/ MST8111Aor AOC	
Size B	Document Number INPUT	Rev A
Date: Wednesday, June 25, 2003	Sheet 3 of 6	

Scaler MST8011A/MST8111A



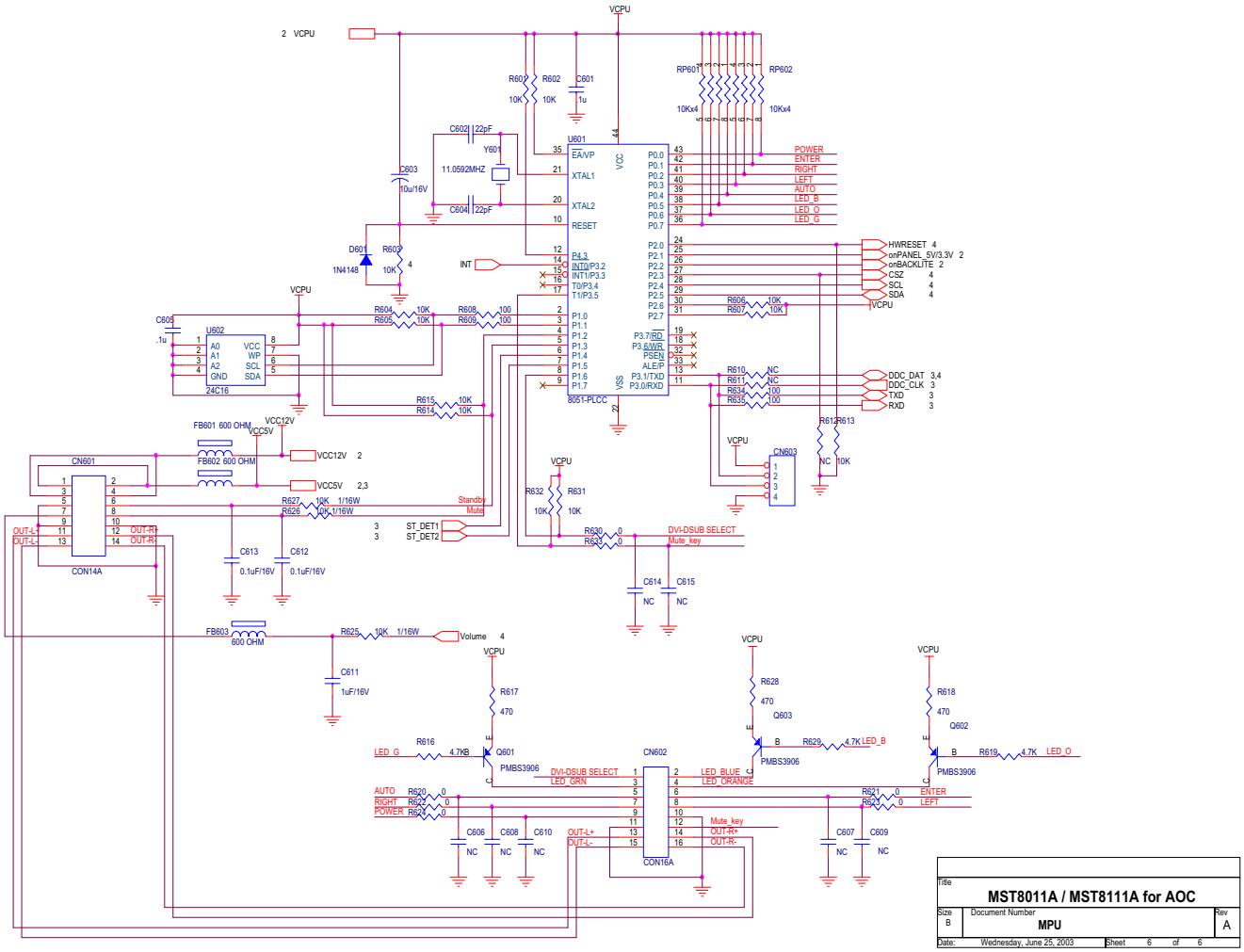
PANEL INTERFACE





Title	MST8011A / MST8111A for AOC	
Size A	Document Number PANEL INTERFACE	Rev A
Date: Thursday, May 08, 2003	Sheet 5 of 6	

MCU


VCPU
U601
8051-PLCC
U602
24C16
CN601
CON14A
CN602
CON16A
CN603
Q601
Q602
Q603
PMBS3906
Title
MST8011A / MST8111A for AOC
Size
B
Document Number
MPU
Rev
A
Date: Wednesday, June 25, 2003
Sheet 6 of 6

Online Support Information

This section describes online technical support services available to help you repair your Acer Systems.

If you are a distributor, dealer, ASP or TPM, please refer your technical queries to your local Acer branch office.

Acer Branch Offices and Regional Business Units may access our website. However some sources will require a user i.d. and password. These can be obtained directly from Acer CSD Taiwan.

Acer's Website offers you convenient and valuable support resources whenever you need them. In the Technical Information section you can download information on all of Acer's Notebook, Desktop,Server models including:

- Service guides
- User's manuals
- Training materials
- Bios updates
- Spare parts lists
- TABs (Technical Announcement Bulletin)

For these purposes, we have included an Acrobat File to facilitate the problem-free downloading of technical material.

Also contained on this website are:

- Detailed information on Acer's International Traveler's Warranty (ITW)
- Returned material authorization procedures
- An overview of all the support services we offer, accompanied by a list of telephone, fax contacts for all your technical queries.

We are always looking for ways to optimize and improve our services, so if you have any suggestions comments, please do not hesitate to communicate these to us.