Acer P203W

Service Guide

Service Guide Version and Revision

Version	Release Date	Revision History	TPV model
A00	Aug.-23-2007	Initial Release	TA7AMADB5WAYNC TA7AMAMB5WAYHC

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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	Remind 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 Acer office 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 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. Dangerous 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, uses 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. 5A.
- The wall socket shall be installed near the equipment and shall be easily accessible.

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

Chapter 1

Introduction

Scope

This specification defines the requirements for the 17” MICROPROCESSOR based Multi-mode supported high resolution color LCD monitor. This monitor can be directly connected to general 15-pin D-sub VGA connector, also supports VESA DPMS power management and plug & play function. There is a build-in stereo audio amplifier with OSD control to drive a pair of speakers.

Description

The LCD monitor is designed with the latest LCD technology to provide a performance oriented product with no radiation. This will alleviate the growing health concerns. It is also a space saving design, allowing more desktop space, and comparing to the traditional CRT monitor, it consumes less power and gets less weight in addition MTBF target is 50k hours or more.

Chart of P203W

Panel	M201EW02 V90
Signal Interface	D-Sub 15-pin / DVI 24-Pin
Sync Type	Separate / Compatible
Color Temp User Adjust	Support
DDC	DDC2B
Speaker	No
Headphone Jack	No
Microphone Jack	No
USB Hub	Not support
Tilt / Swivel	Yes / No

Electrical Requirements

Standard Test Conditions

All tests shall be performed under the following conditions, unless otherwise specified.

Ambient light	:	Dark room
Viewing distance	:	30-50 cm for LCD performance
Warm up time		
All specifications	:	＞30 minutes
Measuring equipment	:	Photo detector PR650 w/2°
		Measurement field
Color temperature		6500°K (e-Color set to “User” mode)
User brightness control	:	Set to Factory preset value (cut off raster)
User contrast control	:	Set to factory preset value, which allows that the brightest two of 32 linear distributed gray-scales (0～700mv) can be distinguished.
User red/white balance,		
Green/white balance and		
Blue/white balance control	:	In the center (unless otherwise specified)
AC Supply voltage	:	230V± 5％, 50±3Hz
Ambient temperature	:	20+5℃
Display mode	:	1680x1050 60Hz, all white

Measurement systems

The units of measure stated in this document are listed below:

1 gamma = 1 nano tesla

1 tesla = 10,000 gauss

cm = in x 2.54

Lb = kg x 2.2

Degrees F = [℃ x 1.8] + 32

Degrees C = [℉ - 32]/1.8

u' = 4x/(-2x + 12y + 3)

v' = 9y/(-2x + 12y + 3)

x = (27u'/4)/[(9u'/2) - 12v' + 9]

y = (3v')/[(9u'/2) - 12v' + 9]

nits = cd/(m2) = Ft-L x 3.426

lux = foot-candle x 10.76

LCD Monitor General Specification

LCD Panel	Driving system	TFT Color LCD
	Active Display Area	433.44(H) × 270.90mm(V)
	Pixel pitch	0.258 (per one triad) x 0.258
	Contrast Ratio	1000 : 1
	Response time	5ms
Input	Separate Sync.	H/V TTL
	H-Frequency	30kHz – 83kHz
	V-Frequency	56-75Hz
Viewing angle	(H) 90 +/-20 and (V) 90 +/-10	
Display Colors	16.7M Colors	
Max. Dot Clock	165MHz	
Display mode	1680 × 1050 @60Hz	
EPA ENERGY STAR®	ON Mode	< 49W
	OFF Mode	< 1W
Contrast control	Set to factory preset value, which allows that the brightest two of 32 linear distributed gray-scales (0～ 700mv) can be distinguished.	
Power Source	90~264VAC,47~63Hz	
Environmental Considerations	Operating Temp: 0°to 40℃ Storage Temp: -30°to 65℃ Operating Humidity: 0% to 90% Storage Humidity: 0% to 90%	
Main Dimension(monitor)	481(W)×378 (H)×177(D) mm	
Leakage current	< 0.75mA at 254Vac, 50Hz.	
Peak surge current	< 100 A peak at 230 VAC and cold starting&25□ & DC Output at Full-load	

LCD Panel Specification

General Specifications

ITEMS	Unit	SPECIFICATIONS
Screen Diagonal	[mm]	511.13 (20.1"Wide)
Active Area	[mm]	433.44 (H) x 270.90(V)
Pixels H x V		1680(x3) x 1050
Pixel Pitch	[mm]	0.258 (per one triad) x 0.258
Pixel Arrangement		R.G.B. Vertical Stripe
Display Mode		Normally White
White Luminance (Center)	[cd/m^2]	300cd/m2 @ 7.5mA (Typ)
Contrast Ratio		1000
Optical Response Time	[msec]	5 (Typ, on/off)
Nominal Input Voltage VCC	[Volt]	+5.0 V
Power Consumption (VCC line + CCFL line)	[Watt]	27.7
Weight	[Grams]	2030 (Typ)
Physical Size	[mm]	459.4(W) x 296.4(H) x 16.6(D) (Typ)
Electrical Interface		Dual Channel LVDS
Support Color		16.7M colors (RGB 6-bits+Hi-FRC data)
Temperature Range Operating Storage (Shipping)	 [°C] [°C]	 0 to +50 -20 to +60
Surface Treatment		Hard-coating (3H), Glare treatment
RoHS		RoHS compliance

Absolute Maximum Ratings

TFT LCD Module

Item	Symbol	Min	Max	Unit	Conditions
Logic/LCD Drive Voltage	VIN	-0.3	6	[Volt]	***Note 1,2***

Backlight Unit

Item	Symbol	Min	Max	Unit	Conditions
CCFL Current	ICFL	-	8	[mA] rms	***Note 1,2***

Absolute Ratings of Environment

Item	Symbol	Min	Max	Unit	Conditions
Operating Humidity	HOP	5	90	[%RH]	***Note 3***
Storage Temperature	TST	-20	+60	[°C]	
Storage Humidity	HST	5	90	[%RH]	

Note 1: With in Ta (25℃)

Note 2: Permanent damage to the device may occur if exceed maximum values

Note 3: For quality performance, please refer to AUO IIS (Incoming Inspection Standard).

Optical Specifications

Item	Unit	Conditions	Min.	Typ.	Max.
Viewing Angle	[degree]	Horizontal (Right)	70	80	-
	[degree]	CR = 10 (Left)	70	80	-
	[degree]	Vertical (Up)	70	80	-
	[degree]	CR = 10 (Down)	70	80	-
Luminance Uniformity	[%]		75	80	-
Response Time	[msec]	Rising Time	-	3.6	5.7
	[msec]	Falling Time	-	1.4	2.3
	[msec]	Rising + Falling	-	5.0	8.0
Color / Chromaticity Coordinates (CIE 1931)		Red x	0.619	0.649	0.679
		Red y	0.308	0.338	0.368
		Green x	0.258	0.289	0.318
		Green y	0.579	0.609	0.639
		Blue x	0.116	0.146	0.176
		Blue y	0.040	0.070	0.100
		White x	0.283	0.313	0.343
		White y	0.299	0.329	0.359
White Luminance at CCFL 7.5mA (central point)	[cd/m^2]		240	300	-
Contrast ratio		Normal Direction	800	1000	-
Crosstalk (in75Hz)	[%]				1.5
Flicker	[dB]				-20

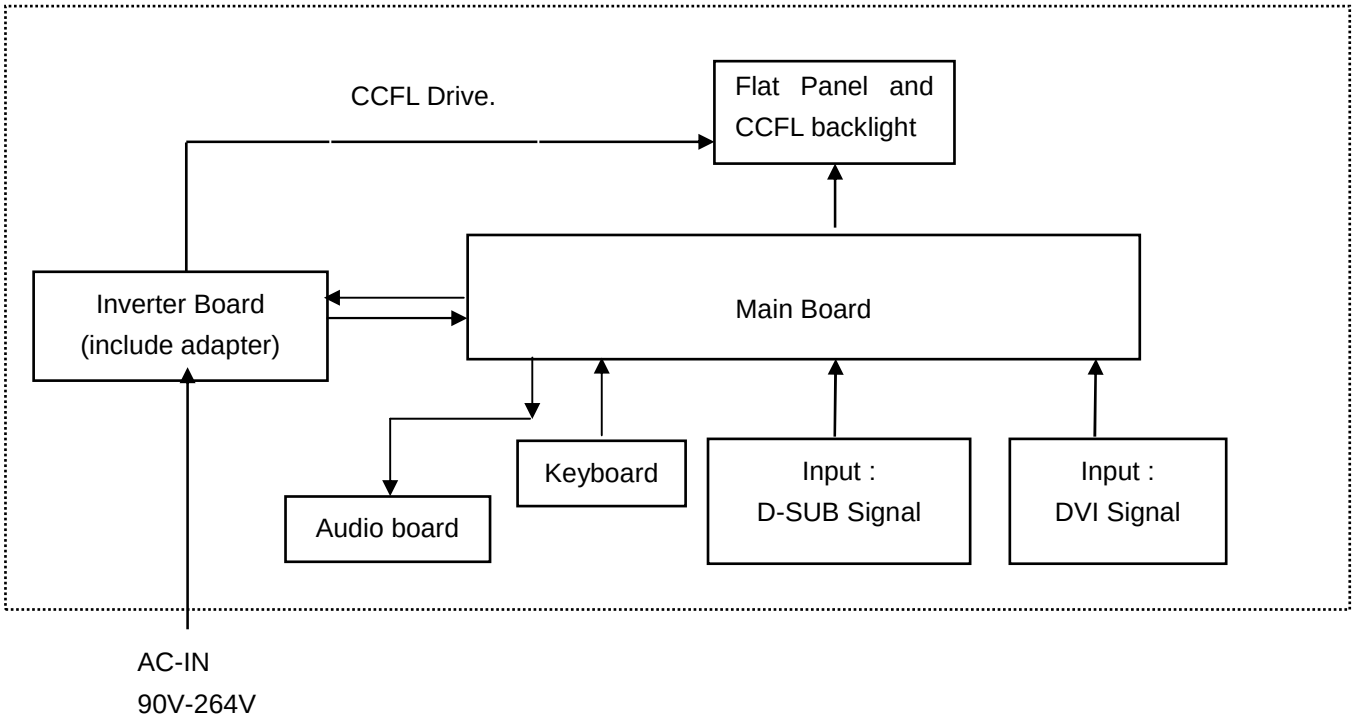
Support Timing

Mode	Resolustion		
1	VGA	640x480	60Hz
2	VGA	640x480	72Hz
3	VGA	640x480	75Hz
4	SVGA	800x600	56Hz
5	SVGA	800x600	60Hz
6	SVGA	800x600	72Hz
7	SVGA	800x600	75Hz
8	XGA	1024x768	60Hz
9	XGA	1024x768	70Hz
10	XGA	1024x768	75Hz
11	SXGA	1280x1024	60Hz
12	SXGA	1280x1024	75Hz
13	WSXGA	1680x1050	60Hz
14	UXGA	1600x1200	60Hz
15	DOS	720x400	70Hz
16	DOS	640x350	70Hz
17	XGA	1024x768	72Hz
18	VGA	640x480	67Hz
19	SVGA	832x624	75Hz
20	XGA	1024x768	60Hz
21	XGA	1024x768	75Hz
22		648x500	57.67Hz

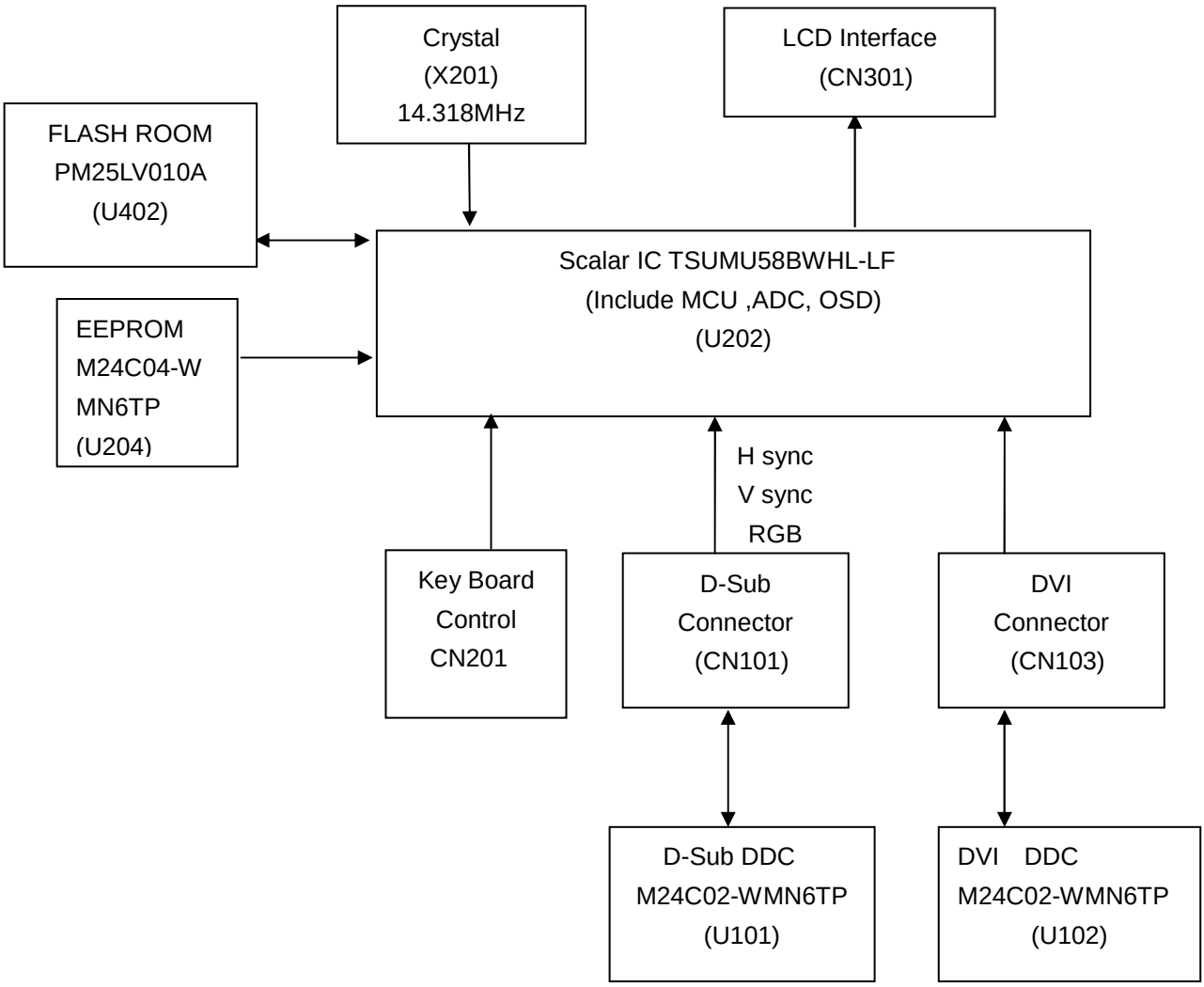
Monitor Block Diagram

The LCD MONITOR will contain a main board, a power board, and keypad board which house the flat panel control logic, brightness control logic and DDC.

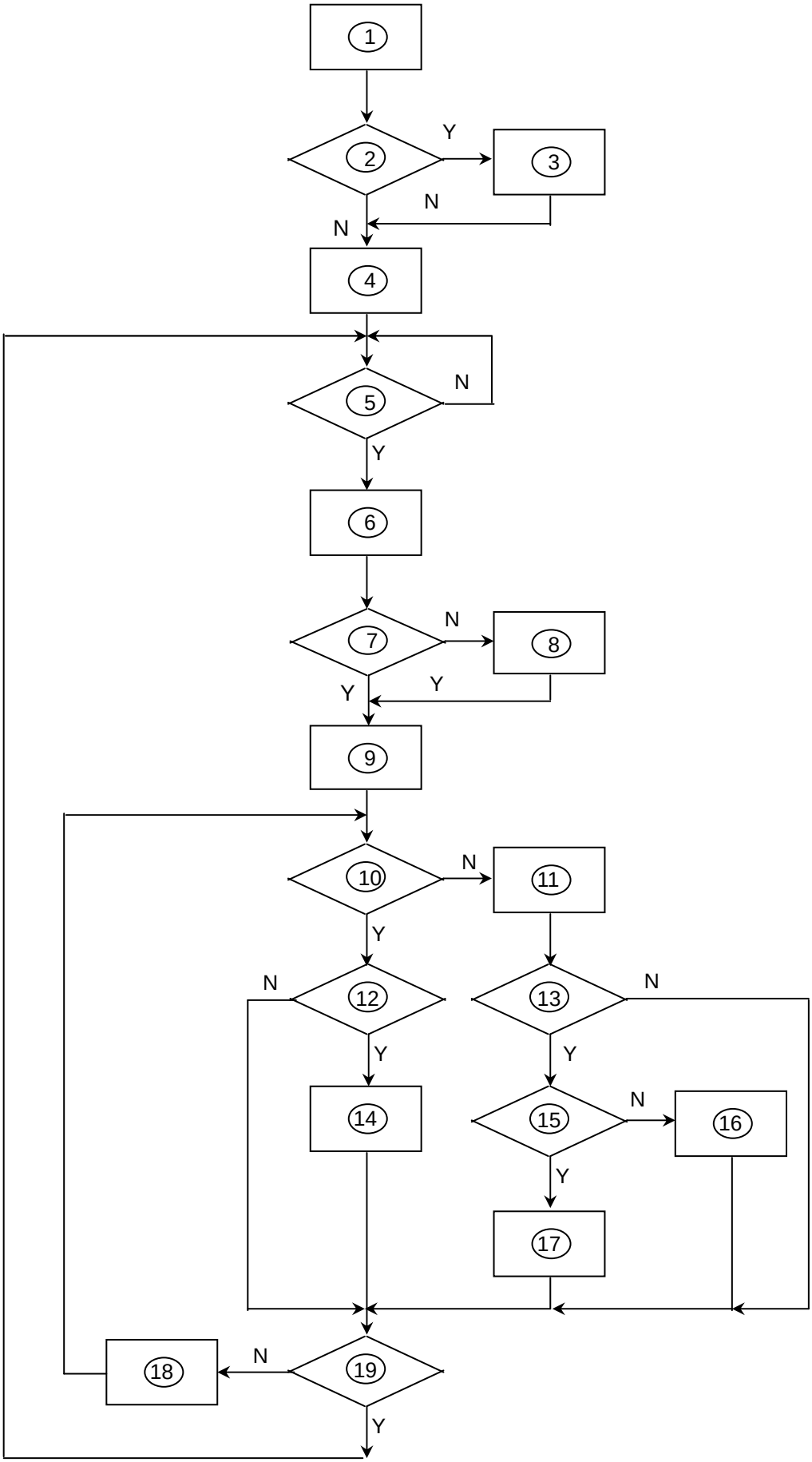
The power board will provide AC to DC Inverter voltage to drive the backlight of panel and the main board chips each voltage.



Main Board Diagram



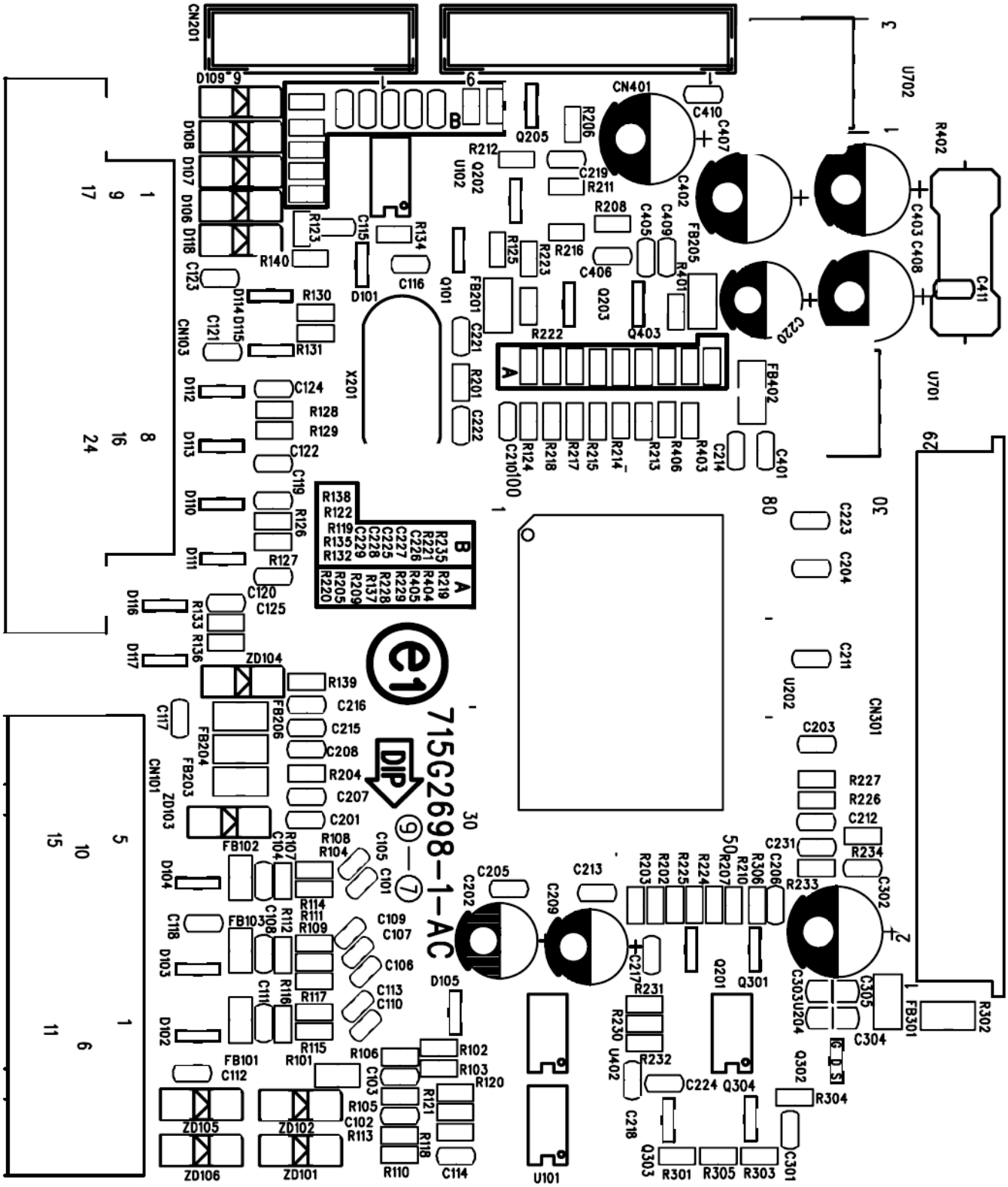
Software Flow Chart



Remark:

1) MCU initializes.
2) Is the EEPROM blank?
3) Program the EEPROM by default values.
4) Get the PWM value of brightness from EEPROM.
5) Is the power key pressed?
6) Clear all global flags.
7) Are the AUTO and SELECT keys pressed?
8) Enter factory mode.
9) Save the power key status into EEPROM. Turn on the LED and set it to green color. Scalar initializes.
10) In standby mode?
11) Update the lifetime of back light.
12) Check the analog port, are there any signals coming?
13) Does the scalar send out an interrupt request?
14) Wake up the scalar.
15) Are there any signals coming from analog port?
16) Display "No connection Check Signal Cable" message. And go into standby mode after the message disappears.
17) Program the scalar to be able to show the coming mode.
18) Process the OSD display.
19) Read the keyboard. Is the power key pressed?

Main Board Layout



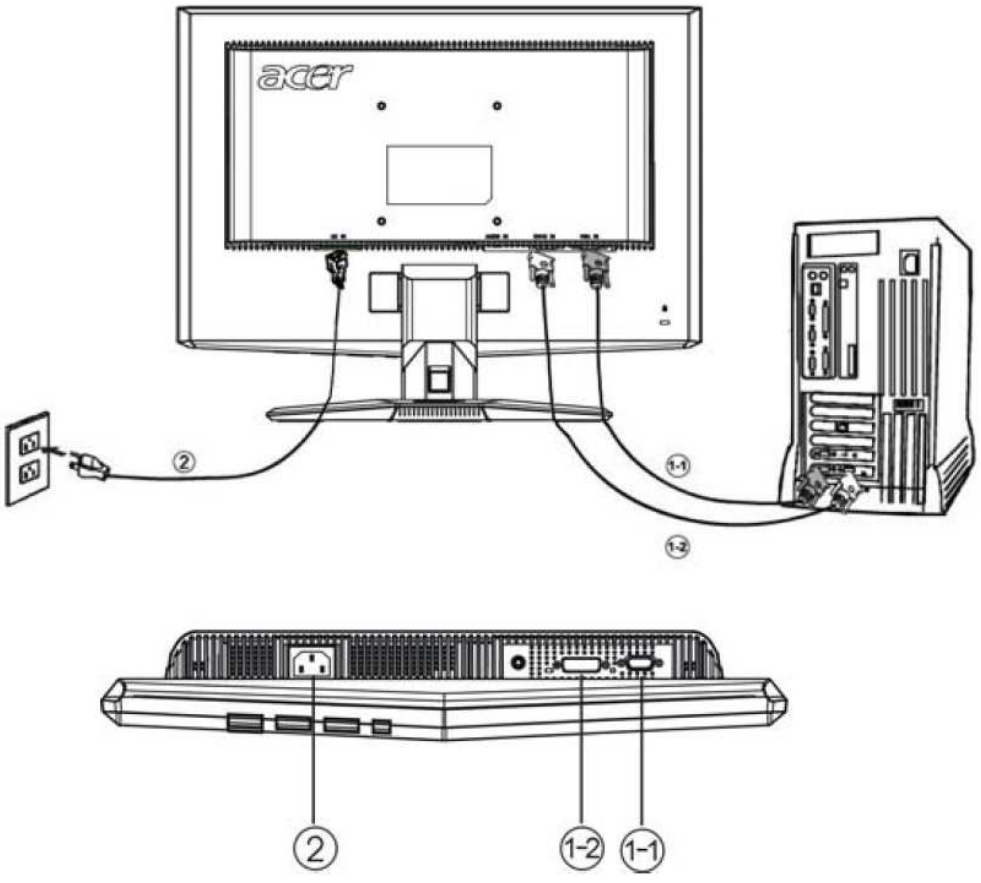
Symbol	Description	Symbol	Description
U701	056G 585 4A	X201	093G 22 53 H
U702	056G 563 31	CN301	033G801930F H
U202	056G 562172	CN401	033G3802 9
U402	056G1133713	CN201	033G3802 6
U101	056G1133 34	CN103	088G 35424F N
CN101	088G 35315F H		

Installation

To install the monitor to your host system, please follow the steps as given below:

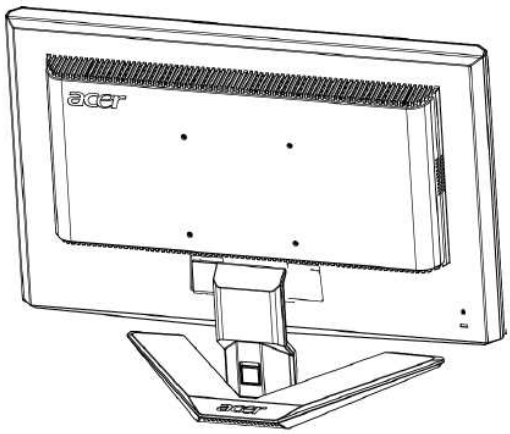
Steps

1. 1-1 Connect Video Cable
   a. Make sure both the monitor and computer are powered-OFF.
   b. Connect the VGA video cable to the computer.
   1-2 Digital Cable (Only Dual-Input Model)
   a. Make sure both the monitor and computer are powered-OFF.
   b. Connect one end of the 24-pin DVI cable to the back of the monitor and connect the other end to the computer's port.
2. Connect power cord
   Connect the power cord to the monitor, then to a properly grounded AC outlet.
3. Power-ON Monitor and Computer
   Power-ON the monitor first, then power-ON the computer.
   This sequence is very important.
4. If the monitor still does not function properly, please refer to the troubleshooting section to diagnose the problem.

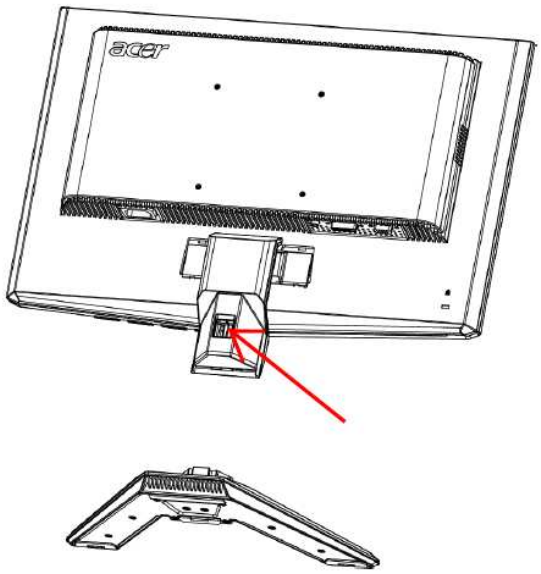


Attaching/Removing the Base

Install:
Align the release button on the bottom of the monitor with the corresponding
slots on the bottom of the base.

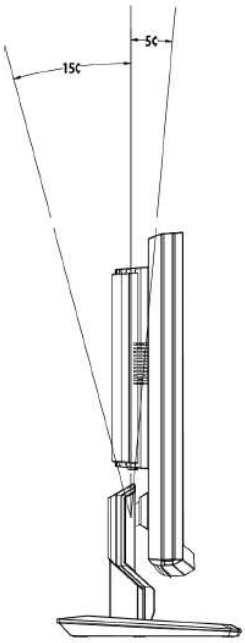


Remove:
Depress the release button as indicated first before removing the base and follow the arrow direction to remove it.



SCREEN POSITION ADJUSTMENT

In oder to optimize the best viewing position, you can adjust the tilt of the monitor by using both of your hands to hold the edges of the monitor as shown in the figure below.
The monitor can be adjusted to 15 degrees up or 5 degrees down as indicated by arrow below.



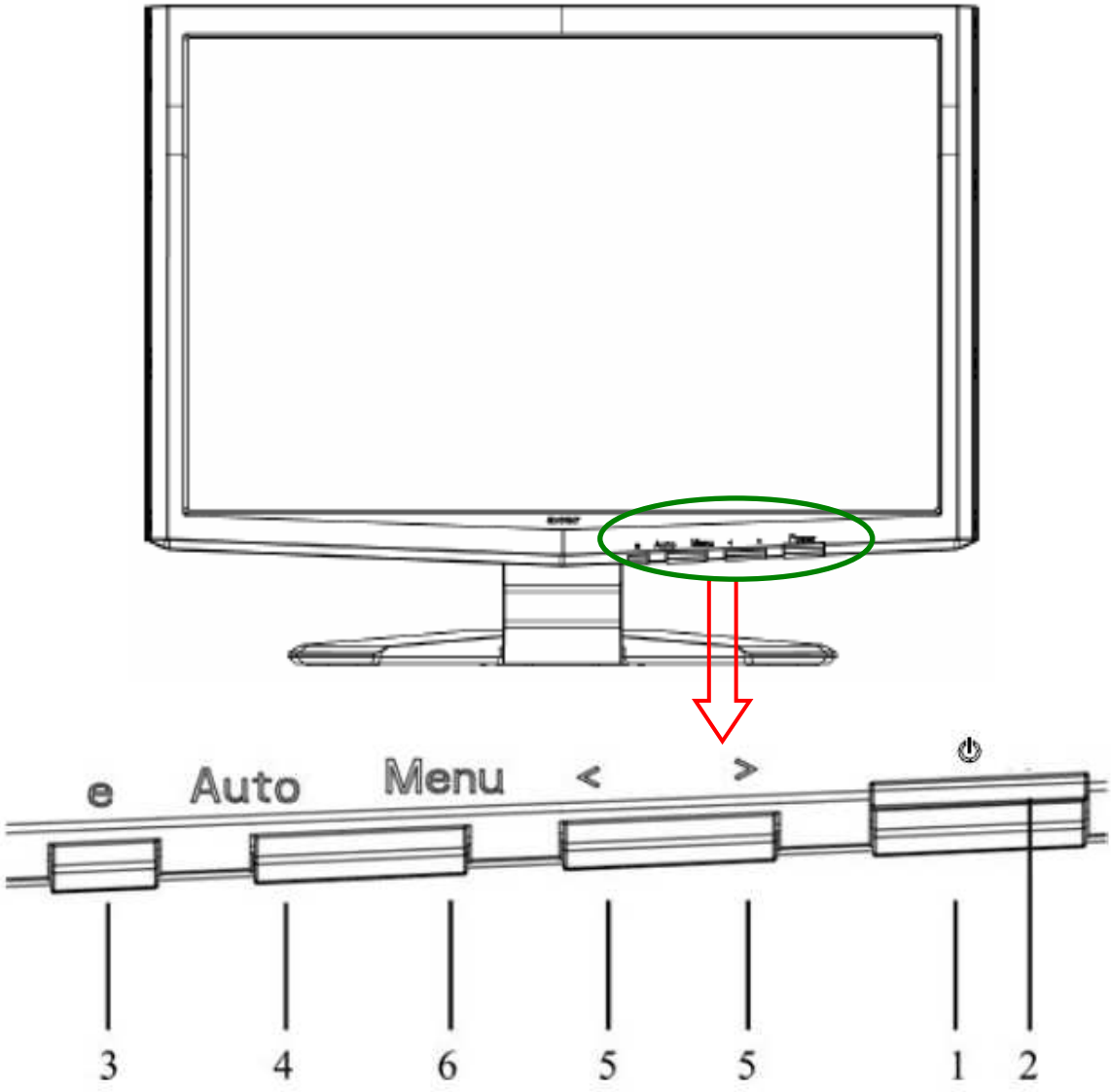
Operating Instructions

Chapter 2

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 Controls



Item	Description	Item	Description
1.	Power Switch	4.	Auto Adjust botton/Exit
2.	Power LED	5.	< / >
3.	Empowering / Exit	6.	MENU/ENTER

Front Panel Controls

1.Power Switch:
To turn ON or OFF the power.

2.Power LED:
Lights up to indicate the power is turned ON.

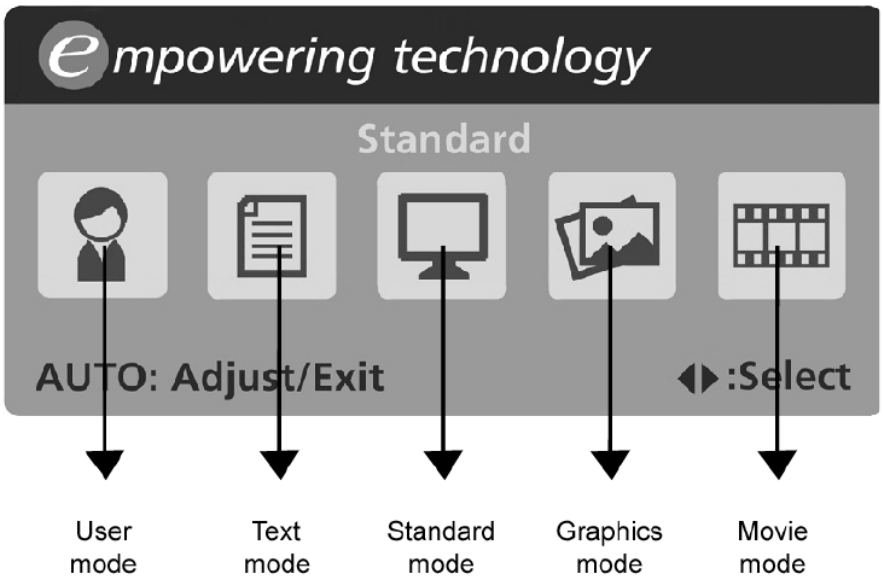
3.Empowering / Exit:
1) When OSD menu is in active status, this button will act as EXIT-KEY(EXIT OSD menu).
2) When OSD menu is in off status, press this button to select scenario mode.

4.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 AutoAdjustment function.The Auto Adjustment function is used to set the HPos, VPos, Clock and Focus.

5.< / >
Press < or > to select the desired function.Press < or > to change the settings of the current function.

6.MENU / ENTER:
Activate OSD menu when OSD is OFF or activate/de-activate adjustment function when OSD is ON.

eColor Management (OSD)



- Operation instructions

Acer eColor Management

Step 1: Press " Key " to open the Acer eColor Management OSD and access the scenario modes
Step 2: Press "<" or ">" to select the mode
Step 3: Press " Auto Key " to confirm the mode and run Auto Adjust

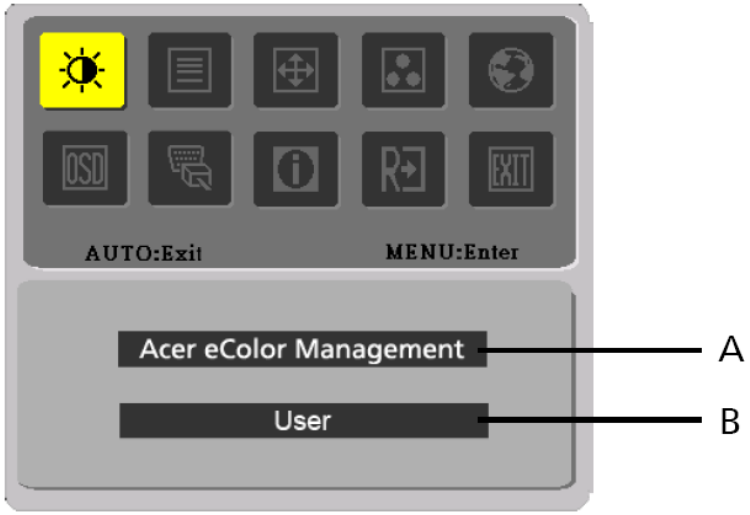
- Features and Benefits

Mode	Features	Benefits
Standard	Default settings	Reflects native display capability
Text	Optimal balance of brightness and contrast prevents eyestrain	The most comfortable way to read onscreen text
Graphics	Enhances colors and emphasizes fine detail	Pictures and photographs appear in vibrant colors with sharp detail
Movie	Displays scenes in clearest detail	Presents great visuals, even in unsuitably-lit environments
User	User defined	Settings can be fine-tuned to suit any situation

How to Adjust a Setting

1. Press the MENU-button to activate the OSD window.
2. Press < or > to select the desired function.
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.

- P/X Series OSD behave
  When user press "MENU" button on front bezel

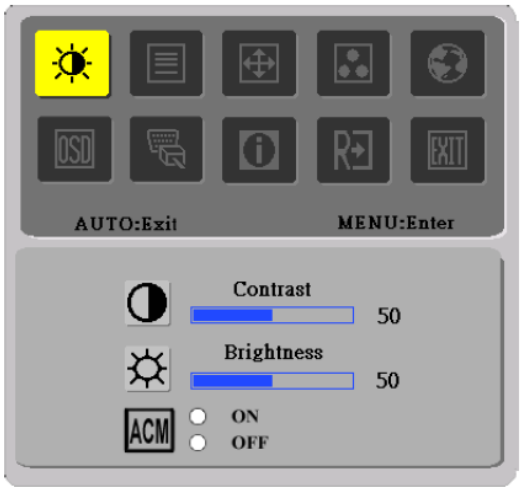


A. Acer eColor Management

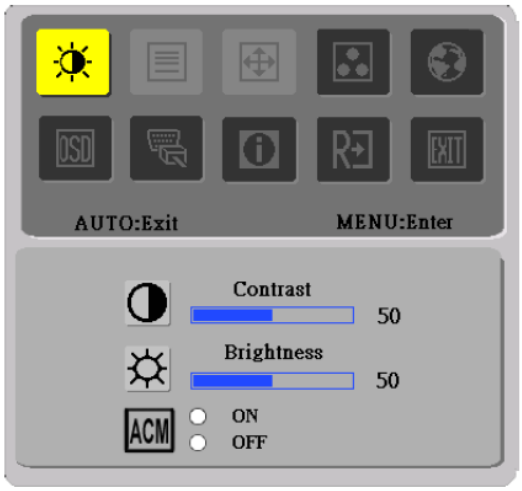
If selected to "Acer eColor Management " item, will appear the Acer eColor" OSD

B. USER

If selected to "USER" item, will appear the Standard OSD



I. Only Analog Input Model



II. Only Dual Input Model

Adjusting the picture

The descriptions for function control LEDS

A. Acer eColor Management

Main Menu icon	Sub Menu icon	Sub Menu item	Description
	N/A	User mode	User defined. Settings can be fine-tuned to suit any situation
	N/A	Text mode	Optimal balance of brightness and contrast prevent eyestrain. The most comfortable way to read onscreen text
	N/A	Standard mode	Default Setting. Reflects native display capability
	N/A	Grahpic mode	Enhances colors and emphasize fine detail
	N/A	Movie mode	Displays scenes in clearest detail. Pictures and photographs appear in vibrant colors with sharp detail)

B. USER

Main Menu icon	Sub Menu icon	Sub Menu item	Description
		Contrast	Adjust the contrast between the foreground and background of the screen image
		Brightness	Adjust the background brightness of the screen image
		ACM	ACM (Adaptive Contrast Management)A CM ON/OFF Switch, default "OFF"
		Focus	Adjust picture Focus (available in analog mode only)
		Clock	Adjust picture Clock (available in analog mode only)

Main Menu Icon	Sub Menu Icon	Sub Menu Item	Description
		H. Position	Adjust the horizontal position. (available in Analog mode only)
		V. Position	Adjust the vertical position. (available in Analog mode only)
	N/A	Warm	Set the color temperature to warm white.
	N/A	Cool	Set the color temperature to cool white.
		User /Red	Adjusts Red/Green/Blue intensity.
		User /Green	
		User /Blue	
	N/A	English	Multi-language selection.
	N/A	繁體中文	
	N/A	Deutsch	
	N/A	Francais	
	N/A	Espanol	
	N/A	Italiano	
	N/A	简体中文	
	N/A	日本語	
	N/A	Suomi	EMEA version OSD only
	N/A	Nederlands	
	N/A	Pyccknn	

Main Menu Icon	Sub Menu Icon	Sub Menu Item	Description
		H. Position	Adjust the horizontal position of the OSD.
		V. Position	Adjust the vertical position of the OSD.
		OSD Timeout	Adjust the OSD timeout.
	N/A	Analog	Select input signal from analog (D-Sub)
	N/A	Digital (only Dual-InputModel)	Select input signal from digital(DVI) (only Dual-Input Model)
	N/A	DDC/CI	Turn ON/OFF DDC/CI support
	N/A	Information	Show the resolution, H/V frequency andinput port of current input timing.
	N/A	Reset	Clear each old status of Auto-configurationand set the color temperature to Cool.
	N/A	Exit	Save user adjustment and OSD disappear.

OSD Message

a. Outline

b. The Description For OSD Message

Item	Description
Auto Config Please Wait	When Analog signal input, if User Press Hot-Key “Auto”, will show this message, and the monitor do the auto config function.
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	Analog-Only Model: When the video cable is not connected, will show this message. This message will be flying.
No Signal	Analog-Only Model: When the video cable is connected, but there is no active signal input, will show this message, then enter power saving.

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 DDC2B Feature

This monitor is equipped with VESA DDC2B 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 DDC2B is a bi-directional 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 signals 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. Pressing a key on the keyboard, or clicking the mouse restores the display.

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, and 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.

Machine Disassembly

Chapter 3

This chapter contains step-by-step procedures on how to disassemble the monitor for maintenance.

Disassembly Procedure

1. Remove the cover hinge marked in red. (Fig 1)

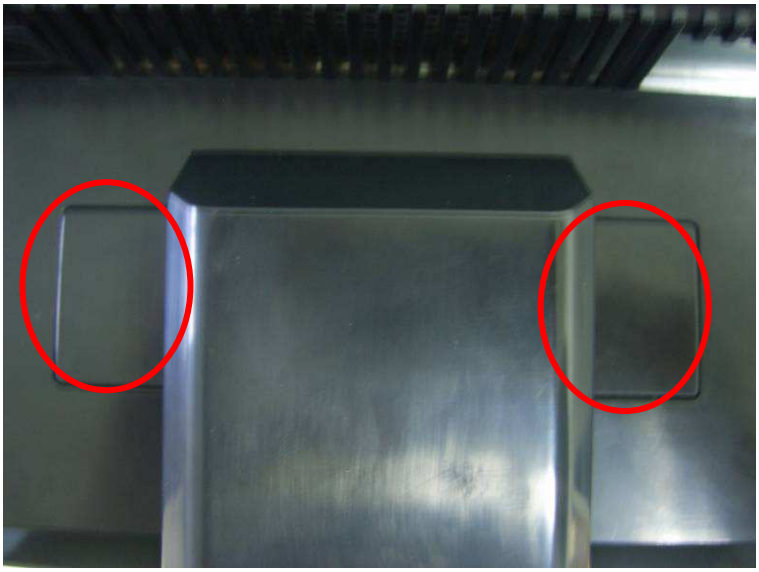


Fig 1

2. Remove the screws as following indicate to release base stand . (Fig 2)

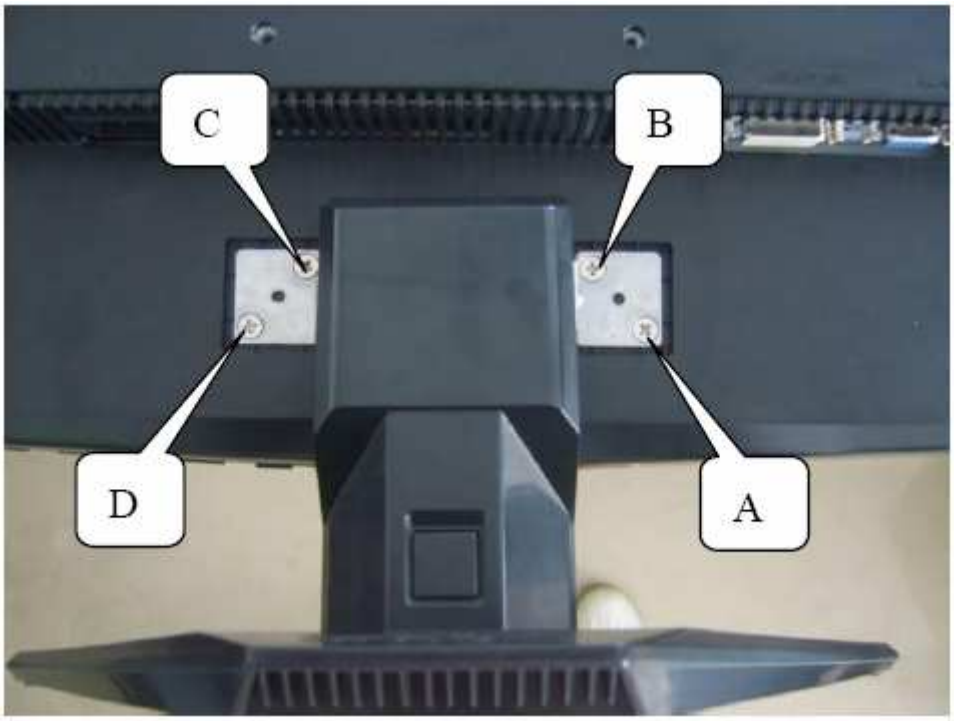


Fig 2

3. Remove the back cover and regard the hook. (Fig 3-4)

Fig 3

Fig 4

4. Remove the keyboard. (Fig 5)

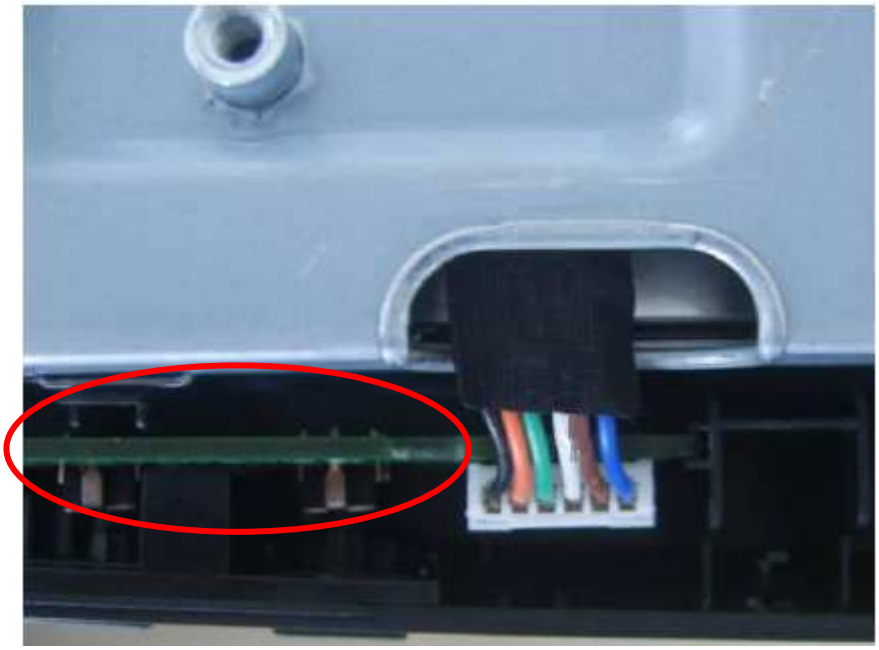


Fig 5

5. Remove the bezel. (Fig 6)

Fig 6

6. Remove the screws to remove the panel. (Fig 7-9)

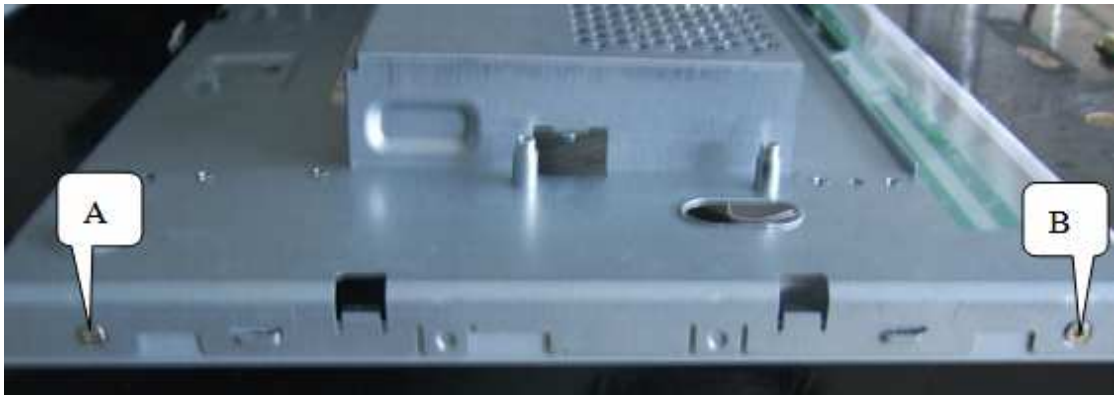


Fig 7

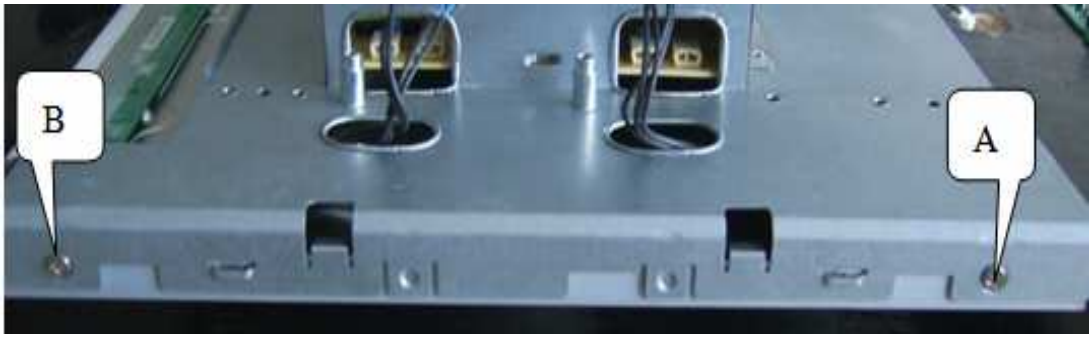


Fig 8

Fig 9

7. Remove the screw as following indicate to remove the main board, audio board and power board. (Fig 10-12)

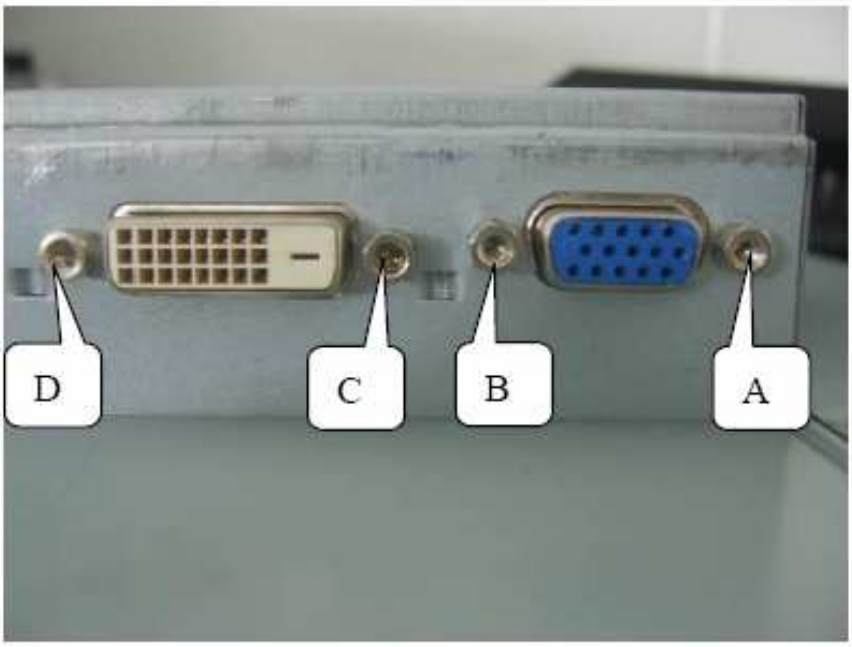


Fig 10

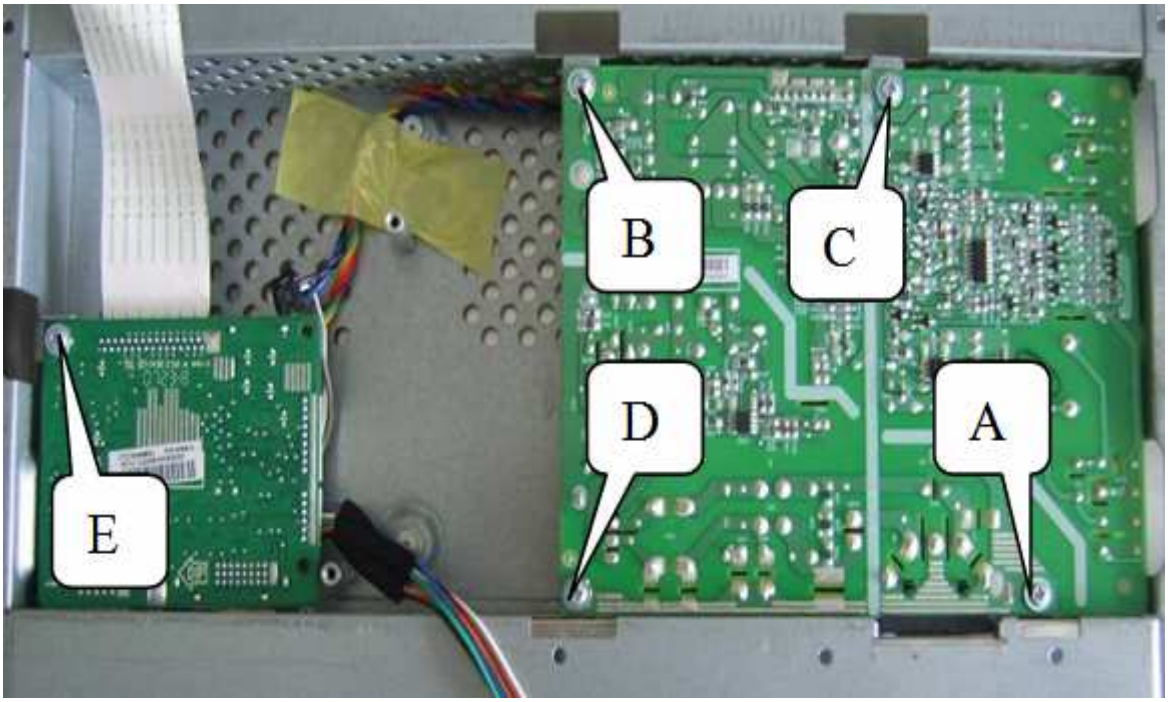
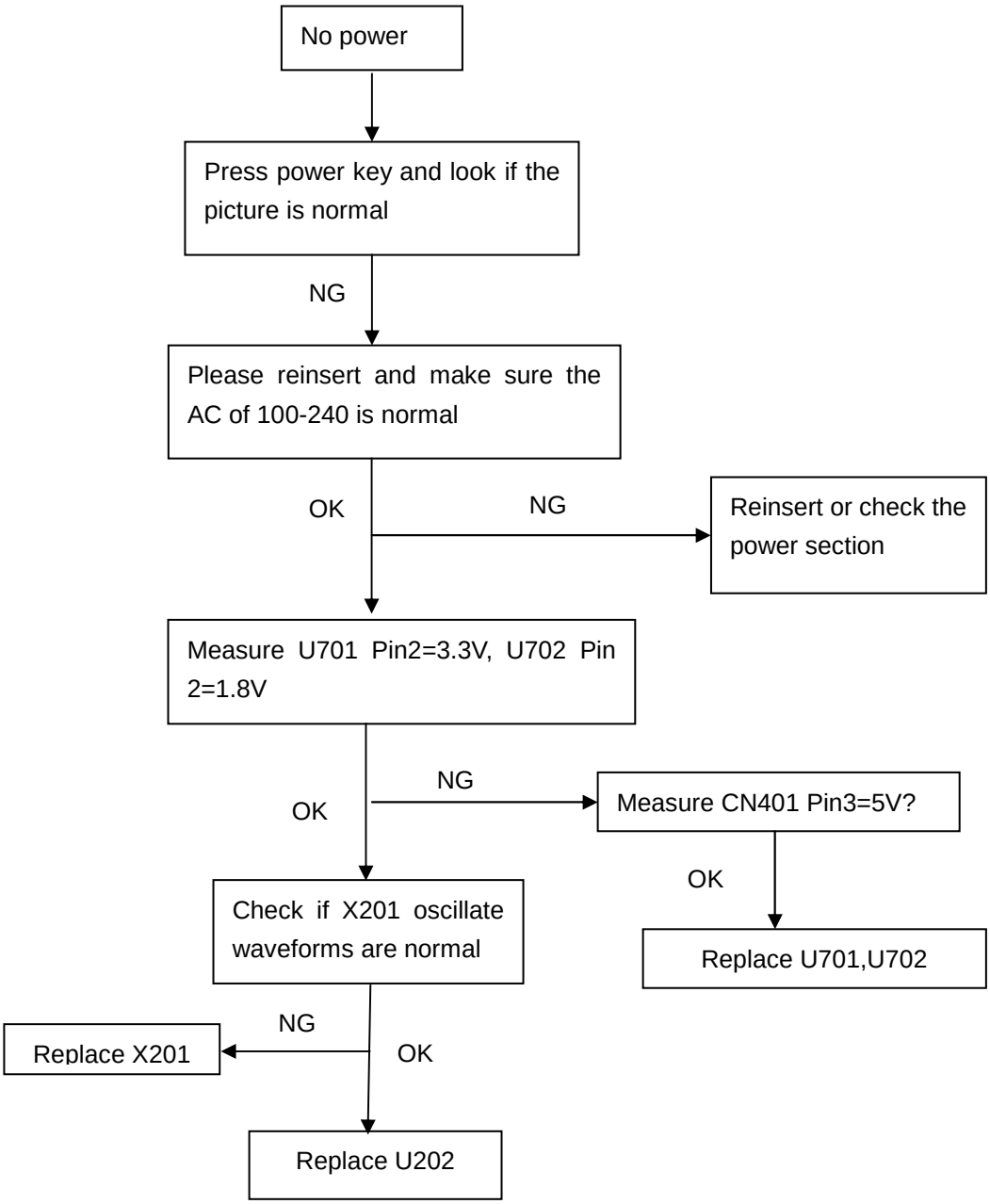


Fig 11

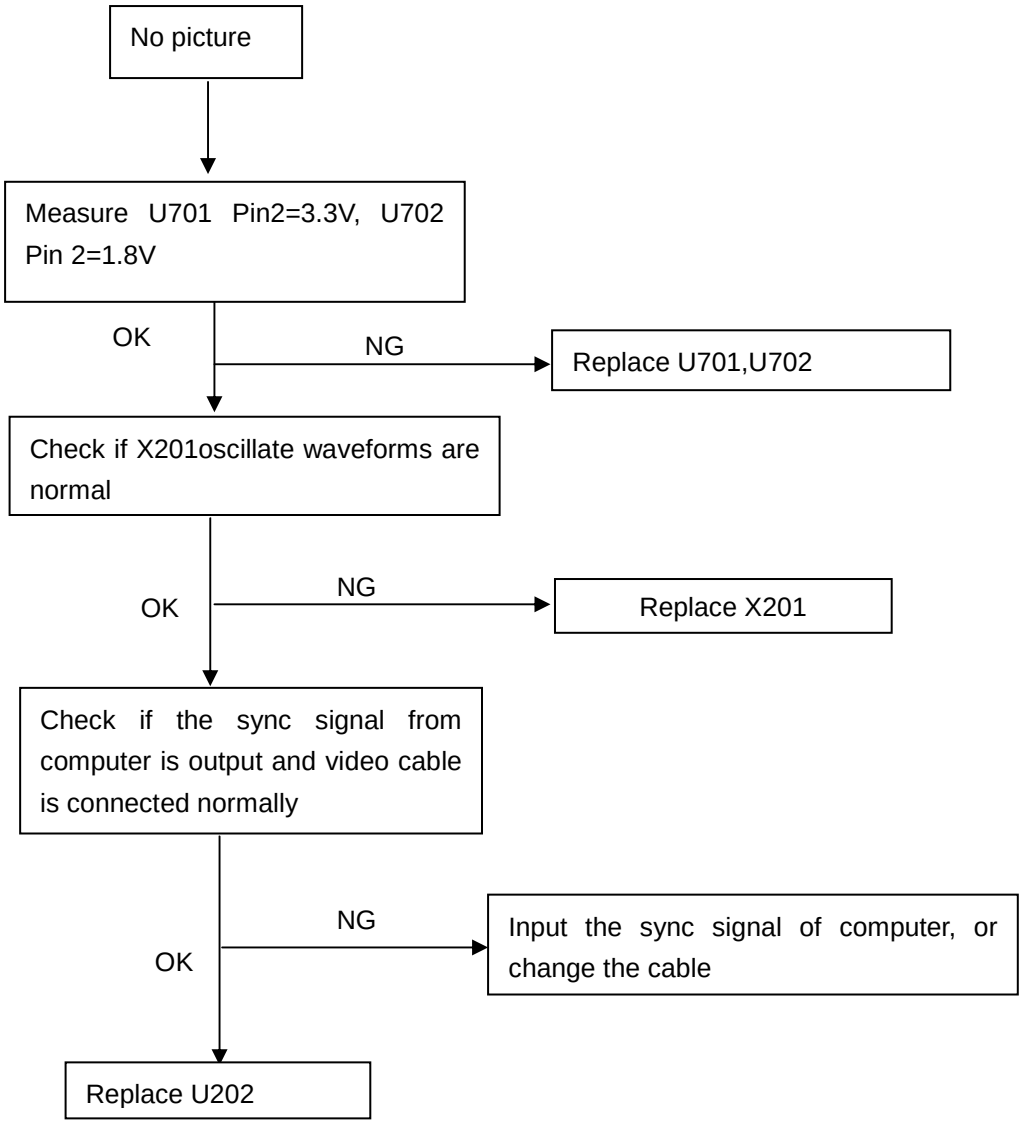
Fig 12

This chapter provides troubleshooting information for the P203W:

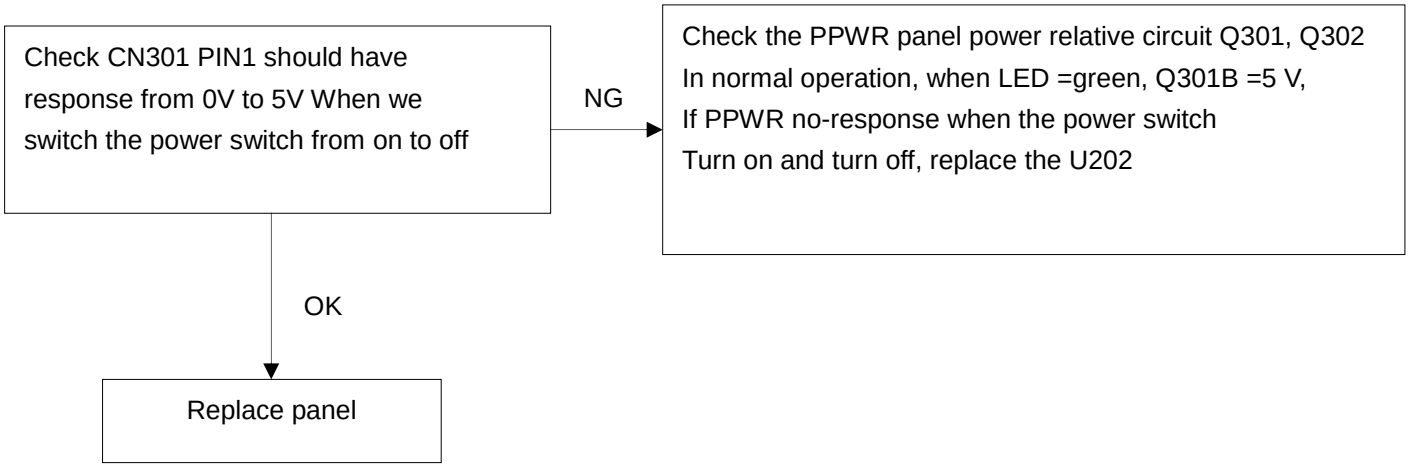
1. No Power



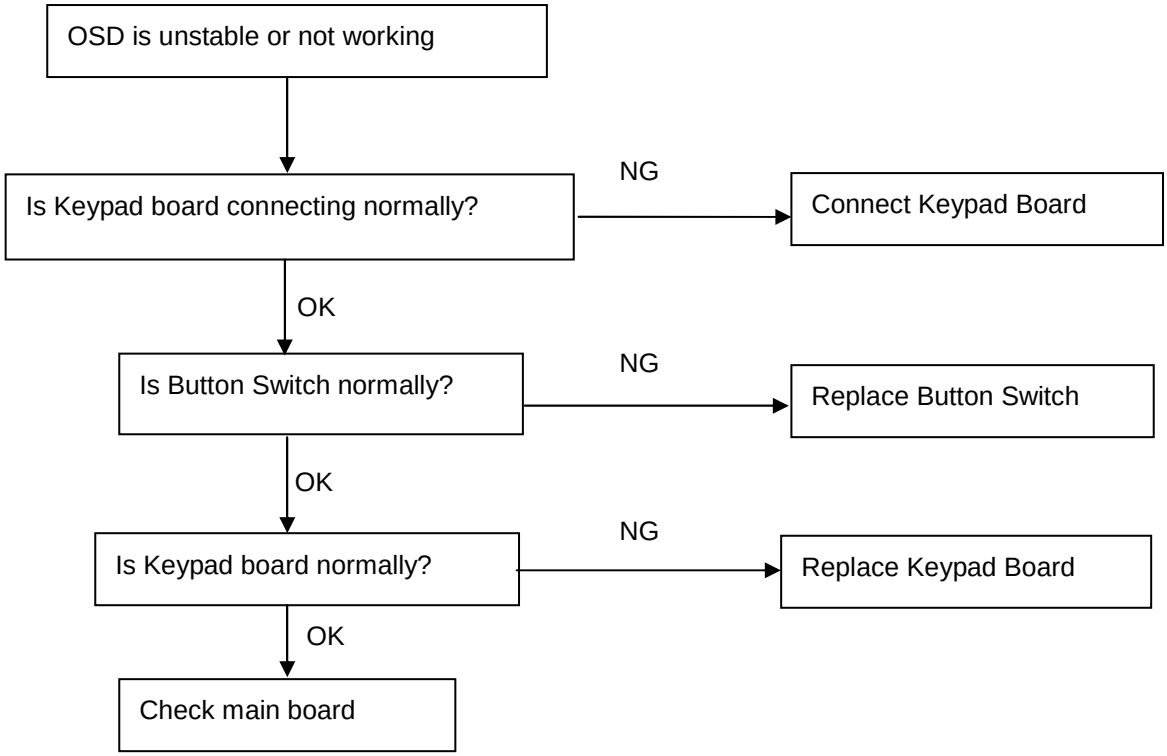
2. No Picture


No picture
Measure U701 Pin2=3.3V, U702 Pin 2=1.8V
OK
NG
Replace U701,U702
Check if X201oscillate waveforms are normal
OK
NG
Replace X201
Check if the sync signal from computer is output and video cable is connected normally
OK
NG
Input the sync signal of computer, or change the cable
Replace U202

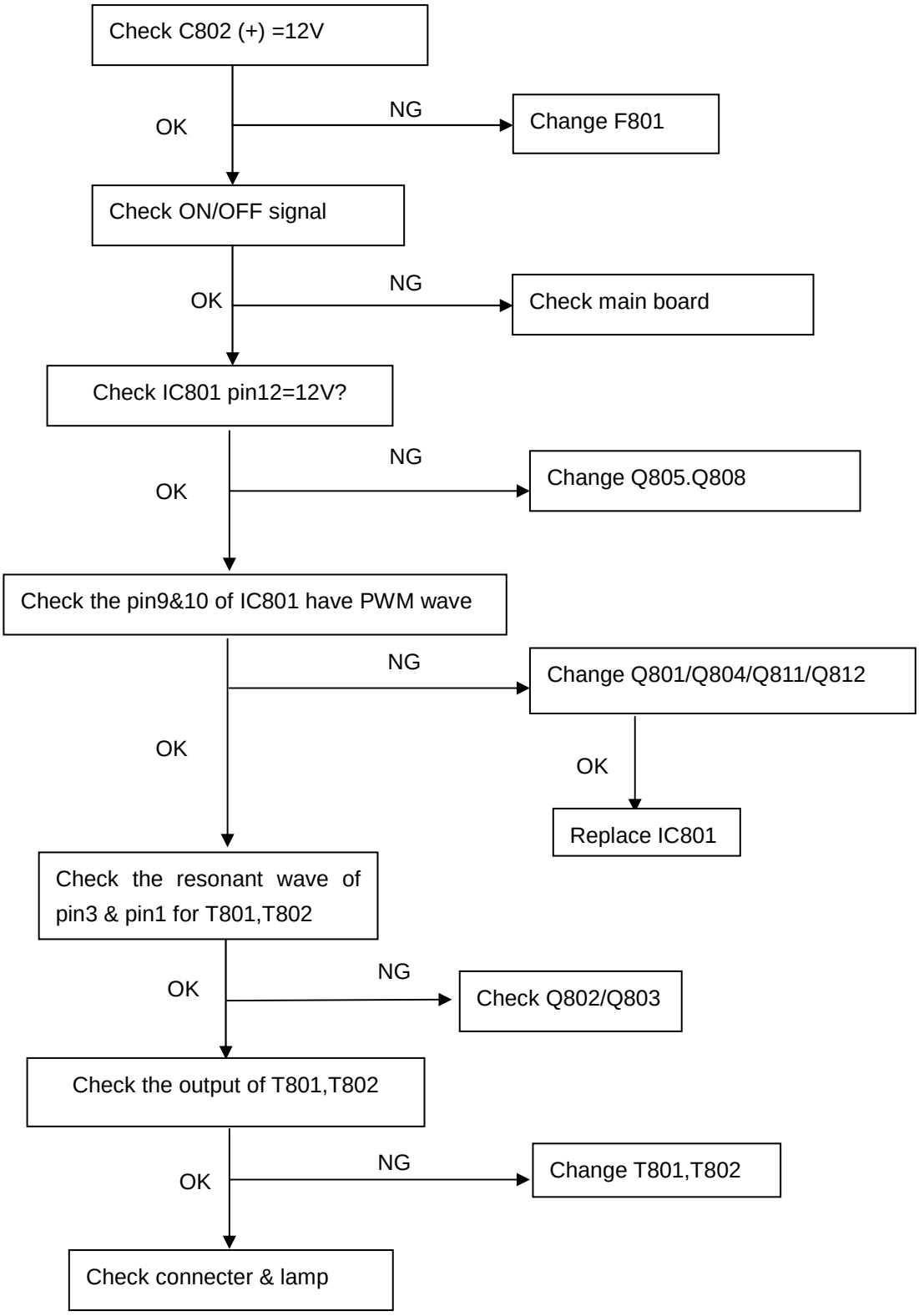
3. Panel Power Circuit



4. Keypad Board

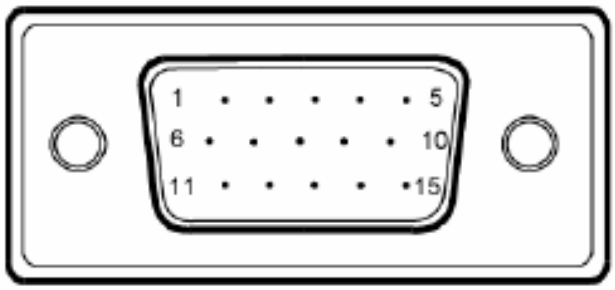


5. No Backlight



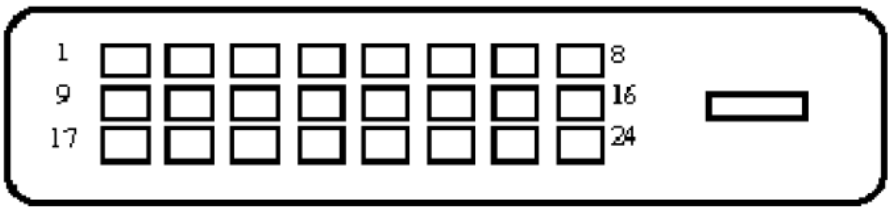
Connector Information

The following figure shows the connector locations on the monitor:



15-Pin Color Display Signal Cable

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



24-Pin Color Display Signal Cable

PIN	Meaning	PIN	Meaning
1.	TMDS Data2-	13.	TMDS Data3+
2.	TMDS Data2+	14.	+5V Power
3.	TMDS Data 2/4 Shield	15.	GND(return for +5V hsync.vsync)
4.	TMDS Data4-	16.	Hot Plug Detect
5.	TMDS Data4+	17.	TMDS Data0-
6.	DDC Clock	18.	TMDS Data0+
7.	DDC Data	19.	TMDS Data 0/5 Shield
8.	Analogue Vertical Sync	20.	TMDS Data5-
9.	TMDS Data1-	21.	TMDS Data5+
10.	TMDS Data1+	22.	TMDS Clock Shield
11.	TMDS Data 1/3 Shield	23.	TMDS Clock+
12.	TMDS Data3-	24.	DDC TMDS Clock-

FRU (Field Replaceable Unit) List

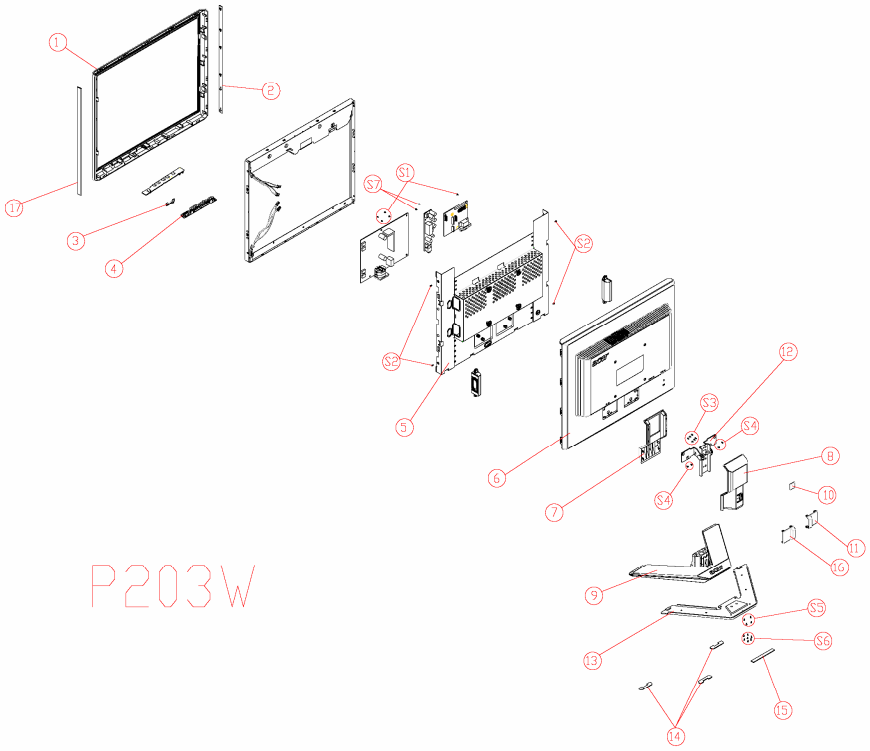
Chapter 6

This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of P203W.Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

NOTE: Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel (http://aicsl.acer.com.tw/spl/). For whatever reasons a part number change is made, it will not be noted in 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 government 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 (Model: P203W)

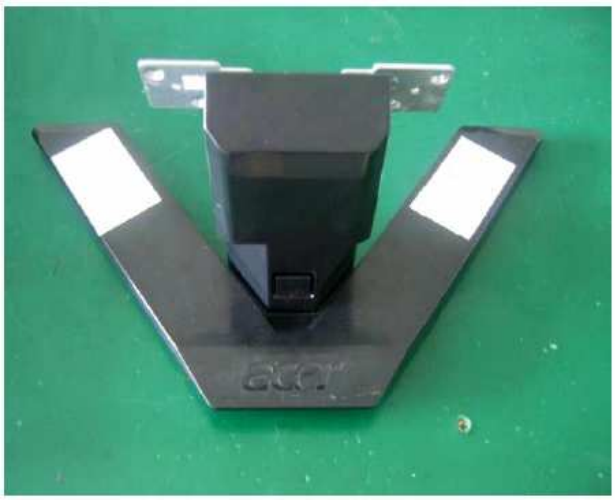


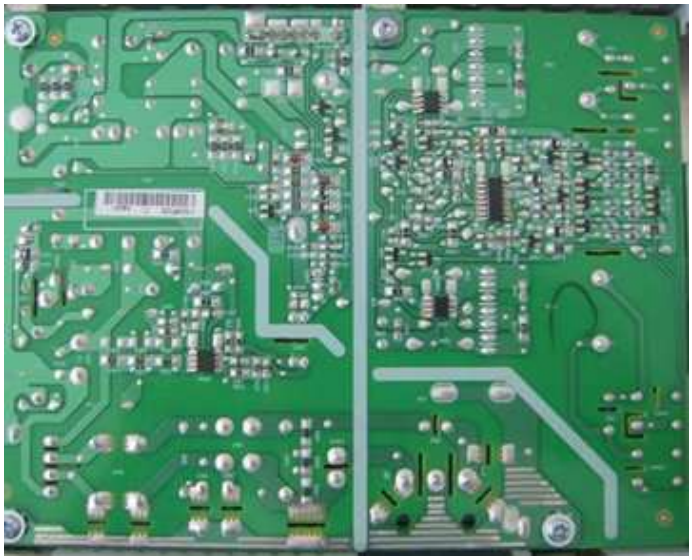
S7	SCREW M3X6	M1G1730-6-120	2	AUDIO & MAINFRAME
S6	SCREW M3X6	G1G130-8-120	7	Base Bracket & Base
S5	SCREW M3X6	G1G130-8-120	4	Base Bracket & Base
S4	SCREW M4X6	M1G140-8-125	4	Hinge & Mainframe
S3	SCREW M4X8	G1G140-10-120	6	Hinge & Stand Rear
S2	SCREW M3X5	M1G130-5-120	4	Panel & Mainframe
S1	SCREW M3X8	G1G1130-8-120	5	PCB Board & Mainframe

L20WA-7acer2g				
NO	PART NAME	PART NO	Q'TY	NOTE
1	BEZEL	A34G0470-11-01A	1	
2	DECORATE L	A34G0472-11-01A	1	
3	LED LENS	A33G270-11-01A	1	
4	KEY BUTTON	A33G0269-11-01A	1	
5	MAIN FRAME	A15G0262-*	1	
6	REAR COVER	A34G0471-*	1	
7	STAND FRONT	A34G0473-11-01A	1	
8	STAND REAR	A34G0474-11-01A	1	
9	BASE	A34G0475-11-01A	1	
10	BASE BUTTON	A33G0266-11-01A	1	
11	HINGE COVER L	A33G0271-11-01A	1	
12	HINGE	A37G0050-1	1	
13	BAES BRACKET	A33G0263-101	1	
14	RUBBER FOOT 1	A12G0007-1	3	
15	RUBBER FOOT 2	A12G0006-1	1	
16	HINGE COVER R	A33G0271-21-01A	1	
17	DECORATE R	A34G0472-21-01A	1	

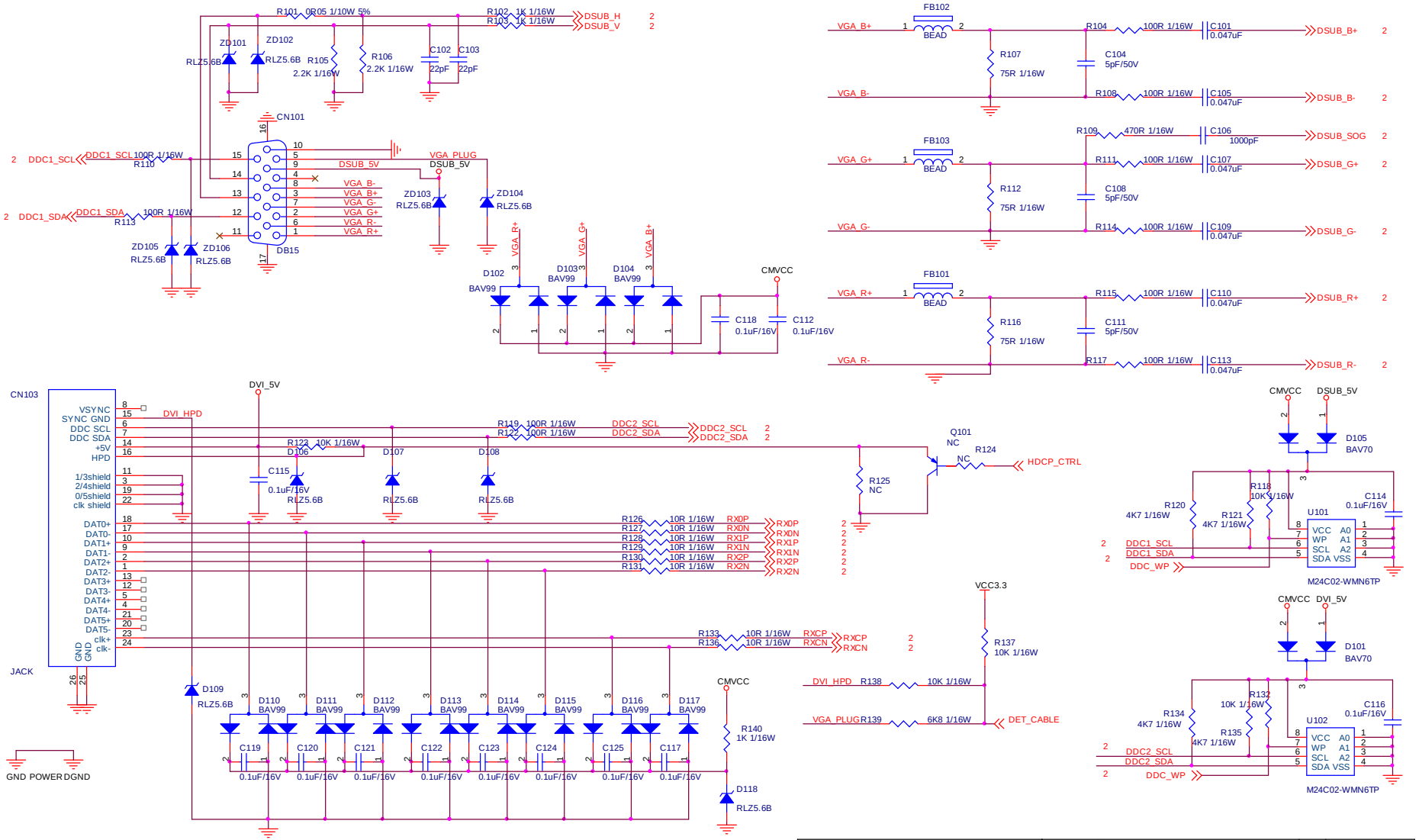
Part List

Above picture show the description of the following component.

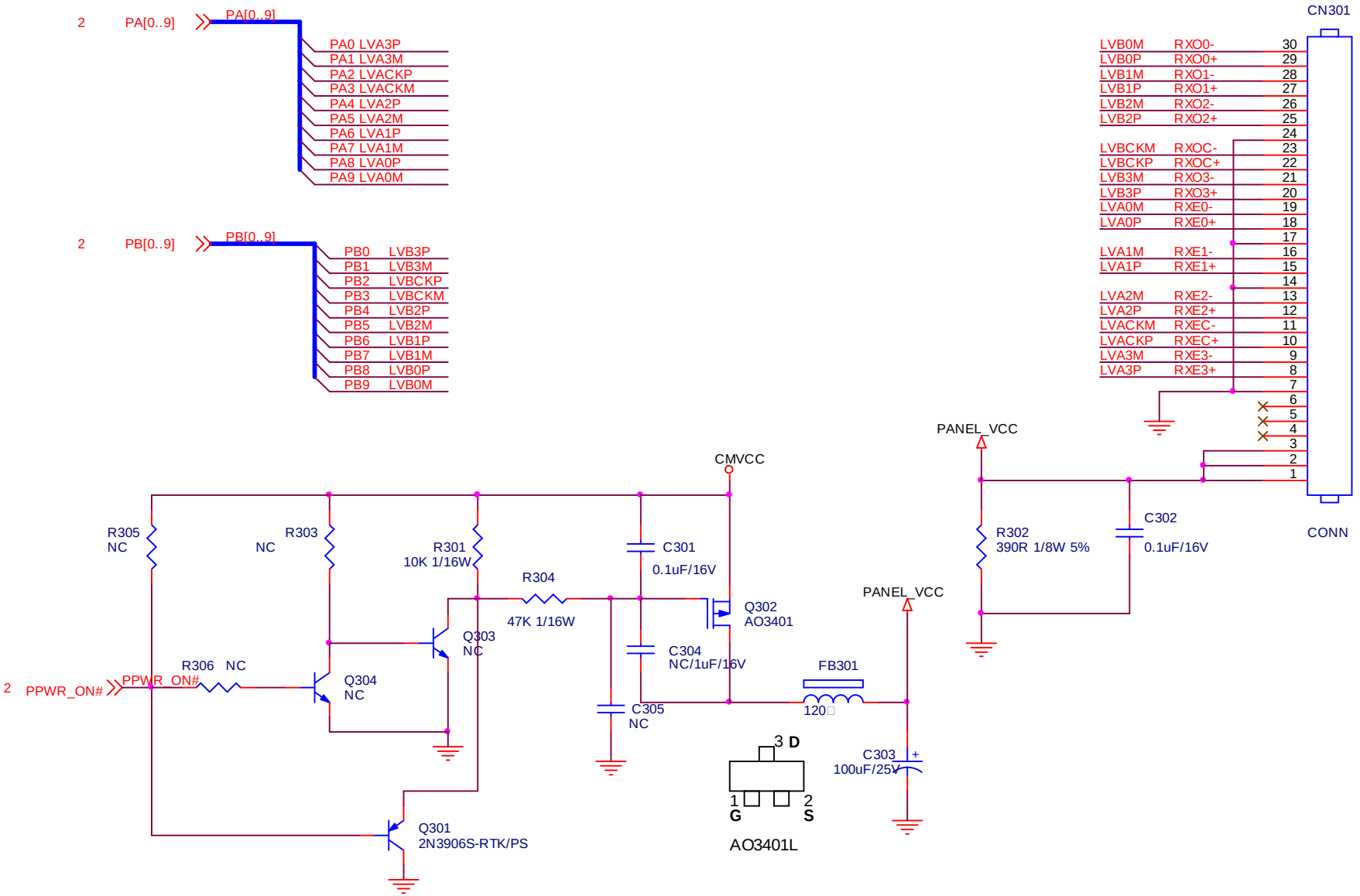
Item	Picture	Description
1		Base
2		shield
4		Panel

5		Power Board
6		Main Board

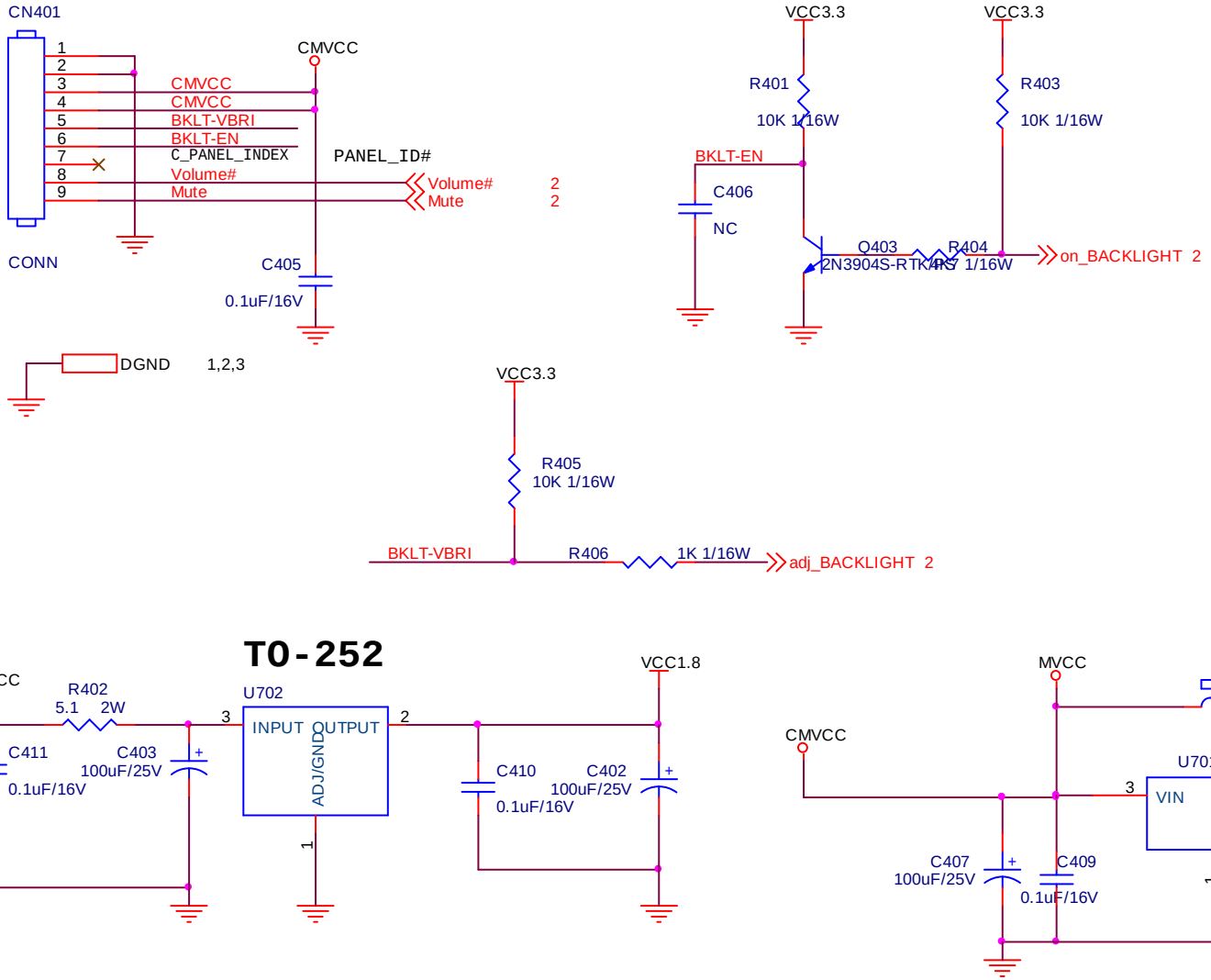
Main Board



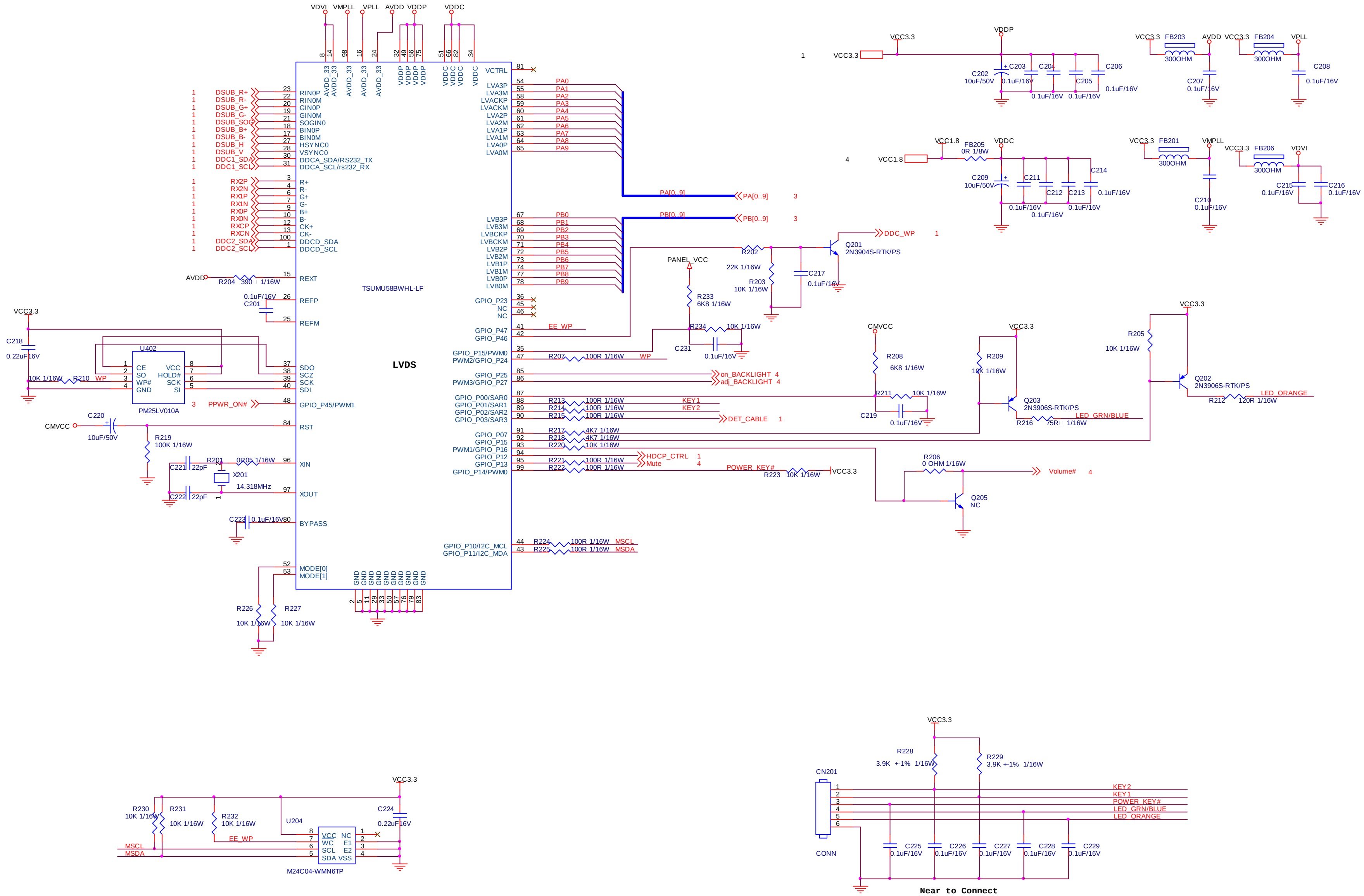
TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	ACER X/P203W SERIES	Size	B
紙隔瓜細腹	G2698-1-X-X-7-070717	TPV MODEL	K22W	Rev	1
Key Component	2.0.INPUT	PCB NAME	715G2698-1-AC	秤爹	<秤爹>
Date	Tuesday, July 17, 2007	Sheet	2 of 5		



T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	ACER X/P203W SERIES	Size	A
紙 隔 瓜 細 腹	G2698-1-X-X-7-070717	TPV MODEL	K22W	Rev	1
Key Component	3.0.OUTPUT	PCB NAME	715G2698-1-AC	称爹	<称爹>
Date	Tuesday, July 17, 2007	Sheet	3 of 5		

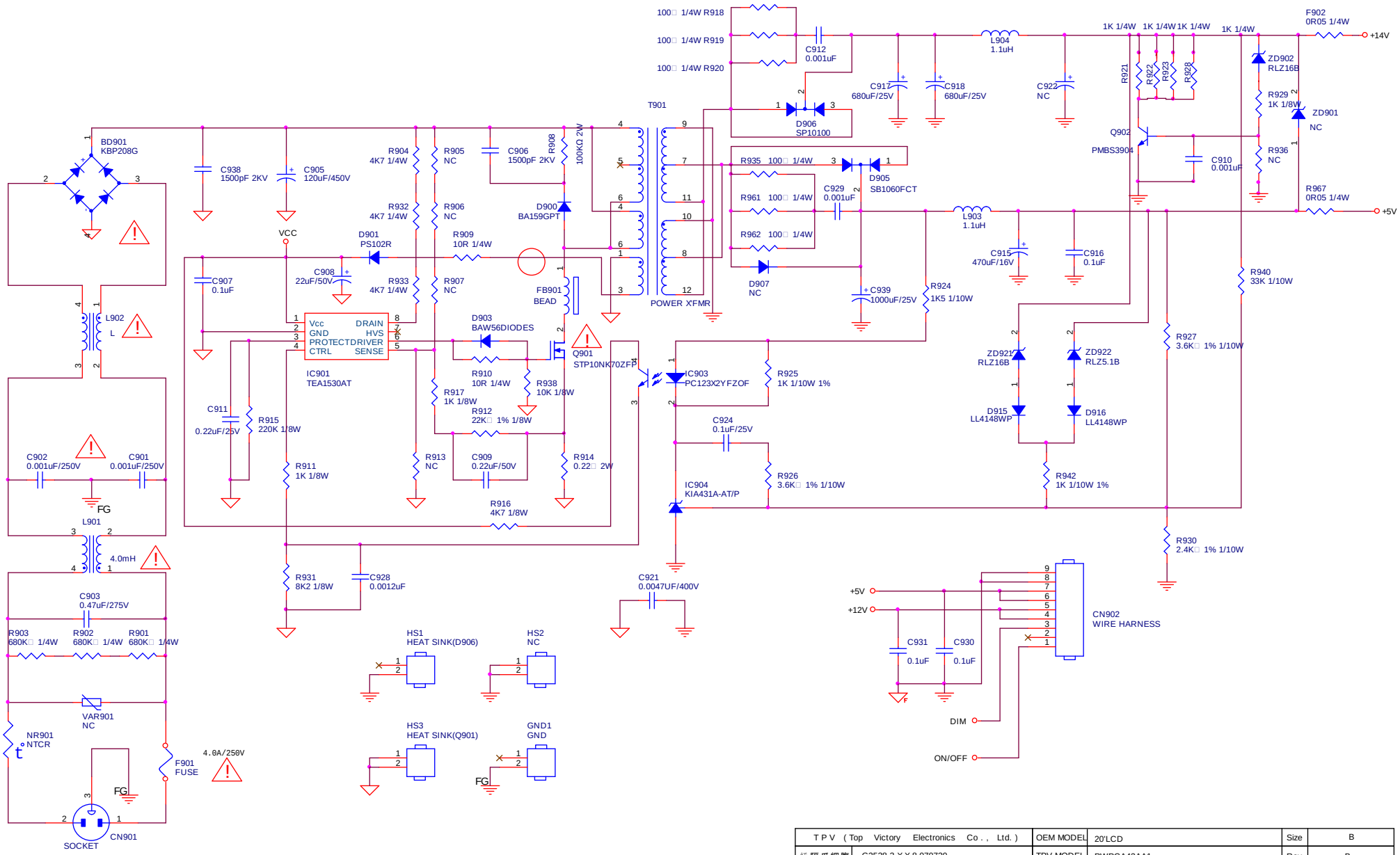


T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	ACER X/P203W SERIES	Size	A
結 隔 瓜 細 腹	G2698-1-X-X-7-070717	TPV MODEL	K22W	Rev	1
Key Component	4.0.POWER	PCB NAME	715G2698-1-AC	称爹	<称爹>
Date	Tuesday, July 17, 2007	Sheet	4 of 5		

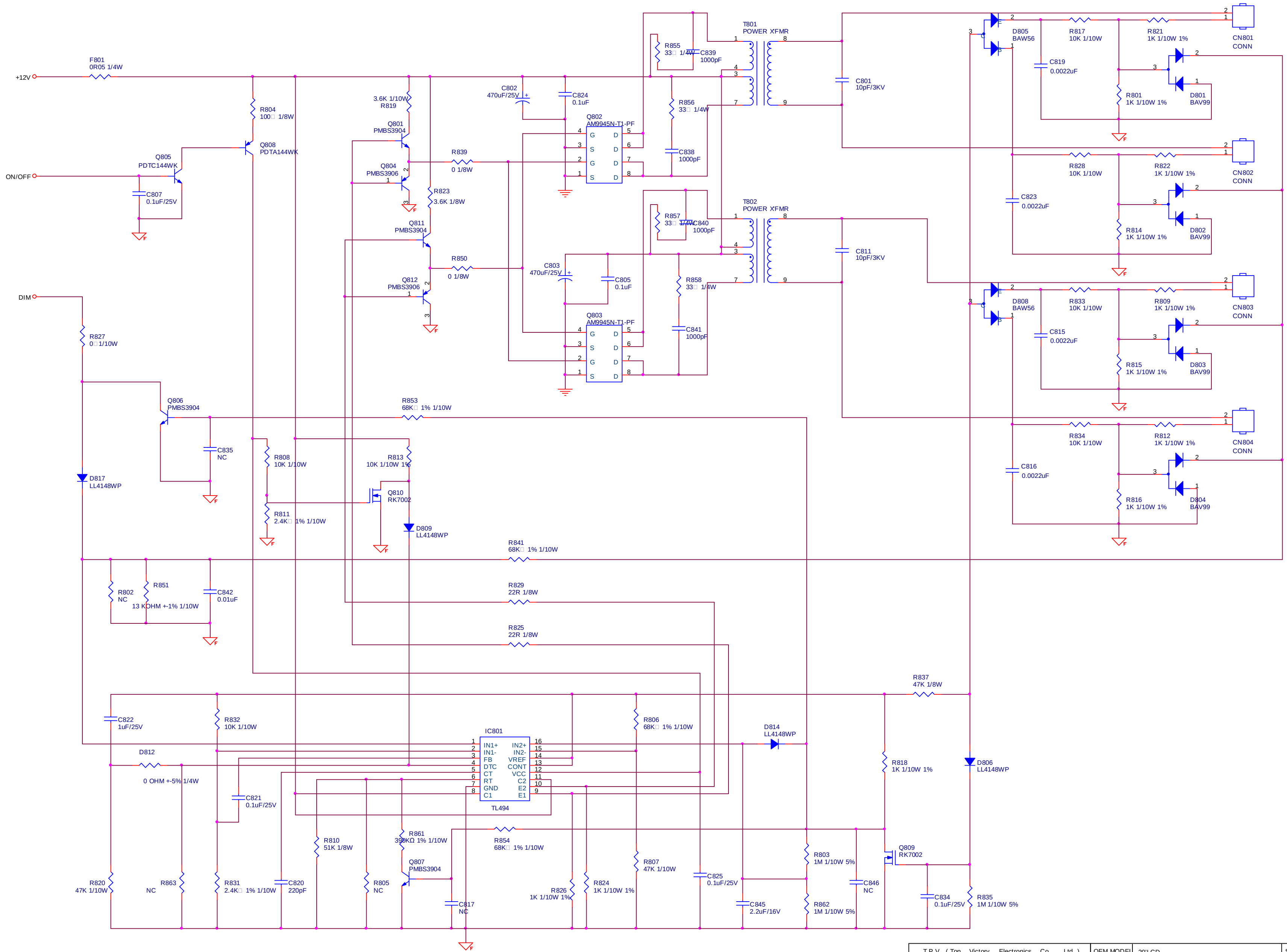


TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	ACER X/P203W SERIES	Size	C
[illegible]	G2698-1-X-X-7-070717	TPV MODEL	K22W	Rev	1
Key Component	5.0.SCALER	PCB NAME	715G2698-1-AC	[illegible]	<[illegible]>
Date	Tuesday, July 17, 2007	Sheet	5 of 5		

Power board



T P V （Top Victory Electronics Co., Ltd.）		OEM MODEL	20'LCD	Size	B
紙隔瓜細腹	G2538-3-X-X-8-070720	TPV MODEL	PWPCA42AA1	Rev	B
Key Component	02.POWER	PCB NAME	715G2538 3	称爹	<称爹>
Date	Thursday, July 19, 2007	Sheet	2 of 3		



TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	20'LCD	Size	Custom
紶隔瓜細腹	G2538-3-X-X-8-070720	TPV MODEL	PWPCA42AA1	Rev	B
Key Component	03.INVERTER	PCB NAME	715G2538 3	称爹	<称爹>
Date	Thursday, July 19, 2007	Sheet	3 of 3		