

**Acer AL1716 Service Guide** 

### **Service Guide Version and Revision**

No.	Version	Release Date	Revision
1	1.0	Jun24-2005	Initial release

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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.

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# **Monitor Features**

### 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. It 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 AL1716

Panel	M170EG01 V.8
Signal Interface	D-SUB
Sync Type	Separate / Compatible
Color Temp User Adjust	Support
DDC	VESA DDC2B
Speaker	No
Headphone Jack	No
Microphone Jack	No
USB Hub	Not support
Tilt / Swivel	Yes / No
Height Adjust	Option

6

# **Electrical Requirements**

# **Standard Test Conditions**

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

Ambient light		225 lux		
Viewing distance		40 cm in front of LCD panel		
Warm up time	All specifications	30 minutes		
	Fully functional	5 seconds		
Measuring equipm	<u>nent</u>	Chroma 7120 signal generator or equivalent, directly		
		Connected to the monitor under test.		
Control settings	User brightness control	Maximum (unless otherwise specified)		
	User contrast control	Typical (unless otherwise specified)		
	User red/white balance,			
	Green/white balance and			
	Blue/white balance control	In the center (unless otherwise specified)		
Power input		100VAC or 264VAC		
Ambient temperat	<u>ure</u>	20 <u>+</u> 5		
Analog input mod	<u>e</u>	1280 x1024 /75 Hz		
		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		
		$lb = kg \times 2.2$		
		degrees F = [°C x 1.8] + 32		
Measurement syst	<u>tems</u>	degrees C = [°F - 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

Panel time	17 " active matrix color TFT LCD		
Panel type	M170EG01 V.8		
Display size	337.920mm (H) × 270.336mm(V)		
	VGA 640 × 480 (60/75 Hz)		
Display mode	SVGA 800 × 600 (60/75 Hz)		
Display mode	XGA 1024 × 768 (60/70/75 Hz)		
	SXGA 1280 × 1024 (60/75 Hz)		
Pixel pitch	0.264mm(H) × 0.264mm(V)		
Display dot	1280 x (RGB) × 1024		
Pixel clock	135MHz(max.)		
Contrast ratio	500:1(typ.)		
<u>Brightness</u>	300 cd/m <sup>2</sup> (typ.)		
Response time (Tr+Tf)	8ms(Typ.)		
Display color	16.2M(6-bits+FRC)		
Viewing angle	H: 140 / V: 130 (typ.) (CR=10)		
Pc interface	RGB Analog Interface		
Signal connector	D-Sub 15pin		
Interface frequency	Horizontal Frequency 30KHz80KHz		
interface frequency	Vertical Frequency 55Hz75Hz		
Plug & play	VESA DDC2B		
Power Input voltage	47-63HZ, 100 VAC to 264VAC ±10%		
Power Consumption	40 Watts (max.)		

# **LCD Panel Specification**

# LCD Panel Model (M170EG01 V.8)

Display Type active matrix color TFT LCD

Resolution 1280x1024 pixels
 Display Dot 1280x (RGB) x 1024

Display Area 337.920mm(H) x 270.336mm(V)
 Pixel Pitch 0.264mm(H) x 0.264mm(V)

Display Color
 Lamp Frequency
 Lamp Current
 Weight
 16.2M Colors
 60KHz(typ.)
 7.5mArms (typ.)
 1900g (typ.)

### **Optical Specifications**

Measuring Condition:  $Ta = 25^{\circ}C(Room\ Temperature)$ .

Item	Unit	Condi	tions	Min.	Тур.	Max.	Note
		Horizontal CR = 10	(Right) (Left)	60 60	70 70		-
Novina Apple		Vertical CR = 10	(Up) (Down)	60 50	70 60		-
Viewing Angle	[degree]	Horizontal CR = 5	(Right) (Left)	70 70	80 80		
		Vertical CR = 5	(Up) (Down)	70 70	80 80		
Contrast ratio		Normal Dire	ction	300	500		-
		Rising Time		-	6	9	
Response Time	[msec]	Falling Time	)	-	2	4	Note 1
		Rising + Fal	lling	1	8	13	
		Red x		0.61	0.64	0.67	
		Red y		0.31	0.34	0.37	
Color / Chromaticity		Green x		0.26	0.29	0.32	
Coordinates (CIE)		Green y		0.58	0.61	0.64	
		Blue x		0.11	0.14	0.17	
		Blue y		0.04	0.07	0.10	
Color Coordinates (CIE)		White x		0.28	0.31	0.34	
White		White y		0.30	0.33	0.36	
White Luminance @ CCFL 7.5mA (center)	[cd/m <sup>2</sup> ]			240	300		-
Luminance Uniformity [%]				75	80		Note 2
Crosstalk (in 75Hz)	osstalk (in 75Hz) [%]				1.5	Note 3	
Flicker	dB					-20	Note 4

# **Supported Timing**

STANDARD		RESOLUTION	HORIZONTAL FREQUENCY(kHz)	VERTICAL FREQUENCY(Hz)	
	VGA	640 × 480	31.469	59.940	
	70/1	640 × 480	37.500	75.000	
	SVGA	800 × 600	37.879	60.317	
	OVOA	800 × 600	46.875	75.000	
VESA		1024 × 768	48.363	60.004	
	XGA	1024 × 768	56.476	70.069	
		1024 × 768	60.023	75.029	
	SXGA	1280 × 1024	64.000	60.000	
	5	1280 × 1024	80.000	75.000	
IBM	DOS	720 × 400	31.469	70.087	
MAC	XGA	1024 × 768	48.780	60.001	
111/10	Non	1024 × 768	60.241	74.927	

# **Support Modes**

There will be 20 total support modes to accommodate the above mode and other video modes within the frequency range of the monitor.

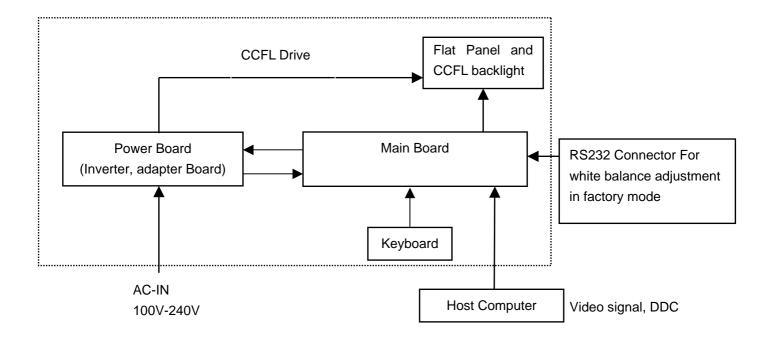
### 85Hz refresh rate Support

Monitor should display 85Hz refresh rate mode as emergency mode. Monitor should display "Out of Range" warning menu at this mode.

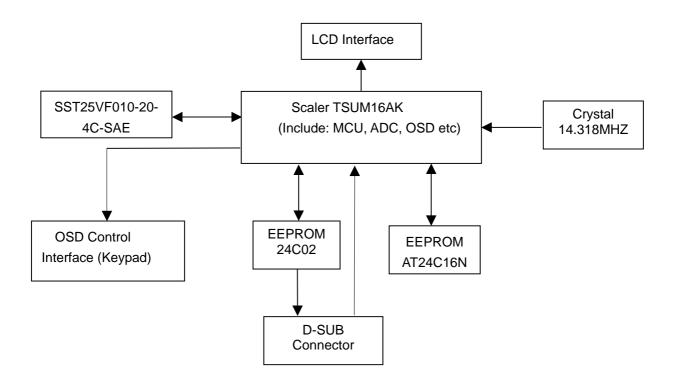
# **Monitor Block Diagram**

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

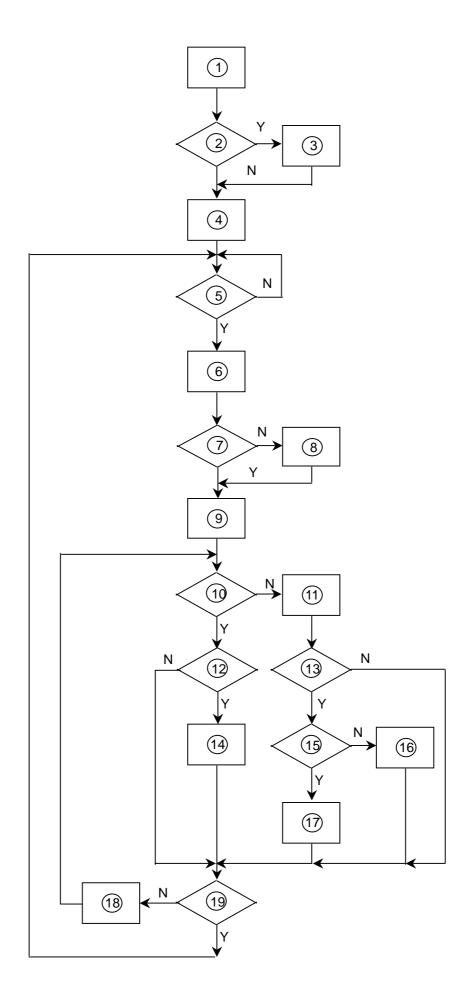
The Inverter board will drive the backlight of panel.



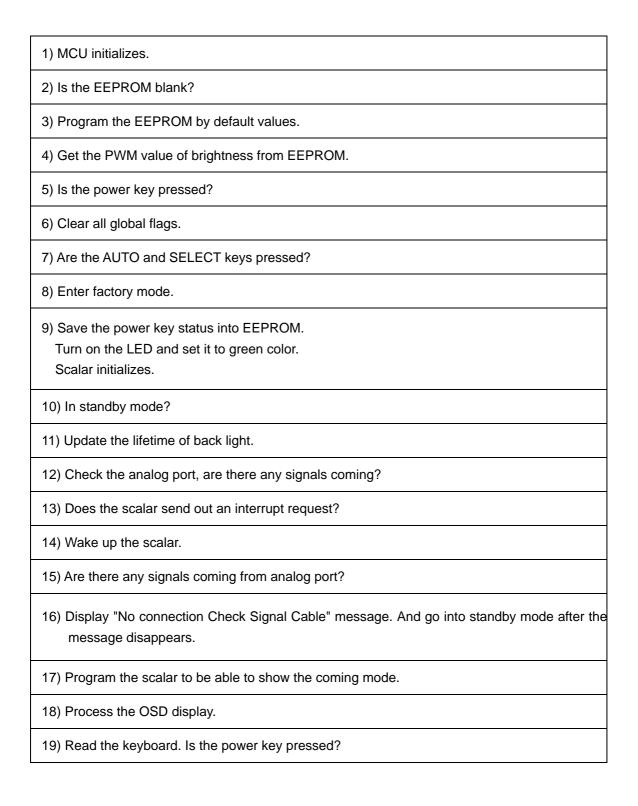
# **Main Board Diagram**



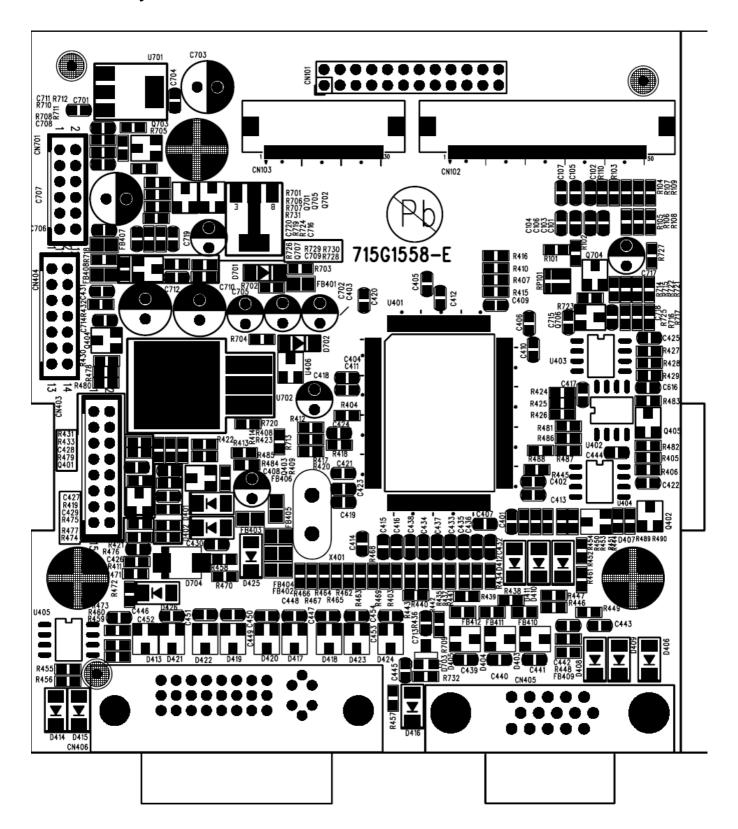
### **Software Flow Chart**



#### Remark:

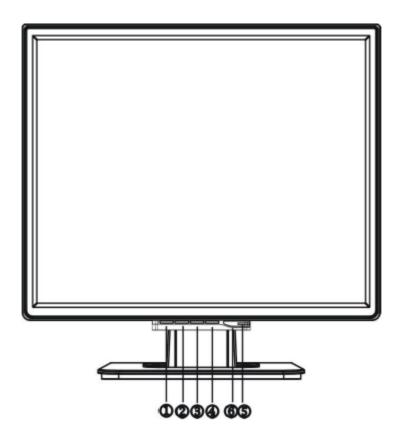


# **Main Board Layout**



Label	Part number	Description
CN405	88G 35315F H	D-SUB 15PIN
CN101	33G802724B H	WAFER
U401	56G 562100	TSUM16AK
X401	93G 22 53	CRYSTAL 14.318MHzHC-49U

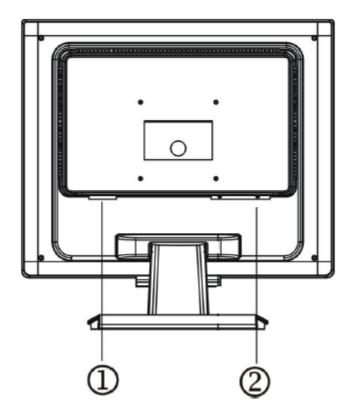
# Front Bezel



# **EXTERNAL CONTROLS FRONT PANEL CONTROL**

Item	tem Description		Description
1.	Auto Adjust / Exit	4.	MENU/ENTER
2.	<	5.	Power Indicator
3.	>	6.	Power Button

# Rear Bezel



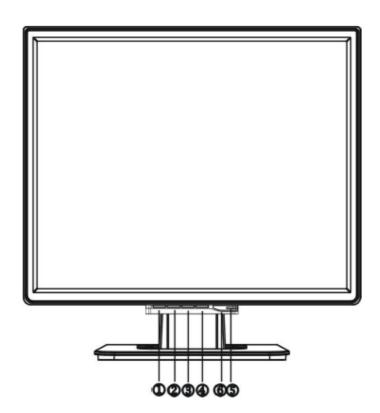
Item	Description
1.	Power Cable
2.	Signal Cable

# **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 Controls**



Item	Description	Item	Description
1.	Auto Adjust / Exit	4.	MENU/ENTER
2.	<	5.	Power Indicator
3.	>	6.	Power Button

#### **Front Panel Control**

#### ● Ø/Power Button:

Press this button to turn the monitor ON or OFF. And display the monitor's state.

#### • Power Indicator:

Green - Power on mode.

Orange - Off mode.

#### • 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.

#### • <:

Negative through adjustment icons when OSD is ON or adjust a function when function is activated.

#### >:

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.

#### **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.

# **Adjusting the Picture**

### a. 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.



Analog-Only Mode

# b. The Description For Control Function

Main Menu Icon	Sub Menu Item	Sub Menu Icon	Description	
*	Contrast		Contrast from Digital-register.	
	Brightness	<b>☆</b>	Backlight Adjustment	
	Focus		Adjust Picture Phase to reduce Horizontal-Line noise	
	Clock		Adjust picture Clock to reduce Vertical-Line noise.	
<u> </u>	H. Position		Adjust the horizontal position of the picture.	
[ <del>+</del> ]	V. Position		Adjust the vertical position of the picture.	
	Warm	N/A	Recall Warm Color Temperature from EEPROM.	
	Cool	N/A	Recall Cool Color Temperature from EEPROM.	
••	User / Red	R	Red Gain from Digital-register.	
	User/ Green	G	Green Gain Digital-register.	
	User / Blue	B	Blue Gain from Digital-register.	
	English	N/A	Set OSD display language to English.	
	Traditional Chinese	N/A	Set OSD display language to Traditional Chinese.	
	Deutsch	N/A	Set OSD display language to German.	
	Français	N/A	Set OSD display language to French.	
	Español	N/A	Set OSD display language to Spain.	
	Italiano	N/A	Set OSD display language to Italian.	
	Simplified Chinese	N/A	Set OSD display language to Simplified Chinese.	
	Japanese	N/A	Set OSD display language to Japanese.	
OSD	H. Position	<b>←□</b> +	Adjust the horizontal position of the OSD.	
	V. Position	<b>‡</b>	Adjust the vertical position of the OSD.	
	OSD Timeout	<u>O</u>	Adjust the OSD timeout.	

Main Menu Icon	Sub Menu Item	Sub Menu Icon	Description	
(Analog-Only Model)	Auto Config	N/A	Auto Adjust the H/V Position, Focus and Clock of picture.	
	Information	N/A	Show the resolution, H/V frequency and input port of current input timing.	
RĐ	Reset	N/A	Clear each old status of Auto-configuration and set the contemperature to Cool.	
EXIT	Exit	N/A	Exit OSD	

# **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 I<sup>2</sup>C 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. 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.

# **Machine Disassembly**

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

### **Disassembly Procedure**

### Disassemble the base

- 1. Remove hinge cover. (Fig 1)
- 2. Remove four screws to release stand base. (Fig 2)



Fig 1



Fig 2

### Disassemble the front cover and rear bezel

- 1. Remove five screws to release back cover and front bezel. (Fig 3)
- 2. Remove connector wire with keyboard and main board. (Fig 4)



Fig 3



Fig 4

### Disassemble the shield

Remove two screws to release the shield. (Fig 5) (Remove the shield as arrow direction).



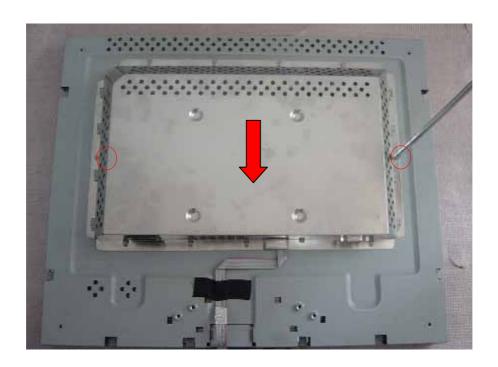


Fig 5

### Disassemble the main board

- 1. Remove three screws to release main board. (Fig 6)
- 2. Remove connector wire with main board and panel. (Fig 7)



Fig 6

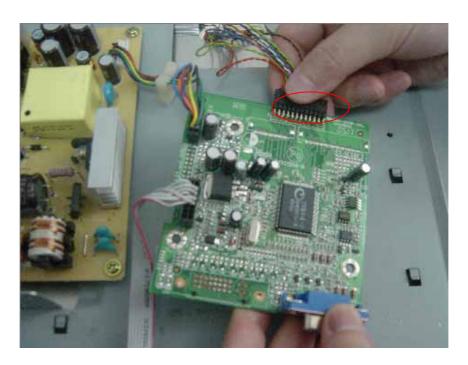


Fig 7

- 3. Remove connector wire with main board and power board. (Fig 8)
- 4. Remove connector wire with main board and KEPC board. (Fig 9)

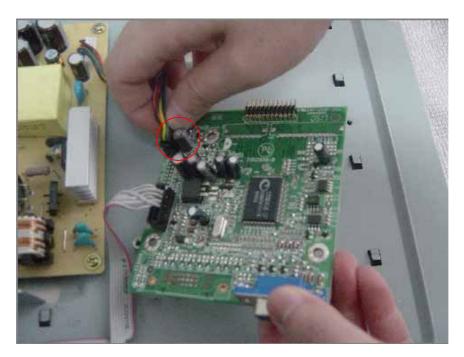


Fig 8

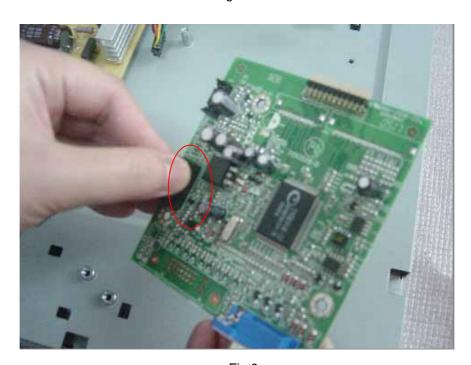


Fig 9

# Disassemble the power board

- 1. Remove four screws to release power board. (Fig 10)
- 2. Remove connector wire with power board and panel. (Fig 11)



Fig 10



Fig 11

# Disassemble the panel

Remove four screws to release metal frame. (Fig 12)

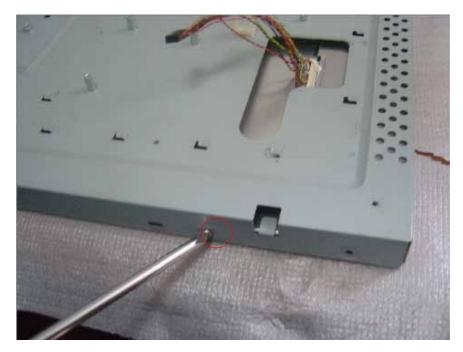


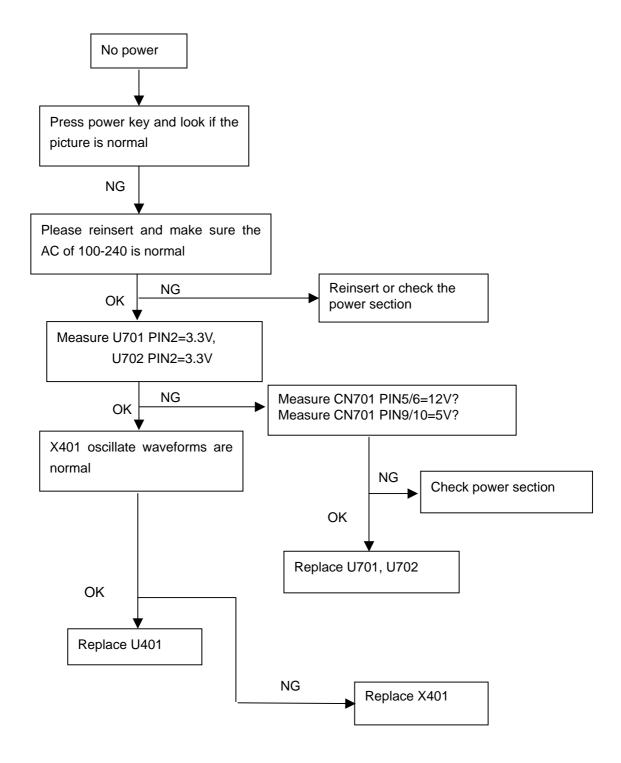
Fig 12



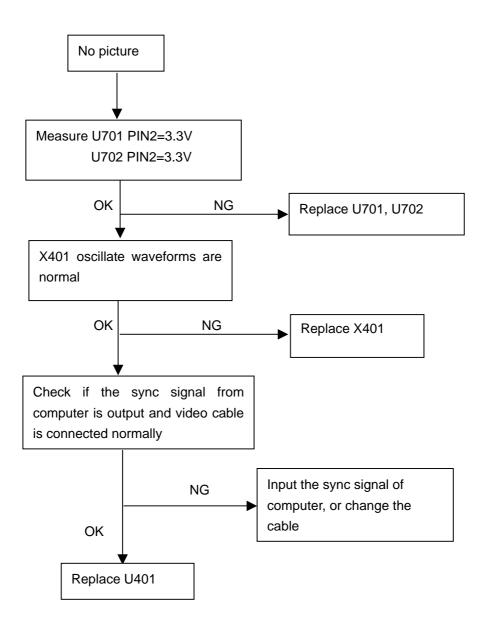
# **Troubleshooting**

This chapter provides troubleshooting information for the AL1716:

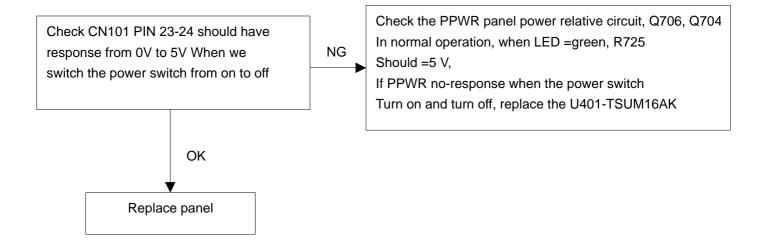
### 1. No power



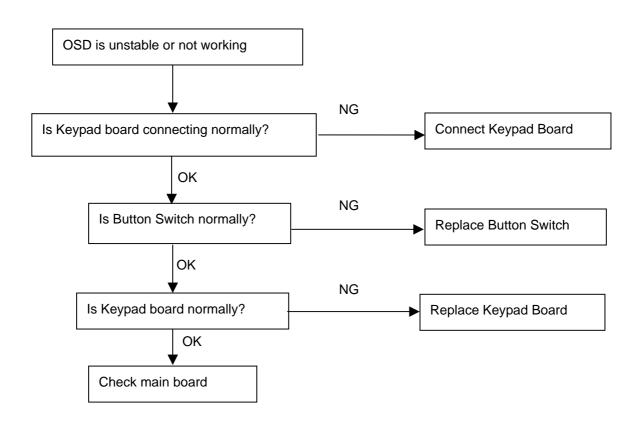
# 2. No picture (LED is orange)



#### 3. Panel Power Circuit

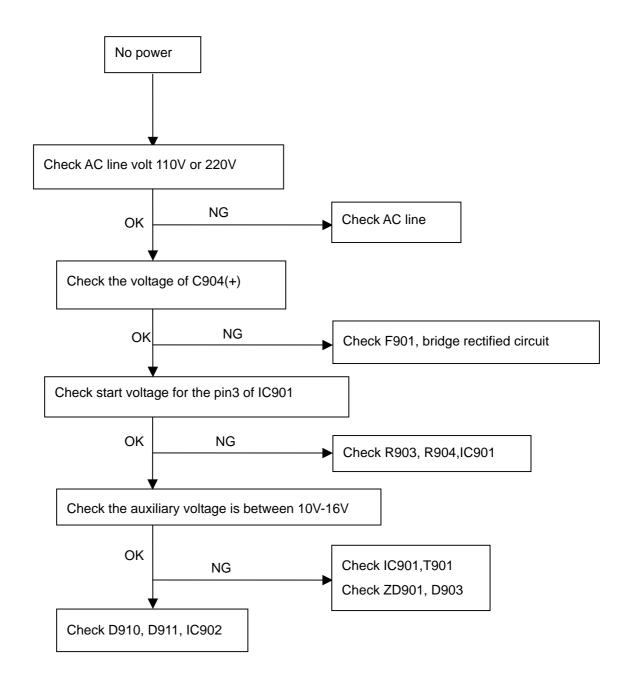


### 4. Keypad Board

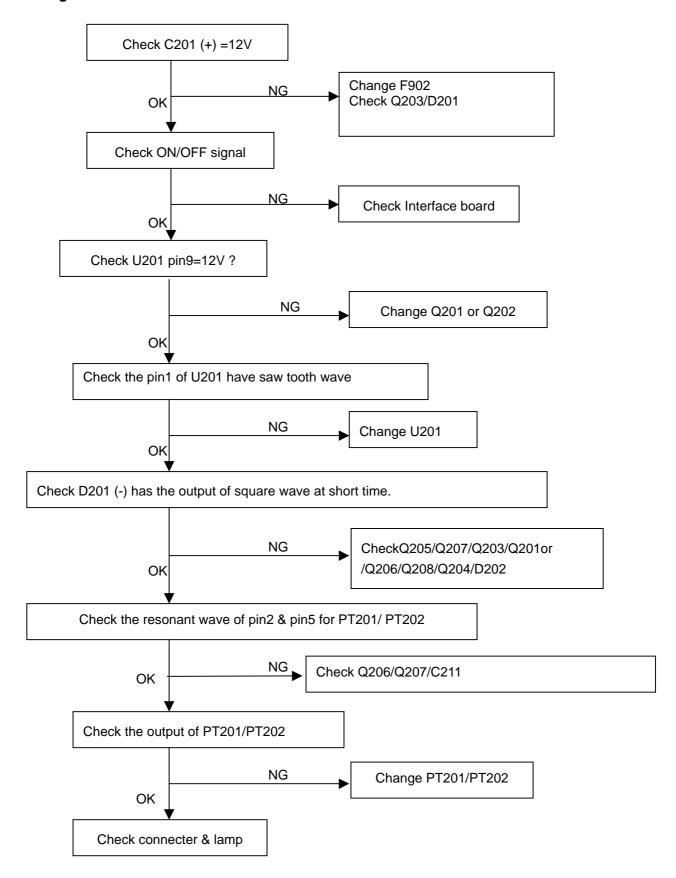


### 5. PWPC

#### **No Power**

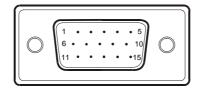


# No Backlight



# **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.	+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		

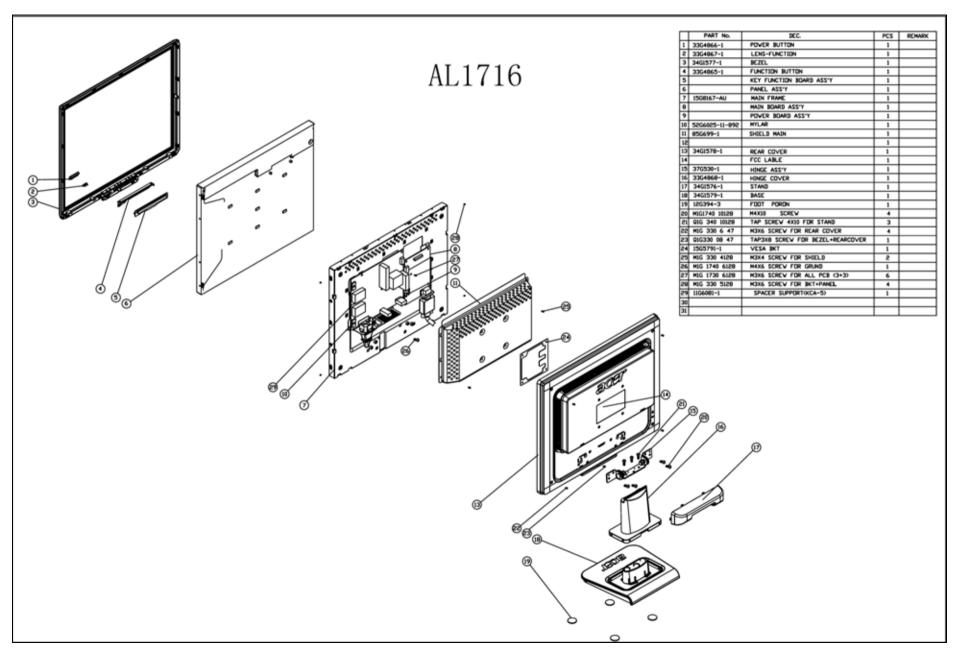
# FRU (Field Replaceable Unit) List

This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of AL1716. 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: AL1716)**

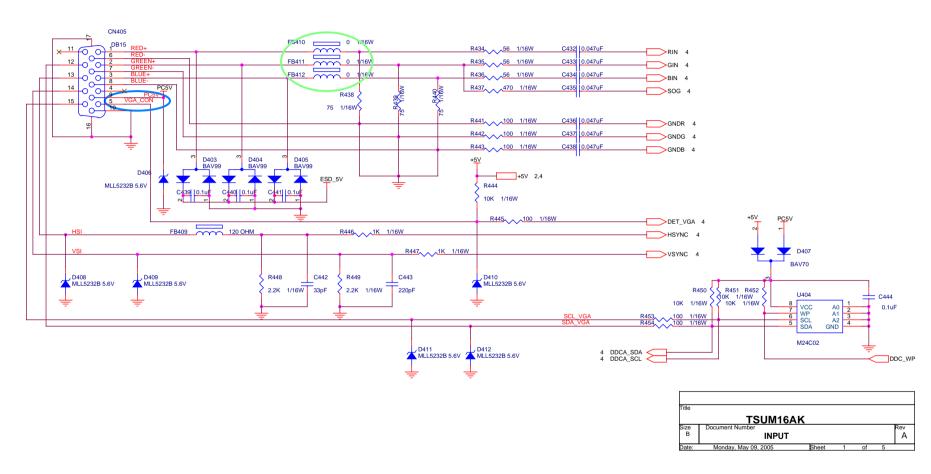


Part List
Above picture show the description of the following component.

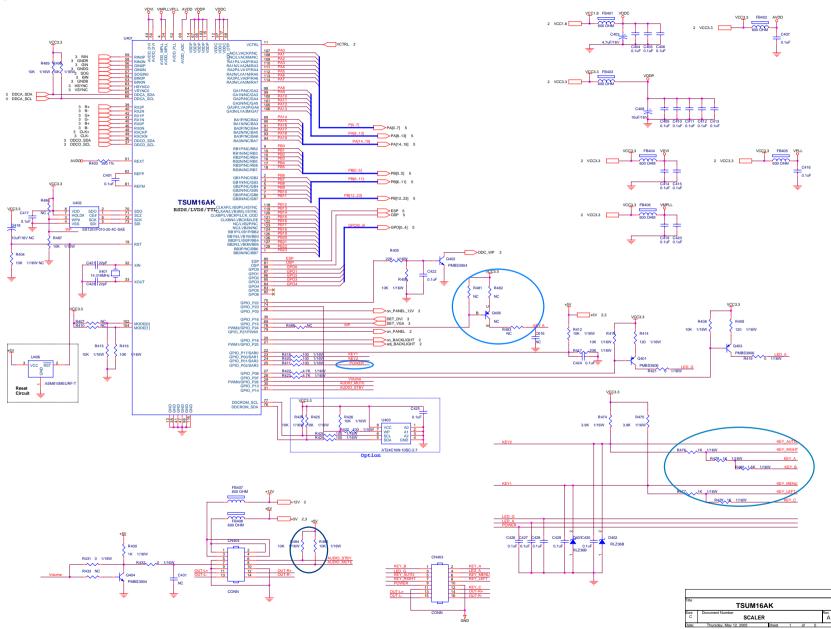
Item	Picture	Description	Part No.
1		BACK COVER	34G1578 RX B
2		STAND	34G1576 RX B
3	acer	BEZEL	34G1577AQW B
4	The state of the s	BASE	34G1579 RX B
5		SCREW	M1L1730 8128
6		SCREW	Q1G 340 10128

# **Schematic Diagram**

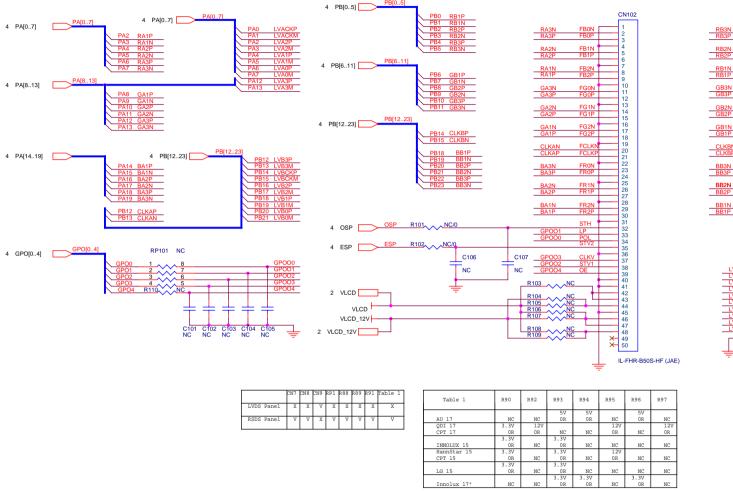
# **Analog Input**



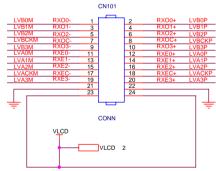
### TSUM16AK



### **LVDS**

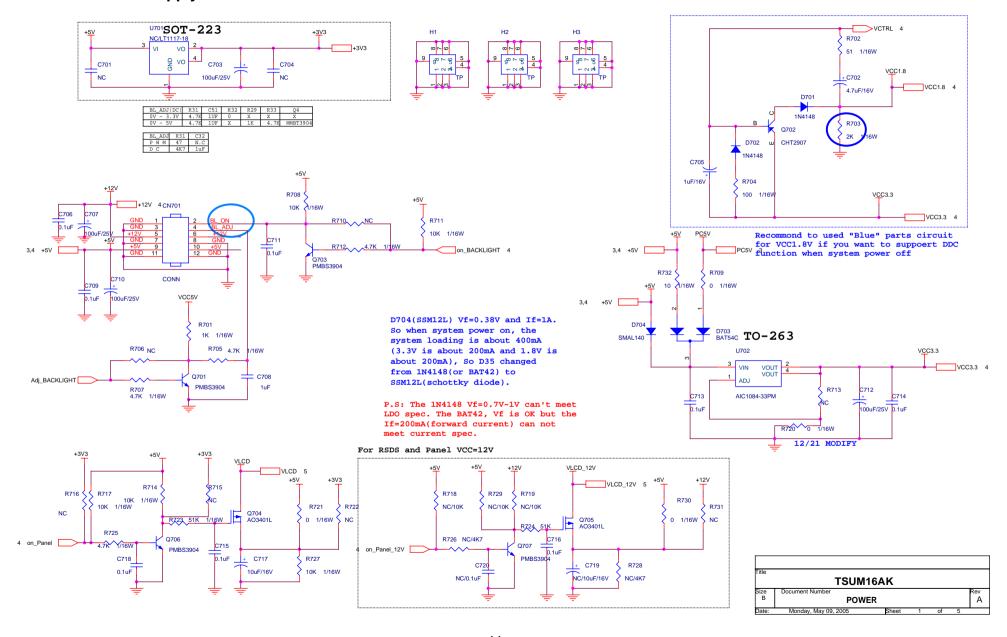








### **Main Board Power Supply**



# Power board (adapter + inverter)

