

***Aspire M3710***  
***Aspire M5711***  
***Aspire M7711***  
***Service Guide***

Service guide files and updates are available on the AIPG/CSD web; for more information please refer to <http://csd.acer.com.tw>

PRINTED IN TAIWAN

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## ***Revision History***

Please refer to the table below for the updates made on Aspire M3710/Aspire M5711/ Aspire M7711 service guide.

<b>Date</b>	<b>Chapter</b>	<b>Updates</b>

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## ***Conventions***

The following conventions are used in this manual:

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

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## ***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.

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# ***System Specifications***

## ***Features***

### ***Operating System***

- Microsoft Windows Vista (Home Basic, Home Premium, Business)

### ***Processor***

- Socket Type: Intel® Socket T LGA 775 pin
- Processor Type:
  - Intel Pentium Dual Core / Core 2 Duo / Core2 Quad (up to 95W CPUs  
FSB 1066/1333 MHz CPUs)

### ***Chipset***

- NV MCP7A-O (Aspire M3710) / MCP7A-D (Aspire M7711/M5711)

### ***PCB***

- Form Factor: Micro ATX
- Dimension/Layer: 244mm x244mm

### ***Memory***

- Memory Type: DDR2 800
- Support single channel 64 bit mode with maximum memory size up to 8GB
- Support un-buffered DIMM (NV MCP7A-O/ MCP7A-D )
- DIMM Slot: 4
- Memory Max: 512MB to 8GB DDR2 memory technologies
- Capacity: Up to 2GB per DIMM with maximum memory size up to 8GB

### ***PCI***

- PCI Express Slot Type: x16
  - PCI Express x16 Slot Quantity: 1
- PCI Express Slot Type: x1
  - PCI Express x1 Slot Quantity: 1
- PCI Slot Type: PCI 2.3 5V slots

- 
- PCI Slot Quantity: 2

### ***FDD***

- Slot Quantity: 1
- Design Criteria:
  - Should support 1.44MB/3 mode 3.5" Devices

### ***SATA***

- Slot Type: SATA slot
- Slot Quantity: 6
- Storage Type support:
  - HDD/CD-ROM/CD-RW/DVD-ROM/DVD-RW/DVD+RW/DVD  
Dual/DVD SuperMultiPlus/Blu-Ray ODD

### ***Audio***

- Audio Type: HD audio codec
- Audio Channel: 7.1 channel
- Audio Controller /Codec: ALC888S HD codec 7.1
- Connectors support:
  - Rear 6 jack follow HD audio definition, example as below
  - Audio jacks color coding: should meet Microsoft Windows Logo  
Program Device Requirements: Audio-0002
  - 1 S/PDIF-out header (1\*4)
  - 1 front panel audio header (2\*5)
  - Add HD de-pop CKT (the attachment is the reference, please propose  
your solution)
  - S/N ratio: 90 dB at rear output jack

### ***LAN***

- MAC Controller: (NV MCP7A)
- Should be worked under 10/100/1000Mbs environment



- 
- PHY: Realtek 8211CL Gigabit Ethernet Phy.

### **USB**

- Controller Type: (NV MCP7A)
- Ports Quantity: 10
  - 4 back panel ports
  - On-board: 3 2\*5 headers
    - 4 ports for front daughter board
    - 4 ports for rear I/O
    - 2 ports for internal card reader.
  - Connector Pin: standard Intel FPIO pin definition
- Data transfer rate support:
  - USB 2.0/1.1

### **1394**

- Controller: VIA 1394a controller
- Connector Quantity: 2
  - 1 rear 6pin IEEE1394 port
  - 1 2x5pin onboard jumper

### **BIOS**

- BIOS Type: Phoenix Award or AMI Kernel with Acer skin
- Size: 4Mb
- Note:
  - Boot ROM should be included (PXE function should be built in with default and RPL function is optional by service BIOS)
  - BIOS shall auto detect FDD to avoid checksum error when boot

### **I/O Connector**

- Controller: Super I/O ITE 8718/JX (F stepping or after; must full support Intel platform)

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## ***Rear I/O Connector***

- 1 PS/2 Keyboard port,
- 1 PS/2 Mouse port,
- 1 COM port
- 1 HDMI port (Aspire M3710 series only),
- 1 D-Sub port, (Aspire M3710 series only) 1 RJ45 LAN port,
- 1 IEEE 1394 port (6 pin) (Aspire sku only)
- 4 USB ports
- 7.1 channel phone jack (6 audio jacks)

## ***On-board connectors***

- 1 CPU socket
- 4 DDR-2 memory sockets
- 1 PCI Express x16 slot
- 1 PCI Express x 1 slot
- 2 PCI slots
- 1 FDD slot
- 6 SATA connectors
- 3 2\*5 pin Intel FPIO specification USB pin connectors (follow Intel FPIO standard Specification)
- 1 2\*5 pin IEEE1394 jumper (reserve header on all SKU)
- 1 2\*5 pin Intel FPIO spec. Microphone In/ Headphone Out pin connectors
- 1 serial port 2\*5 pin connector
- 1 1\*4 S/PDIF out header
- 1 4 pin CPU Fan connector
- 1 3 pin System FAN connector with linear circuit
- 1 24pin + 4pin ATX interface PS3/PS2 SPS connector

- 
- 1 2\*7 pin front panel IO header
  - 1 Jumper for clear CMOS
  - 1 on board buzzer
  - Color management for on board connector (pls provide proposal)
  - 1 2\*10 pin TPM module connector(Reserved)
  - 1 2\*4 pin internal speaker header(Reserved)
  - 1 2pin Intrusion Alarm connector(Reserved)
  - 1 2pin OBR header(Reserved)
  - 1 Parallel port connector(Reserved)
  - 2 2pin GPIO connector

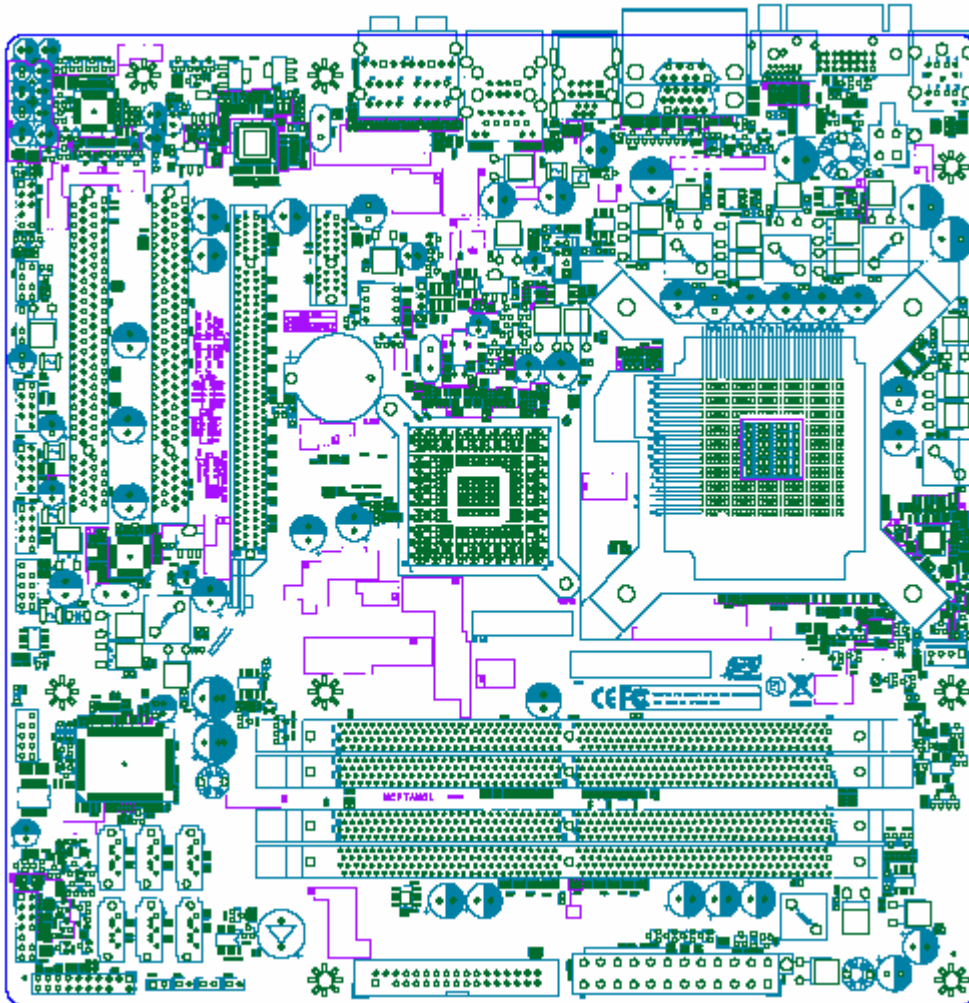
### ***Power Supply***

- Power Supply Mounting Features
  - Chassis accepts ATX-style power supply
  - Chasses accepts PS2, PS3 style power supply
  - Features for internal mounting tab
  - Location of 4 external mounting holes
- Power Supply Electrical Design Feature
  - 400W/300W/250W in stable mode (Acer Assign System Power Unit)
  - Design for NVidia MCP7A/B series chipset compatible system
  - Voltage design should be covered +5V, +3.3V, +12V, +5VSB, -12V  
(attention to 12V output capability)
  - Demand for both PFC/Non-PFC solutions (two different quotations are needed)
  - Minimum 4 Serial ATA power connector solution should be included  
(by default)
  - Minimum 3 big 4-pin power connector included
  - Minimum 1 small 4-pin power connector included

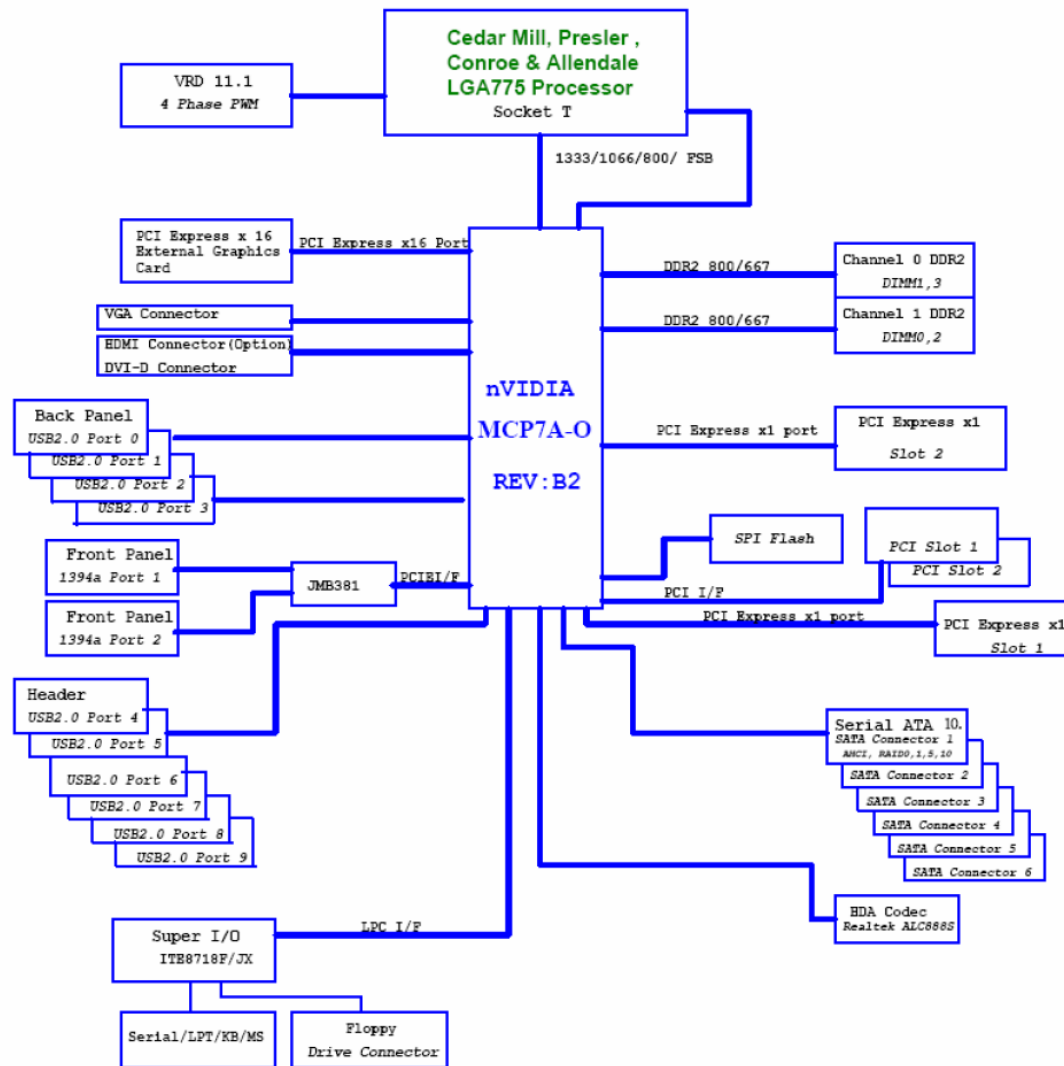
- 
- PFC version will not provide switch selector for 115/230V AC input but it should be universal for Europe and China
  - Non-PFC version should provide switch selector for 115/230V AC input and universal for worldwide
  - PS2 style

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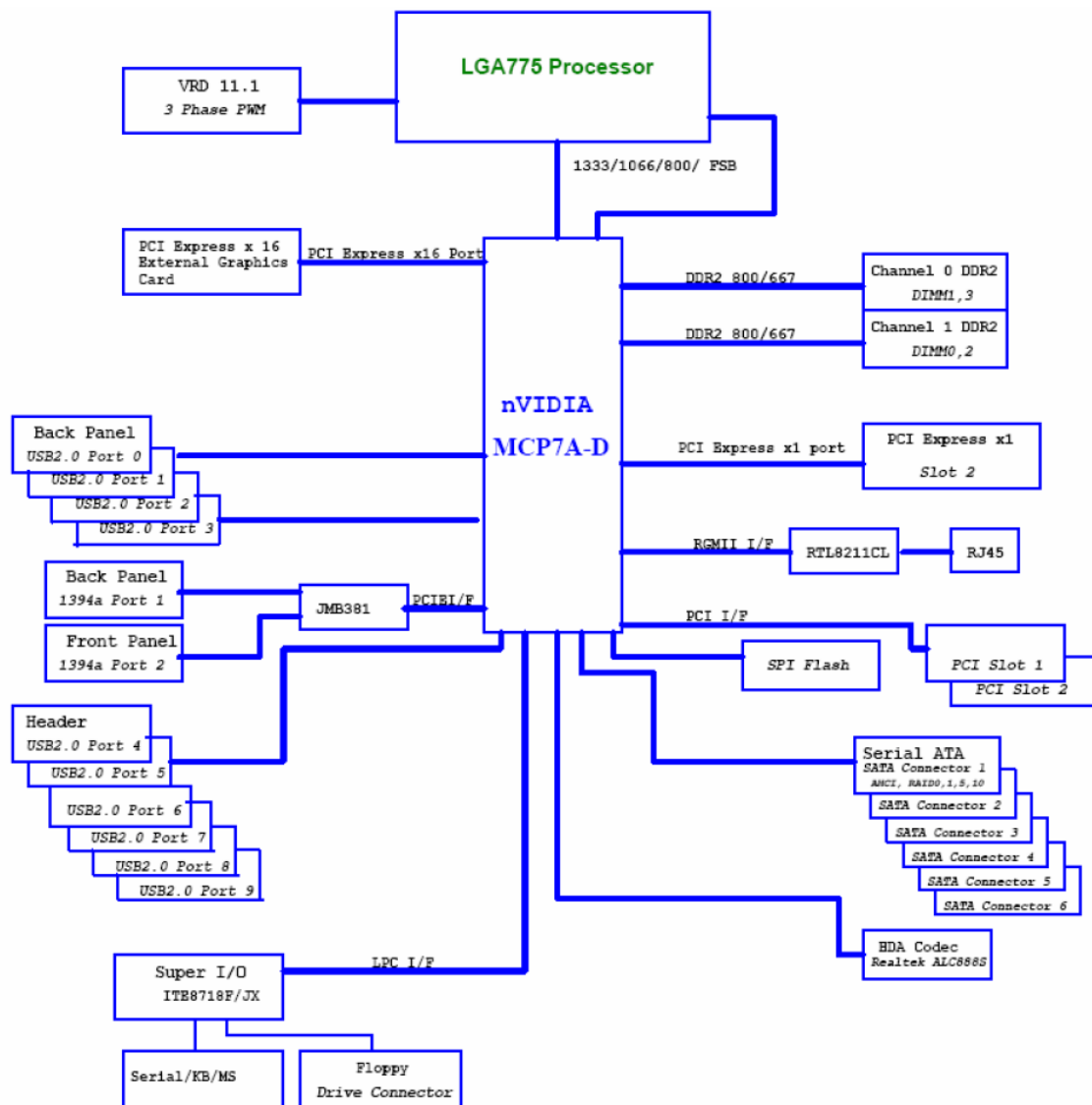
# *Main board Placement*



# Block Diagram 1



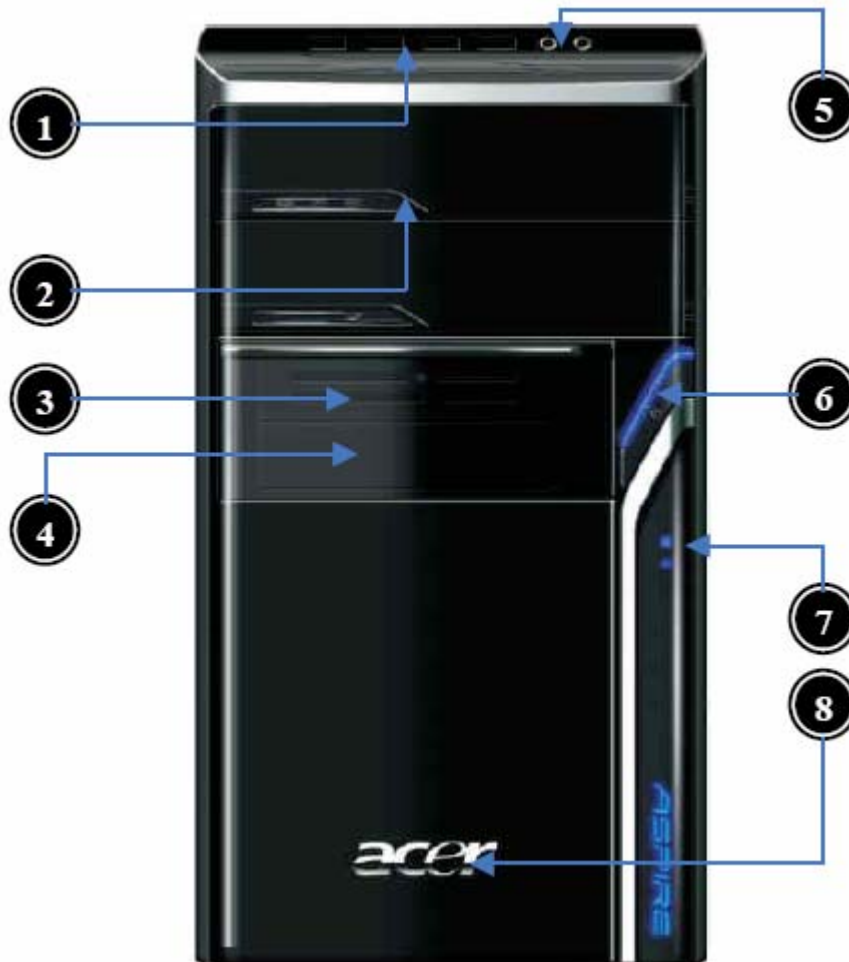
## Block Diagram 2



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## ***Aspire M3710 Front Panel***

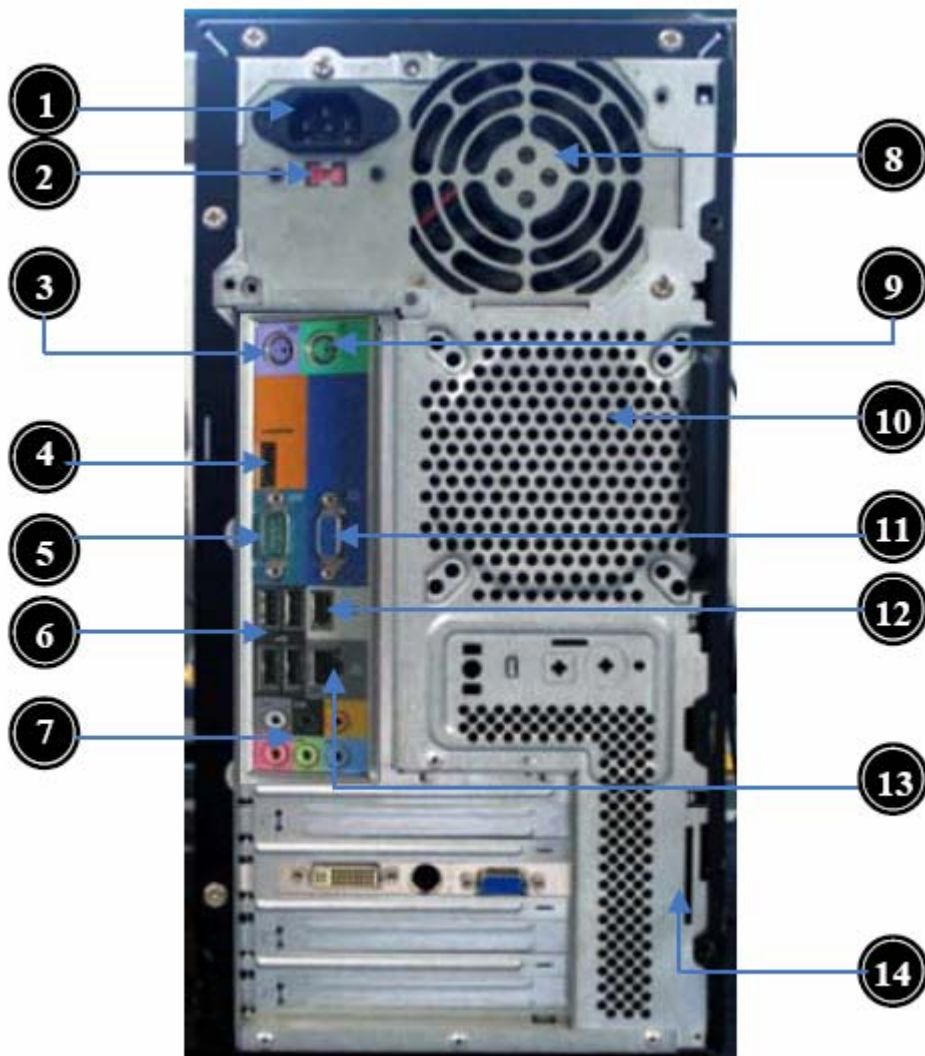
The computer's front panel consists of the following:



<b>Label</b>	<b>Description</b>
1	USB ports
2	Optical drive
3	Card reader
4	FDD Cover
5	Speaker/Microphone jack
6	Power button
7	Power and HDD LED
8	Acer Logo



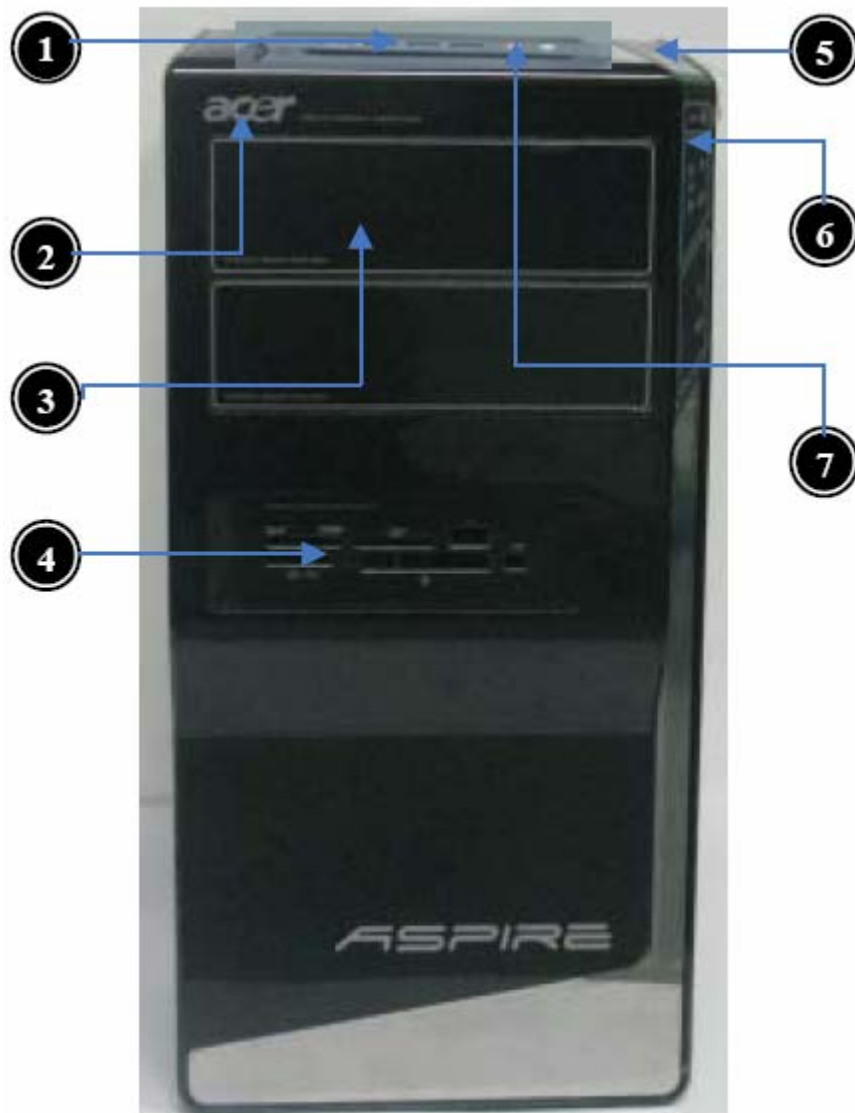
## Aspire M3710 Rear Panel



Label	Description	Label	Description
1	Power card socket	8	Fan aperture
2	Voltage selector switch	9	PS/2 mouse connector
3	PS/2 keyboard connector	10	System Fan
4	HDMI connector	11	Monitor connector
5	Com port	12	1394 connector
6	USB 2.0 connector	13	LAN connector
7	Audio connector	14	Lock Handle

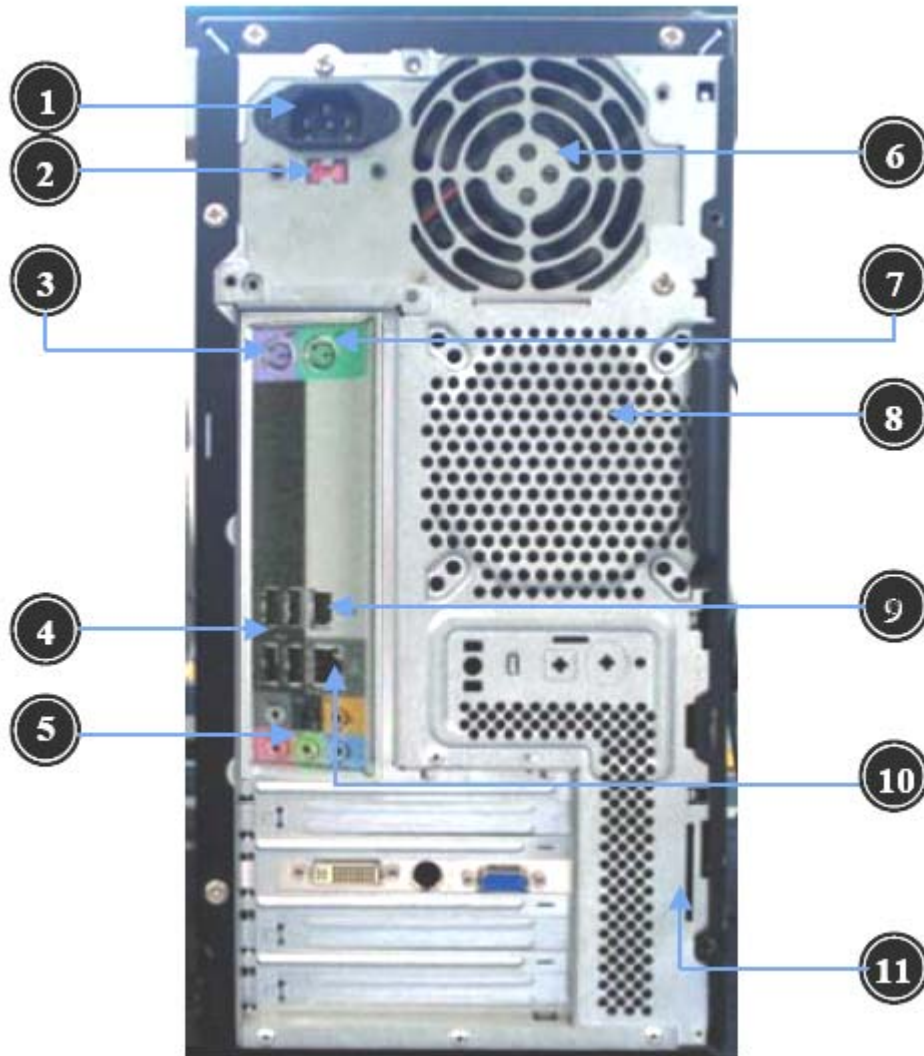
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## *Aspire M5711 Front Panel*



<b>Label</b>	<b>Description</b>
1	USB ports
2	Floppy disk drive Acer Logo
3	Optical drive
4	Card reader
5	Power button
6	LED module
7	Speaker/ Microphone jack

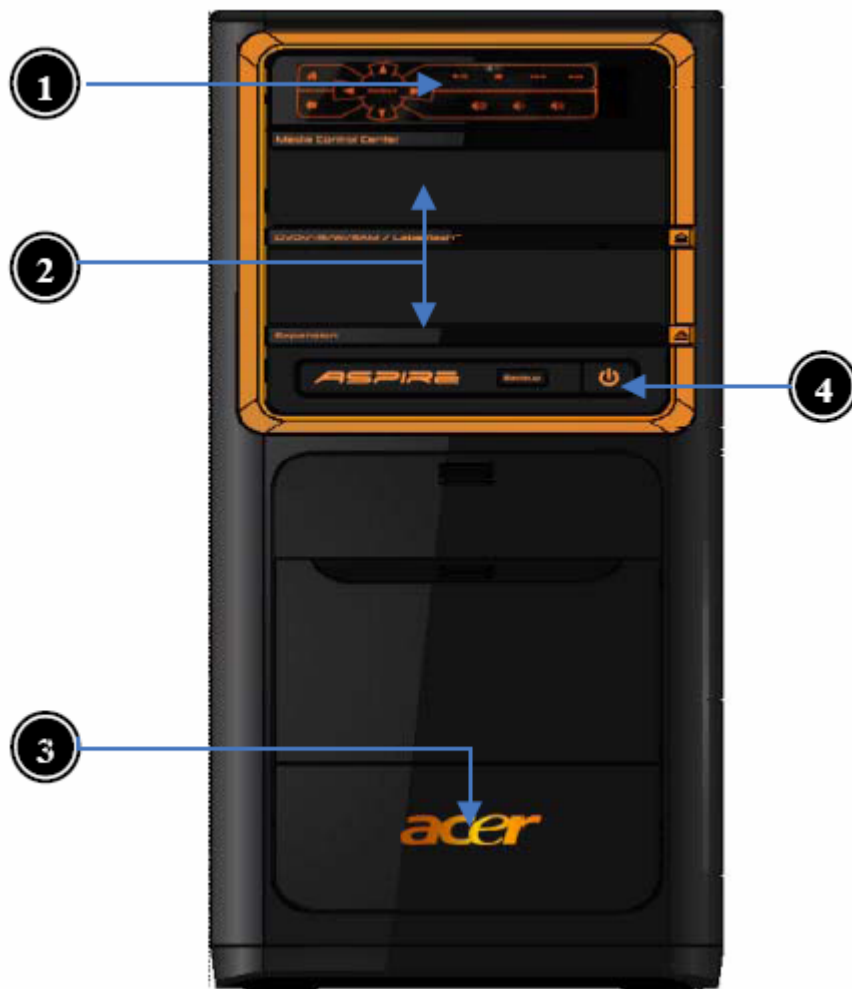
## Aspire M5711 Rear Panel



Label	Description	Label	Description
1	Power card socket	8	System Fan
2	Voltage selector switch	9	1394 connector
3	PS/2 keyboard connector	10	LAN connector
4	USB connector	11	Lock Handle
5	Audio connector		
6	Fan aperture		
7	PS/2 mouse connector		

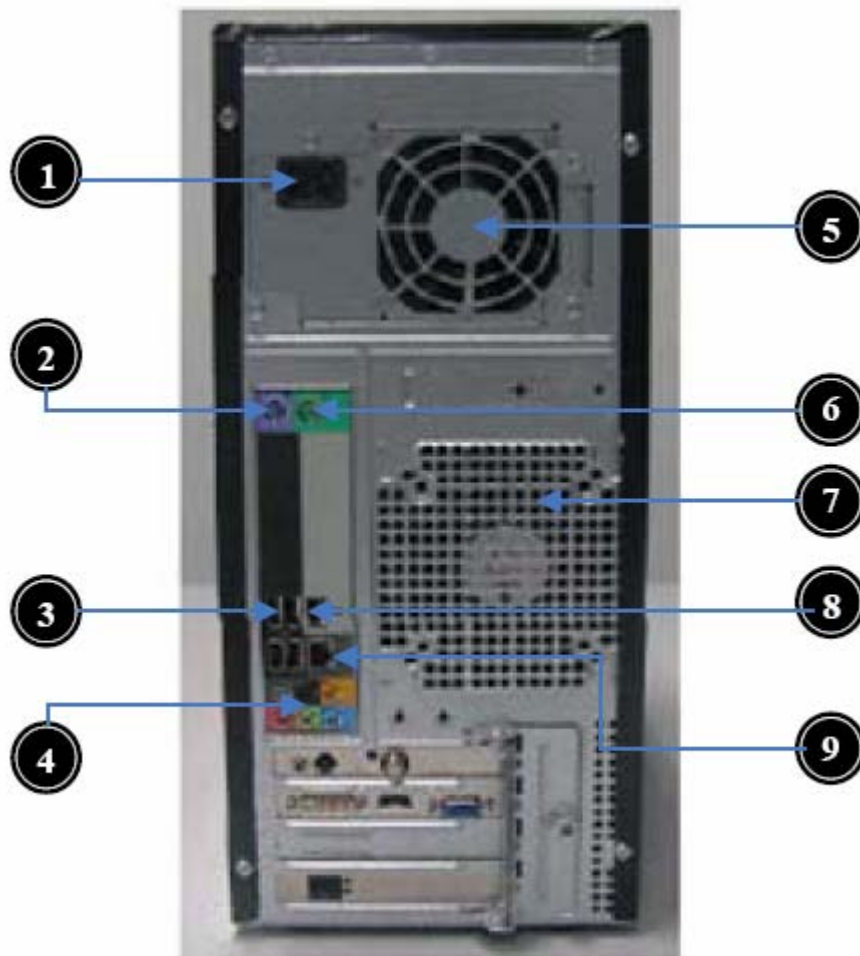
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## *Aspire M7711 Front Panel*



Label	Description
1	Media Control Interface
2	Optical drive
3	Acer Logo
4	Power button

## Aspire M7711 Rear Panel



Label	Description	Label	Description
1	Power card socket	6	PS/2 mouse connector
2	PS/2 keyboard connector	7	System Fan
3	USB 2.0 connector	8	1394 connector
4	Audio connector	9	LAN connector
5	Fan aperture	10	

---

# ***Hardware Specifications and Configurations***

## ***Processor***

<b>Item</b>	<b>Specification</b>
Type	Intel Pentium Dual Core / Core 2 Duo / Core2 Quad (up to 95W CPUs FSB 1066/1333 MHz CPUs)
Socket	LGA 775 pin
FSB	1066/1333 MHz CPUs
Minimum operating speed	0 MHz (If Stop CPU Clock in Sleep State in BIOS Setup is set to Enabled.)

## ***BIOS***

<b>Item</b>	<b>Specification</b>
BIOS code programmer	Phoenix Award or AMI Kernel with Acer skin
BIOS version	V6.0
BIOS ROM type	SPI Flash
BIOS ROM size	4Mb
Support protocol	SMBIOS (DMI) 2.4/DMI 2.0 (log file)
Device Boot Support	<ul style="list-style-type: none"><li>- 1st priority: SATA HDD</li><li>- 2nd priority: CD-ROM</li><li>- 3rd priority: FDD</li><li>- 4th priority: LAN</li><li>- 5th priority: USB device</li></ul>
Support to LS-120 drive	YES
Support to BIOS boot block feature	YES

## ***BIOS Hotkey List***

<b>Hotkey</b>	<b>Function</b>	<b>Description</b>
Del	Enter BIOS Setup Utility	Press while the system is booting to enter BIOS Setup Utility.

---

## ***Main Board Major Chips***

<b>Item</b>	<b>Specification</b>
North Bridge	NV MCP73PV/S & NV MCP73VE
South Bridge	NV MCP73PV/S & NV MCP73VE
APG controller	NV MCP73PV/S & NV MCP73VE
Super I/O controller	ITE 8718FX
Audio controller	Realtek HD audio codec ALC888S HD codec 7.1 (co-lay with ALC888)
LAN controller	Realtek 8211BL Gigabit Ethernet Phy.
HDD controller	NV MCP7A-O/ MCP7A-D
Keyboard controller	ITE 8718FX

## ***Memory Combinations***

<b>Slot</b>	<b>Memory</b>	<b>Total Memory</b>
Slot 1	512MB, 1GB, 2GB	512MB~2GB
Slot 2	512MB, 1GB, 2GB	512MB~2GB
Maximum System Memory Supported		512MB~8GB

## ***System Memory***

<b>Item</b>	<b>Specification</b>
Memory slot number	4 slot
Support Memory size per socket	512MB/1GB/2GB
Support memory type	DDR2
Support memory interface	DDR2 800MHz
Support memory voltage	1.8V
Support memory module package	240-pin DDR2
Support to parity check feature	Yes
Support to error correction code (ECC) feature	No
Memory module combinations	You can install memory modules in any combination as long as they match the above specifications.

---

## ***Audio Interface***

<b>Item</b>	<b>Specification</b>
Audio controller	NV MCP7A-O/ MCP7A-D
Audio controller type	ALC888S
Audio channel	codec 7.1
Audio function control	Enable/disable by BIOS Setup
Mono or stereo	Stereo
Compatibility	Sound Blaster Pro/16 compatible Mixed digital and analog high performance chip Enhanced stereo full duplex operation High performance audio accelerator and AC'97 support Full native DOS games compatibility Virtual FM enhances audio experience through real-time FM-to-Wavetable conversionMPU-401 (UART mode) interface for Wavetable synthesizers and MIDI devices Integrated dual game port Meets AC'97and WHQL specifications
Music synthesizer	Yes, internal FM synthesizer
Sampling rate	48 KHz (max.)
MPU-401 UART support	Yes
Microphone jack	Supported
Headphone jack	Supported

## ***SATA Interface***

<b>Item</b>	<b>Specification</b>
SATA controller	NV MCP7A-O/ MCP7A-D
SATA controller resident bus	PCI bus
Number of SATA channel	SATA X 6
Support bootable CD-ROM	YES



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## ***Floppy disk drive Interface***

<b>Item</b>	<b>Specification</b>
Floppy disk drive controller	ITE 8718F/JX
Floppy disk drive controller resident bus	ISA bus
Support FDD format	360KB, 720KB, 1.2MB, 1.44MB, 2.88MB

## ***Parallel Port***

<b>Item</b>	<b>Specification</b>
Parallel port controller	ITE 8718F/JX
Parallel port controller resident bus	ISA bus
Number of parallel parts	1
Support ECP/EPP	SPP / Bi-directional / ECP / EPP
Connector type	25-pin D-type female connector
Parallel port function control	Enable/disable by BIOS Setup
Optional EV+CP DMA channel (in BIOS setup)	DMA channel 1 DMA channel 3
Optional parallel port I/O address (via BIOS setup)	378h 278h
Optional parallel port IRQ (via BIOS setup)	IRQ5 IRQ7

## ***USB Port***

<b>Item</b>	<b>Specification</b>
Universal HCI	USB 2.0/1.1
USB Class	Support legacy keyboard for legacy mode
USB Connectors Quantity	4 ports for front daughter board 4 ports for rear I/O 2 ports for internal card reader.

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## ***Environmental Requirements***

<b>Item</b>	<b>Specification</b>
<b>Temperature</b>	
Operating	+5°C ~ +35°C
Non-operating	-20 ~ +60°C (Storage package)
<b>Humidity</b>	
Operating	15% to 80% RH
Non-operating	10% to 90% RH
<b>Vibration</b>	
Operating (unpacked)	5 ~ 500 Hz: 2.20g RMS random, 10 minutes per axis in all 3 axes 5 ~500 Hz: 1.09g RMS random, 1 hour per axis in all 3 axes

## ***Power Management***

<b>Devices</b>	<b>S1</b>	<b>S3</b>	<b>S4</b>	<b>S5</b>
Power Button	V	V	V	V
USB Keyboard/Mouse	V	V	N/A	N/A
PME	Disabled	Disabled	Disabled	Disabled
RCT	Disabled	Disabled	Disabled	Disabled
WOR	Disabled	Disabled	Disabled	Disabled

- Devices wake up from S3 should be less than
- Devices wake up from S5 should be less than 10 seconds

---

## ***Power Management Function (ACPI support function)***

### ***Device Standby Mode***

- Independent power management timer for hard disk drive devices (0-15 minutes, time step=1 minute).
- Hard disk drive goes into Standby mode (for ATA standard interface).
- Disable V-sync to control the VESA DPMS monitor.
- Resume method: device activated (Keyboard for DOS, keyboard & mouse for Windows).
- Resume recovery time: 3-5 sec.

### ***Global Standby Mode***

- Global power management timer (2-120 minutes, time step=10 minute).
- Hard disk drive goes into Standby mode (for ATA standard interface).
- Disable H-sync and V-sync signals to control the VESA DPMS monitor.
- Resume method: Return to original state by pushing external switch button, modem ring in, keyboard and mouse for APM mode.
- Resume recovery time: 7-10 sec.

### ***Suspend Mode***

- Independent power management timer (2-120 minutes, time step=10 minutes) or pushing external switch button.
- CPU goes into SMM.
- CPU asserts STPCLK# and goes into the Stop Grant State.
- LED on the panel turns amber colour.
- Hard disk drive goes into SLEEP mode (for ATA standard interface).
- Disable H-sync and V-sync signals to control the VESA DPMS monitor.
- Ultra I/O and VGA chip go into power saving mode.
- Resume method: Return to original state by pushing external switch button, modem ring in, keyboard and mouse for APM mode.
- Return to original state by pushing external switch button, modem ring in and USB keyboard for ACPI mode.

### ***ACPI***

- ACPI specification 1.0b.
- S0, S1, S3 and S5 sleep state support.
- On board device power management support.
- On board device configuration support.

---

## ***System Utilities***

**The manufacturer or the dealer already configures most systems. There is no need to run Setup when starting the computer unless you get a Run Setup message.**

The Setup program loads configuration values into the battery-backed nonvolatile memory called CMOS RAM.

This memory area is not part of the system RAM.

**NOTE:** If you repeatedly receive Run Setup messages, the battery may be bad/flat. In this case, the system cannot retain configuration values in CMOS.

Before you run Setup, make sure that you have saved all open files. The system reboots immediately after you exit Setup.

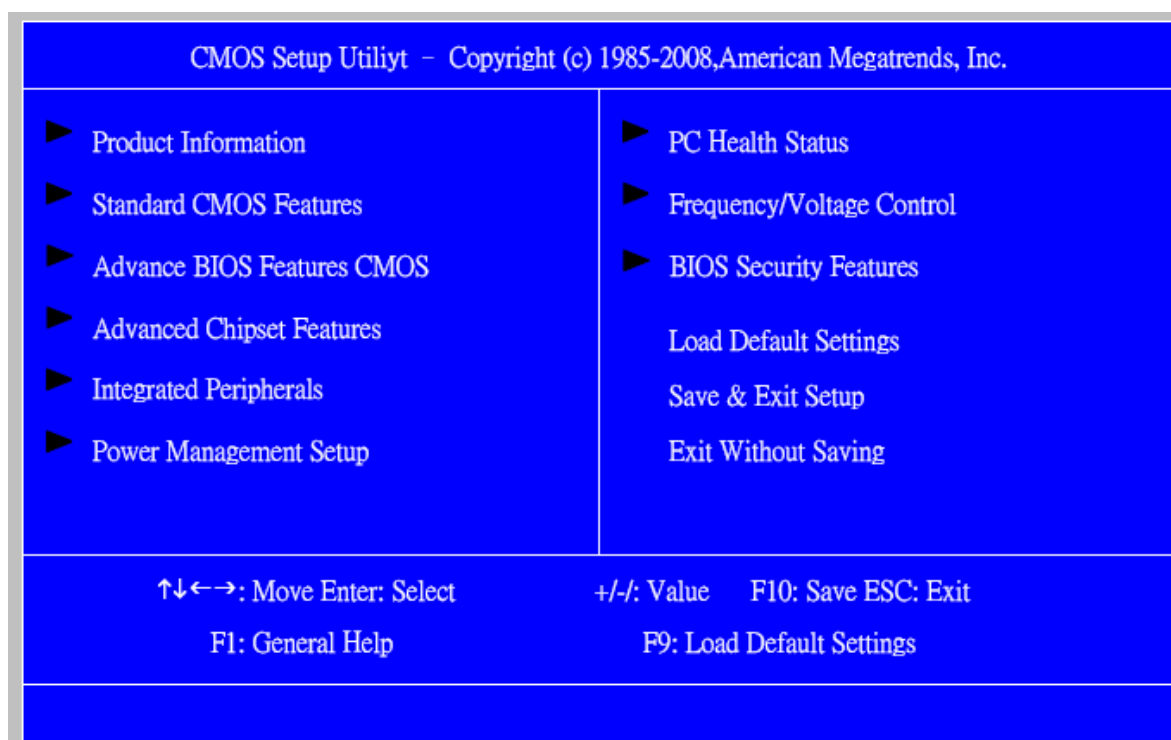
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## ***Entering Setup***

Power on the computer and the system will start POST (Power On Self Test) process. When the message of "Press DEL to enter SETUP" appears on the screen, press the key of [Delete] to enter the setup menu.

**NOTE:** If the message disappears before you respond and you still wish to enter Setup, restart the system by turning it OFF and On. You may also restart the system by simultaneously pressing [Ctrl+ Alt+ Delete].

The Setup Utility main menu then appears:



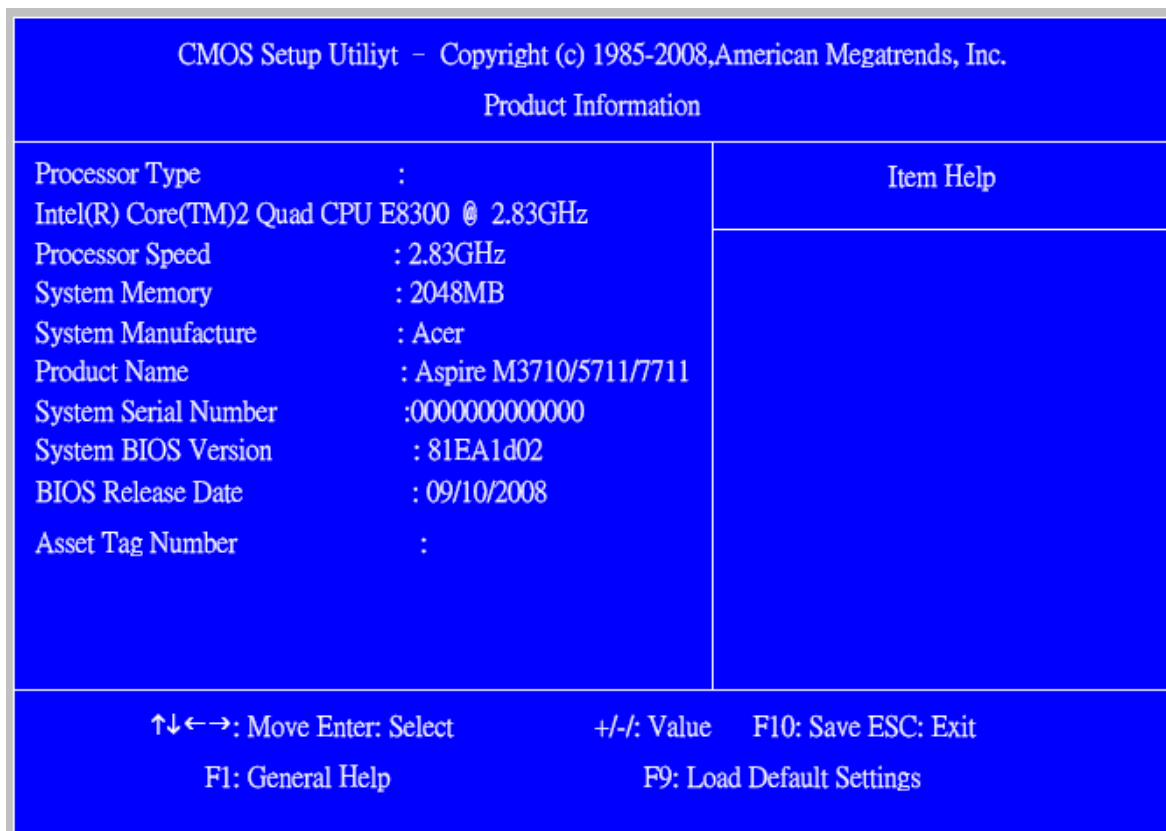
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The items in the main menu are explained below:

<b>Parameter</b>	<b>Description</b>
Production Information	This page shows the relevant information of the main board
Standard CMOS Features	This setup page includes all the items in standard compatible BIOS
Advance BIOS Features	This setup page includes all the items of Award special enhanced features
Advance Chipset Features	This setup page includes all advanced chipset features
Integrated Peripherals	This setup page includes all onboard peripherals
Power Management Setup	This setup page includes all the items of Green function features
PC Health Status	This setup page is the System auto detect Temperature, voltage, and fan speed
Frequency/Voltage Control	This setup page is the System Frequency/Voltage setup
BIOS Security Features	Change, set or disable password. It allows you to limit access to the System
Load Optimized Defaults	Load Optimized Settings Default Settings indicates the value of the system parameters which the system would be in best performance configuration
Save & Exit Setup	Save CMOS value settings to CMOS and exit setup
Exit Without Saving	Abandon all CMOS value changes and exit setup

## Product Information

The screen below appears if you select Product Information from the main menu: The Product Information menu contains general data about the system, such as the product name, serial number, BIOS version, etc. This information is necessary for troubleshooting (maybe required when asking for technical support).

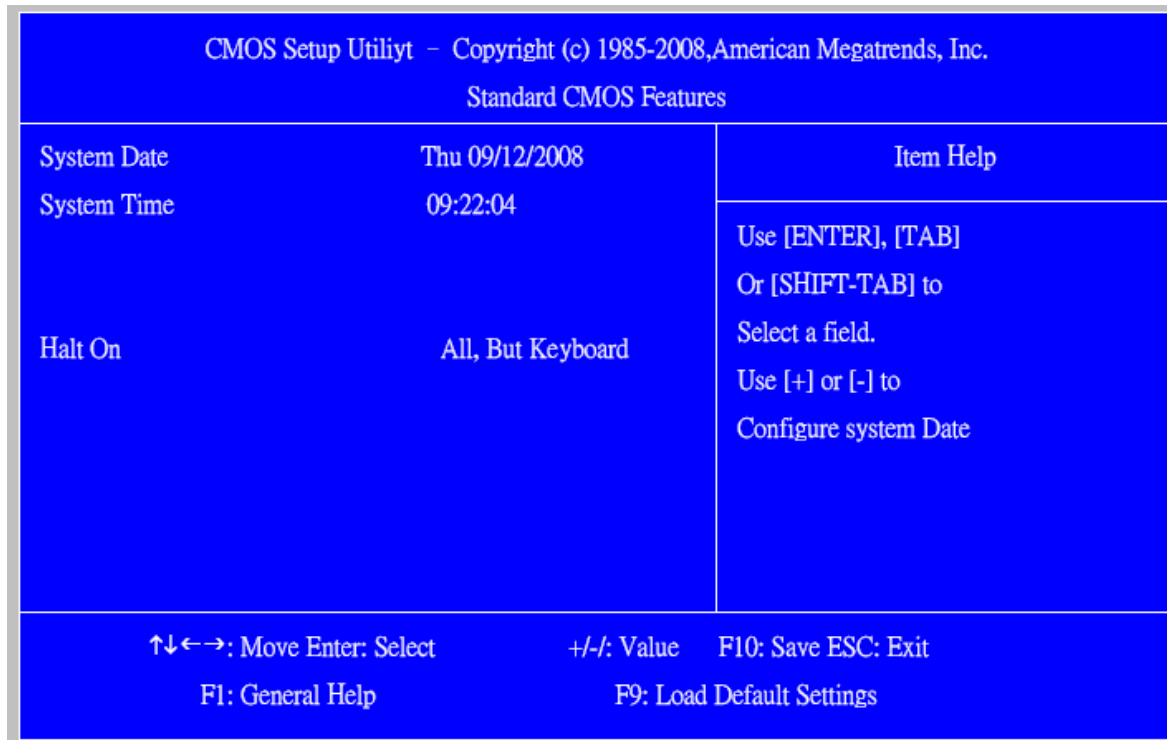


The following table describes the parameters found in this menu:

Parameter	Description
Processor Type	This item lists the product processor model
Processor Speed	This item lists the processor frequency for the system
System Memory	Total memory size for the system
Product Name	This item lists the product name
System Serial Number	This item lists the system serial number
System BIOS Version	This item lists the system BIOS version
BIOS Release Date	This item lists the BIOS release date

## Standard CMOS Setup

Select standard CMOS features from the main menu to configure some basic parameters in your system the following screen shows the standard CMOS features menu:



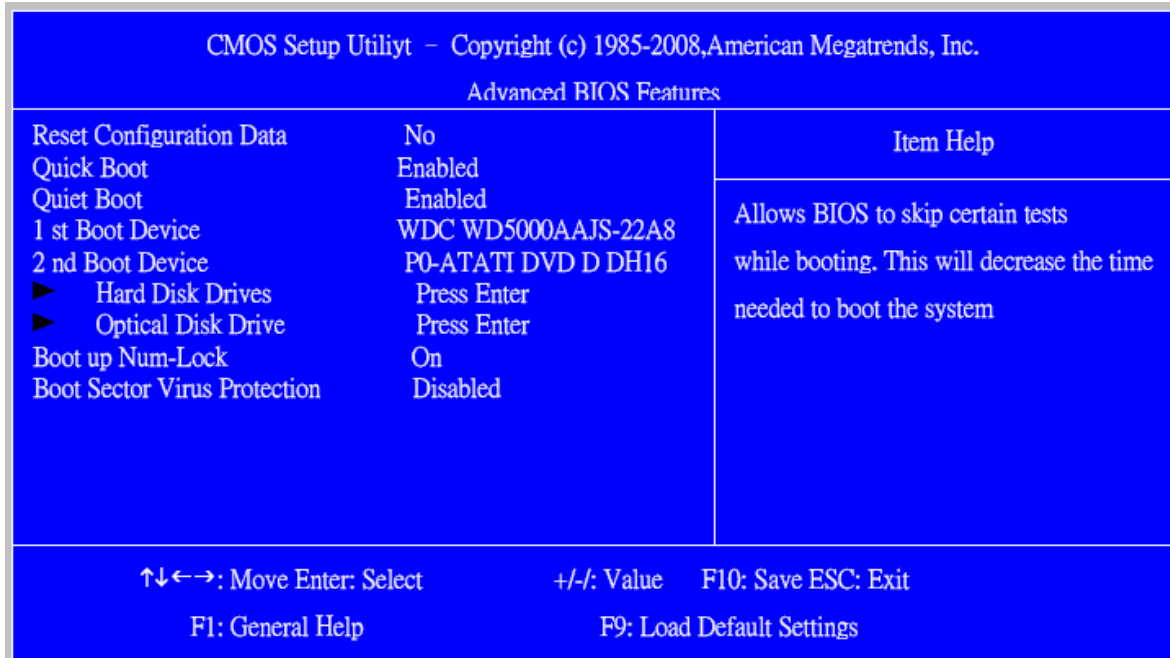
The following table describes the parameters found in this menu.

Parameter	Description	Options
System Date	To set the date following the weekday-month-date-year format	Week: From [Sun.] to [Sat.], determined by BIOS and is display only Day: from [1] to [31] (or the maximum allowed in the month). Year: from 1999 to 2099
System Time	To set the time following the hour-minute-second format	The items format is [hour] [minute][second]. The time is calculated base on the 24-hour timer clock.
Halt On	This item enables use to select the situation if the BIOS stops the POST process and the notification	All Errors No Errors All, But Keyboard All, But Diskette All, But Disk/Key



# Advanced Setup

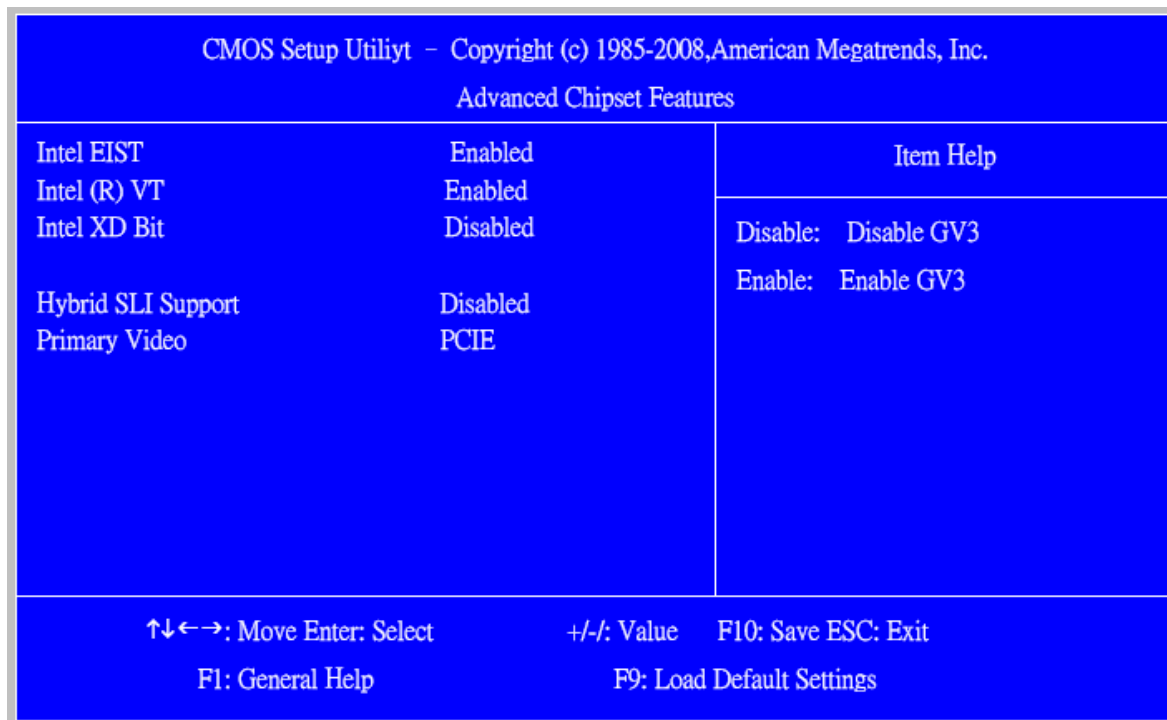
The following screen shows the Advanced Setup:



The following table describes the parameters found in this menu.

Parameter	Description	Options
Quick Boot	Allows BIOS to skip certain tests while booting. This will decrease the time needed to boot the system	[Enabled], [Disabled]
1 st Boot Device	The item allows you to see the sequence of boot device where BIOS attempts to load the disk operation system.	
2 nd Boot Device		
Hard Disk Drives	Specifies the boot device. Priority sequence from available Hard Drives	
Optical Disk Drive		
Boot up Num-Lock On	Select Power-on state for Numlock	On,Off
Boot Sector Virus Protection	This feature allows you to enable the VIRUS warning function for Hard Disk boot sector protection. If this function is enabled and there is someone attempt to write data to this area, BIOS will show a warning message on screen and the alarm will beep.	[Enabled], [Disabled]

## Advanced Chipset Setup



The following table describes the parameters found in this menu.

Parameter	Description	Options
Intel EIST	For Intel platform	Disabled/Enabled
Intel(R) VT	For Intel platform	
Intel XD Bit	For Intel platform	Disabled/Enabled
Primary Video	Priority for Auto : PCIE -> Onboard -> PCI	Auto/PCIE/Onboard/PCI

# Integrated Peripherals

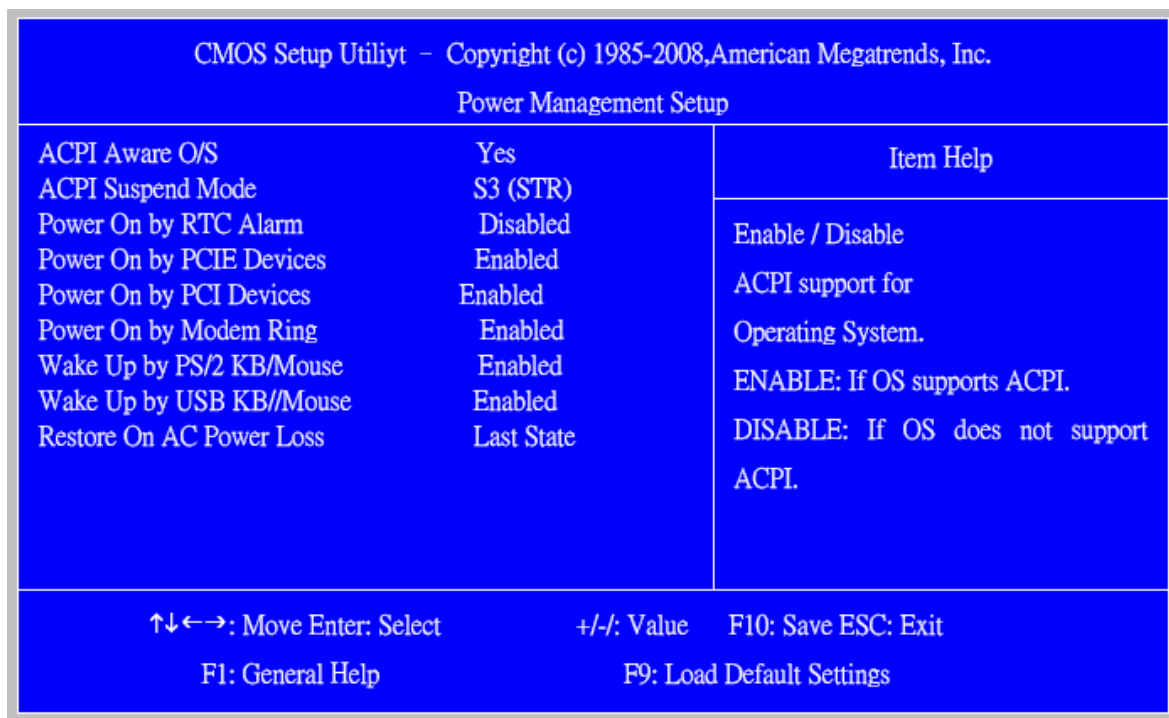
CMOS Setup Utility - Copyright (c) 1985-2008, American Megatrends, Inc.		
Integrated Peripherals		
Onboard SATA Controller	Enabled	Item Help
Onboard SATA Mode	RAID	
Onboard USB Controller	Enabled	Options
Legacy USB Support	Enabled	
Onboard Audio Controller	Enabled	Native IDE
Onboard LAN Controller	Enabled	RAID
Onboard LAN Option ROM	Enabled	AHCI
Onboard 1394 Controller	Enabled	
Onboard Floppy Controller	Enabled	
Serial Port1 Address	3F8/IRQ4	
Serial Port2 Address	2F8/IRQ3	
Serial Port2 Mode	Normal	
↑↓←→: Move Enter: Select      +/-: Value      F10: Save ESC: Exit F1: General Help                      F9: Load Default Settings		

The following table describes the parameters found in this menu.

<b>Parameter</b>	<b>Description</b>	<b>Options</b>
Onboard SATA Mode	This item is only available when onboard SATA controller is enabled	Native IDE/RAID/AHCI
Onboard USB Controller	Always enabled USB keyboard during POST no matter what option is set	Disabled/Enabled
Legacy USB Support	This item is only available when onboard USB controller is enabled	Disabled/Enabled
Onboard Audio Controller	Always enabled Audio POST no matter what option is set	Disabled/Enabled
Onboard LAN Controller	Always enabled Audio POST no matter what option is set	Disabled/Enabled
Onboard LAN Option ROM	This item is only available when onboard LAN controller is enabled	Disabled/Enabled
Onboard 1394 Controller	Always enabled 1394 POST no matter what option is set	Disabled/Enabled
Onboard Floppy Controller	Always enabled FDD POST no matter what option is set	Disabled/Enabled
Serial Port1 Address	Allows BIOS to select serial port1 base addresses	Disabled / 3F8/IRQ4 / 2F8/IRQ3 / 3E8/IRQ4 / 2E8/IRQ3
Serial Port2 Address	Allows BIOS to select serial port1 base addresses	Disabled / 3F8/IRQ4 / 2F8/IRQ3 / 3E8/IRQ4 / 2E8/IRQ3
Serial Port2 Mode	Allows BIOS to select serial port1 base Mode	Normal/IrDA/ASK IR

# Power Management

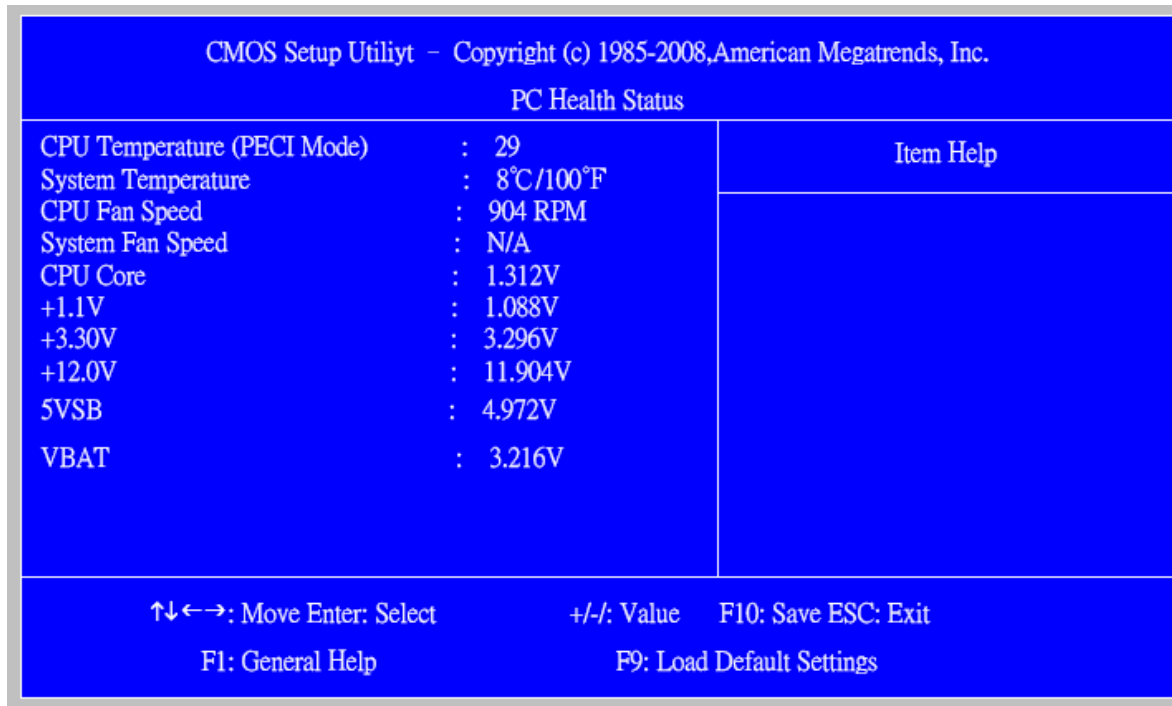
The Power Management menu lets you configure your system to most effectively save energy while operating in a manner consistent with your own style of computer use. The following screen shows the Power Management parameters and their default settings:



The following table describes the parameters found in this menu.

Parameter	Description	Options
ACPI Aware O/S	Control wake up event for	No/Yes
ACPI Suspend Mode		S1(S3)/S3 (STR)
Power On by RTC Alarm		Disabled/Enabled
Power On by PCIE Devices		Disabled/Enabled
Power On by PCI Devices		Disabled/Enabled
Power On by Modem Ring		Disabled/Enabled
Wake Up by PS/2 KB/Mouse	Control wake up event for	Disabled/Enabled
Wake Up by USB KB//Mouse		S1/S3 Disabled/Enabled

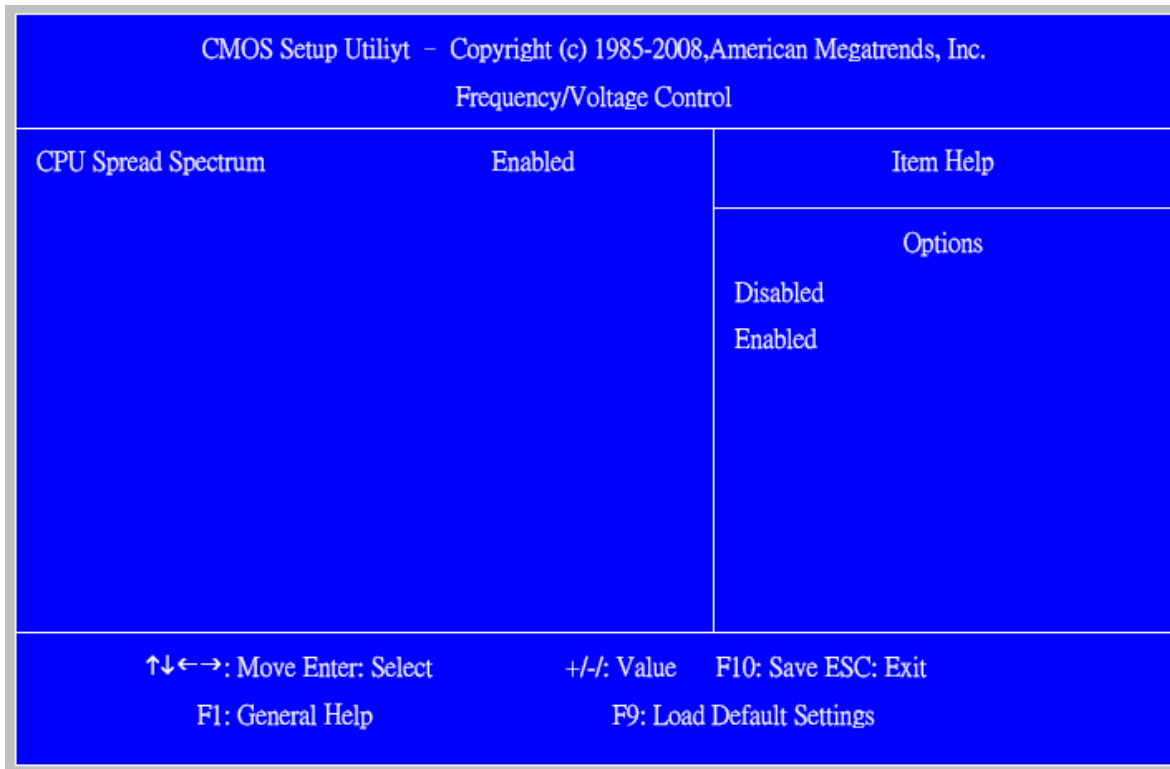
## PC Health Status



The following table describes the parameters found in this menu:

Parameter	Description	Options
Vcore	Detect system's voltage status automatically	
CPU Temperature	Detect CPU Temperature automatically	
CPU/SYSTEM FAN Speed (RPM)	Detect CPU/SYSTEM Fan Speed Status automatically	
CPU Smart FAN Control	The item displays the system Smart Fan Function status. It is always enabled by system.	

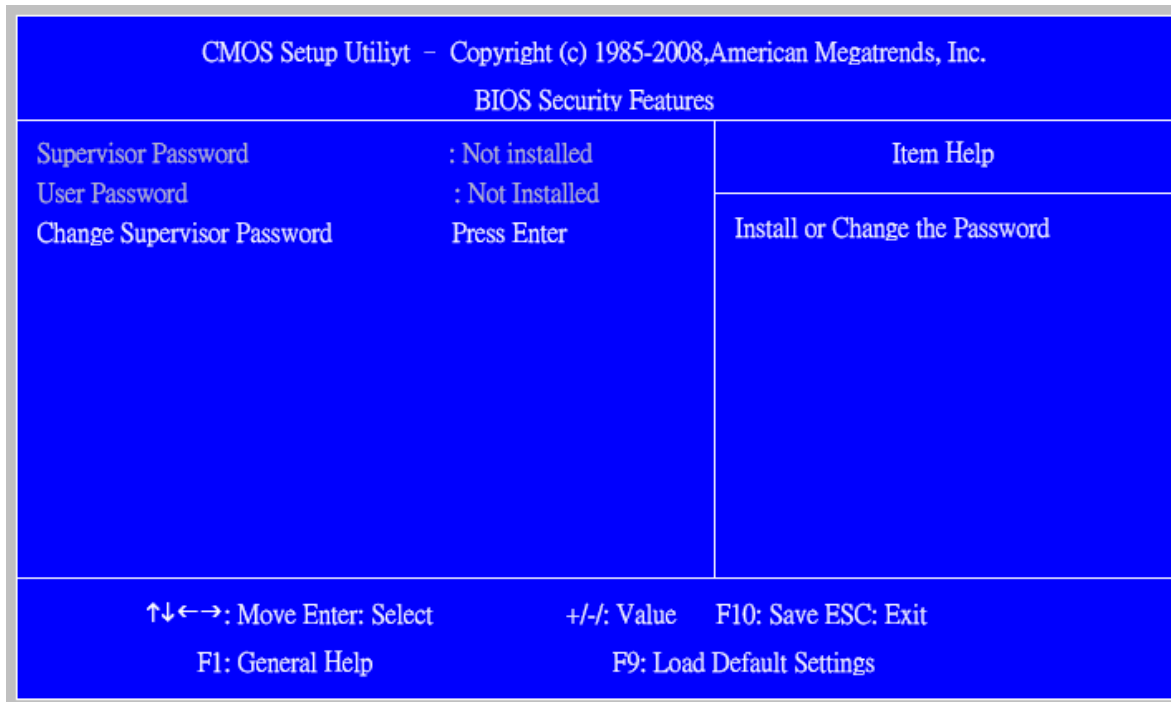
# Frequency/Voltage Control



The following table describes the parameters found in this menu:

Parameter	Description	Options
CPU Spread Spectrum	<b>Always auto detect Spread Spectrum</b>	Disabled/Enabled

## BIOS Security Features



The following table describes the parameters found in this menu:

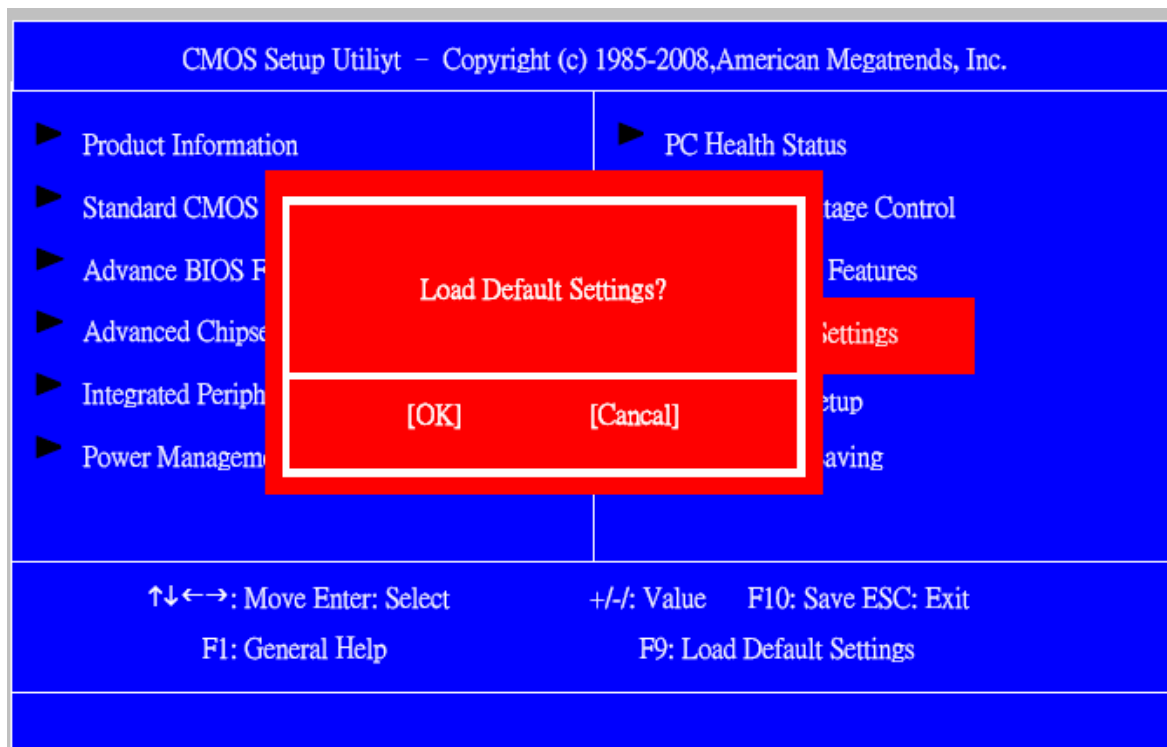
Parameter	Description	Options
Change Supervisor Password	This item is only available when supervisor password is installed, If clear supervisor password, user password should also be cleared. All setup items will be view-only except user password item when login with user password	Press Enter



---

## Load Default Settings

This option opens a dialog box that lets you install defaults for all appropriate items in the Setup Utility.



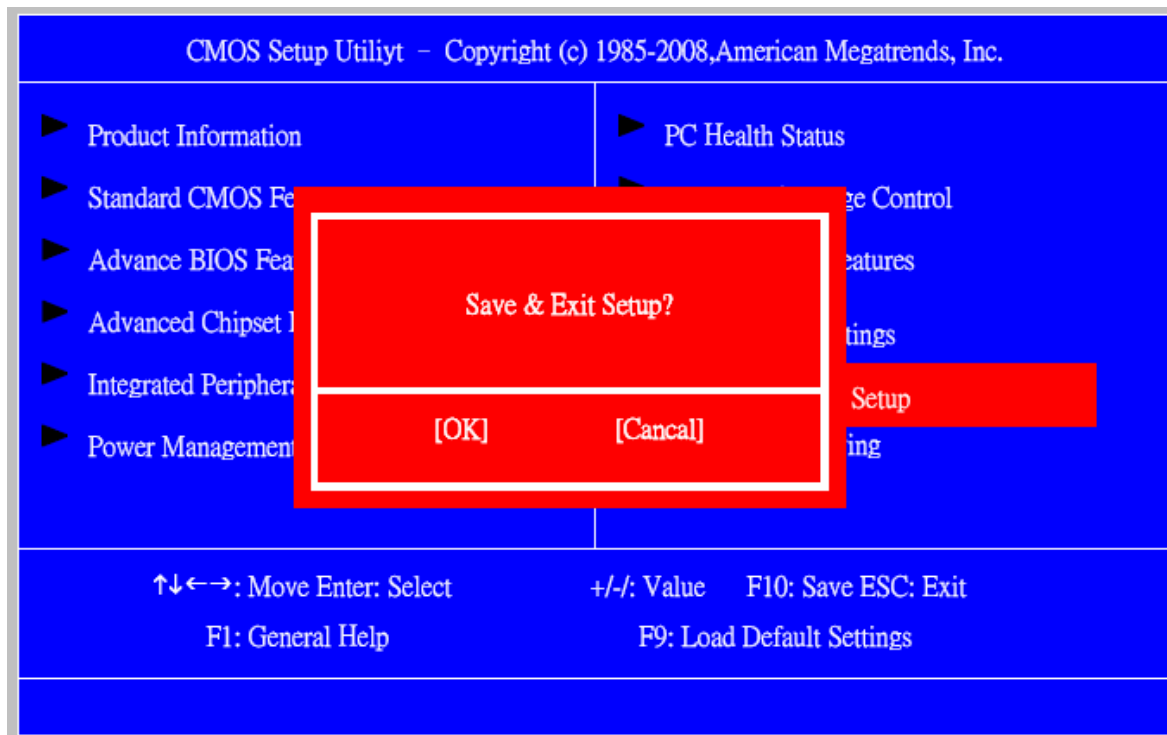
The following table describes the parameters found in this menu:

Parameter	Description	Options
Load Default Settings	Select the field loads the factory defaults for BIOS and Chipset Features, which the system automatically detects. This option opens a dialog box that lets you install optimized defaults for all appropriate items in the Setup Utility.	

---

## Save & Exit Setup

Highlight this item and press <Enter> to save the changes that you have made in the Setup Utility and exit the Setup Utility.



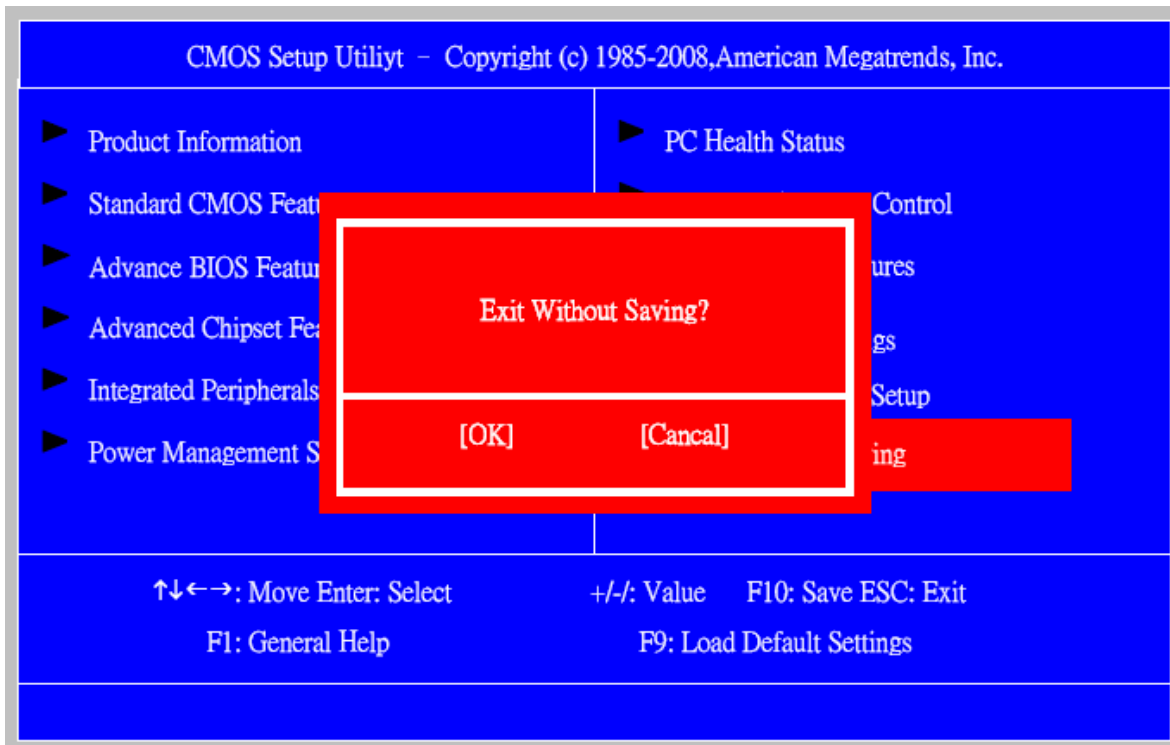
The following table describes the parameters found in this menu:

Parameter	Description	Options
Save & Exit Setup	Press <Enter> to save the changes that have made in the Setup Utility and exit the Setup Utility. Press<Y> to save and Exit or <N> to return to the main menu.	

---

## ***Exit Without Saving***

Highlight this item and press <Enter> to discard any changes that you have made in the Setup Utility and exit the Setup Utility.



<b>Parameter</b>	<b>Description</b>	<b>Options</b>
Exit Without Saving	Press<Enter> to discard any changes and exit the Setup Utility	

---

## *Machine Disassembly and Replacement*

To disassemble the computer, you need the following tools:

Wrist grounding strap and conductive mat for preventing electrostatic discharge.

Wire cutter.

Phillips screwdriver (may require different size).

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

---

## ***General Information***

### ***Before You Begin***

Before proceeding with the disassembly procedure, make sure that you do the following:

1. Turn off the power to the system and all peripherals.
2. Unplug the AC adapter and all power and signal cables from the system

---

## ***Disassembly Procedure***

This section tells you how to disassemble the system when you need to perform system service. Please also refer to the disassembly video, if available.

**CAUTION:** Before you proceed, make sure you have turned off the system and all peripherals connected to it.

# Aspire M3710/5711/7711 Standard Disassembly Process

## Bezel Label

### Process:

1. According to the requirement, paste ATI, OS, CPU, HDMI and marketing label by SKU.

## Aspire M3710



## Aspire M5711



# Aspire M1640



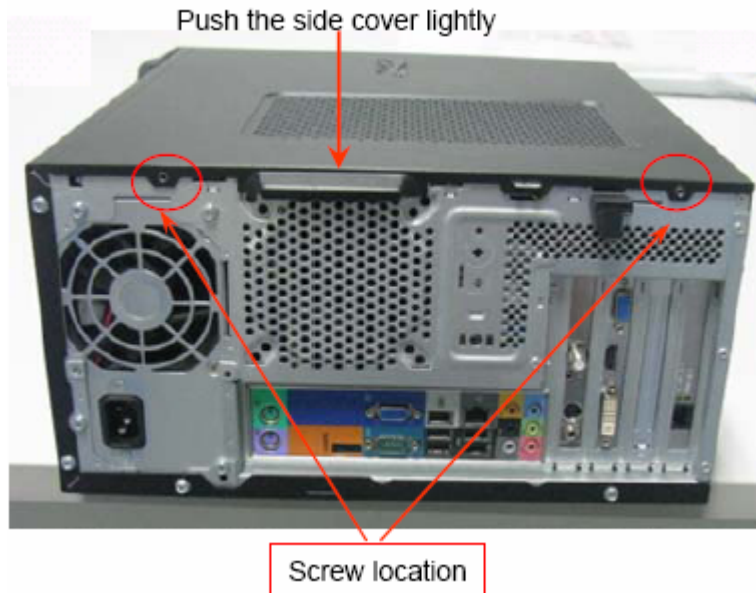


---

## ***Remove side cover***

### ***Process:***

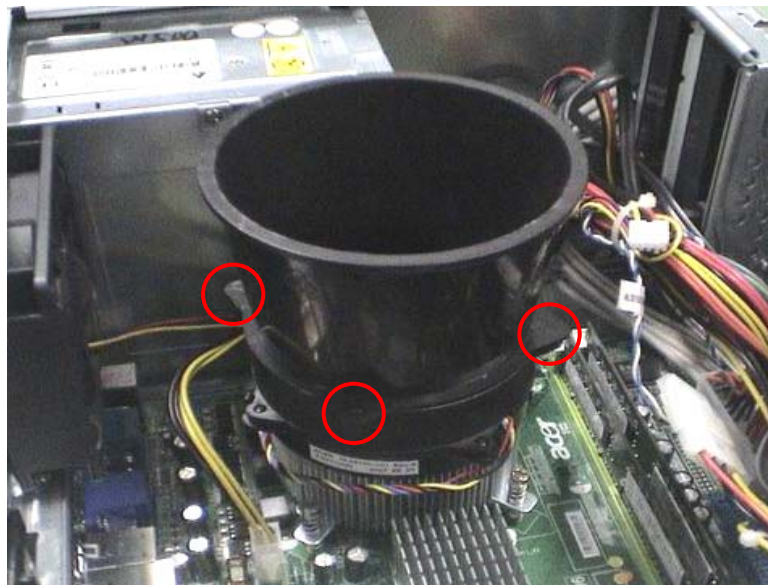
1. Put the Computer on the worktable lightly.
2. Release left side cover with 2 screws then remove left side cover.



## ***Remove CPU fan pipe***

### ***Process:***

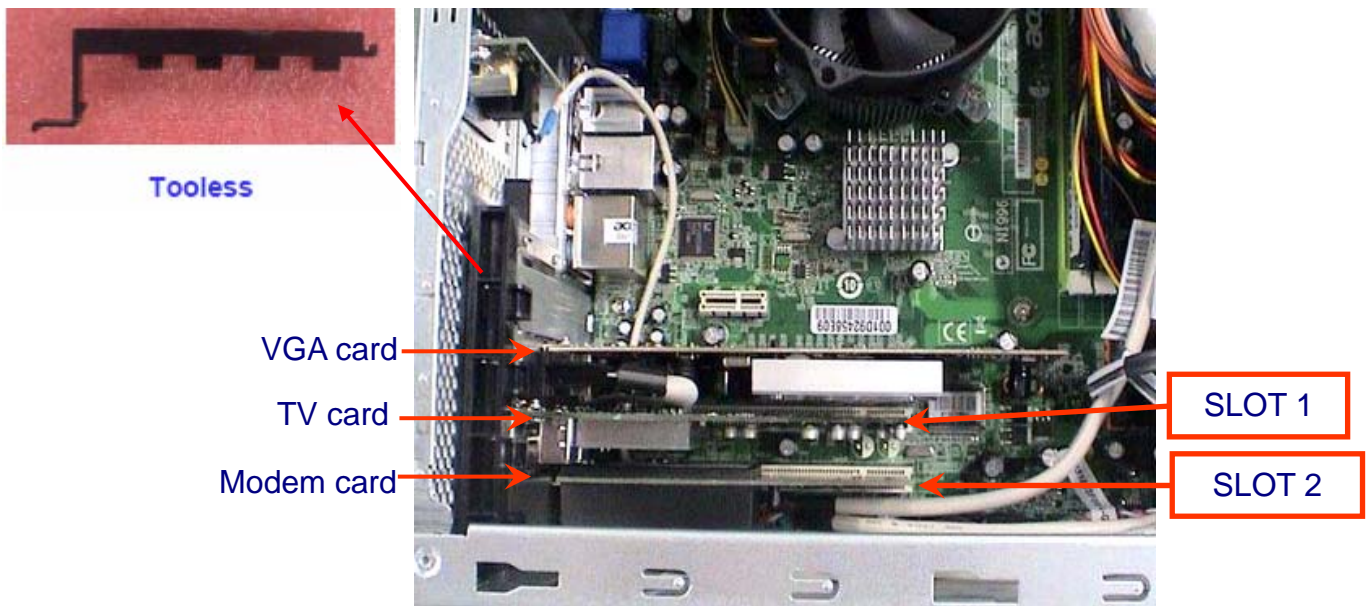
1. Release the CPU pipe.



## ***Remove Cards***

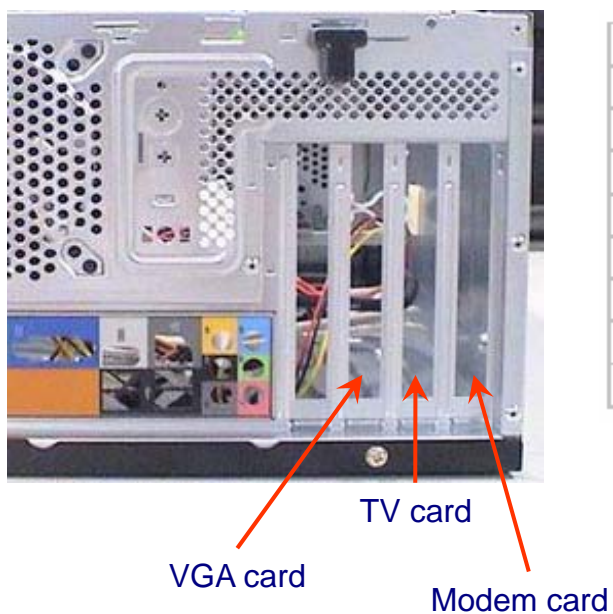
### ***Process:***

1. Release the slot cover tooless
2. Remove VGA , TV、 Modem Card , the following list is for your reference about the mutual location relation (Optional by SKU).



### ***Notice:***

- I. Remove card, don't touch any electric parts on PCB.



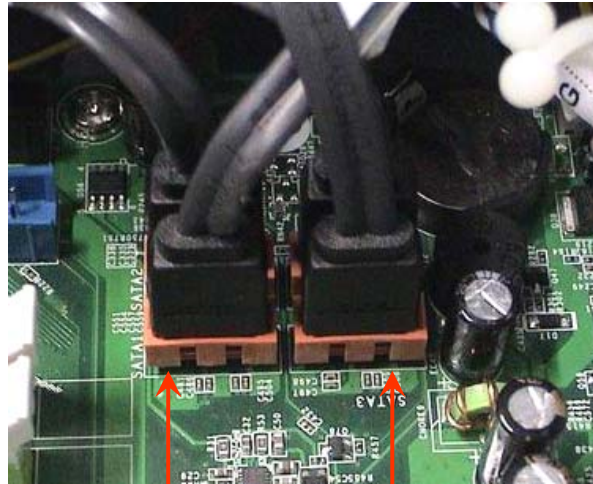
Slot 1	Slot 2
TV Card	N
N	Modem Card
1394 Card	N
Lan Card	N
TV Card	Modem Card
TV Card	1394/Lan Card
1394 /Lan card	Modem Card
Lan Card	1394 Card

---

## ***Remove HDD Data Cables***

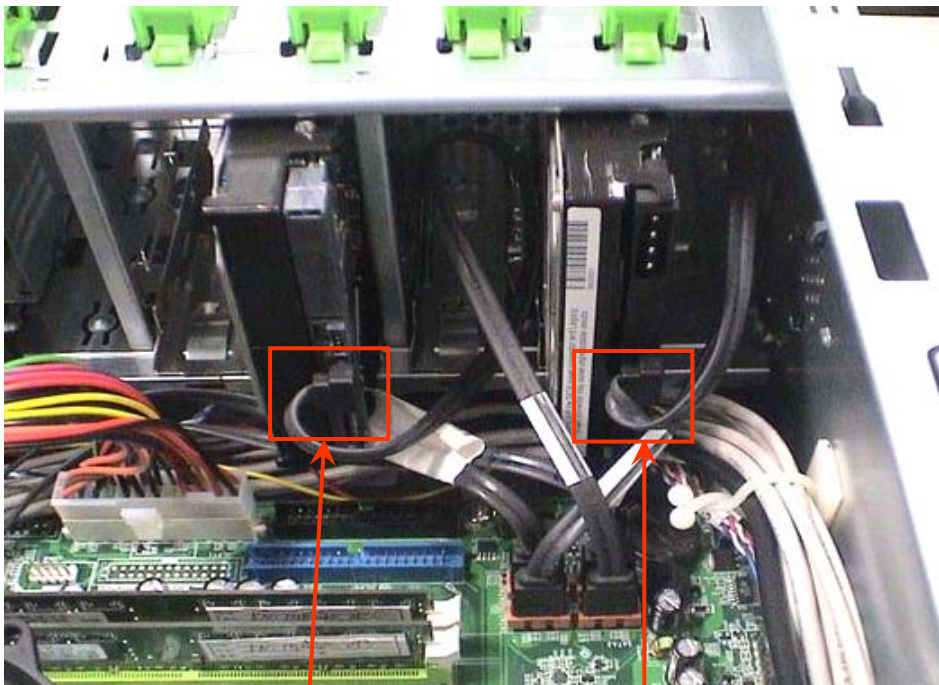
### ***Process:***

1. Remove master HDD from M/B SATA1.
2. Remove slave ODD data cable from M/B SATA3.



ATA3 slot on M/B

SATA1 slot on M/B



Remove slave HDD

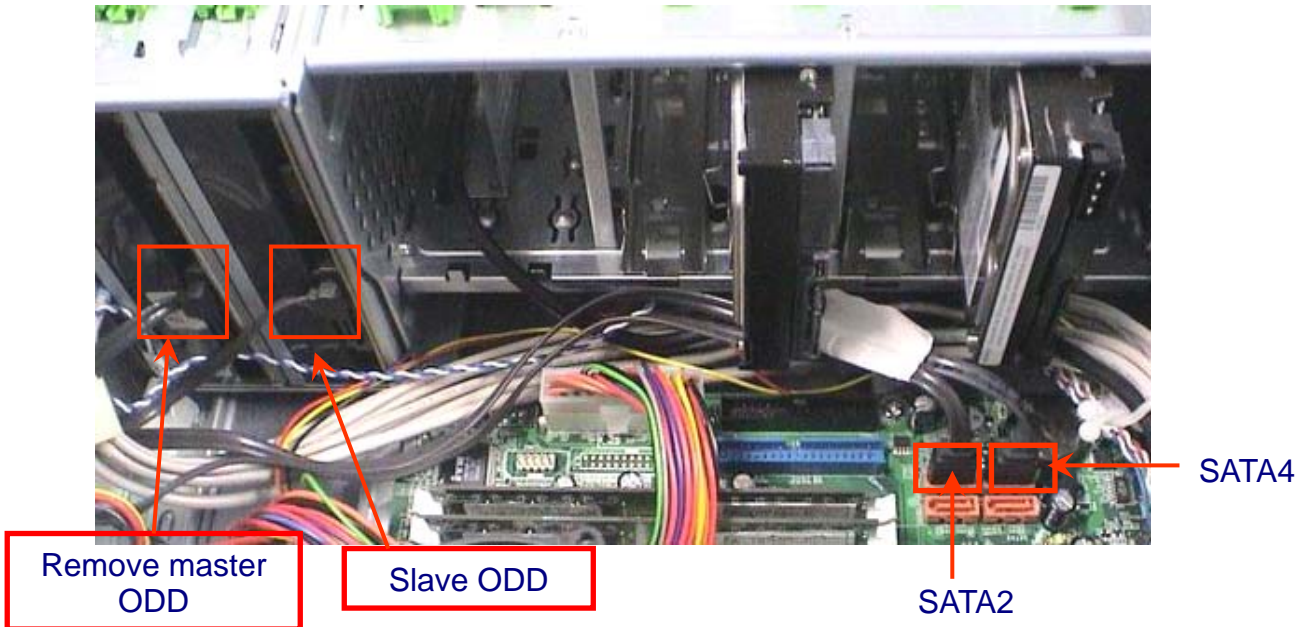
Remove master HDD

---

## ***Remove ODD DATA cable***

### ***Process:***

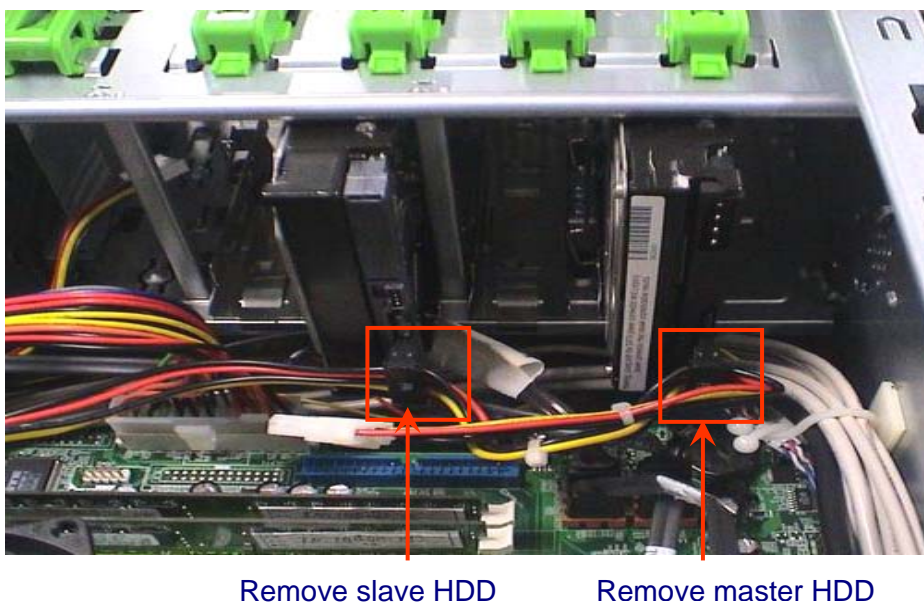
1. Remove master ODD data cable from Master ODD.
2. Remove slave ODD data cable from master and Slave ODD (Optional by SKU)



## ***Remove HDD power cable***

### ***Process:***

1. Remove master HDD data cable from master HDD.
2. Remove slave HDD data cable from slave HDD.

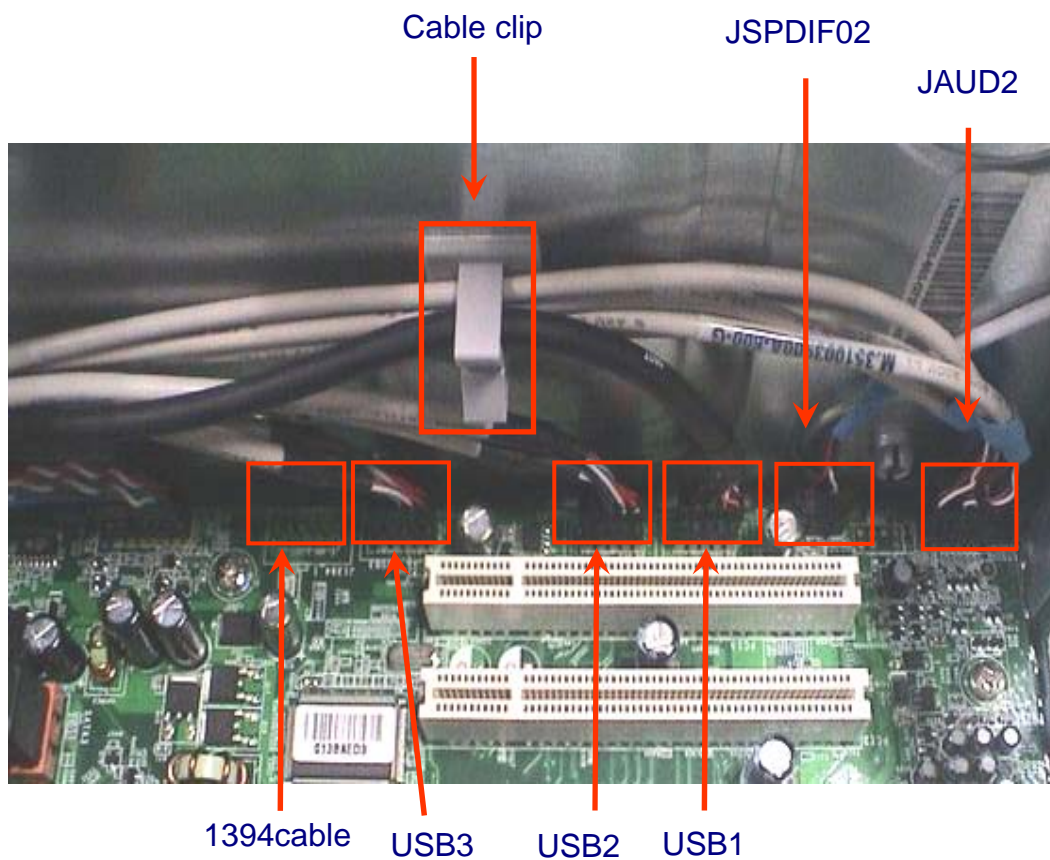


---

## ***Remove Cables***

### ***Process:***

1. Remove front audio cable from M/B “JAUD2”
2. Remove SPDIF cable from M/B” JSPDIF02”
3. Remove front USB cable from USB2 and USB3.
4. Remove card reader USB cable from USB1.
5. Release cable clip (no modem and audio cable is longer).



### ***Notice:***

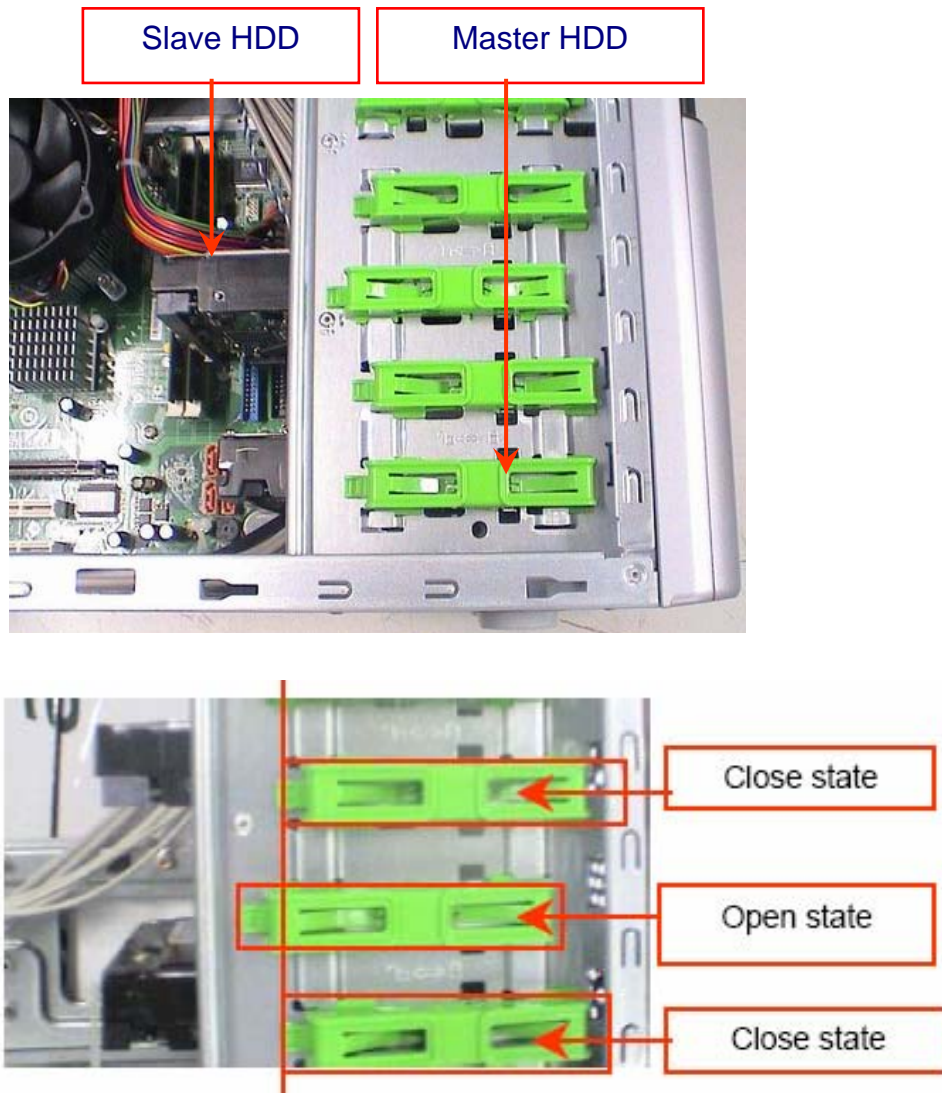
- I. Front panel USB cable must be always connect to M/B USB2 and USB3 port whether has card reader.

---

## ***Remove HDD***

### ***Process:***

1. Remove Master HDD from the first HDD location.
2. Remove Slave HDD from the second HDD location. (Optional by SKU)



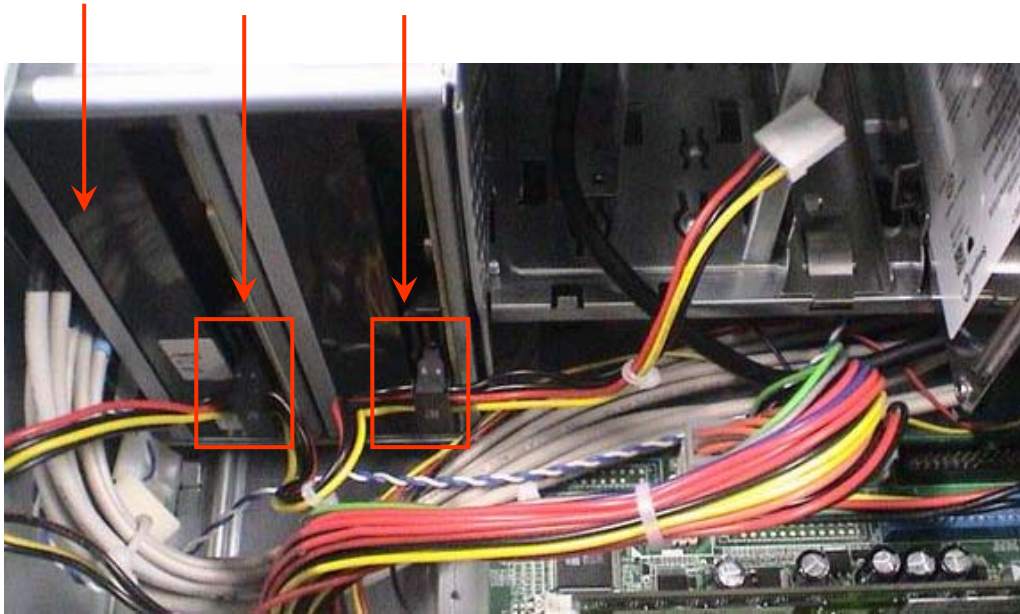
---

## ***Remove ODD power cable***

### ***Process:***

1. Remove ODD power cable from master ODD (for SATA ODD).
2. Remove ODD power cable from slave ODD (for SATA ODD).

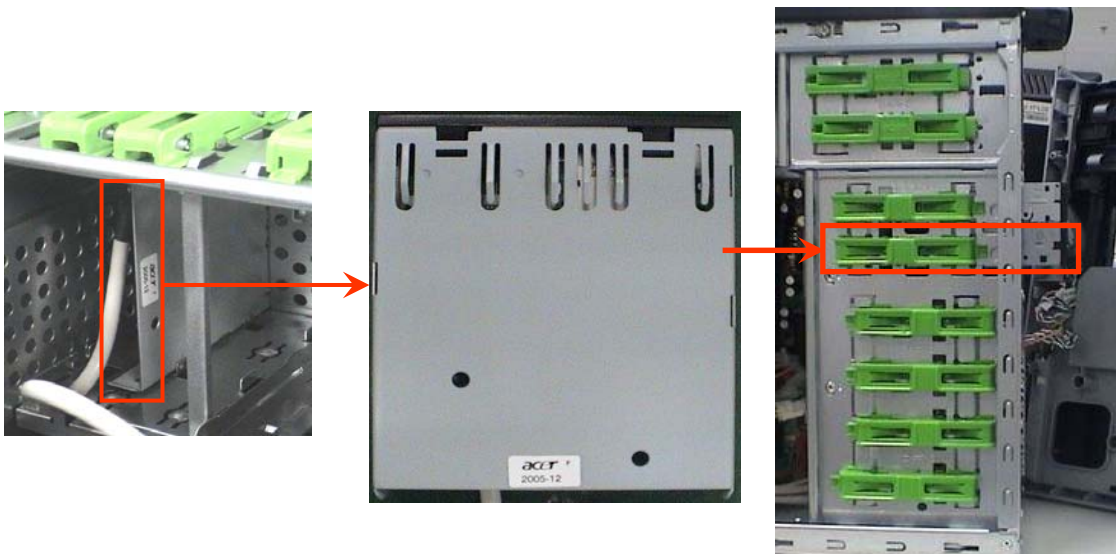
Master ODD      SATA power cable



## ***Remove card reader***

### ***Process:***

1. Remove card reader from chassis.

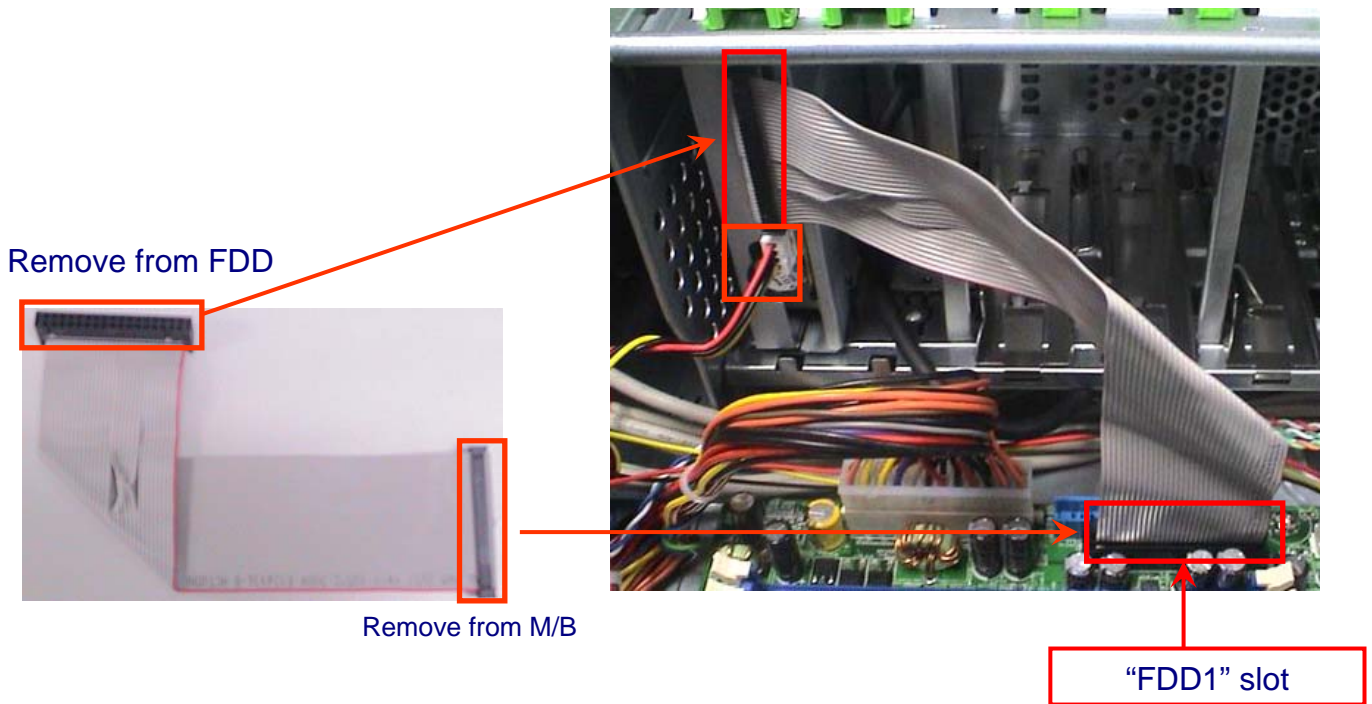


---

## ***Remove FDD Cable***

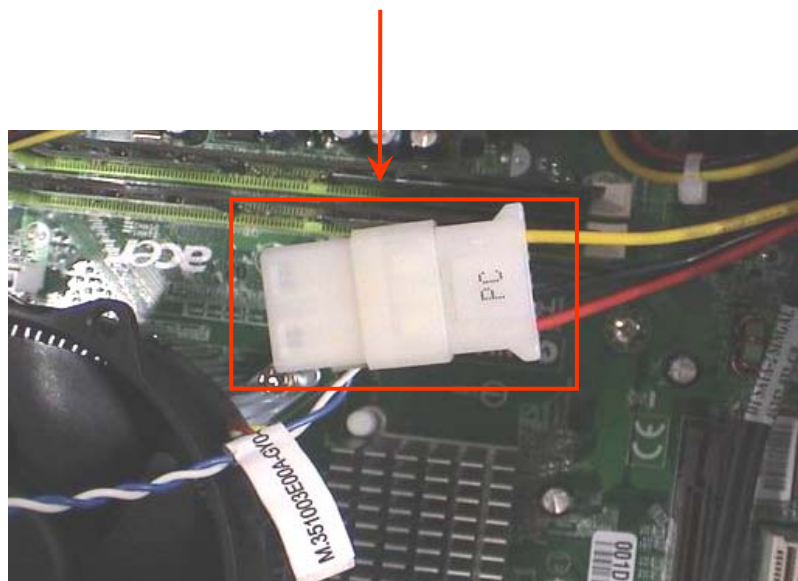
### ***Process:***

1. Remove FDD digital cable just as pictures (Optional by SKU).
2. Plug 4 pins power cord from FDD slot.



3. Remove front bezel light cable from PATA power cable

Remove Front bezel light cable



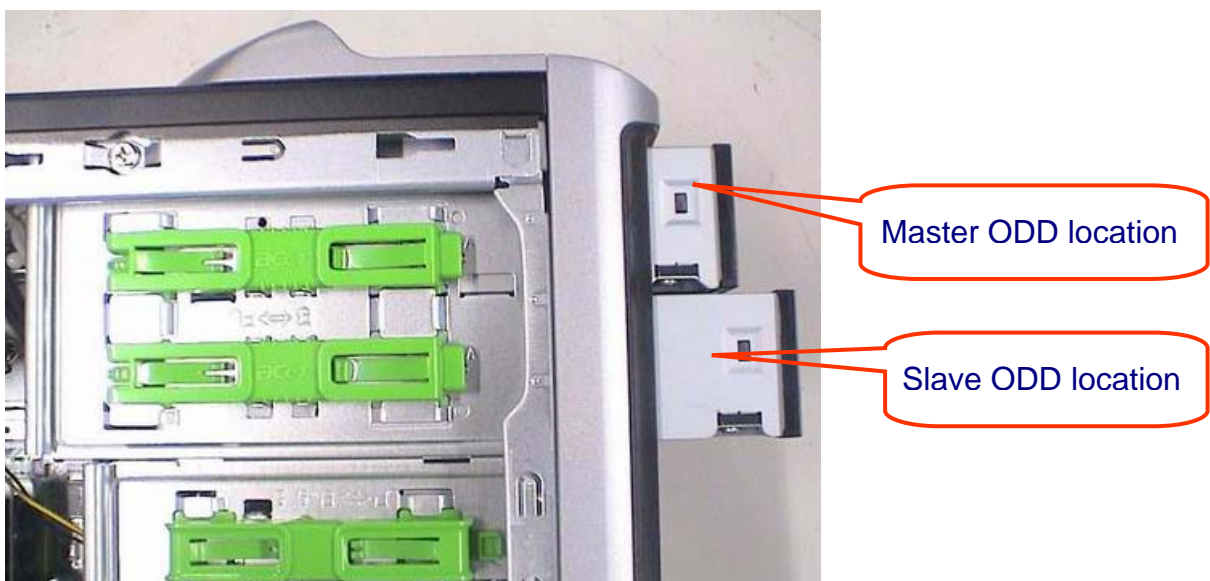
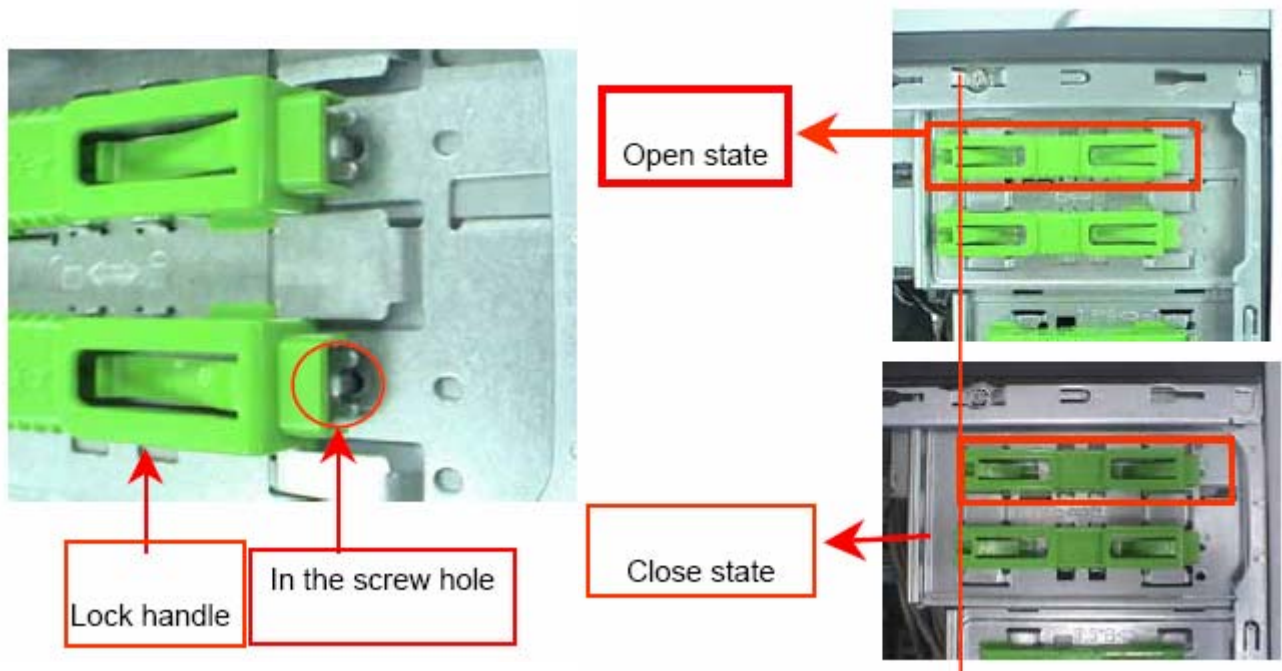


---

## ***Remove ODD***

### ***Process:***

1. Push the lock handle release ODD.
2. Remove Master ODD from the location.
3. Remove slave ODD from the location. (Optional by SKU)

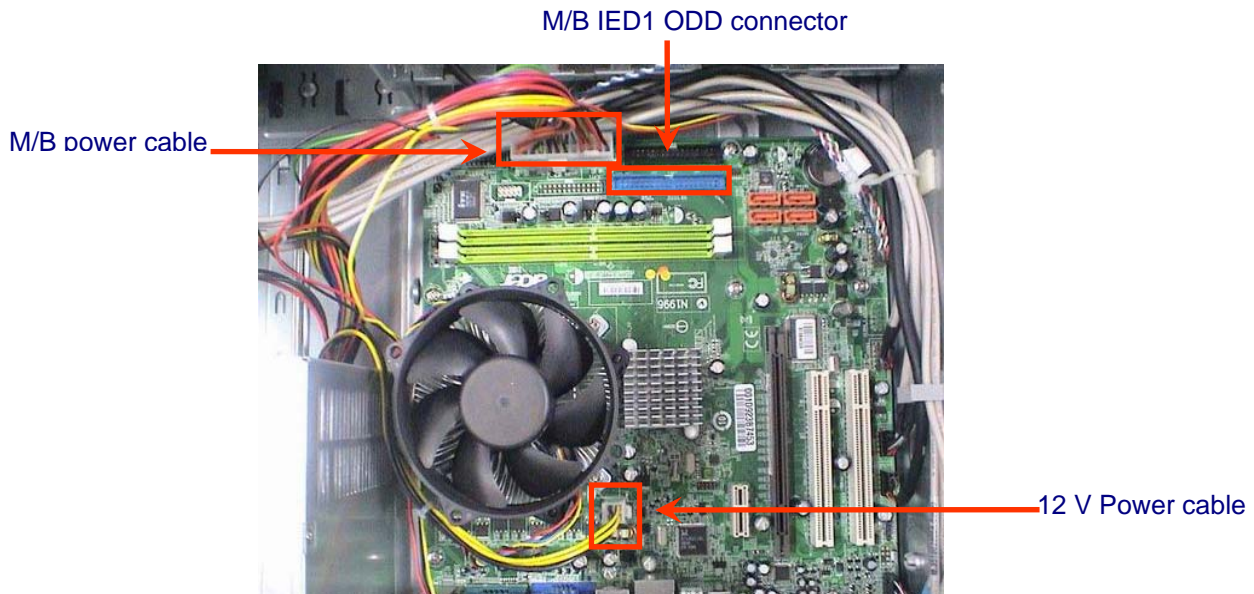


---

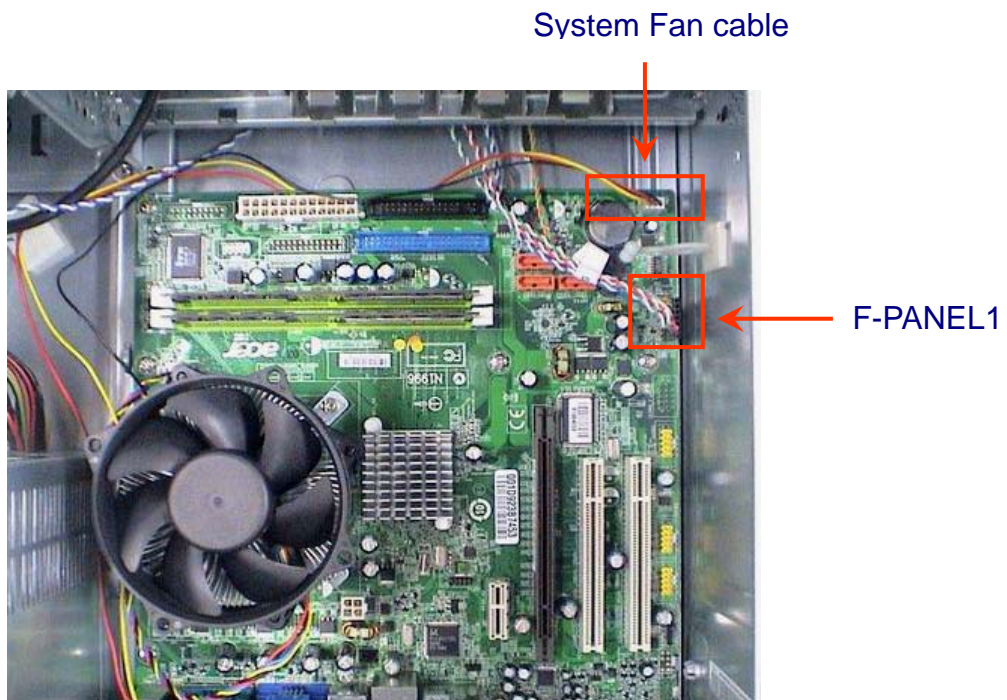
## ***Remove Cables***

### ***Process:***

1. Remove M/B power cable from M/B “ATX1”.
2. Remove 12 V power cable from M/B” JPW1”



3. Remove panel power cable from” F-PANEL1”.
4. Remove System Fan cable from M/B”SYS-F2”.



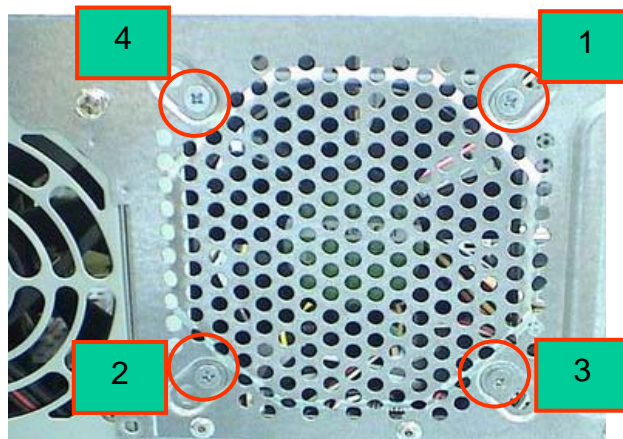
---

## ***Remove System FAN***

### ***Process:***

1. Release four screws according to the following picture.
2. Remove Sys FAN (Optional by SKU)

Release four screws.



The direction of System FAN

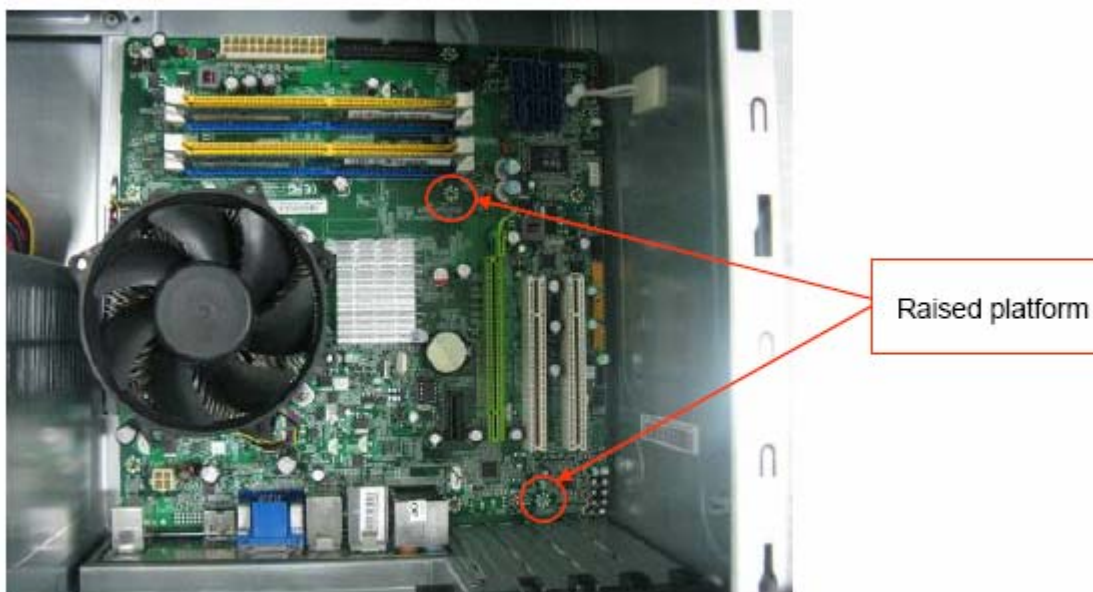
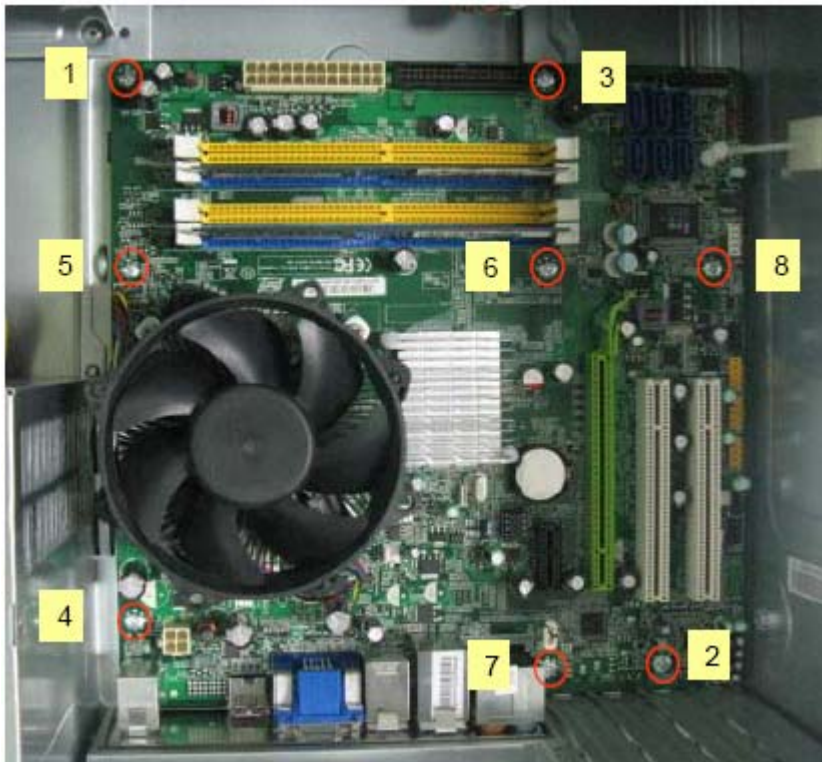


---

## ***Remove mother board***

### ***Process:***

1. Release 8 pcs screws form the corresponding hole.
2. Release screws according to the following picture in turn.
3. Remove the Mother board from chassis.



---

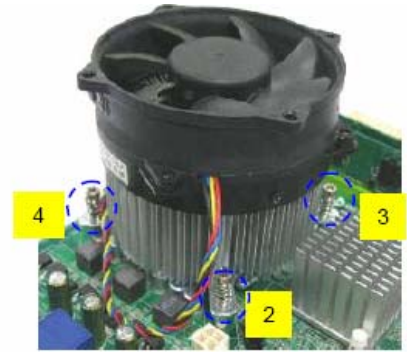
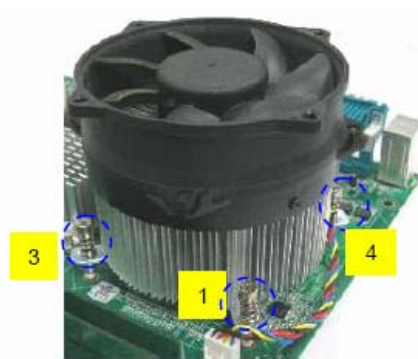
## ***Remove CPU cooler***

### ***Process:***

1. Remove cooler power cable from M/B "CPU-F2".
2. Release screw 1 first, then fixes screw 2, screw 3 & screw 4 (As Picture).
3. Remove Cooler from the Retention module.



Cooler power cable



## ***Remove memory***

### ***Process:***

1. Remove the first Memory from DIMM0
2. Remove the second Memory from DIMM1(Optional by SKU).



DIMM0 DIMM1  
DIMM2 DIMM3

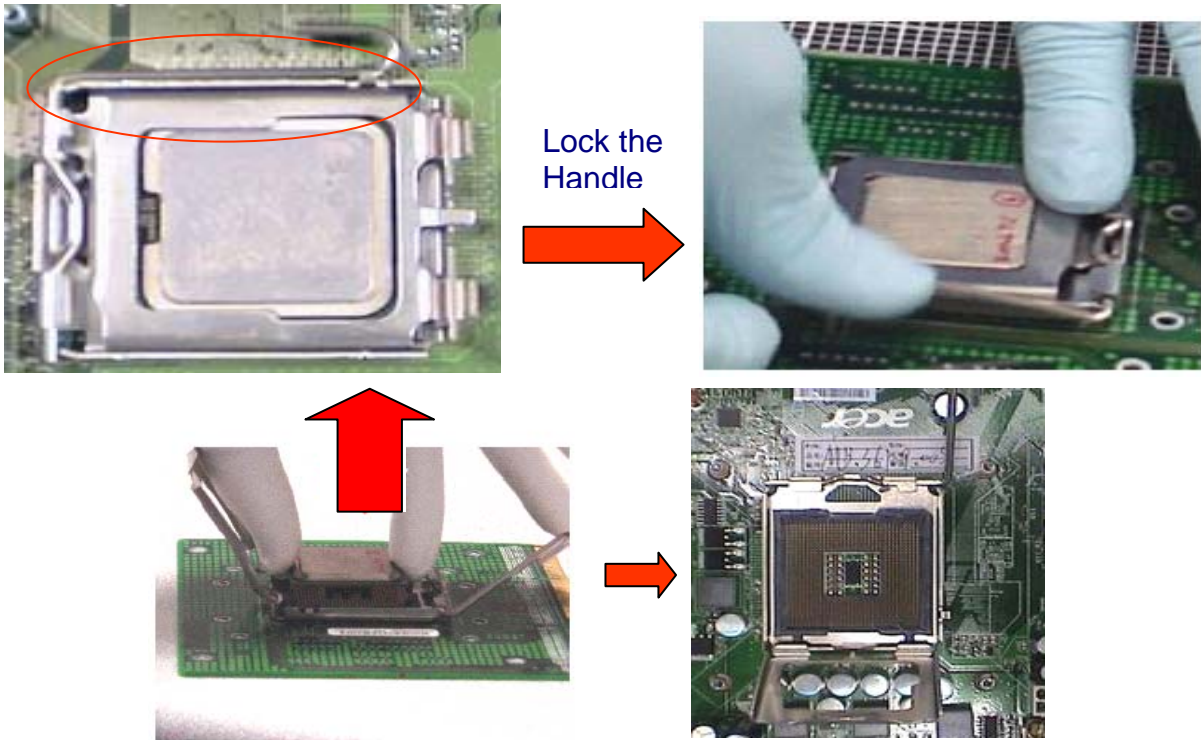
DIMM 1	DIMM 3	DIMM 0	DIMM 2
A		B	
A		A	
B	A	B	
A	B	A	
A	B	A	B

---

## ***Remove CPU***

### ***Process:***

1. Remove CPU according following the pictures.



## ***Remove I/O shielding***

### ***Process:***

1. Remove I/O Shielding.



---

## ***Troubleshooting***

Please refer to generic troubleshooting guide for troubleshooting information relating to following topics:

- Power-On Self-Test (POST)
- POST Check Points
- POST Error Messages List
- Error Symptoms List


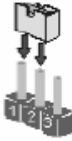
## Jumper and Connector Information

### Jumper Setting


This section explains how to set jumpers for correct configuration of the mainboard.

#### Setting Jumper

Use the motherboard jumpers to set system configuration options. Jumpers with more than one pin are numbered. When setting the jumpers, ensure that the jumper caps are placed on the correct pins.

Description	Illustration
The illustrations show a 2-pin jumper. When the jumper cap is placed on both pins, the jumper is SHORT. If you remove the jumper cap, or place the jumper cap on just one pin, the jumper is OPEN.	 SHORT      OPEN
This illustration shows a 3-pin jumper. Pins 1 and 2 are SHORT	

### Clear CMOS

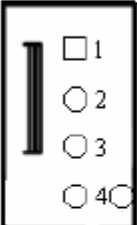
Jumper	Type	Description	Setting(Default)	Illustration
CLR_CMOS	3-pin	CLEAR CMOS	1-2 : Clear 2-3 : Normal Before clearing the CMOS, make sure to turn off the system	Clear CMOS  1



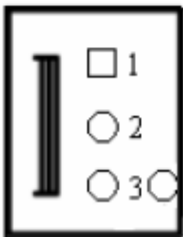
---

## Checking Connector

### CPU\_FAN: CPU Cooling Fan Connector

	Pin	Signal Name	Function
	1	GND	System Ground
	2	+12V	Power +12V
	3	Sense	Sensor
	4	Control	FAN Control Signal

### SYS\_FAN/PWR\_FAN: FAN Power Connectors

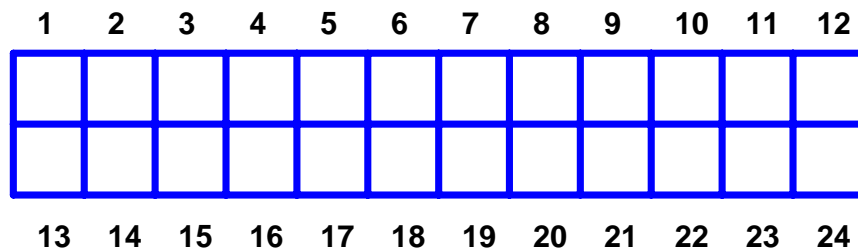
	Pin	Signal Name	Function
	1	GND	System Ground
	2	+12V	Power +12V
	3	Sense	Sensor

### ATX12V: ATX 12V Power Connector

Pin	Signal Name
1	Ground
2	Ground
3	+12V
4	+12V

---

## ***ATX\_POWER: ATX 24-pin Power Connector***



<b>Pin</b>	<b>Signal Name</b>	<b>Pin</b>	<b>Signal Name</b>
1	+3.3	13	+3.3V
2	+3.3	14	-12V
3	COM	15	COM
4	+5V	16	PS_ON
5	COM	17	COM
6	+5V	18	COM
7	COM	19	COM
8	PWR OK	20	-5V
9	5VSB	21	+5V
10	+12V	22	+5V
11	+12V	23	+5V
12	+3.3V	24	COM

### Front Panel Header

The front panel header (PANEL1) provides a standard set of switch and LED connectors commonly found on ATX or Micro ATX cases. Refer to the table below for information:

Illustration	Pin	Signal	Pin	Signal
	1	5V_SYS	2	GPIO_GRN_HDR_R
	3	HDD_LED_R	4	GPIO_YLW_HDR_R
	5	GND	6	PSIN
	7	ICH_SYS_RS TJ	8	GND
	9	5V_SYS	10	KEY
	11	NC	12	5V_SB
	13	NC	14	LAN_ACTJ

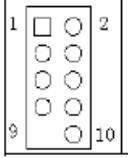
### Front USB

Illustration	Pin	Signal	Function	Pin	Signal	Function
	1	VREG_FP_U SBPWR0	Front panel USB power(Ports 0,1)	2	VREG_FP_U SBPWR0	Front panel USB power(Ports 0,1)
	3	USB_FP_P0-	Front panel USB Port 0 Negative Signal	4	USB_FP_P1-	Front panel USB Port 1 Negative Signal
	5	USB_FP_P0+	Front panel USB Port 0 Positive Signal	6	USB_FP_P1+	Front panel USB Port 1 Positive Signal
	7	GROUND		8	GROUND	
	9	KEY		10	GROUND	


### Front Audio

Illustration	Pin	Signal Name	Pin	Signal Name
	1	MIC2-L	2	AUD_GND
	3	MIC2-R	4	AUD_PRESENCE_L
	5	LINE2-R	6	MIC2-JD
	7	FRONT-IO-SENSE	8	KEY
	9	LINE2-L	10	LINE2-JD

### Front 1394

Illustration	Pin	Signal Name	Pin	Signal Name
	1	TPA+	2	TPA-
	3	GROUND	4	GROUND
	5	TPB+	6	TPB-
	7	+12V(FUSED)	8	+12V(FUSED)
	9	KEY	10	GROUND

### Aux\_In

Illustration	Pin	Signal Name	Pin	Signal Name
	1	CD_IN_L	2	GROUND
	3	GROUND	4	CD_IN_R
	5	KEY		

### Intruder

Pin	Signal Name	Pin	Signal Name
1	INTRUDERJ	2	GROUND

### J3(for requested)

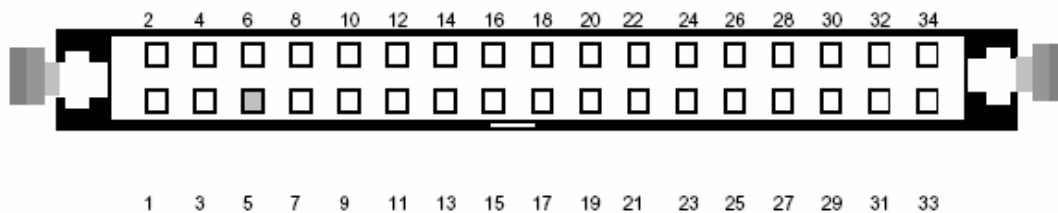
Pin	Signal Name	Pin	Signal Name
1	AGPIO1	2	GROUND

### J4(for requested)

Pin	Signal Name	Pin	Signal Name
1	AGPIO2	2	GROUND

## FDD

(Top-View)



Pin	Signal Name	Pin	Signal Name
1	Ground	2	DRV DEN0
3	Ground	4	HDL-
5	Keypin	6	DS3-
7	Ground	8	INDEX-
9	Ground	10	MTR0-
11	Ground	12	DS0-
13	Ground	14	DS1-
15	Ground	16	MTR1-
17	Ground	18	DIR-
19	Ground	20	STEP-
21	Ground	22	WDATA
23	Ground	24	WGATE-
25	Ground	26	TRK0-
27	Ground	28	WP-
29	Ground	30	RDATA
31	Ground	32	HDSEL-
33	Ground	34	DSKCHG-

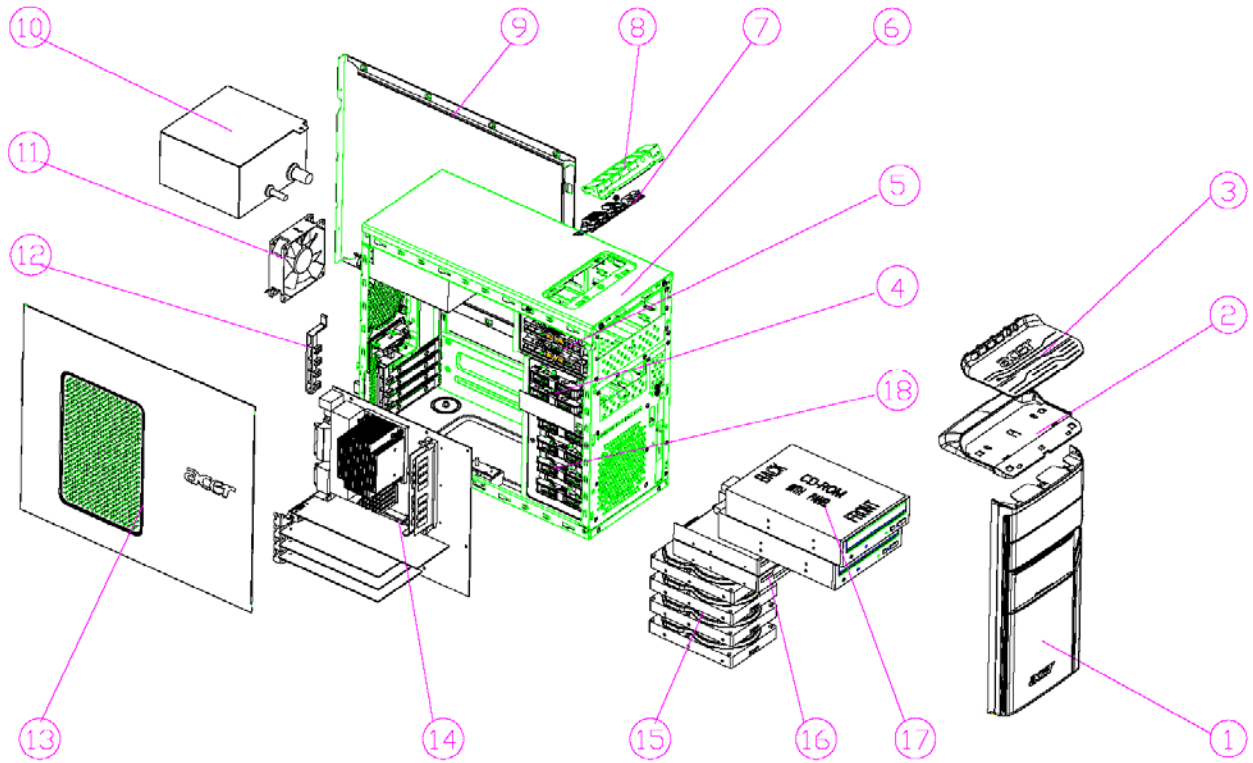
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## ***FRU (Field Replaceable Unit) List***

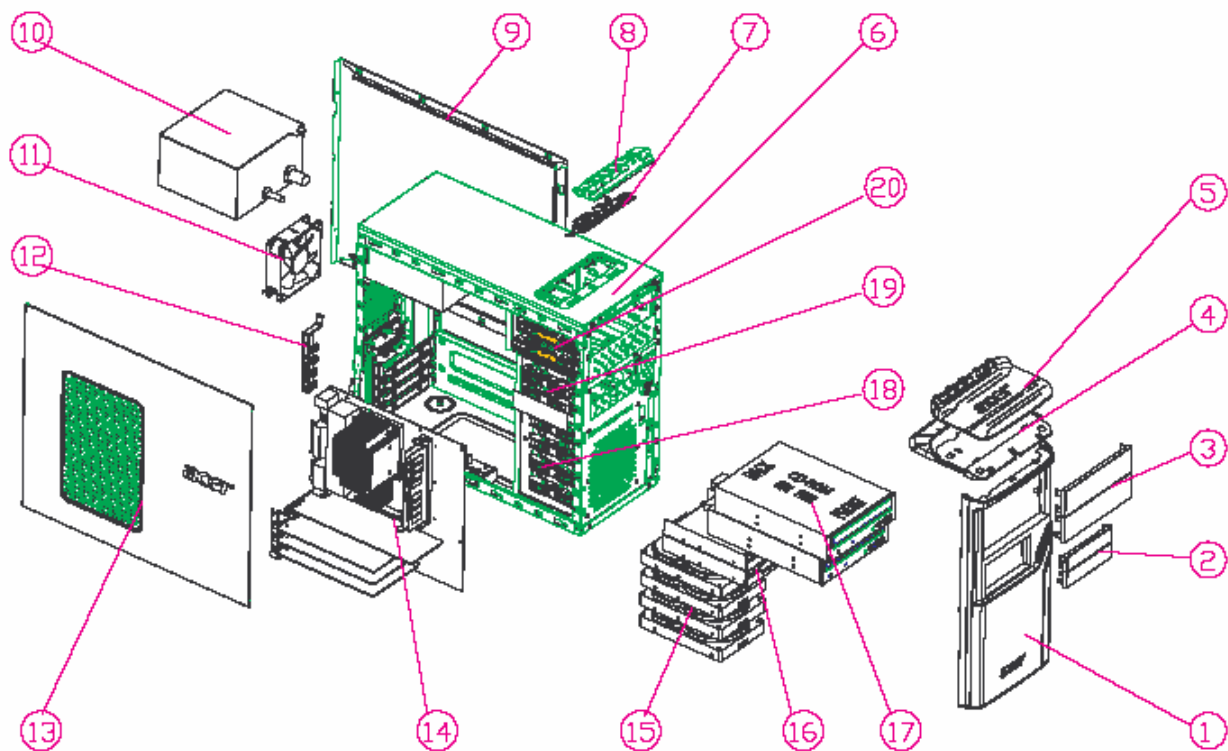
This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of **Aspire M3710/5711/7711**. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

**NOTE:** Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. 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 to 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.

# Exploded Diagram

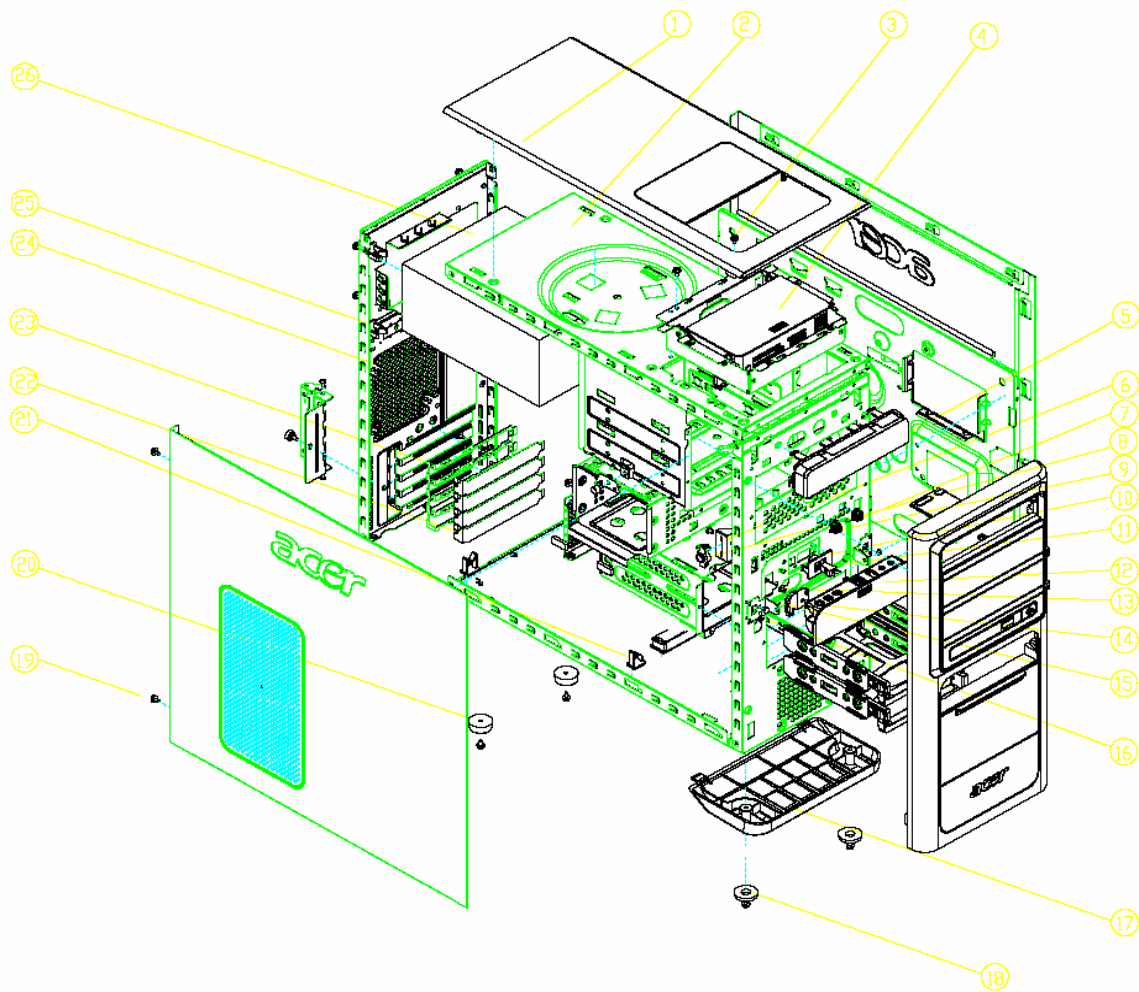


NO	DESCRIPTION	NO	DESCRIPTION
1	AM320_MAIN_BEZEL	10	POWER SUPPLY
2	AM320_USB	11	FAN
3	AM320_USB_PANEL	12	PCI-BRACKET
4	FDD_LOCK_SLIDE	13	LEFT SIDE DOOR
5	CD_ROM LOCK SLIDE	14	MOTHER BOARD
6	CHASSIS	15	HDD
7	USB_PCB_ASN	16	3.5 DEVICE
8	USB-SHIELDING	17	CD-ROM
9	RIGHT SIDE DOOR	18	HDD-LOCK-SLIDE



NO	DESCRIPTION	NO	DESCRIPTION
1	AM520-MAIN-BEZEL	11	FAN
2	3-25-COVER	12	PCI-BRACKET
3	5-25-COVER	13	LEFT SIDE DOOR
4	AM520-USB	14	MOTHERBOARD
5	AM520-USB-PANEL	15	HDD
6	CHASSIS	16	3.5" DEVICE
7	USB-PCI-ASN	17	CD-ROM
8	USB-SHIELDING	18	HDD-LOCK-SLIDE
9	RIGHT SIDE DOOR	19	FDD-LOCK-SLIDE
10	POWER SUPPLY	20	CD-ROM LOCK SLIDE





NO	DESCRIPTION	NO	DESCRIPTION
1	TOP PLASTIC	14	FIO-RACK
2	1-TOP-PLATE	15	FRONT-AXES
3	SCREW	16	STANDOFF-A
4	CARD READ ASSY	17	BASE BEZEL FOR ACER
5	MCI ASSY	18	RUBBER-FOOT(FRONT)
6	GEAR-BKT	19	SCREW
7	POWER SWITCHWITH CABLE	20	RUBBER-FOOT(BACK)
8	GEAR(PG-08A-45W)	21	GLIP CLAMP CHF-B-3M
9	BACKUP SWITCH WITH CABLE	22	PLT,BK,I/O,EVT
10	MCR BOTTOM	23	2-PCI-SHIELD
11	DOOR-LOCK(DL-400)	24	1-BACK
12	FIO(2AUDIO+2USB+1394)	24	CPU CLAMP FW-IDL-NOW
13	SCREW(FOR FIO-RACK)	26	LITEON 500W FULL RONGE

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