

# **Aspire 6935G Series Service Guide**

Service guide files and updates are available on the ACER/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 6935G service guide.

| Date | Chapter | Updates |
|------|---------|---------|
|      |         |         |
|      |         |         |
|      |         |         |

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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>       | Reminds 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

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## Features

Below is a brief summary of the computer's many feature:

### Operating system

- ❑ Windows Vista™

**NOTE:** Windows® Vista™ Capable PCs come with Windows® XP installed, and can be upgraded to Windows® Vista™. For more information on Windows® Vista™ and how to upgrade, go to: [Microsoft.com/windowsvista](http://Microsoft.com/windowsvista)

### Platform

- ❑ Intel® Centrino® Duo mobile processor technology, featuring:
  - Intel® Core™2 Duo mobile processor
  - Mobile Intel® GM975/PM975 Express Chipset
  - Intel® Wireless WiFi Link Wi-Fi CERTIFIED® network connection
  - Intel® PRO/Wireless Wi-Fi CERTIFIED® network connection

### System Memory

- ❑ Dual-Channel DDR3 SDRAM support
- ❑ Up to 2 GB of DDR3 1066 MHz memory, upgradeable to 4 GB using two soDIMM modules

### Display and graphics

- ❑ Mobile Intel® GM975/PM975 Express Chipset (for selected models)
- ❑ NVIDIA® GeForce® 9500M GS with 512MB of dedicated VRAM supporting TurboCache™ (for selected models)

### TV-tuner

- ❑ Digital TV-tuner supporting DVB-T

### Audio

- ❑ Dolby® -certified surround sound system with two built-in stereo speakers and one subwoofer supporting lowfrequency effects
- ❑ S/PDIF (Sony/Philips Digital Interface) support for digital speakers
- ❑ Built-in stereo microphones

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## Storage subsystem

- ☐ 2.5" hard disk drive
- ☐ Optical drive options:
  - Blu-ray Disc™ (BD) drive (for selected models)
  - DVD-Super Multi double-layer drive
- ☐ 6-in-1 card reader

## Input devices

- ☐ 88-/89-key keyboard
- ☐ Touchpad pointing device
- ☐ Acer CineDash media console capacitive human interface device, including: capacitive human interface device

## Communication

- ☐ Acer Video Conference, featuring:
  - Integrated Acer Crystal Eye webcam
  - Acer Video Conference Manager software
  - Acer PureZone technology
  - Optional Acer Xpress VoIP phone
- ☐ WLAN: Intel® Wireless WiFi Link network connection or Intel® PRO/Wireless network connection
- ☐ WPAN: Bluetooth® 2.0+EDR
- ☐ LAN: Gigabit Ethernet, Wake-on-LAN ready
- ☐ Modem: 56K ITU V.92

## I/O Ports

- ☐ ExpressCard™/54 slot
- ☐ 6-in-1 card reader (SD™, MMC, MMCplus™, MS, MS PRO, xD)
- ☐ Four USB 2.0 ports
- ☐ HDMI™ port with HDCP support (for selected models)
- ☐ Consumer infrared (CIR) port
- ☐ External display (VGA) port
- ☐ Headphone/speaker/line-out jack with S/PDIF support
- ☐ Microphone-in jack
- ☐ Line-in jack
- ☐ Ethernet (RJ-45) port
- ☐ Modem (RJ-11) port

**NOTE:** HDCP is acronym for High-bandwidth Digital Content Protection. An encryption system for enforcing digital rights management (DRM) over DVI and HDMI interfaces.

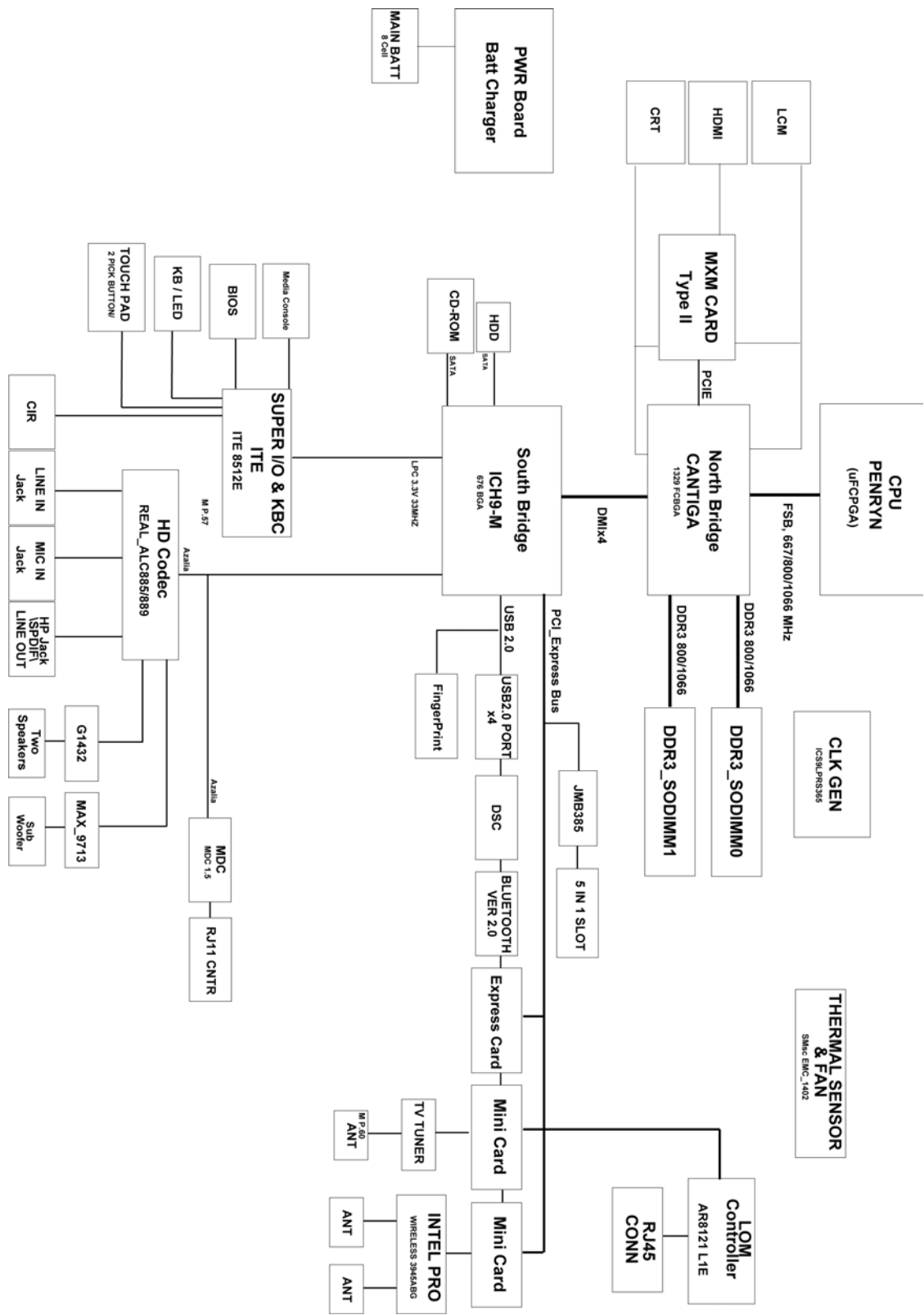
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## Environment

- ❑ Temperature:
  - operating: 5°C to 35°C
  - Non-operating: -20°C to 65°C
- ❑ Humidity (non-condensing):
  - operating: 20%~80%

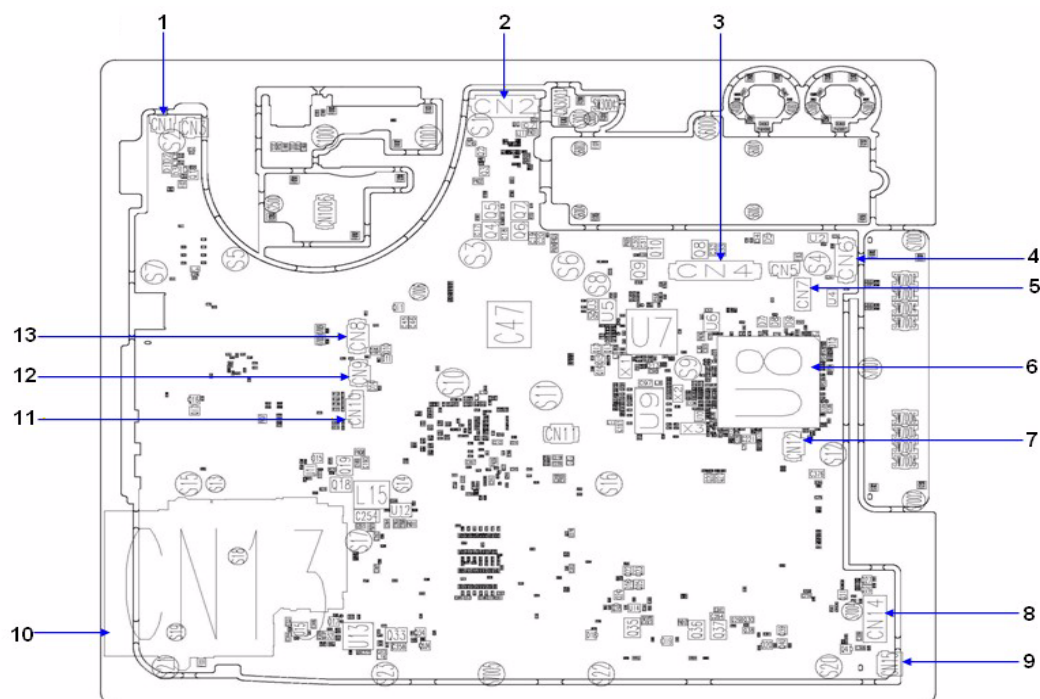
**NOTE:** Non-operating: 20%~80%

# System Block Diagram



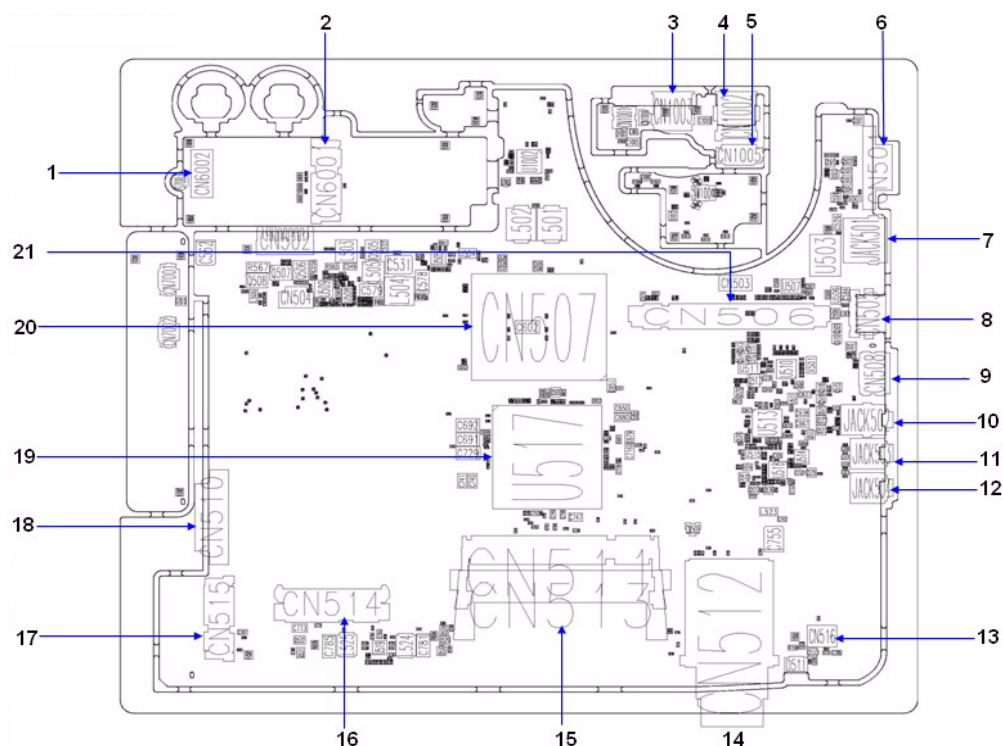
# Board Layout

## Top View



| Aspire6935 M/B layout and connector location<br>TOP view |      |                         |
|--|------|-------------------------|
| No.  | Name | Description             |
| 1  | CN1  | LED/B Cable CNTR        |
| 2  | CN2  | LCM Cable CNTR          |
| 3  | CN3  | Key board FFC CNTR      |
| 4  | CN4  | USB board CNTR          |
| 5  | CN7  | Hot Key Board CNTR      |
| 6  | U8   | South Bridge            |
| 7  | CN12 | Touch Pad FFC CNTR      |
| 8  | CN14 | I/O Board CNTR          |
| 9  | CN15 | BT Cable CNTR           |
| 10   | CN13 | Express card CNTR       |
| 11   | CN10 | Speaker Cable CNTR      |
| 12   | CN9  | Media consle Board CNTR |
| 13   | CN8  | Power Board FFC CNTR    |

## Bottom view



| Bottom view |           |                       |
|-------------|-----------|-----------------------|
| No.         | Name      | Description           |
| 1           | CN6002    | W/LAN card board CNTR |
| 2           | CN6001    | TV/Robson card CNTR   |
| 3           | CN1003    | USB Port              |
| 4           | CN1002    | USB Port              |
| 5           | CN1005    | USB Board CNTR        |
| 6           | CN501     | VGA Port              |
| 7           | Jack501   | RJ45                  |
| 8           | CN505     | USB Port              |
| 9           | CN508     | HDMI Port             |
| 10          | Jack502   | SPDIF                 |
| 11          | Jack503   | MIC jack              |
| 12          | Jack504   | Line in jack          |
| 13          | CN516     | MDC Card CNTR         |
| 14          | CN512     | New card Socket       |
| 15          | CN511/513 | DIMM Socket           |
| 16          | CN514     | HDD CNTR              |
| 17          | CN515     | PCI-E Socket          |
| 18          | CN510     | ODD CNTR              |
| 19          | U517      | North Bridge          |
| 20          | CN507     | CPU Socket            |
| 21          | CN506     | VGA Card Socket       |


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# Your Acer Notebook tour

After knowing your computer features, let us show you around your new Aspire computer.

## Front View





| No. | Icon  | Item                                    | Description  |
|-----|---|---|--|
| 1   |   | Acer Crystal Eye                        | Web camera for video communication.  |
| 2   |   | Acer PureZone                           | Two internal stereo microphones for sound recording.   |
| 3   |   | Display screen                          | Also called Liquid-Crystal Display (LCD), displays computer output.  |
| 4   |   | Status indicators                       | Light-Emitting Diodes (LEDs) that light up to show the status of the computer's functions and components.  |
| 5   |   | Power button                            | Turns the computer on and off.   |
| 6   |   | CineDash media console                  | The CineDash media console is a touch-sensitive entertainment interface.   |
| 7   |   | Keyboard                                | For entering data into your computer.  |
| 8   |   | Palmrest                                | Comfortable support area for your hands when you use the computer.   |
| 9   |   | Touchpad                                | Touch-sensitive pointing device which functions like a computer mouse.   |
| 10  |   | Click buttons (left, center* and right) | The left and right buttons function like the left and right mouse buttons.<br>*The center button serves as Acer BioProtect fingerprint reader supporting Acer FingerNav 4-way control function.<br>(for selected models) |
| 11  |   | Status indicators                       | Light-Emitting Diodes (LEDs) that light up to show the status of the computer's functions and components.  |
| 12  |   | Easy-launch button                      | Buttons for launching frequently used program.   |
| 13  |   | Speakers                                | 5.1 speakers deliver stereo audio output.  |
| 14  |  | Empowering key                          | Launch Acer Empowering Technology.   |

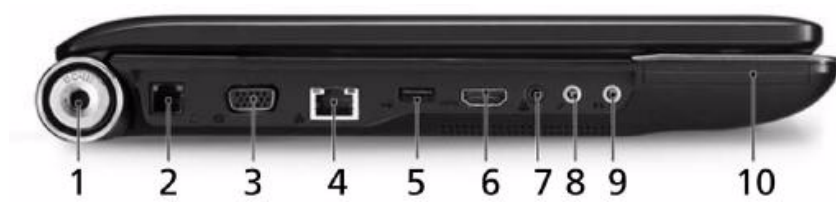











# Closed Front View



| No. | Icon  | Item               | Description  |
|-----|---|--------------------|--|
| 1   |  | CIR receiver       | Receives signals from a remote control.  |
| 2   |  | 6-in-1 card reader | Accepts Secure Digital (SD), MultiMediaCard (MMC), MultiMediaCard Plus (MMCplus), Memory Stick (MS), Memory Stick Pro (MS PRO), xD-Picture Card. |




# Left View



| No. | Icon  | Item  | Description   |
|-----|---|---|---|
| 1   |  | DC-in jack  | Connects to an AC adapter.  |
| 2   |  | Modem (RJ-11) port                                    | Connects to a phone line.   |
| 3   |  | External display (VGA) port                           | Connects to a display device (e.g., external monitor, LCD projector).     |
| 4   |  | Ethernet (RJ-45) port                                 | Connects to an Ethernet 10/100-based network.                             |
| 5   | HDMI  | Two USB 2.0 ports                                     | Connect to USB 2.0 devices (e.g., USB mouse, USB camera).                 |
| 6   |  | HDMI  | Supports high definition digital video connections (for selected models). |
| 7   |  | Headphones/ speaker/line-out jack with S/PDIF support | Connects to audio line-out devices (e.g., speakers, headphones).          |
| 8   |  | Microphone-in jack                                    | Accepts input from external microphones.                                  |
| 9   |  | Line-in jack  | Accepts audio line-in devices (e.g., audio CD player, stereo walkman).    |
| 10  |  | ExpressCard/54 skit                                   | Acceots one ExpressCard/54 module.  |

## Right View



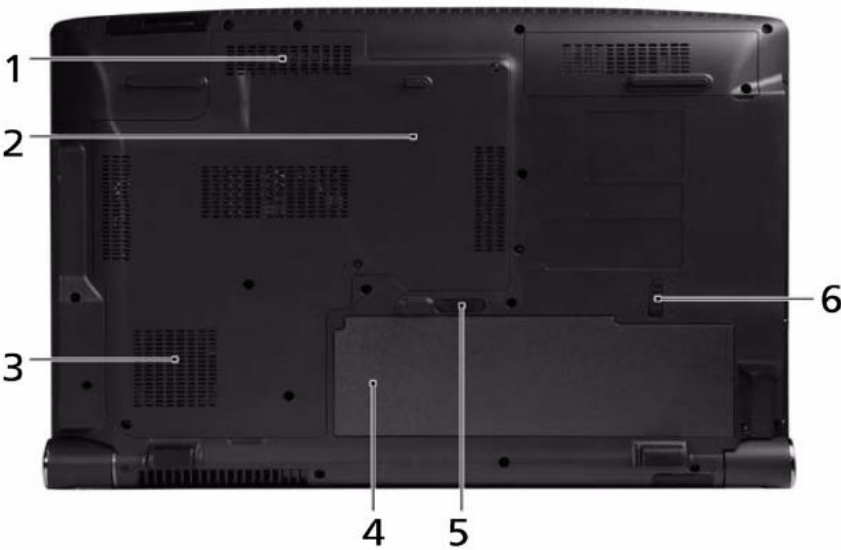
| No. | Icon  | Item                          | Description   |
|-----|---|-------------------------------|---|
| 1   |   | Optical drive                 | Internal optical drive; accepts CDs or DVDs.                                      |
| 2   |   | Optical disk access indicator | Lights up when the optical drive is active.                                       |
| 3   |   | Optical drive eject button    | Ejects the optical disk from the drive.   |
| 4   |   | Emergency eject hole          | Ejects the optical drive tray when the computer is turned off.                    |
| 5   |  | 3 USB 2.0 ports               | Connect to USB 2.0 devices (e.g., USB mouse, USB camera).                         |
| 6   |  | TV-in port                    | Accepts input signals from analog/digital TV-tuner devices (for selected models). |
| 7   |  | Kensington lock slot          | Connects to a Kensington-compatible computer security lock.                       |






## Rear View



| No. | Icon | Item              | Description   |
|-----|------|-------------------|---|
| 1   |      | Tuba              | The dedicated Tuba CineBass subwoofer pumps out earthshaking movie-house audio. |
| 2   |      | Ventilation slots | Enable the computer to stay cool, even after prolonged use.                     |

# Base View








| No. | Icon  | Item                              | Description  |
|-----|---|-----------------------------------|--|
| 1   |    | Memory compartment                | Houses the computer's main memory.   |
| 2   |    | Hard disk bay                     | Houses the computer's hard disk (secured with screws).   |
| 3   |   | Ventilation slots and cooling fan | Enable the computer to stay cool, even after prolonged use.<br><b>Note:</b> Do not cover or obstruct the opening of the fan. |
| 4   |  | Battery bay                       | Houses the computer's battery pack.  |
| 5   |  | Battery release latch             | Releases the battery for removal.  |
| 6   |  | Battery lock                      | Locks the battery in position.   |

# Indicators

The computer has several easy-to-read status indicators.



The front panel indicators are visible even when the computer cover is closed up.

| No. | Icon  | Item      | Description                                   |
|-----|---|-----------|---|
| 1   |    | HDD       | Indicates when the hard disk drive is active. |
| 2   |   | Num Lock  | Lights up when Num Lock is activated.         |
| 3   |  | Caps Lock | Lights up when Caps Lock is activated.        |
| 4   |  | Power     | Indicates the computer's power status.        |
| 5   |  | Battery   | Indicates the computer's battery status.      |

**NOTE:** 1. **Charging:** The light shows amber when the battery is charging.  
2. **Fully charged:** The light shows green when in AC mode.

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## Easy-Launch Buttons

Located beside the keyboard are application buttons. These buttons are called easy-launch buttons. They are: WLAN, Internet, email, Bluetooth and Acer Empowering Technology.

The mail and Web browser buttons are pre-set to email and Internet programs, but can be reset by users. To set the Web browser, mail and programmable buttons, run the Acer Launch Manager.



| No. | Icon | Item                                     | Description   |
|-----|------|--|---|
| 1   |      | Empowering Technology                    | Launch Acer Empowering Technology. (user-programmable)                                    |
| 2   |      | Wireless communication button/Indicator  | Enable/disable the wireless function. Indicates the status of wireless LAN communication. |
| 3   |      | Web browser                              | Internet browser. (user-Programmable)   |
| 4   |      | Mail                                     | Email application. (user-Programmable)  |
| 5   |      | Bluetooth communication button/indicator | Enable/disable the Bluetooth function. Indicates the status of Bluetooth communication.   |

# Touchpad Basics

The following teaches you how to use the touchpad:



## Move your finger across the touchpad (2) to move the cursor.

Press the left (1) and right (4) buttons located beneath the touchpad to perform selection and execution functions. These two buttons are similar to the left and right buttons on a mouse. Tapping on the touchpad is the same as clicking the left button.

Use the 4-way scroll (3) button to scroll up or down and move left or right a page. This button mimics your cursor pressing on the right scroll bar of Windows applications.

| Function            | Left Button (1)  | Right Button (4) | Main touchpad (2)   | Center button (3)   |
|---------------------|--|------------------|---|---|
| Execute             | Quickly click twice  |                  | Tap twice (at the same speed as double-clicking a mouse button)   |   |
| Select              | Click once   |                  | Tap once  |   |
| Drag                | Click and hold, then use finger on the touchpad to drag the cursor |                  | Tap twice (at the same speed as double-clicking a mouse button); rest your finger on the touchpad on the second tap and drag the cursor |   |
| Access context menu |  | Click once       |   |   |
| Scroll              |  |                  |   | Swipe up/down/left/right using Acer FingerNav 4-way control function (for selected models) or click and hold to move up/down/left/right (for selected models) |

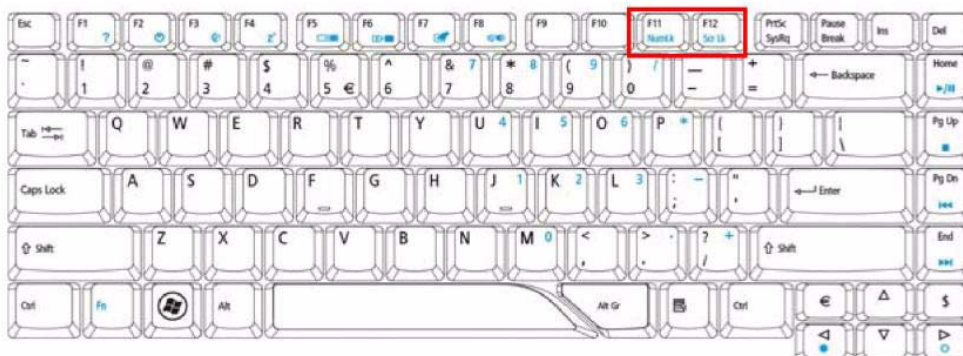
**NOTE:** When using the touchpad, keep it - and your fingers - dry and clean. The touchpad is sensitive to finger movements; hence, the lighter the touch, the better the response. Tapping too hard will not increase the touchpad's responsiveness.

# Using the Keyboard

The keyboard has full-sized keys and an embedded keypad, separate cursor keys, two Windows keys and twelve function keys.

## Lock Keys and embedded numeric keypad

The keyboard has three lock keys which you can toggle on and off.






















| Lock key                    | Description  |
|-----------------------------|--|
| Caps Lock                   | When Caps Lock is on, all alphabetic characters typed are in uppercase.  |
| Num Lock<br><Fn> + <F11>    | When Num Lock is on, the embedded keypad is in numeric mode. The keys function as a calculator (complete with the arithmetic operators +, -, *, and /). Use this mode when you need to do a lot of numeric data entry. A better solution would be to connect an external keypad. |
| Scroll Lock<br><Fn> + <F12> | When Scroll Lock is on, the screen moves one line up or down when you press the up or down arrow keys respectively. Scroll Lock does not work with some applications.  |

The embedded numeric keypad functions like a desktop numeric keypad. It is indicated by small characters located on the upper right corner of the keycaps. To simplify the keyboard legend, cursor-control key symbols are not printed on the keys.

| Desired access                         | Num Lock on  | Num Lock off                               |
|--|--|--|
| Number keys on embedded keypad         | Type numbers in a normal manner.                   |  |
| Cursor-control keys on embedded keypad | Hold <Shift> while using cursor-control keys.      | Hold <Fn> while using cursor-control keys. |
| Main keyboard keys                     | Hold <Fn> while typing letters on embedded keypad. | Type the letters in a normal manner.       |

# Windows Keys

The keyboard has two keys that perform Windows-specific functions.

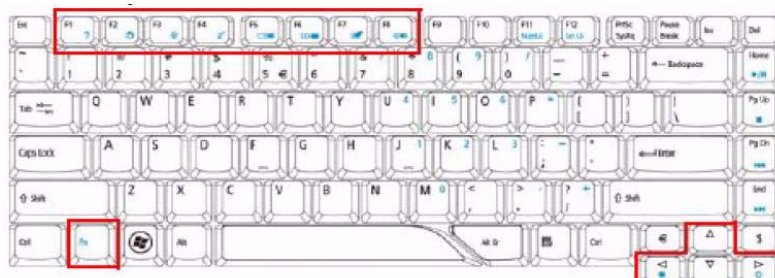
| Key   | Description   |
|---|---|
|  Windows key       | <p>Pressed alone, this key has the same effect as clicking on the Windows Start button; it launches the Start menu.</p> <p>It can also be used with other keys to provide a variety of functions:</p> <ul style="list-style-type: none"><li>&lt;  &gt; : Open or close the Start menu</li><li>&lt;  &gt; + &lt;D&gt;: Display the desktop</li><li>&lt;  &gt; + &lt;E&gt;: Open Windows Explore</li><li>&lt;  &gt; + &lt;F&gt;: Search for a file or folder</li><li>&lt;  &gt; + &lt;G&gt;: Cycle through Sidebar gadgets</li><li>&lt;  &gt; + &lt;L&gt;: Lock your computer (if you are connected to a network domain), or switch users (if you're not connected to a network domain)</li><li>&lt;  &gt; + &lt;M&gt;: Minimizes all windows</li><li>&lt;  &gt; + &lt;R&gt;: Open the Run dialog box</li><li>&lt;  &gt; + &lt;T&gt;: Cycle through programs on the taskbar</li><li>&lt;  &gt; + &lt;U&gt;: Open Ease of Access Center</li><li>&lt;  &gt; + &lt;X&gt;: Open Windows Mobility Center</li><li>&lt;  &gt; + &lt;BREAK&gt;: Display the System Properties dialog box</li><li>&lt;  &gt; + &lt;SHIFT+M&gt;: Restore minimized windows to the desktop</li><li>&lt;  &gt; + &lt;TAB&gt;: Cycle through programs on the taskbar by using Windows Flip 3-D</li><li>&lt;  &gt; + &lt;SPACEBAR&gt;: Bring all gadgets to the front and select Windows Sidebar</li><li>&lt;CTRL&gt; + &lt;  &gt; + &lt;F&gt;: Search for computers (if you are on a network)</li><li>&lt;CTRL&gt; + &lt;  &gt; + &lt;TAB&gt;: Use the arrow keys to cycle through programs on the taskbar by using Windows Flip 3-D</li></ul> <p><b>Note:</b> Depending on your edition of Windows Vista or Windows XP, some shortcuts may not function as described.</p> |
|  Application key | <p>This key has the same effect as clicking the right mouse button; it opens the application's context menu.</p>  |



# Hot Keys

The computer employs hotkeys or key combinations to access most of the computer's controls like screen brightness, volume output and the BIOS utility.

To activate hotkeys, press and hold the **<Fn>** key before pressing the other key in the hotkey combination.



| Hotkey      | Icon           | Function               | Description   |
|-------------|----------------|------------------------|---|
| <Fn> + <F1> | ?              | Hotkey help            | Displays help on hotkeys.   |
| <Fn> + <F2> |                | Acer eSettings         | Launches Acer eSettings in Acer Empowering Technology.  |
| <Fn> + <F3> |                | Acer ePower Management | Launches Acer ePower Management in Acer Empowering Technology.                                |
| <Fn> + <F4> | Z <sup>z</sup> | Sleep                  | Puts the computer in Sleep mode.  |
| <Fn> + <F5> |                | Display toggle         | Switches display output between the display screen, external monitor (if connected) and both. |
| <Fn> + <F6> |                | Screen blank           | Turns the display screen backlight off to save power. Press any key to return.                |
| <Fn> + <F7> |                | Touchpad toggle        | Turns the internal touchpad on and off.   |
| <Fn> + <F8> |                | Speaker toggle         | Turns the speakers on and off.  |
| <Fn> + <->> |                | Brightness up          | Increases the screen brightness.  |
| <Fn> + <<-> |                | Brightness down        | Decreases the screen brightness.  |

---

## Special Key

You can locate the Euro symbol and US dollar sign at the upper-center and/or bottom-right of your keyboard. To type:



### The Euro symbol

1. Open a text editor or word processor.
2. Either directly press the < € > symbol at the bottom-right of the keyboard, or hold <Alt Gr> and then press the <5> symbol at the upper-center of the keyboard.

**NOTE:** Some fonts and software do not support the Euro symbol. Please refer to [www.microsoft.com/typography/faq/faq12.htm](http://www.microsoft.com/typography/faq/faq12.htm) for more information.

### The US dollar sign

1. Open a text editor or word processor.
2. Either directly press the < \$ > key at the bottom-right of the keyboard, or hold <Shift> and then press the <4> key at the upper-center of the keyboard.

**NOTE:** This function varies by the operating system version.

---

# Acer Empowering Technology

Acer's innovative Empowering Technology makes it easy for you to access frequently used functions and manage your new Acer notebook. It features the following handy utilities:

- ❑ Acer eAudio Management allows you to easily control the enhanced sound effects of Dolby Home Theater on your system.
- ❑ Acer ePower Management optimizes battery usage via customizable power plans.
- ❑ Acer eDataSecurity Management protects data with passwords and encryption (for selected models).
- ❑ Acer eRecovery Management backs up and recovers data flexibly, reliably and completely.
- ❑ Acer eSettings Management accesses system information and adjusts settings easily.



For more information, press the < *e* > key to launch the Empowering Technology menu, then click on the appropriate utility and select the Help or Tutorial function.

## Empowering Technology password

You must set the Empowering Technology password to use the password protection feature of Acer eRecovery Management to protect your data.

To set the Empowering Technology password:

1. Launch Acer eRecovery Management.
2. Click the Restore tab.
3. Click Password settings. The Empowering Technology Password Center dialog box pops up.
4. Click Create a new password.



5. In the Create a New Password dialog box, key in and confirm your password in the appropriate boxes. Your password should have a minimum of 4 and a maximum of 12 characters.
6. Enter a password hint that will help you remember your password.
7. Make sure the box Use for Acer eRecovery Management is checked.
8. Click OK to set the password.

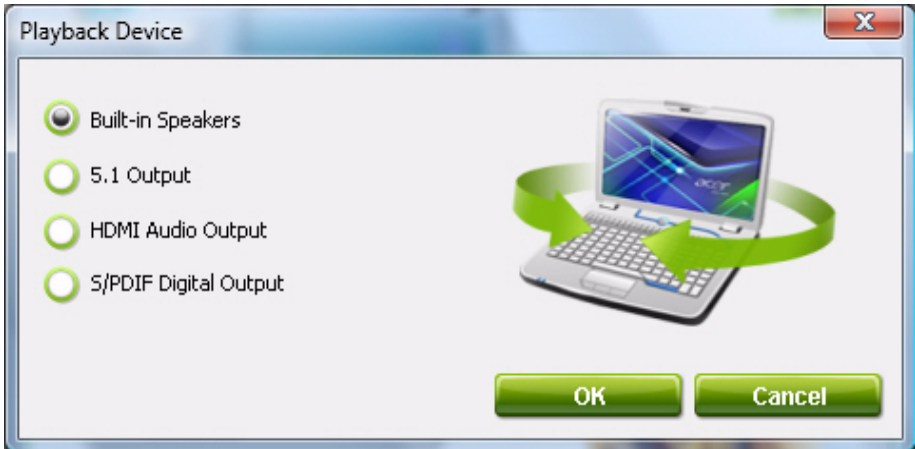


# Acer eAudio Management

Acer eAudio Management allows you to easily control the enhanced sound effects of Dolby Home Theater on your system. Select Movie or Game mode to experience the awesome realism of 5.1-channel audio output from the speakers fitted to your system via Dolby Surround sound technology. Music mode lets you enjoy your favorite tunes, in vivid detail.



To choose your playback device, click the icon on the upper right side of the Acer eAudio Management window.



---

## Acer ePower Management

Acer ePower Management features a straightforward user interface for configuring your power management options. To access this utility, select Acer ePower Management from the Empowering Technology toolbar, run the program from the Acer Empowering Technology program group in Start menu, or right-click the Windows power icon in the system tray and select Acer ePower Management.

### AC Mode (Adapter mode)

The default setting is “Maximum Performance.” You can adjust CPU speed, LCD brightness and other settings, or click on buttons to turn the following functions on/off: Wireless LAN, Bluetooth, CardBus, FireWire (1394), Wired LAN and Optical Device if supported.

### DC Mode (Battery mode)

There are four pre-defined profiles - Entertainment, Presentation, Word Processing, and Battery Life. You can also define up to three of your own.

### To create new power profile

1. Change power settings as desired.
2. Click “**Save as...**” to save to a new power profile.
3. Name the newly created profile.
4. Select whether this profile is for Adapter or Battery mode, then click **OK**.
5. The new profile will appear in the profile list.

## Battery status

For real-time battery life estimates based on current usage, refer to the panel on the lower left-hand side of the window.



For additional options, click “**Settings**” to:

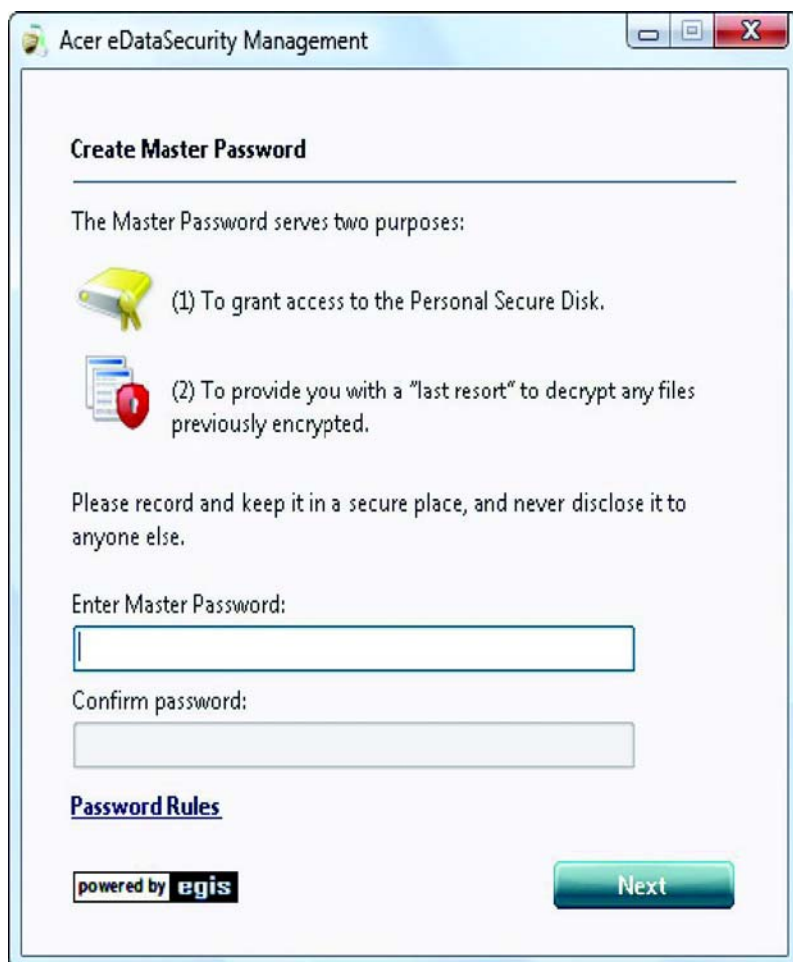
- ☐ Set alarms.
- ☐ Re-load factory defaults.
- ☐ Select what actions will be taken when the cover is closed or the power button is pressed.
- ☐ View information about Acer ePower Management.

## Acer eDataSecurity Management (for selected models)

Acer eDataSecurity Management is an encryption utility that protects your files from being accessed by unauthorized persons. It is conveniently integrated with Windows Explorer as a shell extension for quick data encryption/decryption and also supports on-the-fly file encryption for Lotus Notes and Microsoft Outlook.

On first use, the Acer eDataSecurity Management setup wizard will prompt you to create the Master Password. You will use this password to access the Personal Secure Disk (PSD). The Master Password may also be used to encrypt/decrypt files by default.

If you set a different password to encrypt a file, but you forgot the encryption password, you can use the Master Password to decrypt the file.



The screenshot shows a Windows-style dialog box titled "Acer eDataSecurity Management". The main heading is "Create Master Password". Below this, it states "The Master Password serves two purposes:" followed by two numbered points: (1) To grant access to the Personal Secure Disk, and (2) To provide you with a "last resort" to decrypt any files previously encrypted. Each point is accompanied by a small icon (a yellow folder for (1) and a red shield with a key for (2)). Below the list, it says "Please record and keep it in a secure place, and never disclose it to anyone else." There are two input fields: "Enter Master Password:" and "Confirm password:". At the bottom left, there is a "Password Rules" link and a "powered by egis" logo. At the bottom right, there is a "Next" button.

**Create Master Password**

The Master Password serves two purposes:

- (1) To grant access to the Personal Secure Disk.
- (2) To provide you with a "last resort" to decrypt any files previously encrypted.

Please record and keep it in a secure place, and never disclose it to anyone else.

Enter Master Password:

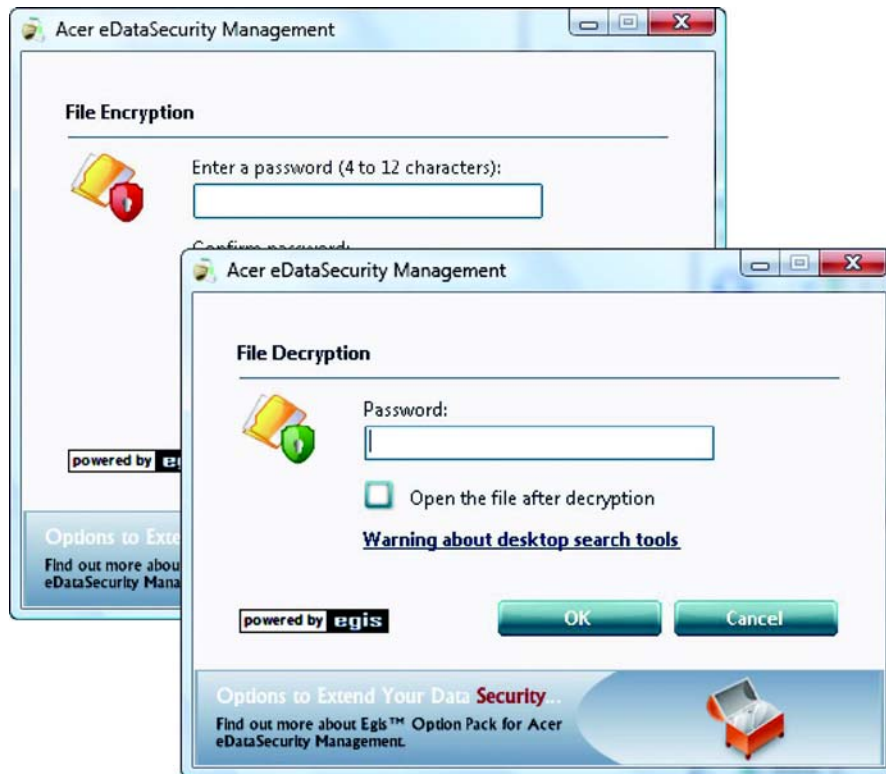
Confirm password:

[Password Rules](#)

powered by **egis**

Next





# Acer eRecovery Management

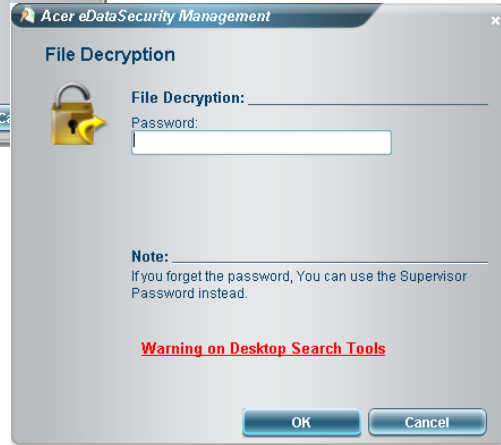
Acer eRecovery Management is a versatile backup utility. It allows you to create full or incremental backups, burn the factory default image to optical disc, and restore from previously created backups or reinstall applications and drivers. By default, user-created backups are stored to the D:\ drive.

Acer eRecovery Management provides you with:

- ❑ Backup:
  - Back up factory default to CD/DVD
  - Back up drivers and applications to CD/DVD
  - Create user backup
  - Manage user backups
- ❑ Restore:
  - Restore system to factory default
  - Reinstall applications/drivers
  - Restore system from user backup
  - Password settings

To use the password protection feature of Acer eRecovery Management to protect your data, you must first set the Empowering Technology password. To set the password, refer to the section "Empowering Technology password".



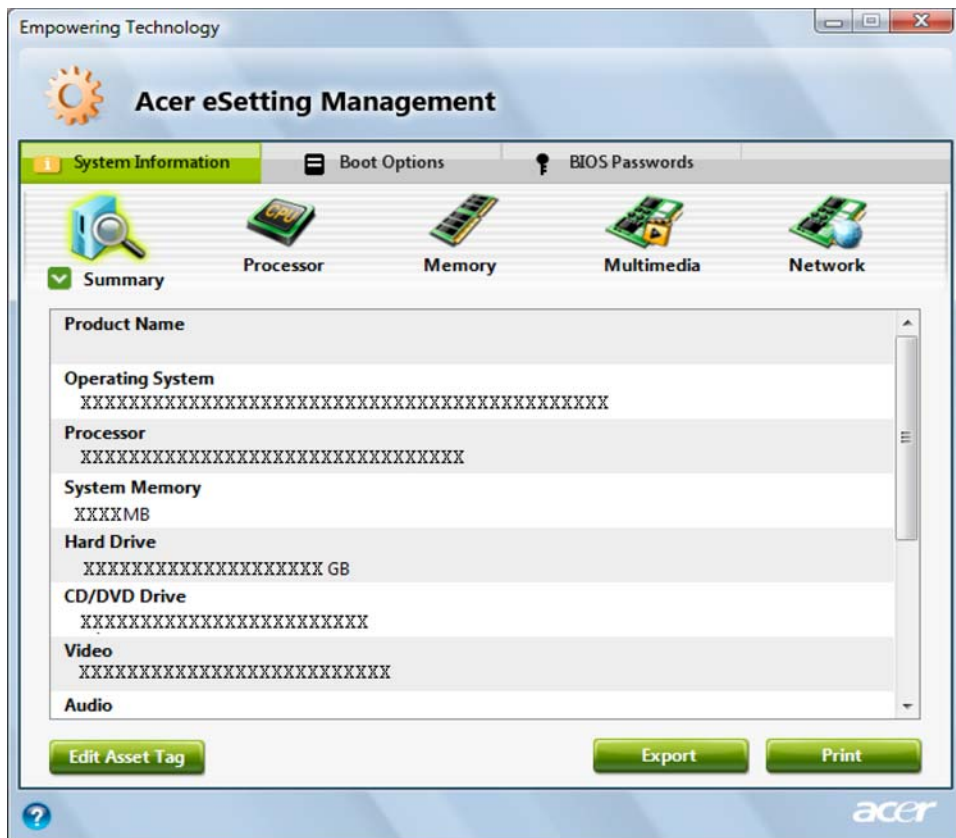


# Acer eSettings Management

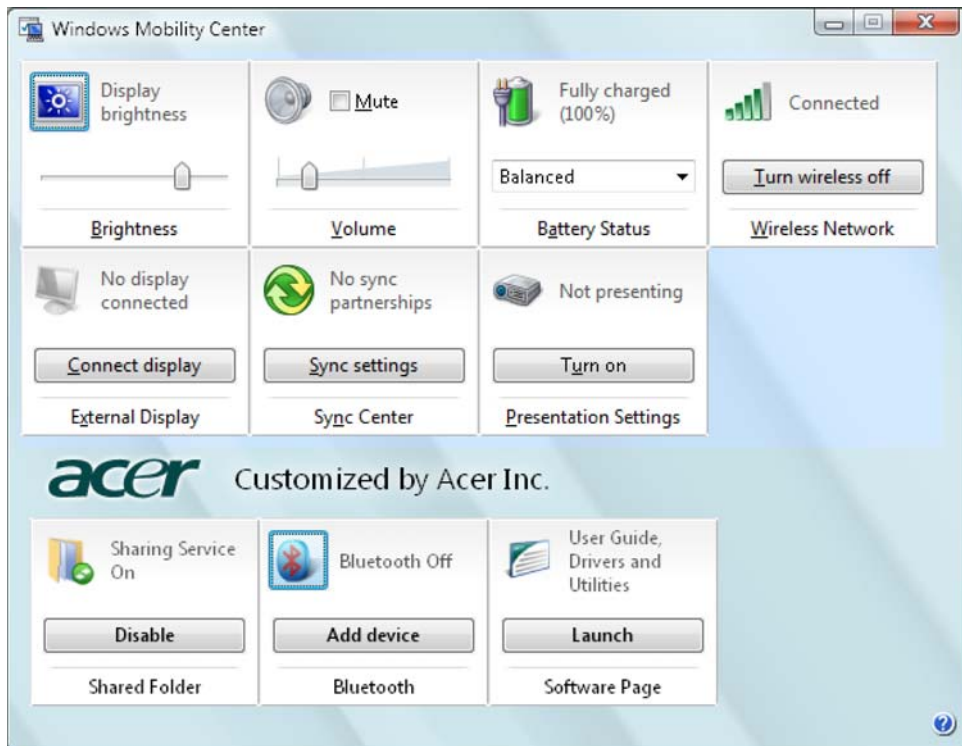
Acer eSettings Management allows you to inspect hardware specifications, set BIOS passwords and modify boot options.

Acer eSettings Management also:

- ☐ Provides a simple graphical user interface for navigation.
- ☐ Prints and saves hardware specifications.
- ☐ Lets you set an asset tag for your system.



## Windows Mobility Center



The Windows Mobility Center collects key mobile-related system settings in one easy-to-find place, so you can quickly configure your Acer system to fit the situation as you change locations, networks or activities. Settings include display brightness, volume, power plan, wireless networking on/off, external display settings, synchronization status and presentation settings.

Windows Mobility Center also includes Acer-specific settings like sharing folders overview/sharing service on or off, Bluetooth Add Device (if applicable), and a shortcut to the Acer user guide, drivers and utilities.

To launch Windows Mobility Center:

- ☐ Use the shortcut key < > + <X>.
- ☐ Start Windows Mobility Center from the Control panel.
- ☐ Start Windows Mobility Center from the Accessories program group in the Start menu.
- ☐ Launch Windows Mobility Center by right-clicking in the system tray and select Windows Mobility Center.

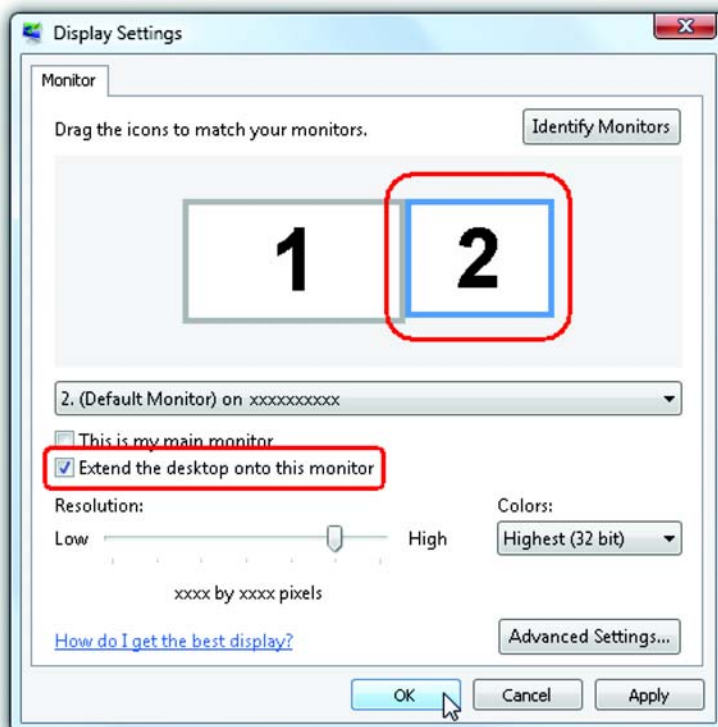
## Using the System Utilities

**NOTE:** The system utilities work under Microsoft Windows XP only.

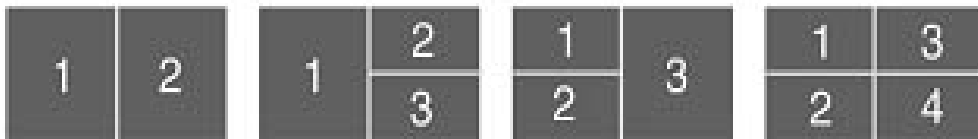
### Acer GridVista (dual-display compatible)

**NOTE:** This feature is only available on certain models.

To enable the dual monitor feature of the notebook, first ensure that the second monitor is connected, then select **Start, Control Panel, Display** and click on **Settings**. Select the secondary monitor (**2**) icon in the display box and then click the check box **Extend my windows desktop onto this monitor**. Finally, click **Apply** to confirm the new settings and click **OK** to complete the process.



Acer GridVista is a handy utility that offers four pre-defined display settings so you can view multiple windows on the same screen. To access this function, please go to **Start>All Programs** and click on **Acer GridVista**. You may choose any one of the four display settings indicated below:

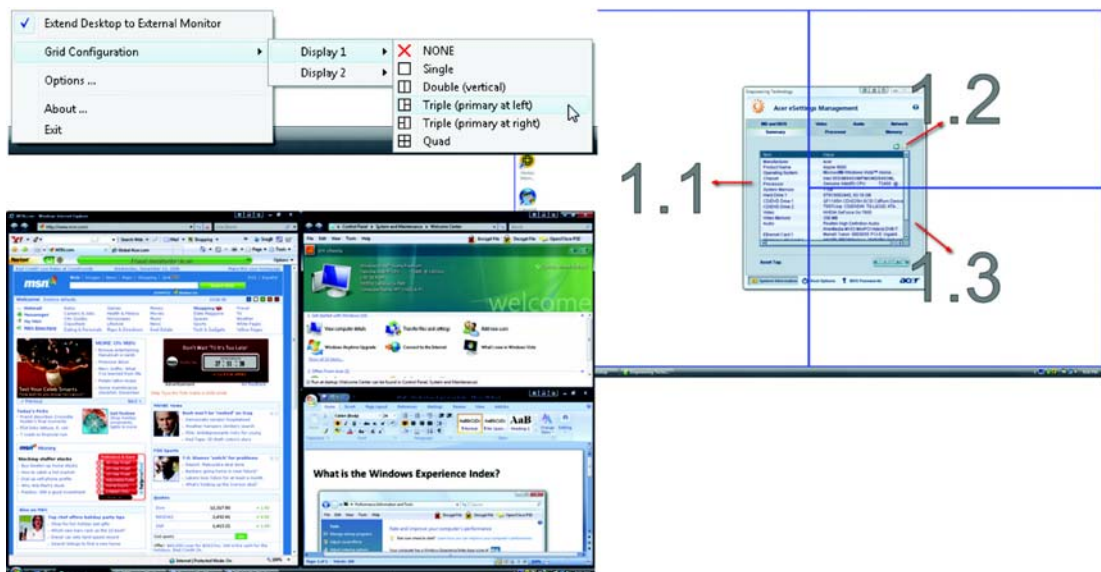


Double (verticle), Triple (primary at left), Triple (primary at right), or Quad Acer GridVista is dual-display compatible, allowing two displays to be partitioned indepently.

Acer Gridvista is dual-display compatible, allowing two displays to be partitioned independently.

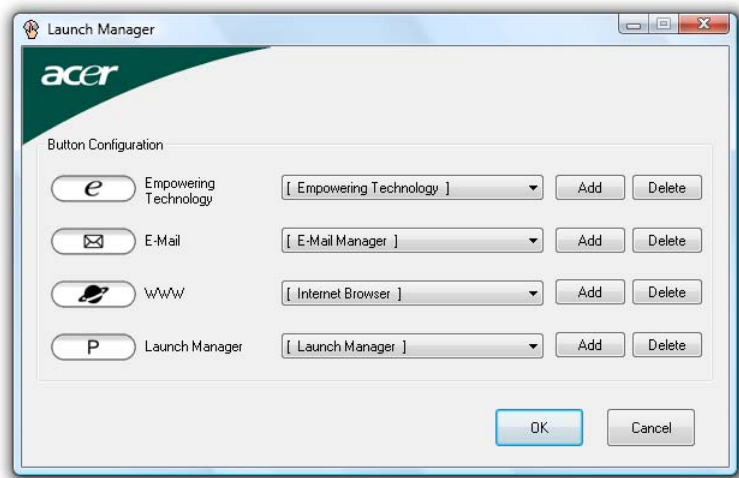
AcerGridVista is imple to set up:

1. Run Acer GridVista and select your preferred screen configuration for each display from the task bar.
2. Drag and drop each window into the appropriate grid.
3. Enjoy the convenience of a well-organized desktop.



**NOTE:** Please ensure that the resolution setting of the second monitor is set to the manufacturer's recommended value.

# Launch Manager



Launch Manager allows you to set the four easy-launch buttons located above the keyboard. You can access the Launch Manager by clicking on Start > All Programs > Launch Manager to start the application.



# Hardware Specification and Configurations

## Processor

| Item             | Specification   |
|------------------|---|
| CPU type         | Intel® Centrino® Duo mobile processor P7450/P8600/P8700/T6400/T6600/T9550 (Intel Penryn CPU)<br>Note: you can also refer to AVL C for more details. |
| Clock Speeds     | 2.0GHz-2.66GHz  |
| Front Side Bus   | 800MHz (for T6400/T6600)-1033MHz (for T9550/P7450/P8600/P8700/P9500)  |
| Core logic       | Intel 975PM/975GM + ICH8M   |
| CPU package      | uFCPGA, Socket P  |
| CPU core voltage | 0.944~1.3V  |

## Processor Specification

| #     | CPU Speed | Cores | Bus Speed | Mfg Tech. | Cache Size | Package     | Acer PN      |
|-------|-----------|-------|-----------|-----------|------------|-------------|--------------|
| P7450 | 2.0GHz    | 2     | 1066MHz   | 45nm      | 3MB        | Micro-FCPGA | KC.74501.DPP |
| P8600 | 2.4GHz    |       | 1066MHz   | 45nm      | 3MB        | Micro-FCPGA | KC.86R01.DPP |
| P8700 | 2.53GHZ   |       | 1066MHz   | 45nm      | 3MB        | Micro-FCPGA | KC.87R01.DPP |
| P9500 | 2.53GHz   |       | 1066MHz   | 45nm      | 6MB        | Micro-FCPGA | KC.95001.DPP |
| T6400 | 2.0GHz    |       | 800MHz    | 45nm      | 3MB        | Micro-FCPGA | KC.64001.DTP |
| T6600 | 2.2GHz    |       | 800MHz    | 45nm      | 2MB        | Micro-FCPGA | KC.66001.DTP |
| T9550 | 2.66GHz   |       | 1066MHz   | 45nm      | 6MB        | Micro-FCPGA | KC.95501.DTP |

## Second Level Cache

| Item                    | Specification                  |
|-------------------------|--------------------------------|
| Cache controller        | Built-in CPU                   |
| Cache size              | 2 (for T6400) 3 (for P7450)6MB |
| 1st level cache control | Always enabled                 |
| 2st level cache control | Always enabled                 |
| Cache scheme control    | Fixed in write-back            |

## System Memory

| Item              | Specification             |
|-------------------|---------------------------|
| Memory controller | Intel PM975 / Intel GM975 |
| Memory size       | 0MB (no on-board memory)  |

| Item                            | Specification         |
|---------------------------------|-----------------------|
| DIMM socket number              | 2 sockets             |
| Supports memory size per socket | 2GB                   |
| Supports maximum memory size    | 4GB                   |
| Supports DIMM type              | DDR3 Synchronous DRAM |
| Supports DIMM Speed             | 1066 MHz              |
| Supports DIMM voltage           | 1.8V and 0.9V         |
| Supports DIMM package           | 200-pin soDIMM        |

## Lan Interface

| Item                   | Specification                             |
|------------------------|---|
| Chipset                | ATHEROS_AR8121                            |
| Supports LAN protocol  | 10/100/1000 Ethernet                      |
| PCI-E Giga             |   |
| LAN connector type     | RJ45                                      |
| LAN connector location | Left side                                 |
| Features               | Integrated 10/100/1000 BASE-T transceiver |

## Modem Interface

| Item                            | Specification |
|---------------------------------|---------------|
| Data modem data baud rate (bps) | 56K           |
| Supports modem protocol         | V.92          |
| Modem connector type            | RJ11          |
| Modem connector location        | Left side     |

## Bluetooth Interface

| Item            | Specification  |
|-----------------|--|
| Chipset         | Built-in ICH8M   |
| Data throughput | 723 bps (full speed data rate)   |
| Protocol        | Bluetooth 1.1 (Upgradeable to Bluetooth 1.2 when SIG specification is ratified). |
| Interface       | USB 2.0  |
| Connector type  | USB  |

## Hard Disk Drive Interface

| Item   | Specification  | Specification   | Specification   |
|--|--|---|---|
| Vendor & Model Name                              | <ul style="list-style-type: none"><li>• HGST HTS541680J9SA00</li><li>• WD WD800BEVS-22RST0</li></ul> | <ul style="list-style-type: none"><li>• Seagate ST9120822AS</li><li>• Toshiba MK1237GSX</li><li>• HGST HTS541612J9SA00</li><li>• WD WD1200BEVS-22RST0</li></ul> | <ul style="list-style-type: none"><li>• TOSHIBA MK1637GSX</li><li>• Seagate ST9120822AS</li><li>• HGST HTS541616J9SA00</li><li>• WD WD1600BEVS-22RST0</li></ul> |
| Capacity (MB)                                    | 80000  |   |   |
| Bytes per sector                                 | 512  |   |   |
| Data heads                                       | 2  |   |   |
| 4 for Toshiba and HGST                           | 4  |   |   |
| Drive Format                                     |  |   |   |
| Disks  | 1  |   |   |
| Spindle speed (RPM)                              | 5400 RPM   |   |   |
| Performance Specifications                       |  |   |   |
| Buffer size                                      | 8M   |   |   |
| Interface  | SATA   |   |   |
| Max. media transfer rate (disk-buffer, Mbytes/s) | 100, 150   |   |   |
| Data transfer rate (host~buffer, Mbytes/s)       |  |   |   |
| Ultra DMA mode-5                                 | 100 MB/Sec.  |   |   |
| DC Power Requirements                            |  |   |   |
| Voltage tolerance                                | 5V(DC) +/- 5%  |   |   |

## DVD-Super Multi Interface

| Item                      | Specification   |
|---------------------------|---|
| Vendor & model name       | TOSHIBA 8X TS-L632D<br>PHILIPS 8X DS-8A1P<br>HLDS 8X GSA-T20N |
| Performance Specification | With CD Diskette  |
| Transfer rate (KB/sec)    | Sustained:Max 3.6Mbytes/sec<br>Sustained:Max 10.8Mbytes/sec   |
| Buffer Memory             | 2MB   |
| Interface                 | Enhanced IDE(ATAPI) compatible                                |
| Applicable disc format    |   |

| Item                 | Specification  |
|----------------------|--|
| Support disc formats | 1. Reads data in each CD-ROM, CD-ROM XA, CD-1, Video CD, CD-Extra and CD-Plus<br>2. Reads data in super Audio CD (SACD) Hybrid type<br>3. Reads standard CD-DA<br>4. Reads and writes CD-R discs<br>5. Reads and writes CD-RW and HSRW discs<br>6. Reads and writes US & US+RW<br>7. Reads data in each DVD-ROM and DVD-Dual<br>8. Reads and writes in each DVD-R (Ver. 2.0 for general), DVD-RW and DVD+R/RW (Ver1.1)<br>9. Reads and writes DVD+R Dual<br>10. Reads and writes DVD-RAM |
| Loading mechanism    | Load: Manual<br>Release: (a) Electrical Release (Release Button)<br>(b) Release by ATAPI command<br>(c) Emergency Release  |
| Power Requirement    |  |
| Input Voltage        | 5 V +/- 5 % (Operating)  |

### Audio Interface

| Item                        | Specification   |
|-----------------------------|---|
| Audio Controller            | Realtek ALC889X   |
| Audio onboard or optional   | Built-in  |
| Mono or Stereo              | Stereo  |
| Resolution                  | 24 bit stereo full duplex                                 |
| Compatibility               | HD audio Interface; S/PDIF output for PCM or AC-3 content |
| Sampling rate               | 1Hz resolution VSR (Variable Sampling Rate)               |
| Internal microphone         | Yes   |
| Internal speaker / Quantity | Yes/2(3W speakers)  |
| Supports PnP DMA channel    | DMA channel 0, DMA channel 1                              |
| Supports PnP IRQ            | IRQ10, IRQ11  |

### Video Interface

| Item    | Specification       |
|---------|---------------------|
| Chipset | Acer MXM compatible |

---

## USB Port

| Item                         | Specification                                 |
|------------------------------|---|
| Chipset                      | Built-in ICH8M                                |
| USB Compliancy Level         | 2   |
| OHCI                         | USB 1.1 and USB 2.0 Host controller           |
| Number of USB port           | 4   |
| Location                     | One on the left side; three on the right side |
| Serial port function control | Enable/Disable by BIOS Setup                  |

## Express Card Interface

| Item                    | Specification    |
|-------------------------|------------------|
| Express card controller | Built-in ICH8M   |
| Supports card type      | 75mmx54mm(W)x5mm |
| Number of slots         | One              |
| Access location         | Left Side        |
| Interface               | PCI Express      |

## System Board Major Chips

| Item                  | Specification             |
|-----------------------|---------------------------|
| Core logic            | Intel PM975/GM975 + ICH8M |
| VGA                   | Acer MXM compatible       |
| LAN                   | ATHEROS_AR8121            |
| USB 2.0               | Built in ICH8M            |
| CardReader            | Jmicro JMB385             |
| MODEM                 | Foxconn T60M951           |
| Bluetooth             | Foxconn T60H928.01        |
| Wireless 802.11 a+b+g | Built-in ICH8-M           |
| Audio                 | Realtek ALC889X           |

## Keyboard

| Item   | Specification                                   |
|--|---|
| Keyboard controller                              | ITE 8512E                                       |
| Total number of keypads                          | 88-/89-key                                      |
| Windows logo key                                 | Yes   |
| Internal & external keyboard work simultaneously | Plug USB keyboard to the USB port directly: Yes |

## Battery

| Item                   | Specification                                |  |
|------------------------|--|--|
| Vendor & Model Name    | BATTERY PACK SANYO LI-ION 8 CELL2.4, 4800MAH | BATTERY PACK SONY LI-ION 8CELL2.4, 4800MAH |
| Battery Type           | Li-ion                                       |  |
| Pack capacity          | 4800 mAh                                     |  |
| Number of battery cell | 8 cell                                       |  |
| Package configuration  | 4 cells in series, 2 series in parallel      |  |
| Normal voltage         | 14.8V  |  |
| Charge voltage         | 16.8+-0.2V                                   |  |

## LCD 16.0" inch

| Item   | Specification               |
|--|-----------------------------|
| Vendor & model name                                    | Samsung LTN160AT01-A01      |
| Screen Diagonal (mm)                                   | 16.0 inches                 |
| Active Area (mm)                                       | 353.45(H) x 198.72(V) mm    |
| Display resolution (pixels)                            | 1366x768 WXGA               |
| Pixel Pitch  | 0.25875 (H) x 0.25875(V) mm |
| Pixel Arrangement                                      | R.G.B. Vertical Stripe      |
| Display Mode   | Normally White              |
| Typical White Luminance (cd/m2) also called Brightness | 300                         |
| Luminance Uniformity                                   | N/A                         |
| Contrast Ratio   | 600                         |
| Response Time (Optical Rise Time/Fall Time)msec        | 8                           |
| Nominal Input Voltage VDD                              | +3.3V                       |
| Typical Power Consumption (watt)                       | 4.5W                        |
| Weight(g)  | 550g                        |
| Physical Size(mm)                                      | 365x214x6.5                 |
| Electrical Interface                                   | Dual channel LVDS           |
| Support Color  | 262,144                     |

| Item                   | Specification |
|------------------------|---------------|
| Viewing Angle (degree) |               |
| Horizontal: Right/Left | 65/65         |
| Vertical: Upper/Lower  | 50/50         |
| Temperature Range(°C)  |               |
| Operating              | 0 to +50      |
| Storage (shipping)     | -20 to +60    |

### LCD Inverter

| Item                            | Specification             |
|---------------------------------|---------------------------|
| Vendor & model name             | TDK                       |
| Brightness conditions           | N/A                       |
| Input voltage (V)               | 9~20V                     |
| Input current (mA)              | 360mA (max)               |
| Output voltage (V, rms)         | 710V (1800V for kick off) |
| Output current (mA, rms)        | 6.5mA (max)               |
| Output voltage frequency (k Hz) | 58 KHz (max)              |

### AC Adaptor

| Item                     | Specification                    |
|--------------------------|----------------------------------|
| Input rating             | 100V AC to 240V AC, 47Hz to 63Hz |
| Maximum input AC current | 1.5A                             |
| Inrush current           | 50A@115VAC<br>100A@230VAC        |
| Efficiency               | 85% min. @115VAC input full load |

### System Power Management

| ACPI mode           | Power Management   |
|---------------------|--|
| Mech. Off (G3)      | All devices in the system are turned off completely  |
| Soft Off (G2/S5)    | OS initiated shutdown. All devices in the system are turned off completely   |
| Working (G0/S0)     | Individual devices such as the CPU and hard disc may be power managed in this state  |
| Suspend to RAM (S3) | CPU set power down<br>VGA Suspend<br>PCMCIA Suspend<br>Audio Power Down<br>Hard Disk Power Down<br>CD-ROM Power Down<br>Super I/O Low Power mode |
| Save to Disk (S4)   | Also called Hibernation Mode. System saves all system states and data onto the disc prior to power off the whole system                          |





# System Utilities

## BIOS Setup Utility

The BIOS Setup Utility is a hardware configuration program built into your computer's BIOS (Basic Input/Output System).

Your computer is already properly configured and optimized, and you do not need to run this utility. However, if you encounter configuration problems, you may need to run Setup. Please also refer to Chapter 4 Troubleshooting when problem arises.

To activate the BIOS Utility, press **m** during POST (when "Press <F2> to enter Setup" message is prompted on the bottom of screen).

Press **m** to enter setup. The default parameter of F12 Boot Menu is set to "disabled". If you want to change boot device without entering BIOS Setup Utility, please set the parameter to "enabled".

Press <F12> during POST to enter multi-boot menu. In this menu, user can change boot device without entering BIOS SETUP Utility.

| InsydeH2O Setup Utility  |      | Rev. 3.0                    |
|--|------|-----------------------------|
| <b>Information</b>   | Main | Advanced Security Boot Exit |
| <p>CPU Type: Genuine Intel( R ) CPU</p> <p>CPU Speed: T2300 @ 1.66GHz</p> <p>IDE 0 Model Name: (Note1) ST960821A-(PM)</p> <p>IDE0 Serial Number:(Note1) 3LF005DB</p> <p>ATAPI Model Name: MATSHITADVD</p> <p>ATAPI Serial Number:</p> <p>System BIOS Version: V1.00</p> <p>VGA BIOS Version: ATI V008.050I.0-26.00</p> <p>Serial Number: xxxxxxxxxxxxxxxxxxxxxx (Max: 22 Byte)</p> <p>Asset Tag Number: xxxxxxxxxxxxxxxxxxxxxx (Max: 32 Byte)</p> <p>Product Name: xxxxxxxxxxxxxxxxxxxxxx (Max: 16 Byte)</p> <p>Manufacturer Name: Acer</p> <p>UUID: xxxxxxxxxxxxxxxxxxxxxx (Max: 16 Byte)</p> |      |                             |
| <p>F1 Help    ↑↓ Select Item    F5/F6 Change Values    F9 Setup defaults</p> <p>Esc Exit    ←→ Select Menu    Enter Select    ▶ Sub-Menu    F10 Save and Exit</p>  |      |                             |

---

## Invoking BIOS Setup

The setup function can only be invoked by pressing F2 when Press <F2> to enter Setup message is prompted on the bottom of screen during POST.

The setup uses a menu driven interface to allow the user to configure their system. The features are divided into 6 parts as follows:

|             |  |
|-------------|--|
| Information | Display the system informations.                                 |
| Main        | Allows the user to specify standard IBM PC AT system parameters. |
| Advanced    | Provides advanced settings of the system.                        |
| Security    | Provides security settings of the system.                        |
| Boot        | Allows the user to specify the boot options.                     |
| Exit        | Allows the user to save CMOS setting and exit Setup.             |

**NOTE:** You can change the value of a parameter if it is enclosed in square brackets. Navigation keys for a particular menu are shown on the bottom of the screen. Help for parameters are found in the Item Specific Help part of the screen. Read this carefully when making changes to parameter values.

**NOTE:** Please note that system information is subject to different models.

# Information

InsydeH2O Setup Utility

Rev. 3.0

Information

Main

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Exit

CPU Type:

Genuine Intel( R ) CPU

CPU Speed:

T2300 @ 1.66GHz

IDE 0 Model Name: *(Note1)*

ST960821A-(PM)

IDE0 Serial Number:*(Note1)*

3LF005DB

ATAPI Model Name:

MATSHITADVD

~~ATAPI Serial Number:~~

System BIOS Version:

V1.00

VGA BIOS Version:

ATI V008.050I.0-26.00

Serial Number:

xxxxxxxxxxxxxxxxxxxxxx (Max: 22 Byte)

Asset Tag Number:

xxxxxxxxxxxxxxxxxxxxxx (Max: 32 Byte)

Product Name:

xxxxxxxxxxxxxxxxxxxxxx (Max: 16 Byte)

Manufacturer Name:

Acer

UUID:

xxxxxxxxxxxxxxxxxxxxxx (Max: 16 Byte)

F1 Help

↑↓ Select Item

F5/F6 Change Values

F9 Setup defaults

Esc Exit

←→ Select Menu

Enter Select ▸ Sub-Menu

F10 Save and Exit

**NOTE:** The system information is subject to different models.

| ParameterItem      | Description   |
|--------------------|---|
| CPU Type           | This field shows the CPU type and speed of the system.  |
| IDE1 Model Name    | This field shows the model name of HDD installed on primary IDE master.   |
| IDE1 Serial Number | This field displays the serial number of HDD installed on primary IDE master.   |
| IDE2I Model Name   | This field displays the mofel name of devices installed on secondary IDE master. The hard disk drive or optical drive model name is automatically detected by the system. |
| IDE2 Serial Number | This field shows the serial number of devices installed on secondary IDE master.  |
| System BIOS ver    | Displays system BIOS version.   |
| VGA BIOS Ver       | This field displays the VGA firmware version of the system.   |
| KBC Ver            | This field shows the keyboard   |
| Serial Number      | This field displays the serial number of this unit.   |
| Asset Tag Number   | This field displays the asset tag number of the system.   |
| Product Name       | This field shows product name of the system.  |
| Manufacturer Name  | This field displays the manufacturer of this system.  |
| UUID Number        | This will be visible only when an internal LAN device is presenting.<br>UUID=32bytes  |

# Main

The Main screen displays a summary of your computer hardware information, and also includes basic setup parameters. It allows the user to specify standard IBM PC AT system parameters.

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System Time: [09:00:00]

System Date: [01/01/2003]

Total Memory [xxxxMB]

Video Memory: [8MB] (note2)

Quiet Boot: [Enabled]

Network boot: [Enabled]

F12 Boot Menu: [Disabled]

D2D Recovery: [Enabled]

Item specific Help

<Tab>, <Shift-Tab>, or

<Enter> selects field

F1 Help

↑↓ Select Item

F5/F6 Change Values

F9 Setup defaults

Esc Exit

←→ Select Menu

Enter Select ▸ Sub-Menu

F10 Save and Exit

**NOTE:** The screen above is for your reference only. Actual values may differ.

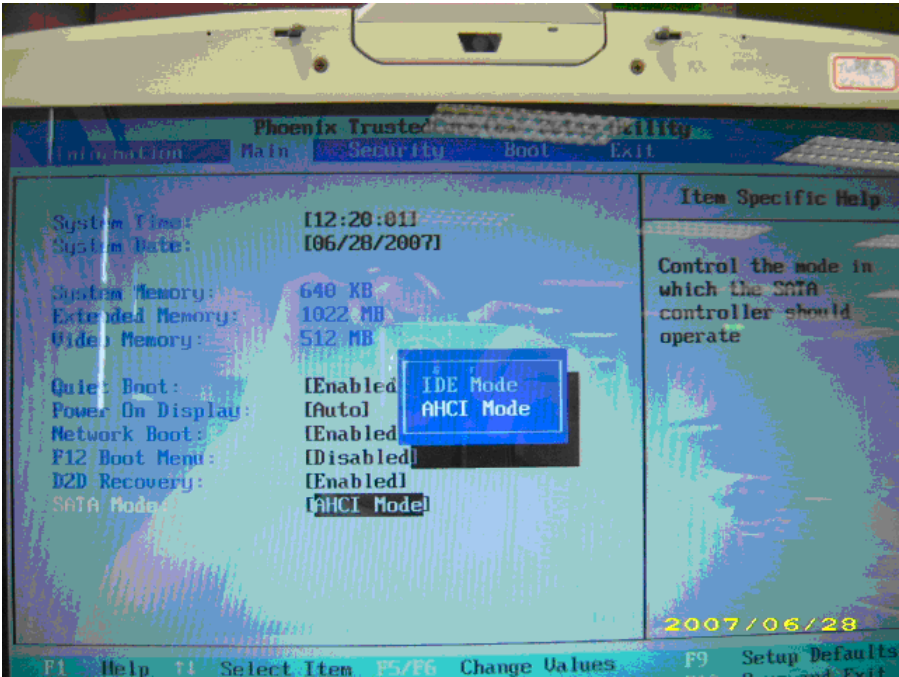
The table below describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

| Parameter        | Description  | Format/Option  |
|------------------|--|--|
| System Time      | Sets the system time. The hours are displayed with 24-hour format.   | Format: HH:MM:SS<br>(hour:minute:second) System Time |
| System Date      | Sets the system date.  | Format MM/DD/YYYY (month/day/year)<br>System Date    |
| System Memory    | This field reports the memory size of the system. Memory size is fixed to 640MB.   |  |
| Extended Memory  | This field reports the memory size of the extended memory in the system. Extended Memory size=Total memory size-1MB.   |  |
| VGA Memory       | Shows the VGA memory size. VGA Memory size=64/128MB.   |  |
| Quiet Boot       | Determines if Customer Logo will be displayed or not; shows Summary Screen is disabled or enabled.<br>Enabled: Customer Logo is displayed, and Summary Screen is disabled.<br>Disabled: Customer Logo is not displayed, and Summary Screen is enabled.   | Option: <b>Enabled</b> or Disabled                   |
| Power on display | Auto: During power process, the system will detect if any display device is connected on external video port. If any external display device is connected, the power on display will be in CRT (or projector) only mode. Otherwise it will be in LCD only mode.<br>Both: Simultaneously enable both the integrated LCD screen and the system's external video port (for an external CRT or projector). | Option: <b>Auto</b> or Both                          |
| Network Boot     | Enables, disables the system boot from LAN (remote server).  | Option: <b>Enabled</b> or Disabled                   |
| F12 Boot Menu    | Enables, disables Boot Menu during POST.   | Option: <b>Disabled</b> or Enabled                   |
| D2D Recovery     | Enables, disables D2D Recovery function. The function allows the user to create a hidden partition on hard disc drive to store operation system and restore the system to factory defaults.  | Option: <b>Enabled</b> or Disabled                   |

**NOTE:** The sub-items under each device will not be shown if the device control is set to disable or auto. This is because the user is not allowed to control the settings in these cases.

# Advanced

The Advanced screen displays advanced settings in BIOS.



The table below describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

| Parameter     | Description                              | Format/Option              |
|---------------|--|----------------------------|
| Serial port   | Displays the settings of the serial port | <b>Enabled</b> or Disabled |
| Parallel port | Shows the settings of the parallel port  | <b>Enabled</b> or Disabled |

# Security

The Security screen contains parameters that help safeguard and protect your computer from unauthorized use.

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Supervisor Password Is

Clear

User Password Is

Clear

HDD Password

Clear

Set Supervisor Password

[Enter]

Set User Password

[Enter]

Set HDD Password

[Enter]

Password on Boot:

[Disabled]

Item specific Help

Supervisor Password controls access to the whole setup utility. It can be used to boot up when Password on boot is enabled.

F1 Help

↑↓ Select Item

F5/F6 Change Values

F9 Setup defaults

Esc Exit

←→ Select Menu

Enter Select ▸ Sub-Menu

F10 Save and Exit

The table below describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

| Parameter               | Description  | Format/Option              |
|-------------------------|--|----------------------------|
| User Password is        | Shows the setting of the user password.  | <b>Clear</b> or Set        |
| Supervisor Password is  | Shows the setting of the Supervisor password.  | <b>Clear</b> or Set        |
| Set User Password       | Press Enter to set the user password. When user password is set, this password protects the BIOS Setup Utility from unauthorized access. The user can enter Setup menu only and does not have right to change the value of parameters.               |                            |
| Set Supervisor Password | Press Enter to set the supervisor password. When set, this password protects the BIOS Setup Utility from unauthorized access. The user can not either enter the Setup menu nor change the value of parameters.                                       |                            |
| HardDisk Security       | Enables or disables primary hard disk security function.   |                            |
| Password on Boot        | Defines whether a password is required or not while the events defined in this group happened. The following sub-options are all requires the Supervisor password for changes and should be grayed out if the user password was used to enter setup. | <b>Disabled</b> or Enabled |

**NOTE:** When you are prompted to enter a password, you have three tries before the system halts. Don't forget your password. If you forget your password, you may have to return your notebook computer to your dealer to reset it.



---

## Setting a Password

Follow these steps as you set the user or the supervisor password:

1. Use the **w** and **y** keys to highlight the Set Supervisor Password parameter and press the **e** key. The Set Supervisor Password box appears:

|                         |   |   |
|-------------------------|---|---|
| Set Supervisor Password |   |   |
| Enter New Password      | [ | ] |
| Confirm New Password    | [ | ] |

2. Type a password in the “Enter New Password” field. The password length can not exceeds 8 alphanumeric characters (A-Z, a-z, 0-9, not case sensitive). Retype the password in the “Confirm New Password” field.

**IMPORTANT:** Be very careful when typing your password because the characters do not appear on the screen.

3. Press **e**.  
After setting the password, the computer sets the User Password parameter to “Set”.
4. If desired, you can opt to enable the Password on boot parameter.
5. When you are done, press **u** to save the changes and exit the BIOS Setup Utility.

## Removing a Password

Follow these steps:

1. Use the **w** and **y** keys to highlight the Set Supervisor Password parameter and press the **e** key. The Set Password box appears:

|                         |   |   |
|-------------------------|---|---|
| Set Supervisor Password |   |   |
| Enter current password  | [ | ] |
| Enter New Password      | [ | ] |
| Confirm New Password    | [ | ] |

2. Type the current password in the Enter Current Password field and press **e**.
3. Press **e** twice **without** typing anything in the Enter New Password and Confirm New Password fields. The computer then sets the Supervisor Password parameter to “Clear”.
4. When you have changed the settings, press **u** to save the changes and exit the BIOS Setup Utility.

---

## Changing a Password

1. Use the **w** and **y** keys to highlight the Set Supervisor Password parameter and press the **e** key. The Set Password box appears:

|                         |                |
|-------------------------|----------------|
| Set Supervisor Password |                |
| Enter current password  | [            ] |
| Enter New Password      | [            ] |
| Confirm New Password    | [            ] |

2. Type the current password in the Enter Current Password field and press **e**.
3. Type a password in the Enter New Password field. Retype the password in the Confirm New Password field.
4. Press **e**. After setting the password, the computer sets the User Password parameter to "Set".
5. If desired, you can enable the Password on boot parameter.
6. When you are done, press **u** to save the changes and exit the BIOS Setup Utility.

If the verification is OK, the screen will display as following.

|                          |
|--------------------------|
| Setup Notice             |
| Changes have been saved. |
| [ continue]              |

The password setting is complete after the user presses **u**.

If the current password entered does not match the actual current password, the screen will show you the Setup Warning.

|                   |
|-------------------|
| Setup Warning     |
| Invalid password  |
| Re-enter Password |
| [ continue]       |

If the new password and confirm new password strings do not match, the screen will display the following message.

|                       |
|-----------------------|
| Setup Warning         |
| Password do not match |
| Re-enter Password     |

# Boot

This menu allows the user to decide the order of boot devices to load the operating system. Bootable devices includes the distette drive in module bay, the onboard hard disk drive and the CD-ROM in module bay.

|                                     |      |   |             |       |                   |     |                |
|-------------------------------------|------|---|-------------|-------|-------------------|-----|----------------|
| InsydeH2O Setup Utility             |      | Rev. 3.0  |             |       |                   |     |                |
| Information                         | Main | Advanced  | Security    | Boot  | Exit              |     |                |
| Boot priority order:                |      | Item specific Help  |             |       |                   |     |                |
| 1. IDE 0: ST960821A                 |      | Use <↑> or <↓> to select a device, then press <F6> to move it up the List, or <F5> to move it down the list. Press <Esc> to escape the menu |             |       |                   |     |                |
| 2. IDE 1: MATSHITADVD               |      |   |             |       |                   |     |                |
| 3. USB FDD:                         |      |   |             |       |                   |     |                |
| 4. Network Boot: Realtek Boot Agent |      |   |             |       |                   |     |                |
| 5. USB HDD:                         |      |   |             |       |                   |     |                |
| 6. USB KEY:                         |      |   |             |       |                   |     |                |
| 7. USB CDROM:                       |      |   |             |       |                   |     |                |
| F1                                  | Help | ↑↓  | Select Item | F5/F6 | Change Values     | F9  | Setup defaults |
| Esc                                 | Exit | ←→  | Select Menu | Enter | Select ▶ Sub-Menu | F10 | Save and Exit  |

# Exit

The Exit screen contains parameters that help safeguard and protect your computer from unauthorized use.

|  |                |          |   |       |                   |
|--|----------------|----------|---|-------|-------------------|
| InsydeH2O Setup Utility  |                |          |   |       | Rev. 3.0          |
| Information  | Main           | Advanced | Security                                | Boot  | Exit              |
| Exit Saving Changes<br>Exit Discarding Changes<br>Load Setup Defaults<br>Discard changes<br>Save changes |                |          | Item specific Help                      |       |                   |
|  |                |          | Exit System Setup and save your Changes |       |                   |
|  |                |          | Exit utility without saving Setup Data  |       |                   |
|  |                |          | Load default values for all SETUP item. |       |                   |
|  |                |          |   |       |                   |
| F1   | Help           | ↑↓       | Select Item                             | F5/F6 | Change Values     |
| F9   | Setup defaults |          |   |       |                   |
| Esc  | Exit           | ←→       | Select Menu                             | Enter | Select ▶ Sub-Menu |
| F10  | Save and Exit  |          |   |       |                   |

The table below describes the parameters in this screen.

| Parameter               | Description   |
|-------------------------|---|
| Exit Saving Changes     | Exit System Setup and save your changes to CMOS.    |
| Exit Discarding Changes | Exit utility without saving setup data to CMOS.     |
| Load Setup Default      | Load default values for all SETUP item.             |
| Discard Changes         | Load previous values from CMOS for all SETUP items. |
| Save Changes            | Save Setup Data to CMOS.                            |

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# BIOS Flash Utility

The BIOS flash memory update is required for the following conditions:

- ☐ New versions of system programs
- ☐ New features or options
- ☐ Restore a BIOS when it becomes corrupted

Use the Phlash utility to update the system BIOS flash ROM.

**NOTE:** If you do not have a crisis recovery diskette at hand, then you should create a **Crisis Recovery Diskette** before you use the Phlash utility.

**NOTE:** Do not install memory-related drivers (XMS, EMS, DPMI) when you use the Phlash.

**NOTE:** Please use the AC adaptor power supply when you run the Phlash utility. If the battery pack does not contain enough power to finish BIOS flash, you may not boot the system because the BIOS is not completely loaded.

Follow the steps below to run the Phlash.

1. Prepare a bootable diskette.
2. Copy the flash utilities to the bootable diskette.
3. Then boot the system from the bootable diskette. The flash utility has auto-execution function.

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# HDD unlock Utility

This section provide you with removing HDD password method.

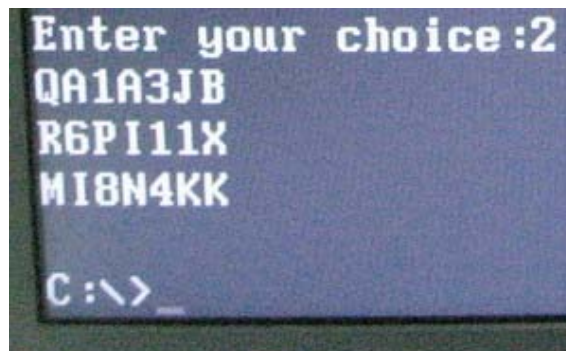
## Remove HDD Password:

If you key in wrong HDD password for three time, “HDD password error code” would display on the screen. See the image below.

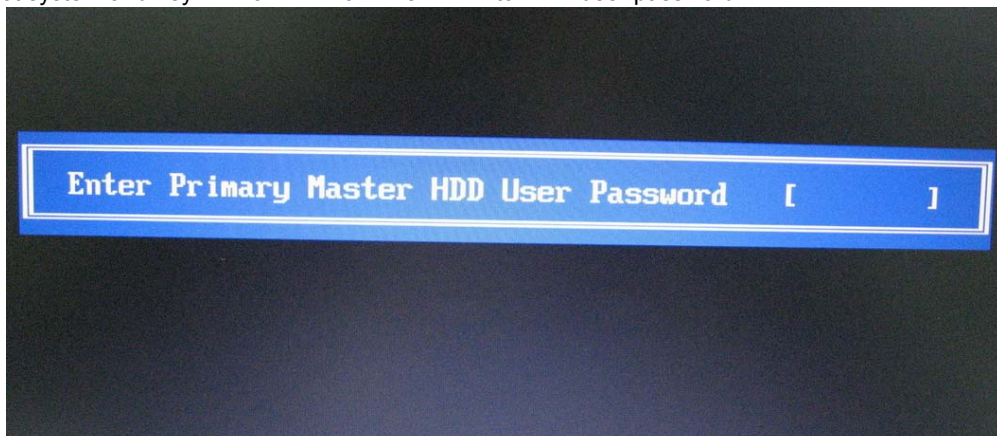
If you need to solve HDD password locked problem, you can run unlock6.EXE



1. Key in “unlock6 error code 205”
2. Select “2”
3. Choose one HDD password



Reboot system and key in “R6PI11X” or “MI8N4KK” to HDD user password.



Then the HDD password will be unlocked and will auto into Windows after reboot.

# Machine Disassembly and Replacement

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This chapter contains step-by-step procedures on how to disassemble the notebook computer Aspire 6935G for maintenance and troubleshooting.

To disassemble the computer, you need the following tools:

- ☐ Wrist grounding strap and conductive mat for preventing electrostatic discharge
- ☐ Small Philips screw driver
- ☐ Philips screwdriver
- ☐ Plastic flat head screw driver
- ☐ Tweezers

**NOTE:** The screws for the different components vary in size. During the disassembly process, group the screws with the corresponding components to avoid mismatch when putting back the components. When you remove the stripe cover, please be careful not to scrape the cover.

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# General Information

## Before You Begin

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

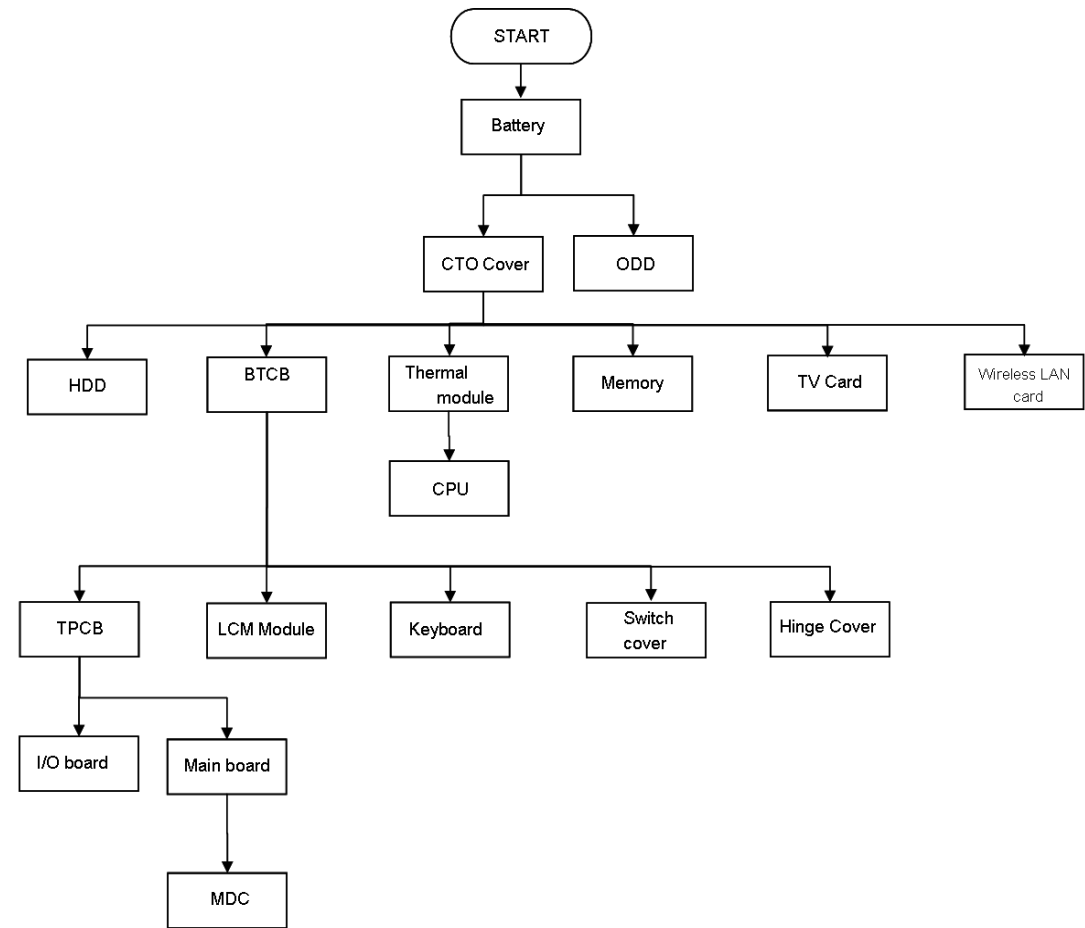
1. Turn off the power to the system and all peripherals.
2. Unplug the AC adapter and all power and signal cables from the system.
3. Remove the battery pack.



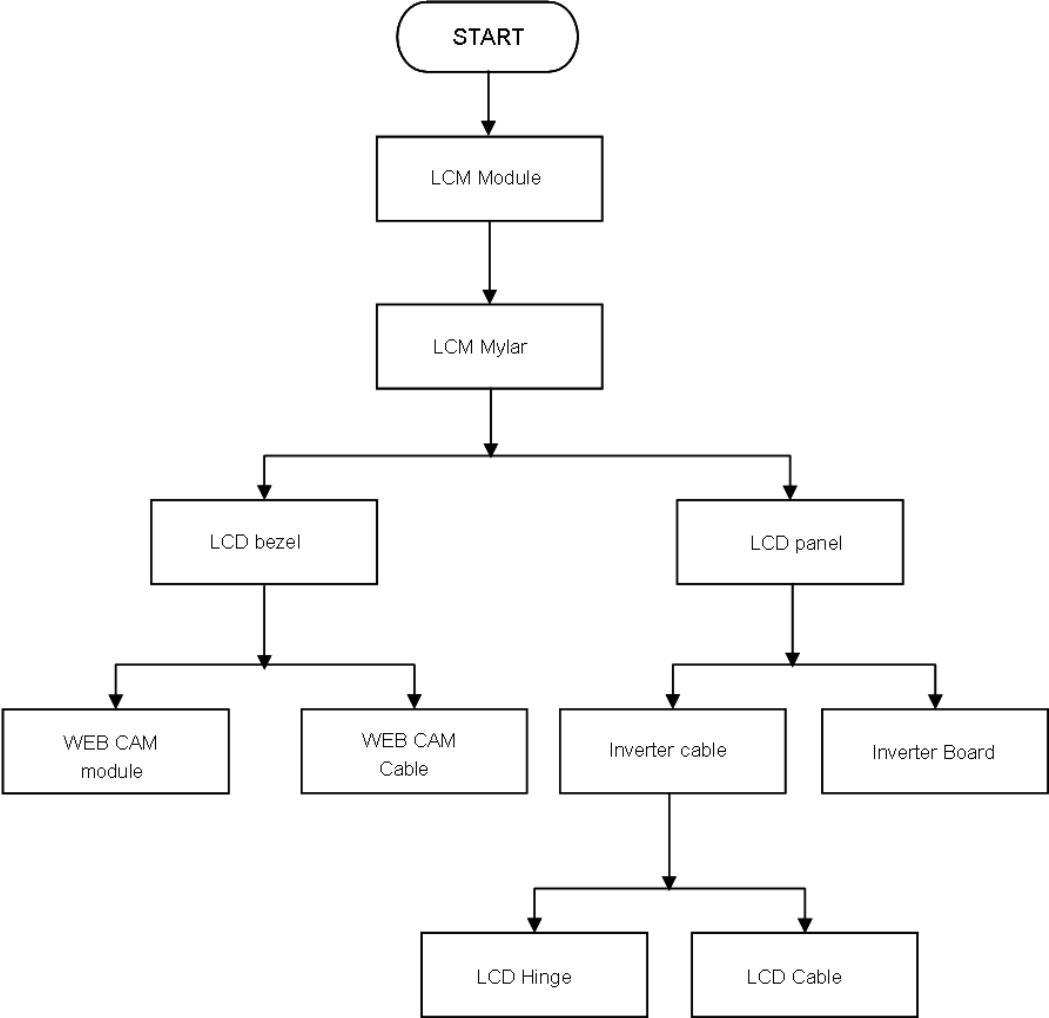
# Disassembly Procedure Flowchart

The flowchart on the succeeding page gives you a graphic representation on the entire disassembly sequence and instructs you on the components that need to be removed during servicing. For example, if you want to remove the system board, you must first remove the keyboard, then disassemble the inside assembly frame in that order.

Main unit disassembly flow chart



LCM module disassembly flow chart



---

## Removing the Battery Pack

1. Release the battery.
2. Slide the battery latch then remove the battery.

## Removing the HDD/Memory Module/Wireless LAN Card/TV Tuner Card/System Fan/Thermal Modules/CPU

### Removing the HDD

1. Remove the six screws fastening the CTO cover
2. Detach the CTO cover from the notebook..

### Removing the Wireless Cover & RAM Module

3. Remove one screw to release the Wireless cover
4. Remove the Wireless cover from the notebook.

- 
5. Pop out the memory module from the DIMM socket then remove it (If the notebook has two memory modules, then repeat this step).

### **Removing the Wireless LAN Card/TV Tunder Card and System Fan**

6. Pull out the Wireless antenna.
7. Remove the two screws fastening the wireless LAN card.t.
8. Disconnect the main and auxiliary antennae from the wireless LAN card.
9. Then take out the wireless LAN card from the main unit.
10. Loose two screws from the TV card.
11. Remove the TV card from the machine.

12. Remove the two screws from the Wireless card.
13. Remove the Wireless card from the machine..

14. Remove HDD module as shown.

---

**15.** Unplug power cable from the machine.

**16.** Remove FAN cable from the machine.

**17.** Loose the FAN screw.

**18.** Take out the system fan from the main unit as shown.

## Removing the Thermal Modules and the CPU

**19.** Remove the two screws holding the finger heatsink.

**20.** Detach the finger heatsink from the main board.

**21.** Then take out the CPU heatsink from the main board.

**22.** Use a flat screwdriver to release the CPU lock (Turn counter clock-wise) then remove the CPU carefully.

**23.** Remove the Express dummy card.

- 
- 24.** Remove the card reader dummy.

## Removing the ODD and Dummy cards

- 25.** Remove the screw fastening the optical disk drive module on the bottom.
- 26.** Use a tool to push the optical disk drive module outwards and remove the ODD module

## Removing the Hinge cover

- 27.** Remove two hinge cover screws.
- 28.** Then detach the Hinge cover from both side.

---

## Removing the BTCB screws

**29.** Loose 21 screws from BTCB.

**30.** Detach Switch cover.

**31.** Disconnect Media board FFC from the Switch cover

---

## Disassembling the Main Unit

1. Turn over the keyboard as the image shows.
  2. Disconnect the Keyboard FFC from the main board
  3. Then remove the keyboard from the main unit.
- 
4. Remove the 18 screws fastening the upper case and the lower case assembly as shown.
  5. Disconnect the FFC from the main board.
- 
- 
- 
- 
- 
- 
- 
- 
- 
- 
6. Loose two screws from the TPCB.
  7. Disconnect the LCM cable.
  8. Pull out the Power cable.
  9. Pull out the Wireless antenna.
  10. Release four TPCB locker then remove the TCB from machine.



---

## Disassembling the LED boards

- 11.** Loose the LED boards four screws.
- 12.** Remove two LED boards from the machine.

- 13.** Loose four LCM hinge screws.
- 14.** Then remove LCM module from the machine.

## Remove I/O board and Main Board.

- 15.** Loose the daughter board screw then remove the daughter board from the machine.
- 16.** Disconnect four cables on the M/B as shown.
- 17.** Loose the M/B screw, remove RJ11 connector from the BTCB.
- 18.** Remove M/B from the BTCB..

- 19.** Disconnect LED/B cable and USB/B FFC.

---

**20.** Remove the USB board from BTCB.

**21.** Loose two Modem card screws.

**22.** Disconnect Modem card cable.

**23.** Remove Modem card from the M/B.

## Disassembly LCM module

**1.** Remove six LCM bezel mylar.

**2.** Loose 11 LCM bezel screws.

**3.** Remove LCM bezel.

**4.** Disconnect Inverter cable and Back LED board cable.

**5.** Disconnect CCD cable.

**6.** Loose four LCD scrws from the hinge.

---

**7.** Remove the LCD panel.

**8.** Remove the Inverter board.

**9.** Loose four LCD hinge screws, then remove two hinges from LCD panel.

---

## Disassembling the External Modules

### Disassembling the HDD Module

1. Remove the four screws holding the HDD (hard disk drive) foil; two on each side.
2. Carefully take out the hard disk drive from the HDD foil.

### Disassembling the ODD Module

1. Remove the two screws holding the optical bracket.
2. Then remove the optical bracket from the optical disk drive.

# Troubleshooting

Use the following procedure as a guide for computer problems.

**NOTE:** The diagnostic tests are intended to test only Acer products. Non-Acer products, prototype cards, or modified options can give false errors and invalid system responses.

1. Obtain the failing symptoms in as much detail as possible.
2. Verify the symptoms by attempting to re-create the failure by running the diagnostic test or by repeating the same operation.
3. Use the following table with the verified symptom to determine which page to go to.

| Symptoms (Verified)   | Go To   |
|---|---|
| Power failure. (The power indicator does not go on or stay on.) | "Power System Check" on page 71   |
| POST does not complete. No beep or error codes are indicated.   | "Power-On Self-Test (POST) Error Message" on page 73<br>"Undetermined Problems" on page 86  |
| POST detects an error and displayed messages on screen.         | "Error Message List" on page 74   |
| Other symptoms (i.e. LCD display problems or others).           | "Power-On Self-Test (POST) Error Message" on page 73  |
| Symptoms cannot be re-created (intermittent problems).          | Use the customer-reported symptoms and go to "Power-On Self-Test (POST) Error Message" on page 73<br>"Intermittent Problems" on page 85<br>"Undetermined Problems" on page 86 |

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# System Check Procedures

## External Diskette Drive Check

Do the following to isolate the problem to a controller, driver, or diskette. A write-enabled, diagnostic diskette is required.

**NOTE:** Make sure that the diskette does not have more than one label attached to it. Multiple labels can cause damage to the drive or cause the drive to fail.

Do the following to select the test device.

1. Boot from the diagnostics diskette and start the diagnostics program.
2. See if FDD Test is passed as the program runs to FDD Test.
3. Follow the instructions in the message window.

If an error occurs with the internal diskette drive, reconnect the diskette connector on the system board.

If the error still remains:

1. Reconnect the external diskette drive/DVD-ROM module.
2. Replace the external diskette drive/CD-ROM module.
3. Replace the main board.

## External CD-ROM Drive Check

Do the following to isolate the problem to a controller, drive, or CD-ROM. Make sure that the CD-ROM does not have any label attached to it. The label can cause damage to the drive or can cause the drive to fail.

Do the following to select the test device:

1. Boot from the diagnostics diskette and start the diagnostics program.
2. See if CD-ROM Test is passed when the program runs to CD-ROM Test.
3. Follow the instructions in the message window.

If an error occurs, reconnect the connector on the System board. If the error still remains:

1. Reconnect the external diskette drive/CD-ROM module.
2. Replace the external diskette drive/CD-ROM module.
3. Replace the main board.

## Keyboard or Auxiliary Input Device Check

Remove the external keyboard if the internal keyboard is to be tested.

If the internal keyboard does not work or an unexpected character appears, make sure that the flexible cable extending from the keyboard is correctly seated in the connector on the system board.

If the keyboard cable connection is correct, run the Keyboard Test.

If the tests detect a keyboard problem, do the following one at a time to correct the problem. Do not replace a non-defective FRU:

1. Reconnect the keyboard cables.
2. Replace the keyboard.
3. Replace the main board.

The following auxiliary input devices are supported by this computer:

- ☐ Numeric keypad
- ☐ External keyboard

If any of these devices do not work, reconnect the cable connector and repeat the failing operation.

---

## Memory check

Memory errors might stop system operations, show error messages on the screen, or hang the system.

1. Boot from the diagnostics diskette and start the doagmpstotics program (please refer to main board).
2. Go to the diagnostic memory in the test items.
3. Press F2 in the test items.
4. Follow the instructions in the message window.

**NOTE:** Make sure that the DIMM is fully installed into the connector. A loose connection can cause an error.

## Power System Check

To verify the symptom of the problem, power on the computer using each of the following power sources:

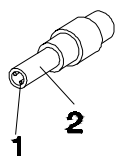
1. Remove the battery pack.
2. Connect the power adapter and check that power is supplied.
3. Disconnect the power adapter and install the charged battery pack; then check that power is supplied by the battery pack.

If you suspect a power problem, see the appropriate power supply check in the following list:

- ☐ "Check the Power Adapter" on page 71
- ☐ "Check the Battery Pack" on page 72

## Check the Power Adapter

Unplug the power adapter cable from the computer and measure the output voltage at the plug of the power adapter cable. See the following figure:



Pin 1: +19 to +20.5V

Pin 2: 0V, Ground

1. If the voltage is not correct, replace the power adapter.
2. If the voltage is within the range, do the following:
  - ☐ Replace the System board.
  - ☐ If the problem is not corrected, see "Undetermined Problems" on page 86.
  - ☐ If the voltage is not correct, go to the next step.

**NOTE:** An audible noise from the power adapter does not always indicate a defect.

3. If the power-on indicator does not light up, check the power cord of the power adapter for correct continuity and installation.
4. If the operational charge does not work, see "Check the Battery Pack" on page 72.

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## Check the Battery Pack

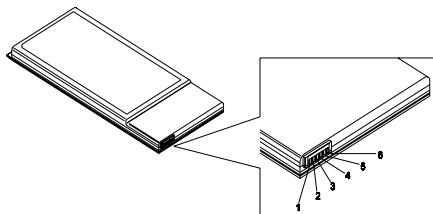
To check the battery pack, do the following:

From Software:

1. Check out the Power Management in control Panel.
2. In Power Meter, confirm that if the parameters shown in the screen for Current Power Source and Total Battery Power Remaining are correct.
3. Repeat the steps 1 and 2, for both battery and adapter.
4. This helps you identify first the problem is on recharging or discharging.

From Hardware:

1. Power off the computer.
2. Remove the battery pack and measure the voltage between battery terminals 1(+) and 6(ground). See the following figure:



3. If the voltage is still less than 7.5 Vdc after recharging, replace the battery.

To check the battery charge operation, use a discharged battery pack or a battery pack that has less than 50% of the total power remaining when installed in the computer.

If the battery status indicator does not light up, remove the battery pack and let it return to room temperature. Re-install the battery pack.

If the charge indicator still does not light up, replace the battery pack. If the charge indicator still does not light up, replace the DC/DC charger board.

## Touchpad Check

If the touchpad doesn't work, do the following actions one at a time to correct the problem. Do not replace a non-defective FRU:

1. Reconnect the touchpad cables.
2. Replace the touchpad.
3. Replace the system board.

After you use the touchpad, the pointer drifts on the screen for a short time. This self-acting pointer movement can occur when a slight, steady pressure is applied to the touchpad pointer. This symptom is not a hardware problem. No service actions are necessary if the pointer movement stops in a short period of time.



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## Power-On Self-Test (POST) Error Message

The POST error message index lists the error message and their possible causes. The most likely cause is listed first.

**NOTE:** Perform the FRU replacement or actions in the sequence shown in FRU/Action column, if the FRU replacement does not solve the problem, put the original part back in the computer. Do not replace a non-defective FRU.

This index can also help you determine the next possible FRU to be replaced when servicing a computer.

If the symptom is not listed, see “Undetermined Problems” on page 86.

The following lists the error messages that the BIOS displays on the screen and the error symptoms classified by function.

**NOTE:** Most of the error messages occur during POST. Some of them display information about a hardware device, e.g., the amount of memory installed. Others may indicate a problem with a device, such as the way it has been configured.

**NOTE:** If the system fails after you make changes in the BIOS Setup Utility menus, reset the computer, enter Setup and install Setup defaults or correct the error.

# Index of Error Messages

## Error Code List

| Error Codes     | Error Messages  |
|-----------------|---|
| 006             | Equipment Configuration Error causes:<br>1. CPU BIOS Update Code Mismatch.<br>2. IDE Primary Channel Master Drive Error.<br>(The causes will be shown before "Equipment Configuration Error") |
| 010             | Memory Error at xxxx:xxxx:xxxxh (R:xxxxh, W:xxxxh).   |
| 070             | Real Time Clock Error   |
| 071             | CMOS Battery Bad  |
| 072             | CMOS Checksum Error   |
| 110             | System disabled<br>Incorrect password is specified.   |
| <No error code> | Battery critical LOW<br>In this situation BIOS will issue 4 short beeps then shut down system, no message will show.  |
| <No error code> | Thermal critical High<br>In this situation BIOS will shut down system, not show message.  |

## Error Message List

| Error Messages  | FRU/Action in Sequence  |
|---|---|
| Failure Fixed Disk                                    | Reconnect hard disk drive connector.<br>"Load Default Settings" in BIOS Setup Utility.<br>Hard disk drive<br>System board |
| Stuck Key   | see "Keyboard or Auxiliary Input Device Check" on page 70.  |
| Keyboard error  | see "Keyboard or Auxiliary Input Device Check" on page 70.  |
| Keyboard Controller Failed                            | see "Keyboard or Auxiliary Input Device Check" on page 70.  |
| Keyboard locked - Unlock key switch                   | Unlock external keyboard  |
| Monitor type does not match CMOS - Run Setup          | Run "Load Default Settings" in BIOS Setup Utility.  |
| Shadow RAM Failed at offset: nnnn                     | BIOS ROM<br>System board  |
| System RAM Failed at offset: nnnn                     | DIMM<br>System board  |
| Extended RAM Failed at offset: nnnn                   | DIMM<br>System board  |
| System battery is dead - Replace and run Setup        | Replace RTC battery and Run BIOS Setup Utility to reconfigure system time, then reboot system.                            |
| System CMOS checksum bad - Default configuration used | RTC battery<br>Run BIOS Setup Utility to reconfigure system time, then reboot system.                                     |
| System timer error                                    | RTC battery<br>Run BIOS Setup Utility to reconfigure system time, then reboot system.<br>System board                     |

| Error Messages   | FRU/Action in Sequence   |
|--|--|
| Real time clock error                                  | RTC battery<br>Run BIOS Setup Utility to reconfigure system time, then reboot system.<br>System board                              |
| Previous boot incomplete - Default configuration used. | Run "Load Default Settings" in BIOS Setup Utility.<br>RTC battery<br>System board  |
| Memory size found by POST differed from CMOS.          | Run "Load Default Settings" in BIOS Setup Utility.<br>DIMM<br>System board   |
| Diskette drive A error                                 | Check the drive is defined with the proper diskette type in BIOS Setup Utility.<br>See "External Diskette Drive Check" on page 70. |
| Incorrect Drive A type - run SETUP                     | Check the drive is defined with the proper diskette type in BIOS Setup Utility.  |
| System cache error - Cache disabled                    | System board   |
| CPU ID   | System board   |
| DMA Test Failed  | DIMM<br>System board   |
| Software NMI Failed                                    | DIMM<br>System board   |
| Fail-Safe Timer NMI Failed                             | DIMM<br>System board   |
| Device Address Conflict                                | Run "Load Default Settings" in BIOS Setup Utility.<br>RTC battery<br>System board  |
| Allocation Error for device                            | Run "Load Default Settings" in BIOS Setup Utility.<br>RTC battery<br>System board  |
| Failing Bits: nnnn                                     | DIMM<br>BIOS ROM<br>System board   |
| Fixed Disk n   | None   |
| Invalid System Configuration Data                      | BIOS ROM<br>System board   |
| I/O device IRQ conflict                                | Run "Load Default Settings" in BIOS Setup Utility.<br>RTC battery<br>System board  |
| Operating system not found                             | Enter Setup and see if fixed disk and drive A: are properly identified.<br>Diskette drive<br>Hard disk drive<br>System board       |

## Error Message List

| No beep Error Messages                                  | FRU/Action in Sequence  |
|---|---|
| No beep, power-on indicator turns off and LCD is blank. | Power source (battery pack and power adapter).<br>See "Power System Check" on page 71.<br>Ensure every connector is connected tightly and correctly.<br>Reconnect the DIMM<br>LED board<br>System board |

| No beep Error Messages  | FRU/Action in Sequence  |
|---|---|
| No beep, power-on indicator turns on and LCD is blank.  | Power source (battery pack and power adapter).<br>See "Power System Check" on page 71.<br>Reconnect the LCD connector<br>Hard disk drive<br>LCD inverter ID<br>LCD cable<br>LCD Inverter<br>LCD<br>System board |
| No beep, power-on indicator turns on and LCD is blank. But you can see POST on an external CRT. | Reconnect the LCD connectors<br>LCD inverter ID<br>LCD cable<br>LCD inverter<br>LCD<br>System board   |
| No beep, power-on indicator turns on and a blinking cursor shown on LCD during POST.            | Ensure every connector is connected tightly and correctly.<br>System board  |
| No beep during POST but system runs correctly.  | Speaker<br>System board   |

# Phoenix BIOS Beep Codes

| Code | Beeps   | POST Routine Description                                 |
|------|---------|--|
| 02h  |         | Verify Real Mode   |
| 03h  |         | Disable Non-Maskable Interrupt (NMI)                     |
| 04h  |         | Get CPU type   |
| 06h  |         | Initialize system hardware                               |
| 08h  |         | Initialize chipset with initial POST values              |
| 09h  |         | Set IN POST flag   |
| 0Ah  |         | Initialize CPU registers                                 |
| 0Bh  |         | Enable CPU cache   |
| 0Ch  |         | Initialize caches to initial POST values                 |
| 0Eh  |         | Initialize I/O component                                 |
| 0Fh  |         | Initialize the local bus IDE                             |
| 10h  |         | Initialize Power Management                              |
| 11h  |         | Load alternate registers with initial POST values        |
| 12h  |         | Restore CPU control word during warm boot                |
| 13h  |         | Initialize PCI Bus Mastering devices                     |
| 14h  |         | Initialize keyboard controller                           |
| 16h  | 1-2-2-3 | BIOS ROM checksum  |
| 17h  |         | Initialize cache before memory autosize                  |
| 18h  |         | 8254 timer initialization                                |
| 1Ah  |         | 8237 DMA controller initialization                       |
| 1Ch  |         | Reset Programmable Interrupt Controller                  |
| 20h  | 1-3-1-1 | Test DRAM refresh  |
| 22h  | 1-3-1-3 | Test 8742 Keyboard Controller                            |
| 24h  |         | Set ES segment register to 4 GB                          |
| 26h  |         | Enable A20 line  |
| 28h  |         | Autosize DRAM  |
| 29h  |         | Initialize POST Memory Manager                           |
| 2Ah  |         | Clear 215 KB base RAM                                    |
| 2Ch  | 1-3-4-1 | RAM failure on address line xxxx                         |
| 2Eh  | 1-3-4-3 | RAM failure on data bits xxxx of low byte of memory bus  |
| 2Fh  |         | Enable cache before system BIOS shadow                   |
| 2Ah  |         | Clear 215 KB base RAM                                    |
| 2Ch  | 1-3-4-1 | RAM failure on address line xxxx                         |
| 2Eh  | 1-3-4-3 | RAM failure on data bits xxxx of low byte of memory bus  |
| 2Fh  |         | Enable cache before system BIOS shadow                   |
| 30h  | 1-4-1-1 | RAM failure on data bits xxxx of high byte of memory bus |
| 32h  |         | Test CPU bus-clock frequency                             |
| 33h  |         | Initialize Phoenix Dispatch Manager                      |
| 36h  |         | Warm start shut down                                     |
| 38h  |         | Shadow system BIOS ROM                                   |
| 3Ah  |         | Autosize cache   |
| 3Ch  |         | Advanced configuration of chipset registers              |
| 3Dh  |         | Load alternate registers with CMOS values                |
| 42h  |         | Initialize interrupt vectors                             |

| Code | Beeps   | POST Routine Description                              |
|------|---------|---|
| 45h  |         | POST device initialization                            |
| 46h  | 2-1-2-3 | Check ROM copyright notice                            |
| 48h  |         | Check video configuration against CMOS                |
| 49h  |         | Initialize PCI bus and devices                        |
| 4Ah  |         | Initialize all video adapters in system               |
| 4Bh  |         | QuietBoot start (optional)                            |
| 4Ch  |         | Shadow video BIOS ROM                                 |
| 4Eh  |         | Display BIOS copyright notice                         |
| 50h  |         | Display CPU type and speed                            |
| 51h  |         | Initialize EISA board                                 |
| 52h  |         | Test keyboard   |
| 54h  |         | Set key click if enabled                              |
| 58h  | 2-2-3-1 | Test for unexpected interrupts                        |
| 59h  |         | Initialize POST display service                       |
| 5Ah  |         | Display prompt "Press F2 to enter SETUP"              |
| 5Bh  |         | Disable CPU cache                                     |
| 5Ch  |         | Test RAM between 512 and 640 KB                       |
| 60h  |         | Test extended memory                                  |
| 62h  |         | Test extended memory address lines                    |
| 64h  |         | Jump to User Patch1                                   |
| 66h  |         | Configure advanced cache registers                    |
| 67h  |         | Initialize Multi Processor APIC                       |
| 68h  |         | Enable external and CPU caches                        |
| 69h  |         | Setup System Management Mode (SMM) area               |
| 6Ah  |         | Display external L2 cache size                        |
| 6Bh  |         | Load custom defaults (optional)                       |
| 6Ch  |         | Display shadow-area message                           |
| 6Eh  |         | Display possible high address for UMB recovery        |
| 70h  |         | Display error messages                                |
| 72h  |         | Check for configuration errors                        |
| 76h  |         | Check for keyboard errors                             |
| 7Ch  |         | Set up hardware interrupt vectors                     |
| 7Eh  |         | Initialize coprocessor if present                     |
| 80h  |         | Disable onboard Super I/O ports and IRQs              |
| 81h  |         | Late POST device initialization                       |
| 82h  |         | Detect and install external RS232 ports               |
| 83h  |         | Configure non-MCD IDE controllers                     |
| 84h  |         | Detect and install external parallel ports            |
| 85h  |         | Initialize PC-compatible PnP ISA devices              |
| 86h  |         | Re-initialize onboard I/O ports                       |
| 87h  |         | Configure Motherboard Configurable Devices (optional) |
| 88h  |         | Initialize BIOS Area                                  |
| 89h  |         | Enable Non-Maskable Interrupts (NMIs)                 |
| 8Ah  |         | Initialize Extended BIOS Data Area                    |
| 8Bh  |         | Test and initialize PS/2 mouse                        |
| 8Ch  |         | Initialize floppy controller                          |

| Code | Beeps | POST Routine Description   |
|------|-------|--|
| 8Fh  |       | Determine number of ATA drives (optional)                              |
| 90h  |       | Initialize hard-disk controllers                                       |
| 91h  |       | Initialize local-bus hard-disk controllers                             |
| 92h  |       | Jump to UserPatch2   |
| 93h  |       | Build MPTABLE for multi-processor boards                               |
| 95h  |       | Install CD ROM for boot  |
| 96h  |       | Clear huge ES segment register   |
| 97h  |       | Fixup Multi Processor table  |
| 98h  | 1-2   | Search for option ROMs. One long, two short beeps on checksum failure. |
| 99h  |       | Check for SMART drive (optional)                                       |
| 9Ah  |       | Shadow option ROMs   |
| 9Ch  |       | Set up Power Management  |
| 9Dh  |       | Initialize security engine (optional)                                  |
| 9Eh  |       | Enable hardware interrupts   |
| 9Fh  |       | Determine number of ATA and SCSI drives                                |
| A0h  |       | Set time of day  |
| A2h  |       | Check key lock   |
| A4h  |       | Initialize Typematic rate  |
| A8h  |       | Erase F2 prompt  |
| AAh  |       | Scan for F2 key stroke   |
| ACh  |       | Enter SETUP  |
| AEh  |       | Clear Boot flag  |
| B0h  |       | Check for errors   |
| B2h  |       | POST done- prepare to boot operating system                            |
| B4h  | 1     | One short beep before boot   |
| B5h  |       | Terminate QuietBoot (optional)   |
| B6h  |       | Check password (optional)  |
| B9h  |       | Prepare Boot   |
| BAh  |       | Initialize DMI parameters  |
| BBh  |       | Initialize PnP Option ROMs   |
| BCh  |       | Clear parity checkers  |
| BDh  |       | Display MultiBoot menu   |
| BEh  |       | Clear screen (optional)  |
| BFh  |       | Check virus and backup reminders                                       |
| C0h  |       | Try to boot with INT 19  |
| C1h  |       | Initialize POST Error Manager (PEM)                                    |
| C2h  |       | Initialize error logging   |
| C3h  |       | Initialize error display function                                      |
| C4h  |       | Initialize system error handler  |
| C5h  |       | PnPnd dual CMOS (optional)   |
| C6h  |       | Initialize notebook docking (optional)                                 |
| C7h  |       | Initialize notebook docking late                                       |
| C8h  |       | Force check (optional)   |
| C9h  |       | Extended checksum (optional)   |
| D2h  |       | Unknown interrupt  |
| E0h  |       | Initialize the chipset   |

---

| Code | Beeps | POST Routine Description          |
|------|-------|-----------------------------------|
| E1h  |       | Initialize the bridge             |
| E2h  |       | Initialize the CPU                |
| E3h  |       | Initialize the system timer       |
| E4h  |       | Initialize system I/O             |
| E5h  |       | Check force recovery boot         |
| E6h  |       | Checksum BIOS ROM                 |
| E7h  |       | Go to BIOS                        |
| E8h  |       | Set Huge Segment                  |
| E9h  |       | Initialize Multi Processor        |
| EAh  |       | Initialize OEM special code       |
| EBh  |       | Initialize PIC and DMA            |
| ECh  |       | Initialize Memory type            |
| EDh  |       | Initialize Memory size            |
| EEh  |       | Shadow Boot Block                 |
| EFh  |       | System memory test                |
| F0h  |       | Initialize interrupt vectors      |
| F1h  |       | Initialize Run Time Clock         |
| F2h  |       | Initialize video                  |
| F3h  |       | Initialize System Management Mode |



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# Index of Symptom-to-FRU Error Message

## LCD-Related Symptoms

| Symptom / Error   | Action in Sequence   |
|---|--|
| LCD backlight doesn't work<br>LCD is too dark<br>LCD brightness cannot be adjusted<br>LCD contrast cannot be adjusted | Enter BIOS Utility to execute "Load Setup Default Settings", then reboot system.<br>Reconnect the LCD connectors<br>Keyboard (if contrast and brightness function key doesn't work)<br>LCD inverter ID<br>LCD cable<br>LCD inverter<br>LCD<br>System board |
| Unreadable LCD screen<br>Missing pels in characters<br>Abnormal screen<br>Wrong color displayed                       | Reconnect the LCD connector<br>LCD inverter ID<br>LCD cable<br>LCD inverter<br>LCD<br>System board   |
| LCD has extra horizontal or vertical lines displayed  | LCD inverter ID<br>LCD inverter<br>LCD cable<br>LCD<br>System board  |

## Indicator-Related Symptoms

| Symptom / Error  | Action in Sequence   |
|--|--|
| Indicator incorrectly remains off or on, but system runs correctly | Reconnect the inverter board<br>Inverter board<br>System board |

## Power-Related Symptoms

| Symptom / Error                    | Action in Sequence   |
|------------------------------------|--|
| Power shuts down during operation. | Power source (battery pack and power adapter).<br>See "Power System Check" on page 71.<br>Battery pack<br>Power adapter<br>Hard drive & battery connection board<br>System board |
| The system doesn't power-on.       | Power source (battery pack and power adapter).<br>See "Power System Check" on page 71.<br>Battery pack<br>Power adapter<br>Hard drive & battery connection board<br>System board |
| The system doesn't power-off.      | Power source (battery pack and power adapter).<br>See "Power System Check" on page 71.<br>Hold and press the power switch for more than 4 seconds.<br>System board               |
| Battery can't be charged.          | See "Check the Battery Pack" on page 72.<br>Battery pack<br>System board   |

## PCMCIA-Related Symptoms

| Symptom / Error                             | Action in Sequence                   |
|---|--------------------------------------|
| System cannot detect the PC Card (PCMCIA) . | PCMCIA slot assembly<br>System board |
| PCMCIA slot pin is damaged.                 | PCMCIA slot assembly                 |

## Memory-Related Symptoms

| Symptom / Error   | Action in Sequence  |
|---|---|
| Memory count (size) appears different from actual size. | Enter BIOS Setup Utility to execute "Load Default Settings, then reboot system.<br>DIMM<br>System board |

## Speaker-Related Symptoms

| Symptom / Error  | Action in Sequence                      |
|--|---|
| In Windows, multimedia programs, no sound comes from the computer. | Audio driver<br>Speaker<br>System board |
| Internal speakers make noise or emit no sound.                     | Speaker<br>System board                 |

---

## Power Management-Related Symptoms

| Symptom / Error  | Action in Sequence   |
|--|--|
| The system will not enter hibernation.                                       | Keyboard (if control is from the keyboard)<br>Hard disk drive<br>System board  |
| The system doesn't enter hibernation mode and four short beeps every minute. | Press Fn+o and see if the computer enters hibernation mode.<br>Touchpad<br>Keyboard<br>Hard disk connection board<br>Hard disk drive<br>System board             |
| The system doesn't enter standby mode after closing the LCD.                 | LCD cover switch<br>System board   |
| The system doesn't resume from hibernation mode.                             | Hard disk connection board<br>Hard disk drive<br>System board  |
| The system doesn't resume from standby mode after opening the LCD.           | LCD cover switch<br>System board   |
| Battery fuel gauge in Windows doesn't go higher than 90%.                    | Remove battery pack and let it cool for 2 hours.<br>Refresh battery (continue use battery until power off, then charge battery).<br>Battery pack<br>System board |
| System hangs intermittently.   | Reconnect hard disk/CD-ROM drives.<br>Hard disk connection board<br>System board   |

## Peripheral-Related Symptoms

| Symptom / Error  | Action in Sequence  |
|--|---|
| System configuration does not match the installed devices. | Enter BIOS Setup Utility to execute "Load Default Settings", then reboot system.<br>Reconnect hard disk/CD-ROM/diskette drives.   |
| External display does not work correctly.                  | Press Fn+F5, LCD/CRT/Both display switching.<br>System board  |
| USB does not work correctly.                               | System board  |
| Print problems.  | Ensure the "Parallel Port" in the "Onboard Devices Configuration" of BIOS Setup Utility is set to Enabled.<br>Onboard Devices Configuration<br>Run printer self-test.<br>Printer driver<br>Printer cable<br>Printer<br>System Board |
| Serial or parallel port device problems.                   | Ensure the "Serial Port" in the Devices Configuration" of BIOS Setup Utility is set to Enabled.<br>Device driver<br>Device cable<br>Device<br>System board  |

## Keyboard/Touchpad-Related Symptoms

| Symptom / Error                            | Action in Sequence   |
|--|--|
| Keyboard (one or more keys) does not work. | Reconnect the keyboard cable<br>Keyboard<br>System board   |
| Touchpad does not work.                    | Reconnect touchpad cable<br>Touchpad board<br>System board |

## Modem-Related Symptoms

| Symptom / Error                         | Action in Sequence                                    |
|---|---|
| Internal modem does not work correctly. | Modem phone port<br>modem combo board<br>System board |

**NOTE:** If you cannot find a symptom or an error in this list and the problem remains, see "Undetermined Problems" on page 86.

---

# Intermittent Problems

Intermittent system hang problems can be caused by a variety of reasons that have nothing to do with a hardware defect, such as: cosmic radiation, electrostatic discharge, or software errors. FRU replacement should be considered only when a recurring problem exists.

When analyzing an intermittent problem, do the following:

1. Run the advanced diagnostic test for the system board in loop mode at least 10 times.
2. If no error is detected, do not replace any FRU.
3. If any error is detected, replace the FRU. Rerun the test to verify that there are no more errors.

---

# Undetermined Problems

The diagnostic problems does not identify which adapter or device failed, which installed devices are incorrect, whether a short circuit is suspected, or whether the system is inoperative.

Follow these procedures to isolate the failing FRU (do not isolate non-defective FRU).

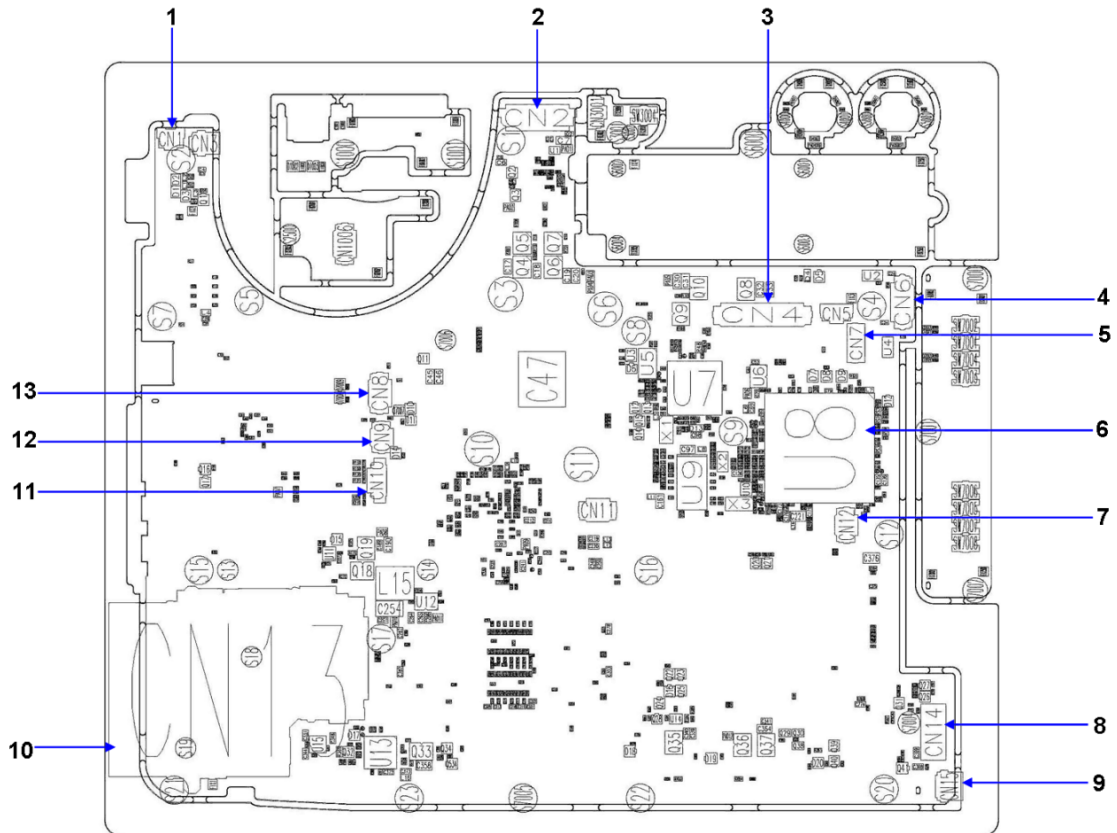
**NOTE:** Verify that all attached devices are supported by the computer.

**NOTE:** Verify that the power supply being used at the time of the failure is operating correctly. (See "Power System Check" on page 71):

1. Power-off the computer.
2. Visually check them for damage. If any problems are found, replace the FRU.
3. Remove or disconnect all of the following devices:
  - ☐ Non-Acer devices
  - ☐ Printer, mouse, and other external devices
  - ☐ Battery pack
  - ☐ Hard disk drive
  - ☐ DIMM
  - ☐ CD-ROM/Diskette drive Module
  - ☐ PC Cards
4. Power-on the computer.
5. Determine if the problem has changed.
6. If the problem does not recur, reconnect the removed devices one at a time until you find the failing FRU.
7. If the problem remains, replace the following FRU one at a time. Do not replace a non-defective FRU:
  - ☐ System board
  - ☐ LCD assembly

# Jumper and Connector Locations

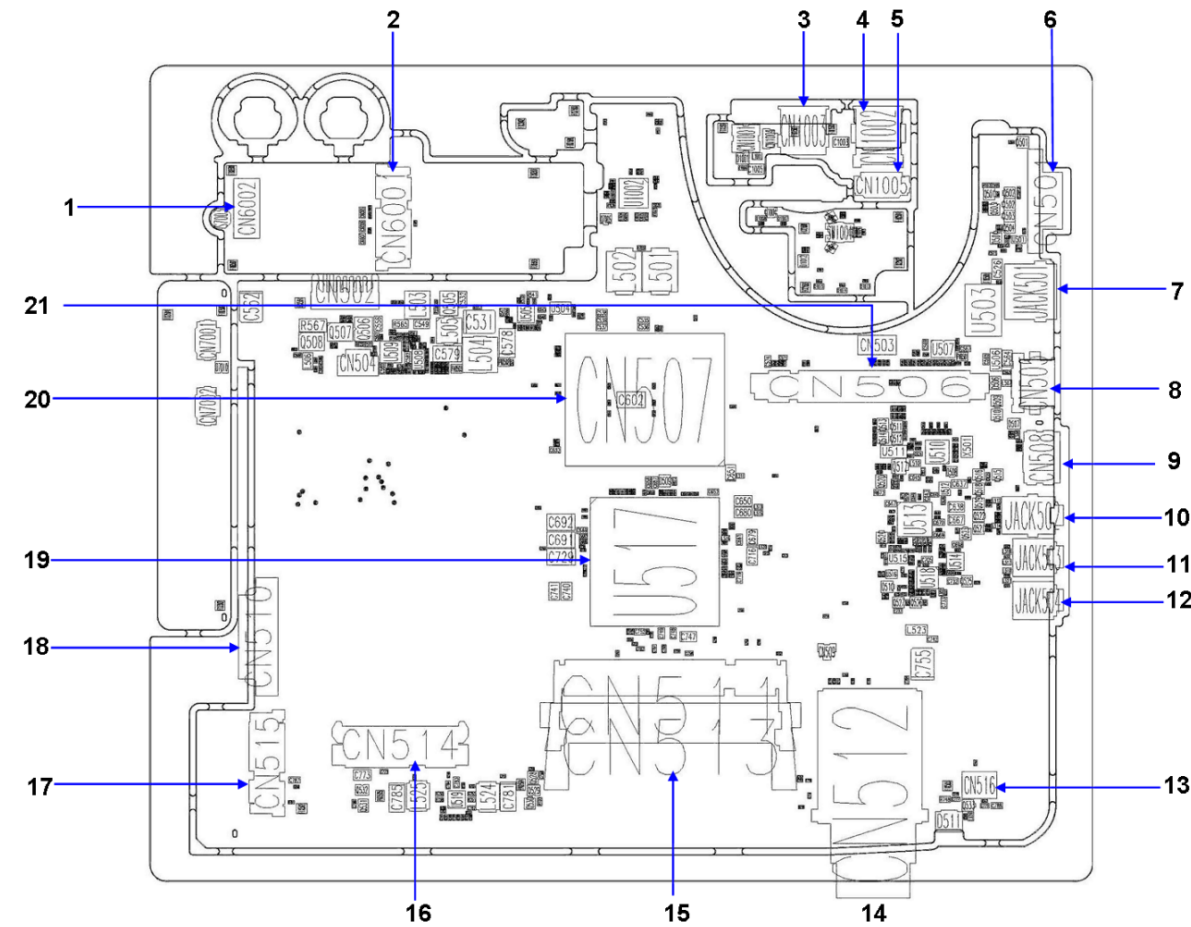
## Top View



**Aspire6935 M/B layout and connector location  
TOP view**

| No. | Name | Description             |
|-----|------|-------------------------|
| 1   | CN1  | LED/B Cable CNTR        |
| 2   | CN2  | LCM Cable CNTR          |
| 3   | CN3  | Key board FFC CNTR      |
| 4   | CN4  | USB board CNTR          |
| 5   | CN7  | Hot Key Board CNTR      |
| 6   | U8   | South Bridge            |
| 7   | CN12 | Touch Pad FFC CNTR      |
| 8   | CN14 | I/O Board CNTR          |
| 9   | CN15 | BT Cable CNTR           |
| 10  | CN13 | Express card CNTR       |
| 11  | CN10 | Speaker Cable CNTR      |
| 12  | CN9  | Media consle Board CNTR |
| 13  | CN8  | Power Board FFC CNTR    |

# Bottom View





| Bottom view |           |                       |
|-------------|-----------|-----------------------|
| No.         | Name      | Description           |
| 1           | CN6002    | W/LAN card board CNTR |
| 2           | CN6001    | TV/Robson card CNTR   |
| 3           | CN1003    | USB Port              |
| 4           | CN1002    | USB Port              |
| 5           | CN1005    | USB Board CNTR        |
| 6           | CN501     | VGA Port              |
| 7           | Jack501   | RJ45                  |
| 8           | CN505     | USB Port              |
| 9           | CN508     | HDMI Port             |
| 10          | Jack502   | SPDIF                 |
| 11          | Jack503   | MIC jack              |
| 12          | Jack504   | Line in jack          |
| 13          | CN516     | MDC Card CNTR         |
| 14          | CN512     | New card Socket       |
| 15          | CN511/513 | DIMM Socket           |
| 16          | CN514     | HDD CNTR              |
| 17          | CN515     | PCI-E Socket          |
| 18          | CN510     | ODD CNTR              |
| 19          | U517      | North Bridge          |
| 20          | CN507     | CPU Socket            |
| 21          | CN506     | VGA Card Socket       |



## FRU (Field Replaceable Unit) List

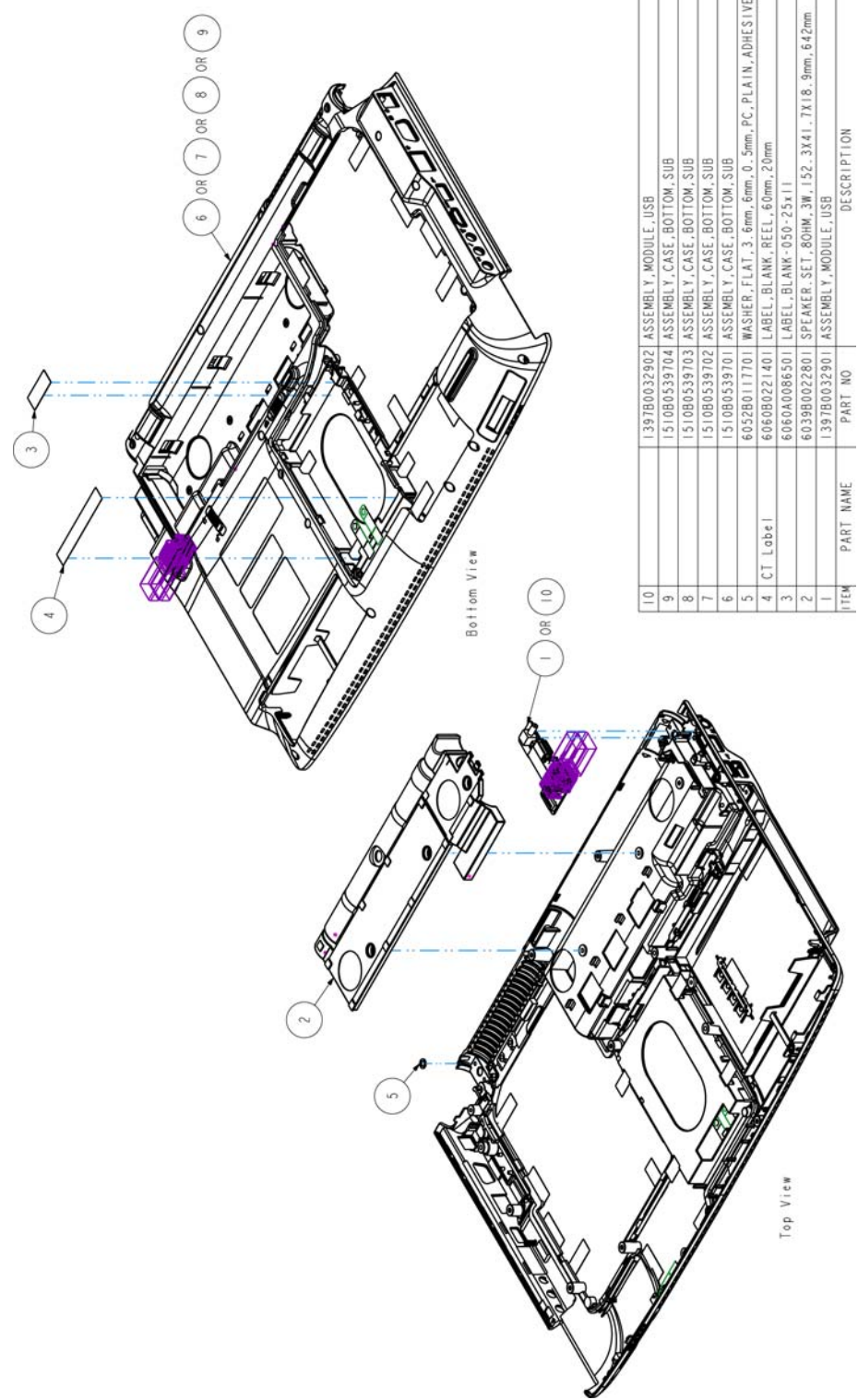
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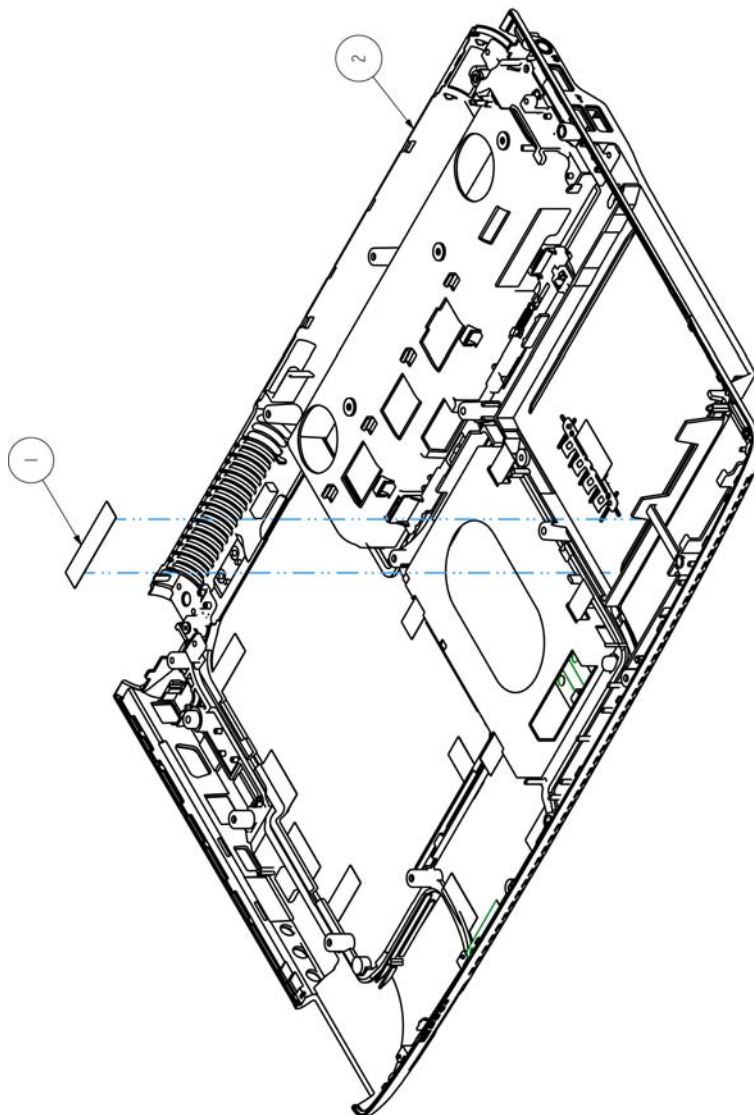
This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of Aspire 6935G. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

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

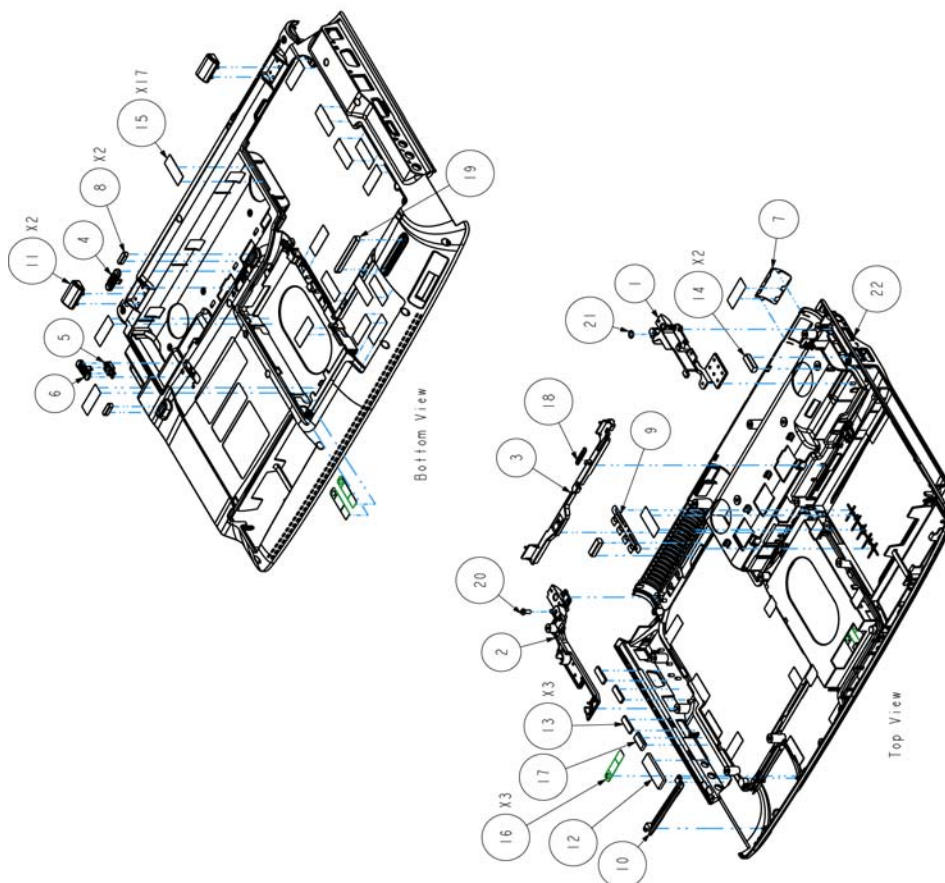
**NOTE:** To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how to dispose it properly, or follow the rules set by your regional Acer office on how to return it.

# Aspire 6935G Exploded Diagram

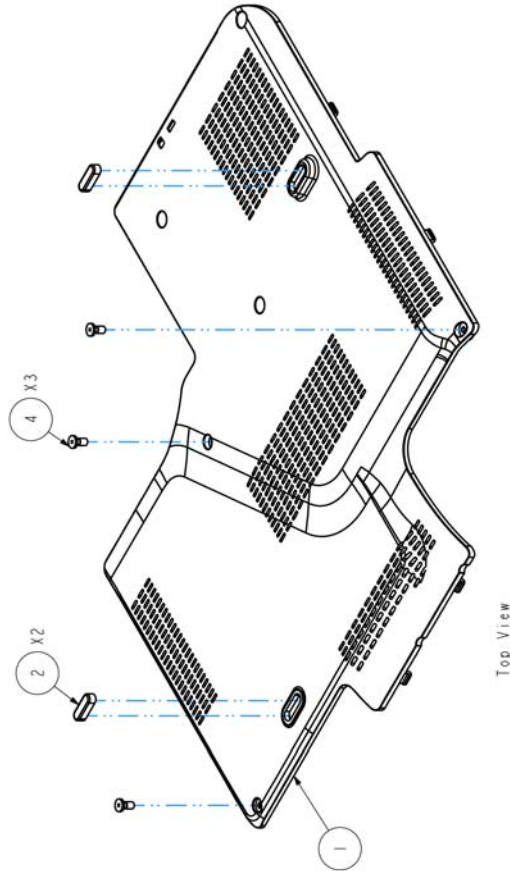
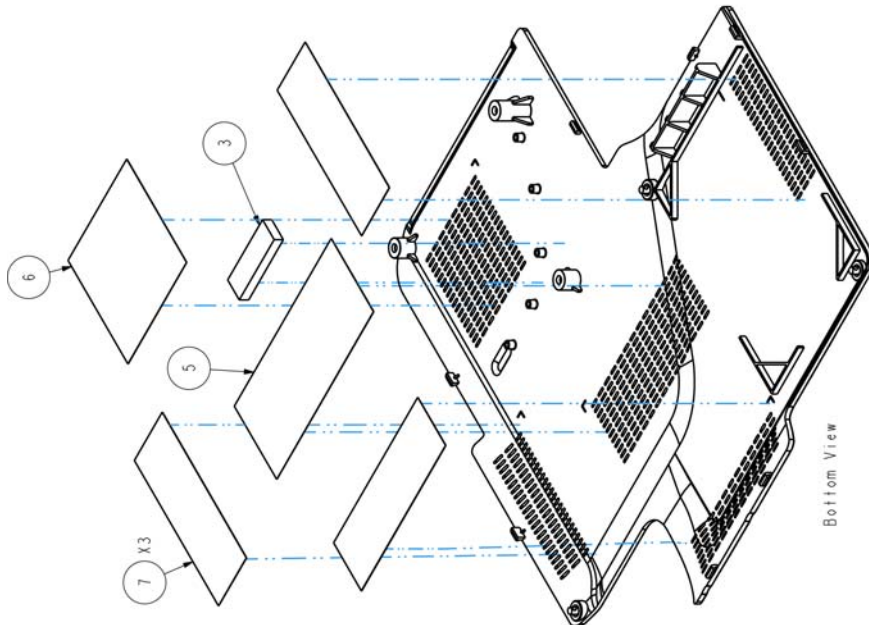




|      |              |                                 |             |    |    |    |
|------|--------------|---------------------------------|-------------|----|----|----|
| 2    | 1510B0539301 | ASSEMBLY, CASE, BOTTOM, OFFLINE | 1           | 1  | 1  | 1  |
| 1    | 60600511J905 | LABEL, BLANK - 033 - 40*9       | 1           | 1  | 1  | 1  |
| ITEM | PART NAME    | PART NO                         | DESCRIPTION |    |    |    |
|      |              |                                 | 01          | 02 | 03 | 04 |

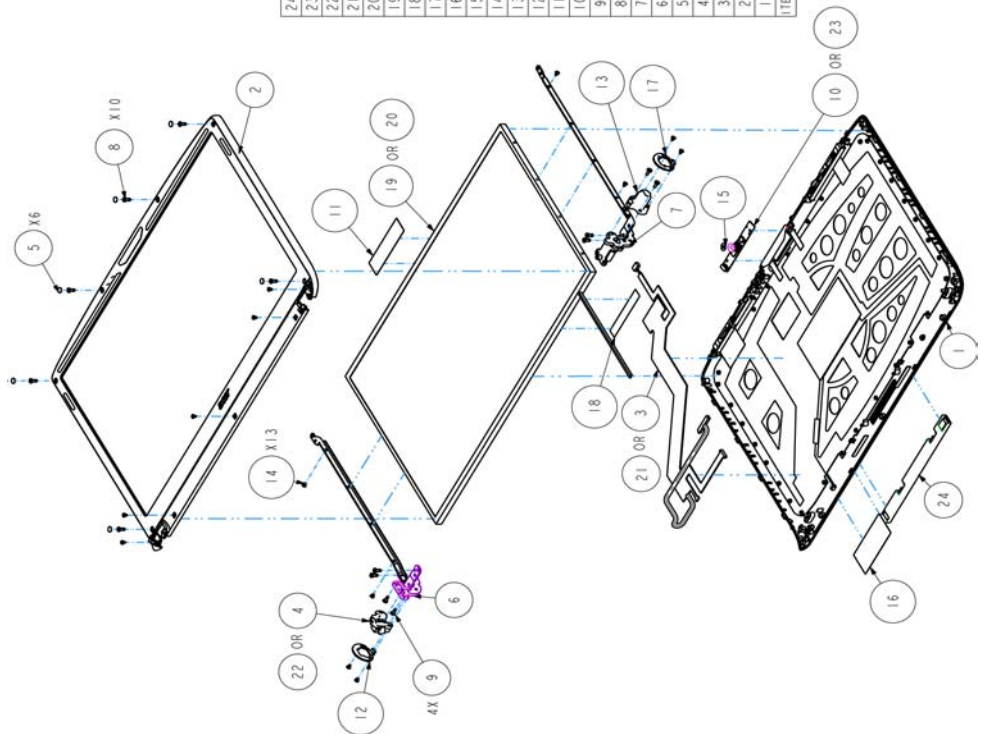


|      |                        |             |   |      |
|------|------------------------|-------------|---|------|
| 22   | BOTTOM CABINET         | 6051B034790 | CASE, BOTTOM, PC+ABS, PLATING                     | 1    |
| 21   |                        | 6052B003410 | WASHER, FLAT, 3.5mm, 6mm, 0.3mm, AL PLATE         | 1    |
| 20   |                        | 6052B007800 | SCREW, 1.2, 5.6, 0mm, M, 4.5mm, 0.8mm, BNI, PATCH | 1    |
| 19   | BTW FRONT BUMPER       | 6054B040650 | FOOT, BOTTOM, FRONT, SILICONE                     | 1    |
| 18   | BATTERY SPRING         | 6053B034570 | SPRING, EXTN, BOTTOM, BATTERY, SUS304             | 1    |
| 17   | GASKET, 130X1025       | 6054B021580 | GASKET, BELOW, FAN, CONDUCTIVE                    | 1    |
| 16   | BTW GASKET             | 6054B015000 | GASKET, NI/CU PNW FR, 29.8mm, 7mm, 0.13mm         | 3    |
| 15   | 8.5mm x H:4mm x L:15mm | 6054B004360 | GASKET, NI/CU PRS FR, 25mm, 10mm, 0.1mm           | 17   |
| 14   | USB GASKET             | 6054B010730 | GASKET, NI/CU PNW TOF, 15.0mm, 5.0mm, 4.0mm       | 2    |
| 13   | AUDIO GASKET           | 6054B038110 | GASKET, NI/CU PPW TOF, 15mm, 5mm, 1.5mm           | 3    |
| 12   |                        | 6051B031740 | FOOT, BOTTOM, PC+ABS+RUBBER                       | 2    |
| 11   | BOTTOM IR COVER        | 6051B029000 | COVER, IR, PC                                     | 1    |
| 10   | BTW ODD SHIELD         | 6053B034630 | SHIELD, BOTTOM, ODD, SUS301                       | 1    |
| 9    | BTW MID BUMPER         | 6054B034900 | FOOT, BOTTOM, MID, SILICONE                       | 2    |
| 8    | TUNE MESH              | 6053B034910 | NET, BOTTOM, FRONT, SPCC                          | 1    |
| 7    | BATT LATCH LOCK        | 6051B028500 | KNOB, BATTERY, LOCK, PC+ABS                       | 1    |
| 6    | BATT LATCH             | 6051B028520 | LATCH, BATTERY, LOCK, NYLON+30%GF                 | 1    |
| 5    | BATT KNOB              | 6051B028510 | KNOB, BATTERY, PC+ABS                             | 1    |
| 4    | BATT KNOB              | 6051B028530 | LATCH, BATTERY, NYLON+30%GF                       | 1    |
| 3    | BOTTOM L BRACKET       | 6053B034880 | BRACKET, BOTTOM, LEFT, ZN ALLOY                   | 1    |
| 2    | BOTTOM R BRACKET       | 6053B034890 | BRACKET, BOTTOM, RIGHT, ZN ALLOY                  | 1    |
| ITEM | PART NAME              | PART NO     | DESCRIPTION                                       | P17H |



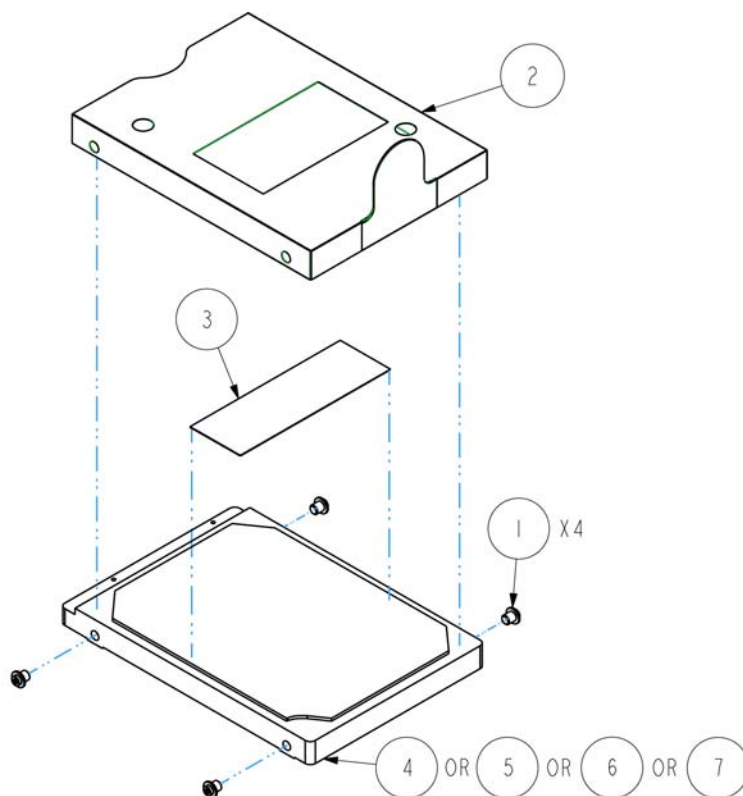
| ITEM | PART NAME          | PART NO     | DESCRIPTION   | QTY |
|------|--------------------|-------------|---|-----|
| 7    | MPCI COVER NET     | 6054B039980 | NET,MPCI COVER,FR83                                     | 3   |
| 6    | cto.NET_top        | 6054B047770 | NET,CTO COVER, TOP,FR83                                 | 1   |
| 5    | cto.NET_middle     | 6054B047780 | NET,CTO COVER,MIDDLE,FR83                               | 1   |
| 4    | Gasket_300X100X40T | 6052B013070 | SCREW,1,M2.5,3.0mm,MACH,4.5mm,0.8mm,CROSS,BN1,PATCH,SHM | 3   |
| 3    | Gasket_300X100X40T | 6054B024500 | GASKET,N1/CU PNW FOF,30.0mm,10.0mm,4.0mm                | 1   |
| 2    | BTM MID BUMPER     | 6054B034900 | FOOT,BOTTOM,MID,SILICONE                                | 2   |
| 1    | BOTTOM CTO COVER   | 6051B029020 | COVER,CTO,PC+ABS,PLATING                                | 1   |
|      |                    |             |   |     |



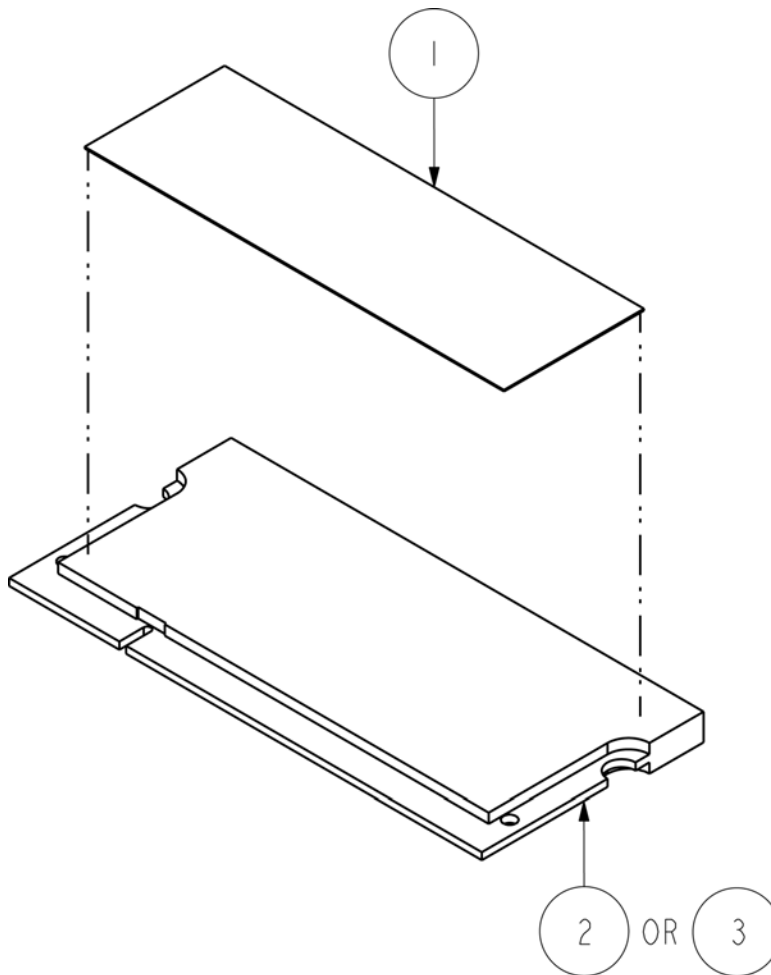


|      |                          |   |  |    |    |          |
|------|--------------------------|---|--|----|----|----------|
| 24   | 60388001940              | INVERTER, 9V-20V, AC710V, 56KHz, 141X11X3.9         | 1  | 1  | 1  | 1        |
| 23   | 6047B000820              | CAMERA MODULE, LENS, 1.0M                           |  |    |    | 1        |
| 22   | 6017B015730              | CABLE, ROUND, 4POS, 335mm, 1, DC IN/YELLOW          |  |    |    | 1        |
| 21   | 6017B015720              | CABLE, FLAT, 4POS, 363mm, 1, LCM                    |  |    |    | 1        |
| 20   | 6024B004370              | LCM, 16, TFT, WUGA, LVDS, 580g                      |  |    |    | 1        |
| 19   | 6024B004310              | LCM, 16, TFT, WUGA, LVDS, 530g                      |  |    |    | 1        |
| 18   | CT 100H                  | 6060B022140   | LABEL, BLANK, REEL, 60mm, 20mm                           |    |    | 1        |
| 17   | 1397B003340              | ASSEMBLY, MODULE, LED                               |  |    |    | 1        |
| 16   | 6053B040250              | SHIELD, REAR, AL, FOIL                              |  |    |    | 1        |
| 15   | 6054B040000              | INSULATOR, DISPLAY, CCD, ASI, 00, LENS              |  |    |    | 1        |
| 14   | 6052A000450              | SCREW, 12003DM(4.0D*0.47)-BK-PATCH                  | 13   | 13 | 13 | 13       |
| 13   | HINGE, AFT/HS/DM, BKT    | 6053B034550   | BRACKET, HINGE, COVER, RIGHT, 2N, ALLOY                  |    |    | 1        |
| 12   | 1397B003340              | ASSEMBLY, MODULE, LED                               |  |    |    | 1        |
| 11   | DISP, MYLAR              | 6054B036780   | INSULATOR, DISPLAY, PANEL, ASI, 00                       |    |    | 1        |
| 10   | 6047B000710              | CAMERA MODULE, LENS, 0.3M                           |  |    |    | 1        |
| 9    | 6052B008070              | SCREW, 1, M2, 6mm, M, 4.5mm, 0.8mm, PHIL, BK, PATCH | 4  | 4  | 4  | 4        |
| 8    | DISP, HINGE, BRACKET, R  | 6052B007800   | SCREW, 1, M2, 5.6, 0mm, M, 4.5mm, 0.8mm, BNT, PATCH      | 10 | 10 | 10       |
| 7    | DISP, HINGE, BRACKET, L  | 6053B034510   | HINGE-W BRACKET, DISPLAY, RIGHT, 10-11, 6KGF-CM, 16 INCH |    |    | 1        |
| 6    | DISP, HINGE, BRACKET, L  | 6053B034520   | HINGE-W BRACKET, DISPLAY, LEFT, 10-11, 6KGF-CM, 16 INCH  |    |    | 1        |
| 5    | DISP, C, REEL, INSULATOR | 6054B034480   | INSULATOR, DISPLAY, BEZEL, PC, CIRCLE                    | 6  | 6  | 6        |
| 4    | DISP, C, REEL, INSULATOR | 6017B015870   | CABLE, ROUND, 4POS, 335mm, 1, DC IN/BUE                  |    |    | 1        |
| 3    | LCM CABLE                | 6017B015880   | CABLE, FLAT, 4POS, 363mm, 1, LCM                         |    |    | 1        |
| 2    |                          | 1510B047010   | ASSEMBLY, BEZEL, DISPLAY, OFFLINE                        |    |    | 1        |
| 1    |                          | 1510B047000   | ASSEMBLY, CASE, REAR, DISPLAY, OFFLINE                   |    |    | 1        |
| ITEM | PART NAME                | PART NO   | DESCRIPTION  | 01 | 02 | 03 05 07 |

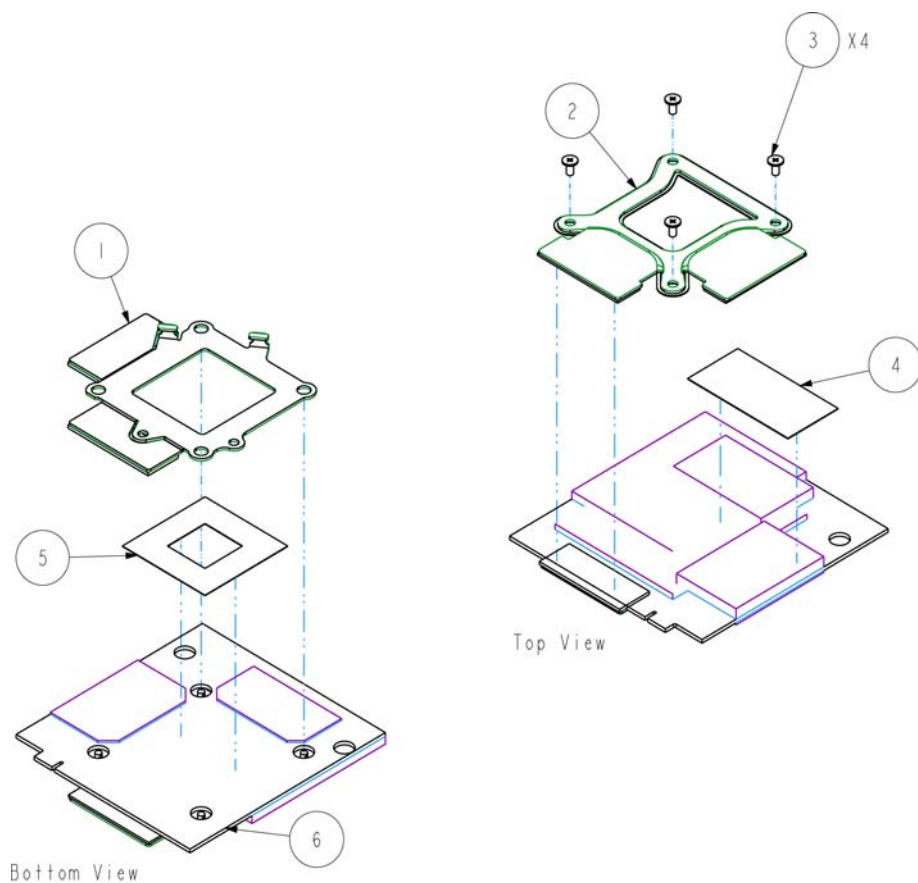




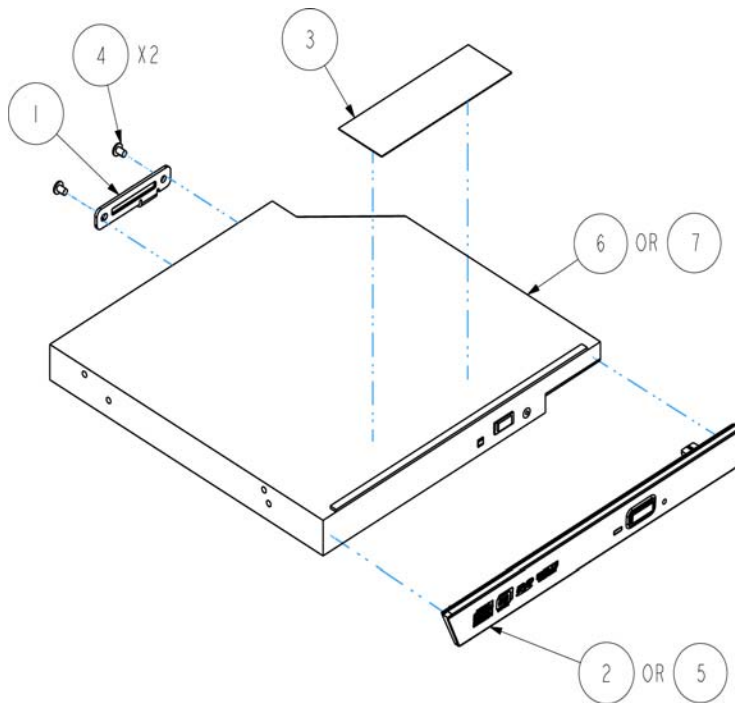
|      |                                     |              |   |    |    |    |    |
|------|-------------------------------------|--------------|---|----|----|----|----|
| 7    |                                     | 6022B0056802 | HDD, SATA, 320GB, 5.4KRPM, 22P, 12ms, 5.5ms, SATA 2.0, 2.5X0.37, M3 |    |    |    | 1  |
| 6    |                                     | 6022B0056103 | HDD, SATA, 250GB, 5.4KRPM, 22P, 12ms, 5.6ms, SATA 1.0, 2.5X0.37, M3 |    |    | 1  |    |
| 5    |                                     | 6022B0067902 | HDD, SATA, 160GB, 5.4KRPM, 22P, 12ms, 5.6ms, SATA 2.0, 2.5X0.37, M3 |    | 1  |    |    |
| 4    |                                     | 6022B0056101 | HDD, SATA, 120GB, 5.4KRPM, 22P, 12ms, 5.6ms, SATA 1.0, 2.5X0.37, M3 | 1  |    |    |    |
| 3    |                                     | 6060B0221401 | LABEL, BLANK, REEL, 60mm, 20mm                                      | 1  | 1  | 1  | 1  |
| 2    | HDD, MYLAR                          | 6054B0432201 | INSULATOR, HDD, LUMIRROR S10+AL                                     | 1  | 1  | 1  | 1  |
| 1    | SCREW-W130030M15.0Dx1.5T1-NI-HARDEN | 6052A0029401 | SCREW-W130030M15.0Dx1.5T1-NI-HARDEN                                 | 4  | 4  | 4  | 4  |
| ITEM | PART NAME                           | PART NO      | DESCRIPTION   | 01 | 02 | 03 | 04 |



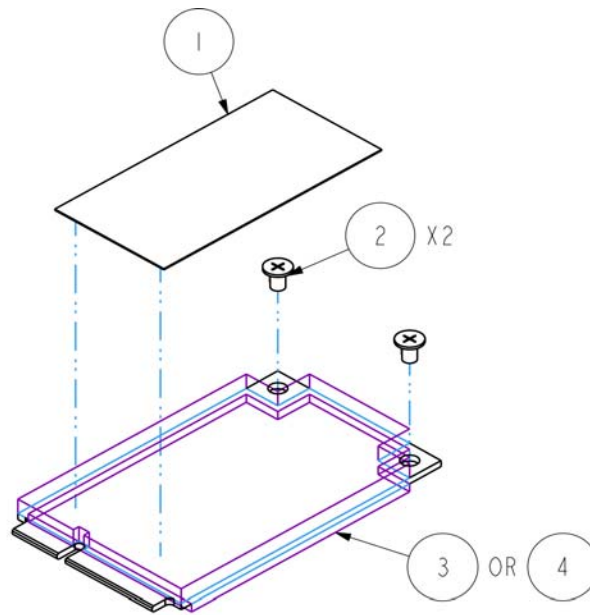
| 3    |           | 6021B0098101 | MEMORY MODULE, 2GB, PC3-8500, DDR3, 204P, 256MX6 |
|------|-----------|--------------|--|
| 2    |           | 6021B0098201 | MEMORY MODULE, 1GB, PC3-8500, DDR3, 204P, 128MX6 |
| 1    |           | 6060B0221401 | LABEL, BLANK, REEL, 60mm, 20mm                   |
| ITEM | PART NAME | PART NO      | DESCRIPTION                                      |



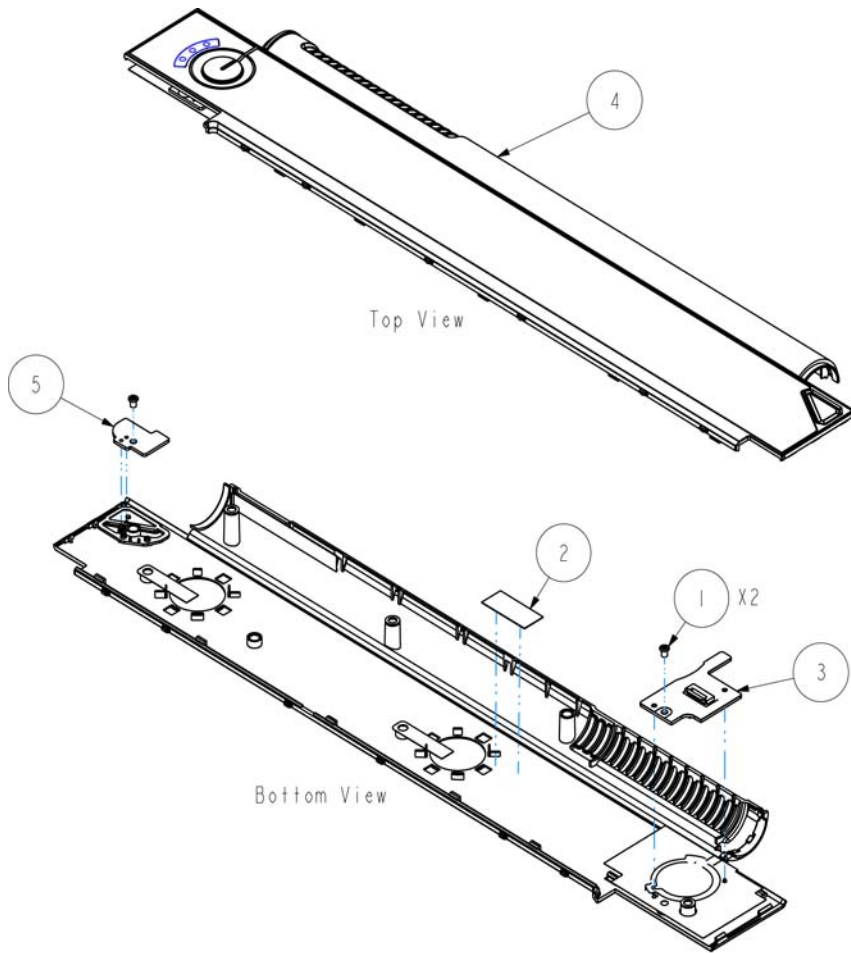
| 6    |                   | 6042B0096801 | MODULE,MXM GRAPHICS,PCI-EXPRESS          | 1    |
|------|-------------------|--------------|--|------|
| 5    | MXM INSULATOR     | 6054B0040101 | INSULATOR,PCB,MXM,PC                     | 1    |
| 4    |                   | 6060B0238501 | LABEL,BLANK,REEL,40mm,20mm               | 1    |
| 3    | SCREW 120040M     | 6052A0036901 | SCREW,1,M2.0,4mm,M,4.5mm,0.5mm,BNI,PATCH | 4    |
| 2    |                   | 6053B0227901 | BRACKET,VGA,BOTTOM,SECC                  | 1    |
| 1    | BRACKET, TOP, GPU | 6053B0346901 | BRACKET, TOP, GPU, SECC                  | 1    |
| ITEM | PART NAME         | PART NO      | DESCRIPTION                              | Q'TY |



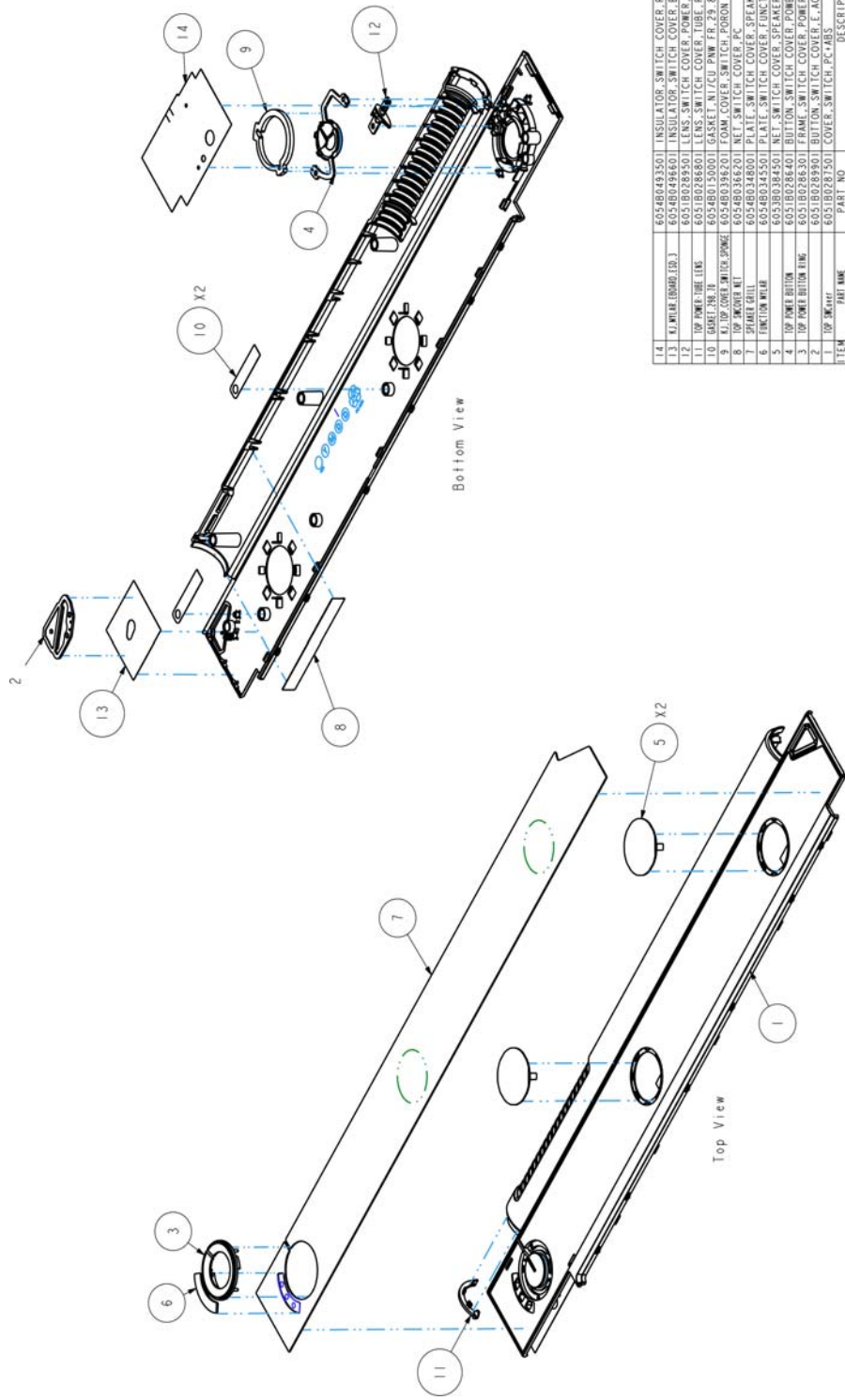
|      |               |              |  |    |    |
|------|---------------|--------------|--|----|----|
| 7    |               | 6029B0025802 | DVD, SUPER MULTI, 5X, 8X, 6X, 8X, 8X, M2, 128X12.7X126.1mm, SLIM | 1  |    |
| 6    |               | 6029B0026901 | DVD, BD-COMBO, 8X, 16X, 10X, 24X, M2, 128X12.7X126.1mm, SLIM     | 1  |    |
| 5    |               | 1510B0468002 | ASSEMBLY, BEZEL, ODD, OFFLINE                                    |    | 1  |
| 4    |               | 6052A0004501 | SCREW-120030M1.4.00*0.4T1-BK-PATCH                               | 2  | 2  |
| 3    |               | 6060B0221401 | LABEL, BLANK, REEL, 60mm, 20mm                                   | 1  | 1  |
| 2    |               | 1510B0468001 | ASSEMBLY, BEZEL, ODD, OFFLINE                                    | 1  |    |
| 1    | CDROM BRACKET | 6053B0031001 | BRACKET, BOTTOM, ODD, SECC                                       | 1  | 1  |
| ITEM | PART NAME     | PART NO      | DESCRIPTION  | 01 | 02 |



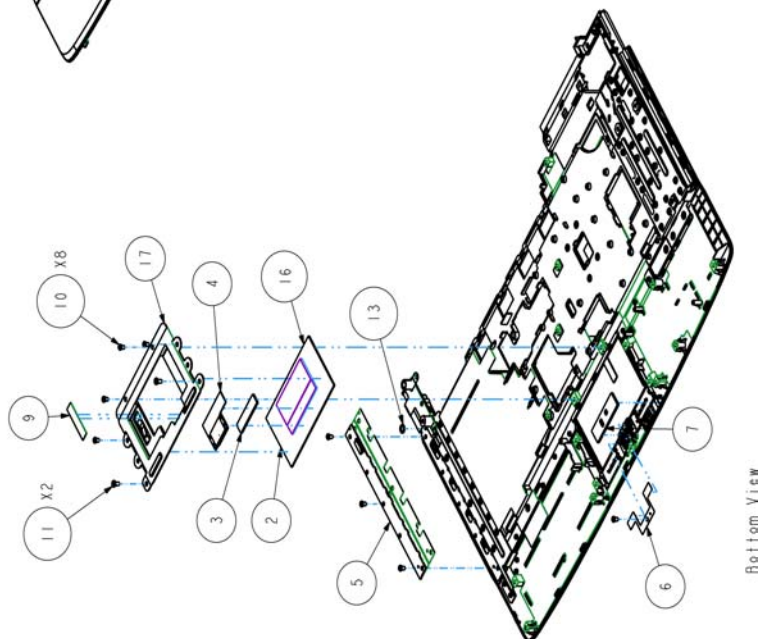
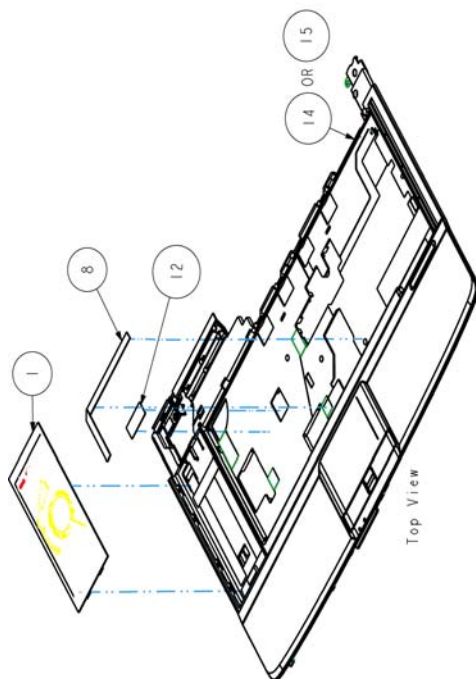
|      |           |              |  |    |    |
|------|-----------|--------------|--|----|----|
| 4    |           | 6042B0098701 | MODULE, ROBSON, 2GB                      |    | 1  |
| 3    |           | 6042B0089901 | MODULE, TURBO MEMORY, FULL MINI PCI-E/4G | 1  |    |
| 2    |           | 6052A0004501 | SCREW-120030M(4.0D*0.4T)-BK-PATCH        | 2  | 2  |
| 1    |           | 6060B0238501 | LABEL, BLANK, REEL, 40mm, 20mm           | 1  | 1  |
| ITEM | PART NAME | PART NO      | DESCRIPTION                              | 01 | 02 |



| 5    |                      | 1397B0043201 | ASSEMBLY,MODULE,EKEY              | 1    |
|------|----------------------|--------------|-----------------------------------|------|
| 4    |                      | 1510B0586901 | ASSEMBLY,COVER,SWITCH,OFFLINE     | 1    |
| 3    |                      | 1310A2230001 | ASSEMBLY,BOARD,PWR BUTTON         | 1    |
| 2    |                      | 6060A0086501 | LABEL,BLANK-050-25x11             | 1    |
| 1    | TOP CASE HINGE SCREW | 6052A0024301 | SCREW-125030M(4.0DX0.8T)-BK-PATCH | 2    |
| ITEM | PART NAME            | PART NO      | DESCRIPTION                       | Q'TY |

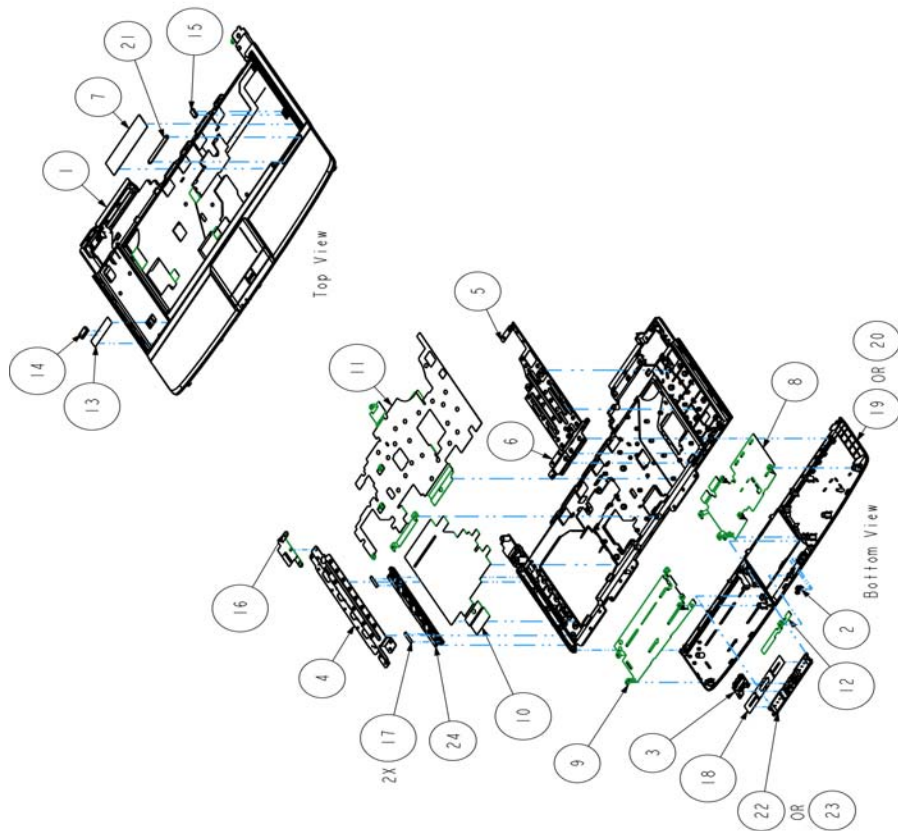


| ITEM | PART NAME                  | PART NO.     | DESCRIPTION                              | P.17 |
|------|----------------------------|--------------|--|------|
| 14   | KJ MIDDLE FRAME (20.3      | 605480403501 | INSULATOR SWITCH COVER POWER PET         | 1    |
| 13   | KJ MIDDLE FRAME (20.3      | 605480404601 | INSULATOR SWITCH COVER EDITION PET500    | 1    |
| 12   | TOP POWER LENS             | 605180289501 | LENS SWITCH COVER POWER PC               | 1    |
| 11   | BASE LENS II               | 605480150001 | GASKET NI/CU PWW FR. 79.8mm, Tmm. 0.13mm | 2    |
| 10   | KJ TOP COVER SWITCH SPONGE | 605480396201 | FOAM COVER SWITCH POSITION M24 ADHESIVE  | 1    |
| 9    | KJ TOP COVER SWITCH        | 605480386201 | NET SWITCH COVER POWER PC                | 1    |
| 8    | TOP POWER NET              | 605480386201 | NET SWITCH COVER POWER PC                | 1    |
| 7    | FUNCTION MIDDLE            | 605480386201 | NET SWITCH COVER POWER PC                | 1    |
| 6    | FUNCTION MIDDLE            | 605480386201 | NET SWITCH COVER POWER PC                | 1    |
| 5    | TOP POWER BUTTON           | 605380384501 | NET SWITCH COVER SPEAKER SPCC            | 2    |
| 4    | TOP POWER BUTTON           | 605180286401 | BUTTON SWITCH COVER POWER PC/ABS PLATE   | 1    |
| 3    | TOP POWER BUTTON           | 605180286301 | FRAME SWITCH COVER POWER ABS PLATE       | 1    |
| 2    | TOP POWER BUTTON           | 605180289901 | FRAME SWITCH COVER POWER ABS PLATE       | 1    |
| 1    | TOP POWER BUTTON           | 605180287501 | COVER SWITCH PC/ABS                      | 1    |

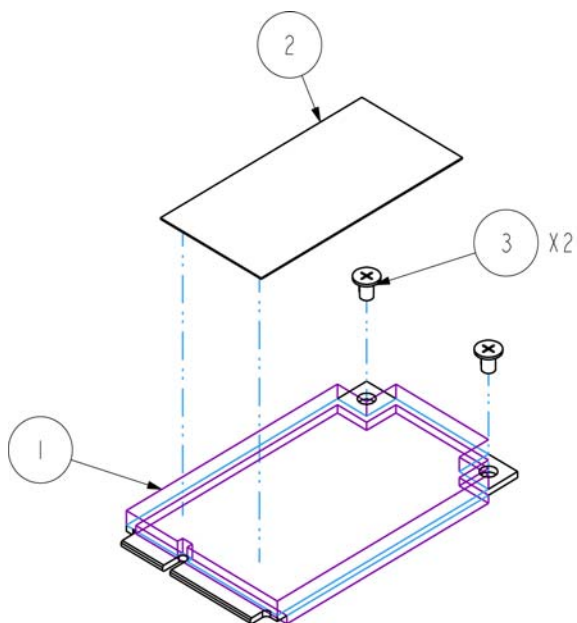


|      |              |   |             |       |
|------|--------------|---|-------------|-------|
| 17   | 6053B0347702 | BRACKET, TOP, TOUCH PAD, SGCC                                     | 1           | 1     |
| 16   | 1397B0040401 | ASSEMBLY, MODULE, TH BUTTON                                       | 1           | 1     |
| 15   | 1510B0539202 | ASSEMBLY, CASE, TOP, OFFLINE                                      | 1           | 1     |
| 14   | 1510B0539201 | ASSEMBLY, CASE, TOP, OFFLINE                                      | 1           | 1     |
| 13   | 6052B0034101 | WASHER, FLAT, 3.5mm, 6mm, 0.3mm, AL PLATE                         | 1           | 1     |
| 12   | 6060A0086501 | LABEL, BLANK-050-25x11  | 1           | 1     |
| 11   | 6052A0009901 | SCREW, 1.02, 5x0.45, 4.0mm, MACH, 4.5mm, 1.0mm, CROSS, BNI, PATCH | 2           | 2     |
| 10   | 6052A0024301 | SCREW-125030M14.00X0.8T1-BK-PATCH                                 | 8           | 8     |
| 9    | 6035B0025301 | FFC, 6P, 1L, 1.18X0.27X0.01, PET, S                               | 1           | 1     |
| 8    | 6035B0025701 | FFC, 12P, 1L, 4.7X0.3X0.01, PET, S                                | 1           | 1     |
| 7    | 6054B0405901 | FOAM, CHARGE LENS, ML24   | 1           | 1     |
| 6    | 6054B0396901 | GASKET, FINGER, NI/CU PPM FR                                      | 1           | 1     |
| 5    | 1397B0033201 | ASSEMBLY, MODULE, HOTKEY  | 1           | 1     |
| 4    | 6042B0086001 | MODULE, FINGER, PRINTER   | 1           | 1     |
| 3    | 6054B0367301 | FOAM, MO48, 30.0mm, 8.0mm, 1.3mm                                  | 1           | 1     |
| 2    | 6034B0006601 | TOUCH PAD, NO BUTTON, 12P, 19.7X47.7                              | 1           | 1     |
| 1    | 1397B0037201 | ASSEMBLY, MODULE, MEDIA   | 1           | 1     |
| ITEM |              | PART NO   | DESCRIPTION | 01 02 |

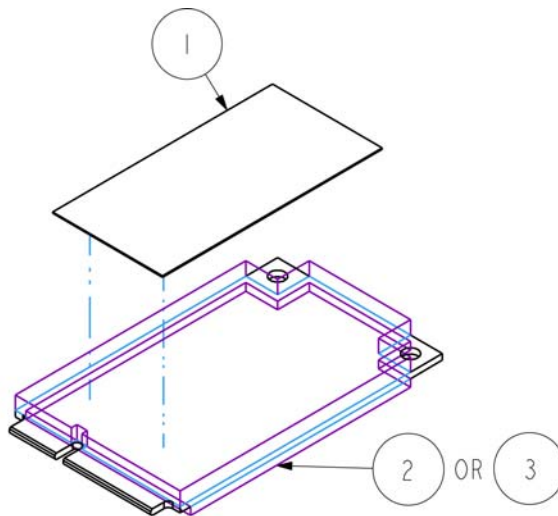




|                |                             |              |   |    |    |
|----------------|-----------------------------|--------------|---|----|----|
| 24             | TOP Hotkey Button           | 6051B0289301 | BUTTON, TOP, HOTKEY, PC, COAT/LC                                    | 1  | 1  |
| 23             | TI, TOP, BUTTON, PICK       | 6051B0286602 | BUTTON, TOUCH PAD, PC+ABS, COAT                                     | 1  | 1  |
| 22             | TI, TOP, BUTTON, PICK       | 6051B0286601 | BUTTON, TOUCH PAD, PC+ABS, IMR                                      | 1  | 1  |
| 21             | ASPIRE LOGO                 | 6054B0348303 | NAMEPLATE, ASPIRE 6935, 45, 0mm, 5, 0mm, 1, 2mm, ACRYLIC, PVD/PRINT | 1  | 1  |
| 20             | TOP Palmrest                | 6051B0287704 | CASE, TOP, PALMREST, PC+ABS, COAT/PRINT/AC-MT-020                   | 1  | 1  |
| 19             | TOP Palmrest                | 6051B0287703 | CASE, TOP, PALMREST, PC+ABS, IMR/AC-MT-020                          | 1  | 1  |
| 18             | PICK-BUTTON SHIELD          | 6053B0409801 | SHIELD, PICK BUTTON, AL FOIL  | 1  | 1  |
| 17             |                             | 6054B0390801 | INSULATOR, BUTTON, PC8010   | 2  | 2  |
| 16             | K/J, TOP, AB, GASKET        | 6054B0396101 | GASKET, TOP, KEYBOARD, NI/CU PPW FR                                 | 1  | 1  |
| 15             | GASKET, 106x12              | 6054A0045901 | GASKET-PC7455-USB-0116x2x10L  | 1  | 1  |
| 14             | GASKET, 130X10X25           | 6054B0215801 | GASKET, BELOW, FAN, CONDUCTIVE                                      | 1  | 1  |
| 13             | GASKET, 40, 10              | 6054B0281701 | GASKET, NI/CU PPW FR, 40mm, 0mm, 0, 1mm                             | 1  | 1  |
| 12             | K/J, TOP, TP, AL, FOIL      | 6053B0381501 | SHIELD, TOP, TP, AL FOIL  | 1  | 1  |
| 11             | K/J, TOP, AB, MB, AL, FOIL  | 6053B0366501 | SHIELD, TOP, K/B, FRAME, AL FOIL                                    | 1  | 1  |
| 10             | K/J, TOP, AB, 000, AL, FOIL | 6053B0366201 | SHIELD, TOP, K/B, FRAME, AL FOIL, 000                               | 1  | 1  |
| 9              | K/J, TOP, AL, FOIL, R       | 6053B0366301 | SHIELD, TOP, RIGHT, AL FOIL   | 1  | 1  |
| 8              | K/J, TOP, AL, FOIL, L       | 6053B0366401 | SHIELD, TOP, LEFT, AL FOIL  | 1  | 1  |
| 7              |                             | 6054B0412401 | INSULATOR, CASE, AB, FRAME, 80mm, 20mm, 0, 4mm, FR700               | 1  | 1  |
| 6              | 1/1, top, brkt, palmrest    | 6053B0347101 | BRACKET, TOP, PALMREST, SGCC  | 1  | 1  |
| 5              | K/J, TOP, BRKT, HINGE, L    | 6053B0345601 | BRACKET, TOP, LEFT, SGCC  | 1  | 1  |
| 4              | K/J, TOP, BRKT, HINGE, R    | 6053B0345001 | BRACKET, TOP, RIGHT, SUS301   | 1  | 1  |
| 3              | TOP PICK BUTTON BRACKET     | 6053B0347601 | BRACKET, TOP, PICK BUTTON, AL                                       | 1  | 1  |
| 2              | TOP Charge Lens             | 6051B0289401 | LENS, TOP, CHARGE, PC   | 1  | 1  |
| 1              | TOP Keyboard Frame          | 6051B0287601 | CASE, TOP, K/B, FRAME, PC+ABS, PRINT                                | 1  | 1  |
| ITEM PART NAME |                             | PART NO      | DESCRIPTION   | Q1 | Q2 |




| 3    |           | 6052A0004501 | SCREW-120030M(4.0D*0.4T)-BK-PATCH | 2    |
|------|-----------|--------------|-----------------------------------|------|
| 2    |           | 6060B0238501 | LABEL,BLANK,REEL,40mm,20mm        | 1    |
| 1    |           | 6042B0084401 | MODULE,DVBT CARD,MINI CARD        | 1    |
| ITEM | PART NAME | PART NO      | DESCRIPTION                       | Q'TY |




|      |           |              |  |    |    |
|------|-----------|--------------|--|----|----|
| 3    |           | 6042B0099201 | MODULE, PCIE MIMO CARD, 802.11B/G/N        |    | 1  |
| 2    |           | 6042B0099301 | MODULE, WIRELESS LAN, MINI PCI 802.11B/G/N | 1  |    |
| 1    |           | 6060B0238501 | LABEL, BLANK, REEL, 40mm, 20mm             | 1  | 1  |
| ITEM | PART NAME | PART NO      | DESCRIPTION                                | 01 | 02 |

# Aspire 6935G FRU List


## Accessory

| Category  | Part Name and Description                  | Acer Part No. |
|---|--|---------------|
|   | REMOTE CONTROLLER FOMOSA21 RC804V-B EU     | RT.22700.008  |
|   | REMOTE CONTROLLER FOMOSA21 RC804V-B TC     | RT.22700.009  |
|   | REMOTE CONTROLLER FOMOSA21 RC804V-B SC     | RT.22700.010  |
|   | REMOTE CONTROLLER FOMOSA21 RC804V-B EN     | RT.22700.011  |
|   | WISTRON ACER XPRESS CARD PHONE KIT REV 2.0 | LC.VIP00.014  |
|  | EXTERNAL ANTENNA SET                       | 25.AAMVN.004  |

## Adapter

| Category   | Part Name and Description  | Acer Part No. |
|--|--|---------------|
|  | ADAPTER 65W 3PINS DELTA SADP-65KB DFA YELLOW 1.7X5.5X11 LF LEVEL4        | AP.06501.013  |
|  | ADAPTER 65W 3PINS LITEON PA-1650-02AC 1.7X5.5X11 LF LEVEL4               | AP.06503.016  |
|  | ADAPTER 65W 3PINS HIPRO HP-OK065B13 1.7X5.5X11 LF LEVEL4                 | AP.0650A.010  |
|  | ADAPTER 90W 3PINS DELTA ADP-90SB BBEA 1.7X5.5X11 LF LEVEL4               | AP.09001.013  |
|  | ADAPTER 90W LITE-ON PA-1900-24AR BLUE 1.7X5.5X11 LF LEVEL4               | AP.09003.011  |
|  | ADAPTER 90W HIPRO HPOL093B13P BLUE 1.7X5.5X11 LF LEVEL4                  | AP.0900A.001  |
|  | ADAPTER 65W 3PINS DELTA SADP-65KB BFJA 1.7X5.5X11 LF LEVEL4 FOR OBL SPEC | AP.6501.014   |





## Battery

| Category  | Part Name and Description                            | Acer Part No. |
|---|--|---------------|
|  | BATTERY LI-ION 6CELL SANYO AS-2007B 3S2P 4400MAH     | BT.00603.042  |
|   | BATTERY LI-ION 6CELL SONY AS-2007B 3S2P 4400MAH      | BT.00604.025  |
|   | BATTERY LI-ION 6CELL PANASONIC AS-2007B 3S2P 4400MAH | BT.00605.021  |
|   | BATTERY LI-ION 6CELL SIMPLO AS-2007B 3S2P 4400MAH    | BT.00607.016  |
|   | BATTERY LI-ION 8CELL SANYO AS-2007B 4S2P 4800MAH     | BT.00803.024  |
|   | BATTERY LI-ION 8CELL SONY AS-2007B 4S2P 4800MAH      | BT.00804.020  |
|   | BATTERY LI-ION 8CELL PANASONIC AS-2007B 4S2P 4800MAH | BT.00805.011  |
|   | BATTERY LI-ION 8CELL SIMPLO AS-2007B 4S2P 4800MAH    | BT.00807.015  |





## Board

| Category  | Part Name and Description                     | Acer Part No. |
|---|---|---------------|
|   | BLUETOOTH BOARD FOXCONN BCM2045 V2 T60H928.11 | BT.21100.005  |
|  | LED BOARD RIGHT                               | 55.APQ0N.009  |
|  | LED BOARD LEFT                                | 55.APQ0N.010  |
|  | TOUCHPAD BUTTON BOARD                         | 55.ATP0N.002  |
|  | HOTKEY BOARD                                  | 55.APQ0N.002  |
|  | MEDIA BOARD MODULE                            | 55.APQ0N.005  |

| Category  | Part Name and Description   | Acer Part No. |
|---|---|---------------|
|    | POWER BUTTON BOARD  | 55.ATP0N.003  |
|    | E-KEY BOARD   | 55.ATP0N.001  |
|    | USB BOARD W/O TV CABLE  | 55.APQ0N.008  |
|    | USB BOARD WITH TV CABLE   | 55.AP40N.001  |
|    | I/O BOARD   | 55.APQ0N.007  |
|   | VGA CARD nVidia NB8P-GS DDRII 512MB 400MHz 32*16 MXM II w/ HDCP (IEC VBIOS)                                   | 55.AKE0N.004  |
|   | Yuan VGA Card nVidia NB9P-GS GDDRIII 512M 800MHz 32*32 MXM II w/ HDCP w/ MPS PowerIC w/DP support Ver. A3     | VG.9PG0Y.005  |
|   | MSI VGA Card nVidia NB9P-GS GDDRIII 512M 800MHz 32*32 MXM II w/ HDCP w/ Intersil PowerIC w/DP support Ver. A3 | VG.9PG06.006  |
|  | WIRELESS LAN BOARD 802.11BGN FOXCONN T77H053.00 Atheros AR5B91 1X2  | NI.23600.030  |
|   | WIRELESS LAN BOARD 802.11BGN FOXCONN T77H028.00 RALINK RT2700E 1X2  | NI.23600.031  |
|   | WIRELESS LAN BOARD 512AN_HMWG SHIRLEY PEAK 5100 MM#895373 (HALF MINI-CARD)                                    | KI.SPH01.003  |
|   | WIRELESS LAN BOARD 512AN_MMWG SHIRLEY PEAK 5100 MM#895361   | KI.SPM01.003  |
|   |   | KI.SPH01.001  |
|   | WIRELESS LAN BOARD 533AN_MMWG SHIRLEY PEAK MM#895362  | KI.SPM01.001  |
|  | TV TUNER MINI CARD AVERMEDIA DVB-T A309 REV 1.0   | TU.23100.014  |
|   | TV TUNER MINI CARD AVERMEDIA DVB-T A310 REV 1.0   | TU.23100.010  |


| Category  | Part Name and Description   | Acer Part No. |
|---|---|---------------|
|  | FLASH MODULE 2GB INTEL<br>NVCPWMWR002G2 LF  | KF.2GB0N.002  |
|   | FLASH MODULE 4GB INTEL<br>NVCPWMWR004G2 LF  | KF.4GB0N.002  |
|  | FINGER PRINT BOARD  | 55.APQ0N.001  |
|  | TOUCHPAD SYNAPTICS TM-00372-012   | 56.APQ0N.001  |
|  | MODEM BOARD MDC 1.5 FOXCONN<br>T60M951.36 (AGERE 1.5_ 3.3V)<br>AUSTRALIA APPROVED | FX.22500.023  |

## Cable

| Category  | Part Name and Description              | Acer Part No. |
|---|--|---------------|
|   | POWER CORD 3PIN USA                    | 27.AAMVN.001  |
|   | POWER CORD 3PIN EUR                    | 27.AAMVN.002  |
|   | POWER CORD 3PIN SOUTH AFRICA           | 27.AAMVN.008  |
|   | POWER CORD 3PIN DENMARK                | 27.AAMVN.010  |
|   | POWER CORD ISRAEL                      | 27.AAMVN.011  |
|   | POWER CORD 3PIN ITALIAN                | 27.AAMVN.009  |
|   | POWER CORD 3PIN UK                     | 27.AAMVN.004  |
|   | POWER CORD 3PIN SWISS                  | 27.AAMVN.006  |
|   | POWER CORD AUSTRALIA W/LABEL           | 27.AAMVN.003  |
|   | POWER CORD 3PIN CHINA                  | 27.AAMVN.005  |
|   | POWER CORD SOUTH AFRICA (AIL)          | 27.AAMVN.007  |
|   | POWER CORD 3PIN USA                    | 27.AAMVN.001  |
|  | "LCD/CAMERA CABLE 16" "WUXGA/<br>WXGA" | 50.APQ0N.012  |
|   | "LCD/CAMERA CABLE 16""WXGA"            | 50.APQ0N.013  |
|  | DC-IN CABLE                            | 50.APQ0N.011  |
|  | DC-IN CABLE                            | 50.APD0N.001  |

| Category  | Part Name and Description | Acer Part No. |
|---|---------------------------|---------------|
|    | MODEM CABLE WITH RJ11     | 50.APQ0N.010  |
|    | BLUETOOTH BOARD CABLE     | 50.APQ0N.009  |
|    | FINGER PRINT BOARD CABLE  | 50.APQ0N.001  |
|    | HOTKEY BOARD CABLE        | 50.APQ0N.002  |
|    | POWER BUTTON BOARD CABLE  | 50.APQ0N.003  |
|   | TOUCH BUTTON BOARD CABLE  | 50.APQ0N.004  |
|  | MEDIA BOARD CABLE         | 50.APQ0N.005  |
|  | E-KEY BOARD CABLE         | 50.APQ0N.006  |
|  | USB BOARD CABLE           | 50.APQ0N.007  |
|  | TOUCHPAD CABLE            | 50.APQ0N.008  |

## Camra

| Category  | Part Name and Description          | Acer Part No. |
|---|------------------------------------|---------------|
|  | CAMERA 0.3M SUYIN                  | 57.APQ0N.001  |
|   | CAMERA 0.3M BISON BN30V4O7-010     | 57.ASY0N.001  |
|   | CAMERA 1.0M SUYIN CN1014-S36B-OV01 | 57.ASY0N.002  |




## CASE/COVER/BRACKET ASSEMBLY


| Category  | Part Name and Description        | Acer Part No. |
|---|----------------------------------|---------------|
|    | MINI DUMMY CARD                  | 42.APQ0N.008  |
|    | SD DUMMY CARD                    | 42.APQ0N.009  |
|    | BD COMBO BEZEL                   | 42.APQ0N.005  |
|   | SUPER-MULTI BEZEL                | 42.APQ0N.004  |
|    | LCD COVER 16"                    | 60.ATP0N.003  |
|    | LCD BEZEL 16"                    | 60.APQ0N.004  |
|   | LCD BRACKET RIGHT                | 33.APQ0N.004  |
|  | LCD BRACKET LEFT                 | 33.APQ0N.005  |
|  | UPPER CASE WITH FINGERPRINT HOLE | 60.ATP0N.002  |
|  | TOUCHPAD BRACKET                 | 33.ASY0N.001  |
|  | LOWER CASE WITH TV PORT          | 60.ATQ0N.001  |
|   | LOWER CASE W/O TV PORT           | 60.ATP0N.001  |
|  | MIDDLE COVER                     | 42.APQ0N.001  |

| Category  | Part Name and Description  | Acer Part No. |
|---|----------------------------|---------------|
|    | UNILoad COVER              | 42.ATP0N.002  |
|    | MPCI COVER                 | 42.APQ0N.003  |
|    | OPTICAL BRACKET            | 33.AAMVN.002  |
|    | KENSINGTON BRACKET         | 33.APQ0N.006  |
|    | HINGE COVER ASSEMBLY LEFT  | 42.APQ0N.007  |
|    | HINGE COVER ASSEMBLY RIGHT | 42.APQ0N.006  |
|  | VGA BRACKET TOP            | 33.APQ0N.003  |
|  | VGA BRACKET BOTTOM         | 33.AKE0N.005  |
|  | HALF MINI-CARD BRACKET     | 33.TQP0N.002  |


## CPU/PROCESSOR

| Category  | Part Name and Description                          | Acer Part No. |
|---|--|---------------|
|  | CPU INTEL CORE2DUAL P8400 PGA<br>2.26G 3M 1066 25W | KC.84001.DPP  |
|   | CPU INTEL CORE2DUAL P8600 PGA<br>2.4G 1066 25W 3M  | KC.86001.DPP  |
|   | CPU INTEL CORE2DUAL P9500 PGA<br>2.53G 6M 1066 25W | KC.95001.DPP  |
|   | CPU INTEL CORE2DUAL T9400 PGA<br>2.53G 6M 1066 35W | KC.94001.DTP  |
|   | CPU INTEL CORE2DUAL T9600 PGA<br>2.8G 6M 1066 35W  | KC.96001.DTP  |
|   | CPU INTEL CORE2DUAL P7350 PGA<br>2.0G 3M 1066 25W  | KC.73501.DPP  |


## DVD RW DRIVE

| Category  | Part Name and Description   | Acer Part No. |
|---|---|---------------|
|  | ODD SONY BD COMBO 12.7MM TRAY DL<br>2X BC-5500S LF W/O BEZEL SATA                     | KO.0020E.002  |
|   | ODD SONY SUPER-MULTI DRIVE<br>12.7MM TRAY DL 8X AD-7580S LF W/O<br>BEZEL SATA         | KU.0080E.017  |
|   | ODD PLDS SUPER-MULTI DRIVE 12.7MM<br>TRAY DL 8X DS-8A2S LF W/O BEZEL<br>SATA          | KU.0080F.001  |
|   | DVD-RW DRIVE 8X SUPER-MULTI TRAY<br>PIONEER DVR-KD08RS LF W/O BEZEL F/<br>W:1.00 PATA | KU.00805.043  |





## FAN

| Category  | Part Name and Description | Acer Part No. |
|---|---------------------------|---------------|
|  | FAN                       | 23.APQ0N.001  |


## INVERTER

| Category  | Part Name and Description  | Acer Part No. |
|---|----------------------------|---------------|
|  | INVERTER BOARD TDKTBD484NR | 19.APQ0N.001  |



## HEATSINK

| Category  | Part Name and Description | Acer Part No. |
|---|---------------------------|---------------|
|  | CPU HEATSINK FOR 965GM    | 60.APD0N.002  |
|  | CPU HEATSINK FOR 965PM    | 60.APQ0N.003  |
|  | CPU HEATSINK FINGER       | 33.APD0N.001  |
|  | CPU HEATSINK FINGER       | 33.APQ0N.002  |

## LCD

| Category  | Part Name and Description   | Acer Part No. |
|---|---|---------------|
|  | "LCD 16"<br>"WXGA SAMSUNG LTN160AT01-A01<br>GLARE LF 220NIT 8MS 600:1 16:9"       | LK.16006.001  |
|   | "LCD 16"<br>"WXGA SAMSUNG LTN160AT01-A02<br>GLARE LF 220NIT 8MS"                  | LK.16006.003  |
|   | "LCD 16"<br>"WUXGA SAMSUNG LTN160HT01-A02<br>GLARE LF 220NIT 8MS 600:1 60%, 16:9" | LK.16006.004  |


## MAIN BOARD

| Category  | Part Name and Description                     | Acer Part No. |
|---|---|---------------|
|  | MAINBOARD AS6935G DISCRETE INTEL PM45 ICH9 LF | MB.ATN0B.002  |
|  | MAINBOARD AS6935 UMA INTEL GM45 ICH9 LF       | MB.ATN0B.001  |


## HDD/HARD DISK DRIVER

| Category  | Part Name and Description   | Acer Part No. |
|---|---|---------------|
|  | HDD 120GB SATA 5400RPM SEAGATE ST9120817AS CORSAIR LF F/W:3.AAA   | KH.12001.032  |
|   | HDD 120GB 5400RPM SATA TOSHIBA MK1252GSX LF F/W:LV010J            | KH.12004.008  |
|   | HDD 120GB 5400RPM SATA HGST HTS543212L9A300 LF F/W:C40C           | KH.12007.016  |
|   | HDD 120GB 5400RPM SATA WD WD1200BEVS-22UST0 ML125 LF F/W:01.01A01 | KH.12008.019  |
|   | HDD 160GB 5400RPM SATA SEAGATE ST9160310AS CORSAIR LF F/W:30303   | KH.16001.034  |
|   | HDD 160GB 5400RPM SATA TOSHIBA MK1652GSX LF F/W:LV010J            | KH.16004.003  |
|   | HDD 160GB 5400RPM SATA HGST HTS543216L9A300 LF F/W:C40C           | KH.16007.019  |
|   | HDD 160GB 5400RPM SATA WD WD1600BEVT-22ZCT0 ML160 LF F/W:11.01A11 | KH.16008.022  |
|   | HDD 160GB 5400RPM SATA SEAGATE ST9250827AS CORSAIR LF F/W:3.AAA   | KH.25001.011  |
|   | HDD 250GB 5400RPM SATA TOSHIBA MK2552GSX LF F/W:LV010J            | KH.25004.002  |
|   | HDD 250GB 5400RPM SATA HGST HTS543225L9A300 LF F/W:C40C           | KH.25007.013  |
|   | HDD 250GB 5400RPM SATA WD WD2500BEVS-22UST0 ML125 LFF/W:01.01A01  | KH.25008.018  |
|   | HDD 320GB 5400RPM SATA WD WD3200BEVT-22ZCT0 ML160 LF F/W:11.01A11 | KH.32008.013  |
|   | HDD 320GB 5400RPM SATA SEAGATE ST9320320AS LF F/W:0303            | KH.32001.008  |
|   | HDD 320GB 5400RPM SATA SEAGATE ST9320320AS LF F/W:0303            | KH.32004.001  |
|   | HDD 320GB 5400RPM SATA TOSHIBA MK3252GSX LF F/W:LV010J            | KH.32007.004  |

## SPEAKER


| Category  | Part Name and Description | Acer Part No. |
|---|---------------------------|---------------|
|  | SPEAKER SET W/ SUBWOOFER  | 23.APQ0N.002  |

## KEYBOARD

| Category  | Part Name and Description                                     | Acer Part No. |
|---|---|---------------|
|  | KEYBOARD 15_16KB-FV1 88KS BLACK US INTERNATIONAL (GLOSSY)     | KB.INT00.261  |
|   | KEYBOARD 15_16KB-FV1 89KS BLACK TURKISH (GLOSSY)              | KB.INT00.264  |
|   | KEYBOARD 15_16KB-FV1 88KS BLACK THAILAND (GLOSSY)             | KB.INT00.265  |
|   | KEYBOARD 15_16KB-FV1 89KS BLACK SWISS/G (GLOSSY)              | KB.INT00.266  |
|   | KEYBOARD 15_16KB-FV1 89KS BLACK SWEDISH (GLOSSY)              | KB.INT00.267  |
|   | KEYBOARD 15_16KB-FV1 89KS BLACK SPANISH (GLOSSY)              | KB.INT00.268  |
|   | KEYBOARD 15_16KB-FV1 89KS BLACK SLOVAK (GLOSSY)               | KB.INT00.269  |
|   | KEYBOARD 15_16KB-FV1 89KS BLACK SLO/CRO (GLOSSY)              | KB.INT00.270  |
|   | KEYBOARD 15_16KB-FV1 88KS BLACK RUSSIAN (GLOSSY)              | KB.INT00.271  |
|   | KEYBOARD 15_16KB-FV1 89KS BLACK PORTUGUESE (GLOSSY)           | KB.INT00.272  |
|   | KEYBOARD 15_16KB-FV1 89KS BLACK POLISH (GLOSSY)               | KB.INT00.273  |
|   | KEYBOARD 15_16KB-FV1 89KS BLACK NORWEGIAN (GLOSSY)            | KB.INT00.274  |
|   | KEYBOARD 15_16KB-FV1 88KS BLACK KOREAN (GLOSSY)               | KB.INT00.276  |
|   | KEYBOARD 15_16KB-FV1 88KS BLACK JAPANESE (GLOSSY)             | KB.INT00.277  |
|   | KEYBOARD 15_16KB-FV1 89KS BLACK ITALIAN (GLOSSY)              | KB.INT00.278  |
|   | KEYBOARD 15_16KB-FV1 89KS BLACK HUNGARIAN (GLOSSY)            | KB.INT00.281  |
|   | KEYBOARD 15_16KB-FV1 88KS BLACK GREEK (GLOSSY)                | KB.INT00.282  |
|   | KEYBOARD 15_16KB-FV1 89KS BLACK GERMAN (GLOSSY)               | KB.INT00.283  |
|   | KEYBOARD 15_16KB-FV1 89KS BLACK FRENCH (GLOSSY)               | KB.INT00.284  |
|   | KEYBOARD 15_16KB-FV1 89KS BLACK DUTCH (GLOSSY)                | KB.INT00.286  |
|   | KEYBOARD 15_16KB-FV1 89KS BLACK DANISH (GLOSSY)               | KB.INT00.287  |
|   | KEYBOARD 15_16KB-FV1 89KS BLACK CZECH (GLOSSY)                | KB.INT00.288  |
|   | KEYBOARD 15_16KB-FV1 88KS BLACK TRADITIONAL CHINESE (GLOSSY)  | KB.INT00.289  |
|   | KEYBOARD 15_16KB-FV1 89KS BLACK CANADIAN FRENCH (GLOSSY)      | KB.INT00.290  |
|   | KEYBOARD 15_16KB-FV1 89KS BLACK BRAZILIAN PORTUGUESE (GLOSSY) | KB.INT00.291  |
|   | KEYBOARD 15_16KB-FV1 89KS BLACK BELGIUM (GLOSSY)              | KB.INT00.292  |

| Category | Part Name and Description  | Acer Part No. |
|----------|--|---------------|
|          | KEYBOARD 15_16KB-FV1 88KS BLACK ARABIC/ENGLISH (GLOSSY)          | KB.INT00.293  |
|          | KEYBOARD 15_16KB-FV1 89KS BLACK ARABIC/FRENCH (GLOSSY)           | KB.INT00.294  |
|          | KEYBOARD 15_16KB-FV1 89KS BLACK NORDIC (GLOSSY)                  | KB.INT00.295  |
|          | KEYBOARD 15_16KB-FV1 89KS BLACK ENGLISH/CANADIAN FRENCH (GLOSSY) | KB.INT00.296  |

## MEMORY

| Category  | Part Name and Description                                       | Acer Part No. |
|---|---|---------------|
|  | SO-DIMM 1GB DDRIII1066 MICRON MT8JSF12864HY-1G1D1 LF            | KN.1GB04.003  |
|   | SO-DIMM 1GB DDRIII1066 ELPIDA EBJ11UE6BAU0-AE-E LF              | KN.1GB09.009  |
|   | SO-DIMM 1GB DDRIII1066 SAMSUNG M471B2874DZ1-CF8 LF              | KN.1GB0B.019  |
|   | SO-DIMM 1GB DDRIII1066 HYNIX HMT112S6AFP6C-G7N0 LF              | KN.1GB0G.019  |
|   | SO-DIMM 2GB DDRIII1066 MICRON MT16JSF25664HY-1G1D1 LF           | KN.2GB04.004  |
|   | SO-DIMM 2GB DDRIII1066 ELPIDA EBJ21UE8BAU0-AE-E LF 128*8 0.07um | KN.2GB09.002  |
|   | SO-DIMM 2GB DDRIII1066 SAMSUNG M471B5673DZ1-CF8 LF              | KN.2GB0B.005  |
|   | SO-DIMM 2GB DDRIII1066 HYNIX HMT125S6AFP8C-G7N0 LF              | KN.2GB0G.009  |

## MISCELLANEOUS

| Category  | Part Name and Description          | Acer Part No. |
|---|------------------------------------|---------------|
|    | LCD CHUSION                        | 47.APQ0N.001  |
|    | VGA BOARD INSULATOR                | 47.AKE0N.002  |
|    | HDD INSULATOR                      | 47.ASY0N.001  |
|    | ANTENNA,DUAL,2.4/5.2G,810mm,1.37mm | 50.ATP0N.001  |
|    | ANTENNA,DUAL,2.4/5.2G,910mm,1.37mm | 50.ATP0N.002  |
|  | MICROPHONE                         | 23.ATP0N.001  |

## SCREW

| Category | Part Name and Description                           | Acer Part No. |
|----------|---|---------------|
|          | SCREW M2.5X0.45                                     | 86.APQ0N.001  |
|          | SCREW-I25030M (4.0DX0.8T)-BK-PATCH                  | 86.APQ0N.002  |
|          | SCREW   | 86.AAMVN.001  |
|          | SCREW BNI PAT                                       | 86.TLT0N.002  |
|          | SCREW I M2 6MM M 4.5MM 0.8MM PHIL BK PATCH          | 86.APQ0N.004  |
|          | SCREW I M2.5 2.5MM MACH 4.5MM 0.8MM CROSS BNI PATCH | 86.APQ0N.005  |