Aspire 2920/2920Z/2420 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

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Revision History

Please refer to the table below for the updates made on Aspire 2920/2920Z/2420 Series service guide.

Date	Chapter	Updates

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Conventions

The following conventions are used in this manual:

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

Preface

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

1. This Service Guide provides you with all technical information relating to the BASIC CONFIGURATION decided for Acer's "global" product offering. To better fit local market requirements and enhance product competitiveness, your regional office MAY have decided to extend the functionality of a machine (e.g. add-on card, modem, or extra memory capability). These LOCALIZED FEATURES will NOT be covered in this generic service guide. In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.
2. Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your 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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Chapter 1

System Specifications

Features

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

Platform

For Aspire 2920

- Intel® Centrino® Duo mobile processor technology, featuring:
- Intel® Core™2 Duo mobile processor T7300/T7500/T7700/T7800 (4 MB L2 cache, 2/2.20/2.40/2.60 GHz, 800 MHz FSB), T5250/T5450/T5550/T7100/T7250 (2 MB L2 cache, 1.50/1.66/1.83/1.80/2 GHz, 800 MHz FSB), supporting Intel® 64 architecture
- Mobile Intel® GM965 Express Chipset
- Intel® Wireless WiFi Link 4965AGN (dual-band quad-mode 802.11a/b/g/Draft-N) Wi-Fi CERTIFIED® network connection, supporting Acer SignalUp™ with InviLink™ Nplify™ wireless technology, or
- Intel® PRO/Wireless 3945ABG (dual-band tri-mode 802.11a/b/g) Wi-Fi CERTIFIED® network connection, supporting Acer SignalUp™ wireless technology

For Aspire 2920Z

- Intel® Pentium® mobile processor T2310/T2330 (1 MB L2 cache, 1.46/1.60 GHz, 533 MHz FSB),supporting Intel® 64 architecture
- Mobile Intel® GL960 Express Chipset
- Acer InviLink™ 802.11b/g Wi-Fi CERTIFIED® solution, supporting Acer SignalUp™ wireless technology

For Aspire 2420

- Intel® Celeron® mobile processor 530/540/550 (1 MB L2 cache, 1.73/1.86/2 GHz, 533 MHz FSB), supporting Intel® 64 architecture
- Mobile Intel® GL960 Express Chipset
- Acer InviLink™ 802.11b/g Wi-Fi CERTIFIED® solution, supporting Acer SignalUp™ wireless technology

System Memory

- Dual-Channel DDR2 SDRAM support
- Up to 2 GB of DDR2 533 MHz memory using two soDIMM modules (for selected models)
- Up to 2 GB of DDR2 667 MHz memory, upgradeable to 4 GB using two soDIMM modules (for selected models)

Display and graphics

- 12.1" WXGA High Brightness (200nits), Acer CrystalBrite™ TFT LCD, 1280 x 800 pixel resolution, supporting simultaneous multi-window viewing via Acer GridVista™
- Mobile Intel® GL960/GM965 Express Chipset with integrated 3D graphics, featuring Intel® Graphics Media Accelerator X3100(Intel® GMA X3100) with up to 358 MB of Intel® Dynamic Video Memory Technology 4.0 (8 MB of dedicated system memory, up to 350 MB of shared system memory), supporting Microsoft DirectX® 9
- Dual independent display support
- 16.7 million colors

- MPEG-2/DVD hardware-assisted capability (acceleration)
- WMV9 (VC-1) and H.264 (AVC) acceleration
- S-video/TV-out (NTSC/PAL) support
- AcerArcade™, featuring Acer CinemaVision™ and Acer ClearVision™ technologies

Storage subsystem

- 80/120/160/250 GB or larger hard disk drive
- Optical drive options:
  - DVD-Super Multi double-layer drive
  - DVD/CD-RW combo drive
- 5-in-1 card reader, supporting Secure Digital™ (SD), MultiMediaCard (MMC), Memory Stick® (MS), Memory Stick PRO™ (MS PRO), xD-Picture Card™ (xD)

Input devices

- 84-/85-key keyboard with inverted "T" cursor layout, 2.5 mm (minimum) key travel
- Touchpad pointing device
- 12 function keys, four cursor keys, two Windows® keys, hotkey controls, embedded numeric keypad, international language support
- Media keys (printed on keyboard): play/pause, stop, previous, next
- Empowering Key
- Easy-launch buttons: WLAN, Internet, Bluetooth, email, Acer Arcade ™
- Volume wheel

Audio

- Dolby®-certified surround sound system with two built-in stereo speakers
- Dolby® Home Theater audio enhancement featuring Dolby® Digital, Dolby® Digital Live, Dolby® Pro Logic® II, Dolby® Digital Stereo Creator, Dolby® Headphone and Dolby® Virtual Speaker technologies
- Intel® High Definition Audio support
- MS-Sound compatible
- Acer PureZone technology with two built-in stereo microphones featuring beam forming, echo cancellation, and noise suppression technologies

Communication

- Acer Video Conference, featuring:
  - Integrated Acer Crystal Eye webcam, supporting enhanced Acer PrimaLite™ technology
  - Acer PureZone technology
  - Optional Acer Xpress VoIP phone
- WLAN:
  - Intel® Wireless WiFi Link 4965AGN (dual-band quad-mode 802.11a/b/g/Draft-N) network connection, supporting Acer SignalUp™ with InviLink™ Nplify™ wireless technology, or Intel® PRO/Wireless 3945ABG (dual-band tri-mode 802.11a/b/g) Wi-Fi CERTIFIED® network connection, supporting Acer SignalUp™ wireless technology (for selected models)
  - Acer InviLink™ 802.11b/g Wi-Fi CERTIFIED® solution, supporting Acer SignalUp™ wireless technology
- WPAN: Bluetooth® 2.0+EDR (Enhanced Data Rate)
- LAN: Gigabit Ethernet, Wake-on-LAN ready
- Modem: 56K ITU V.92 with PTT approval, Wake-on-Ring ready

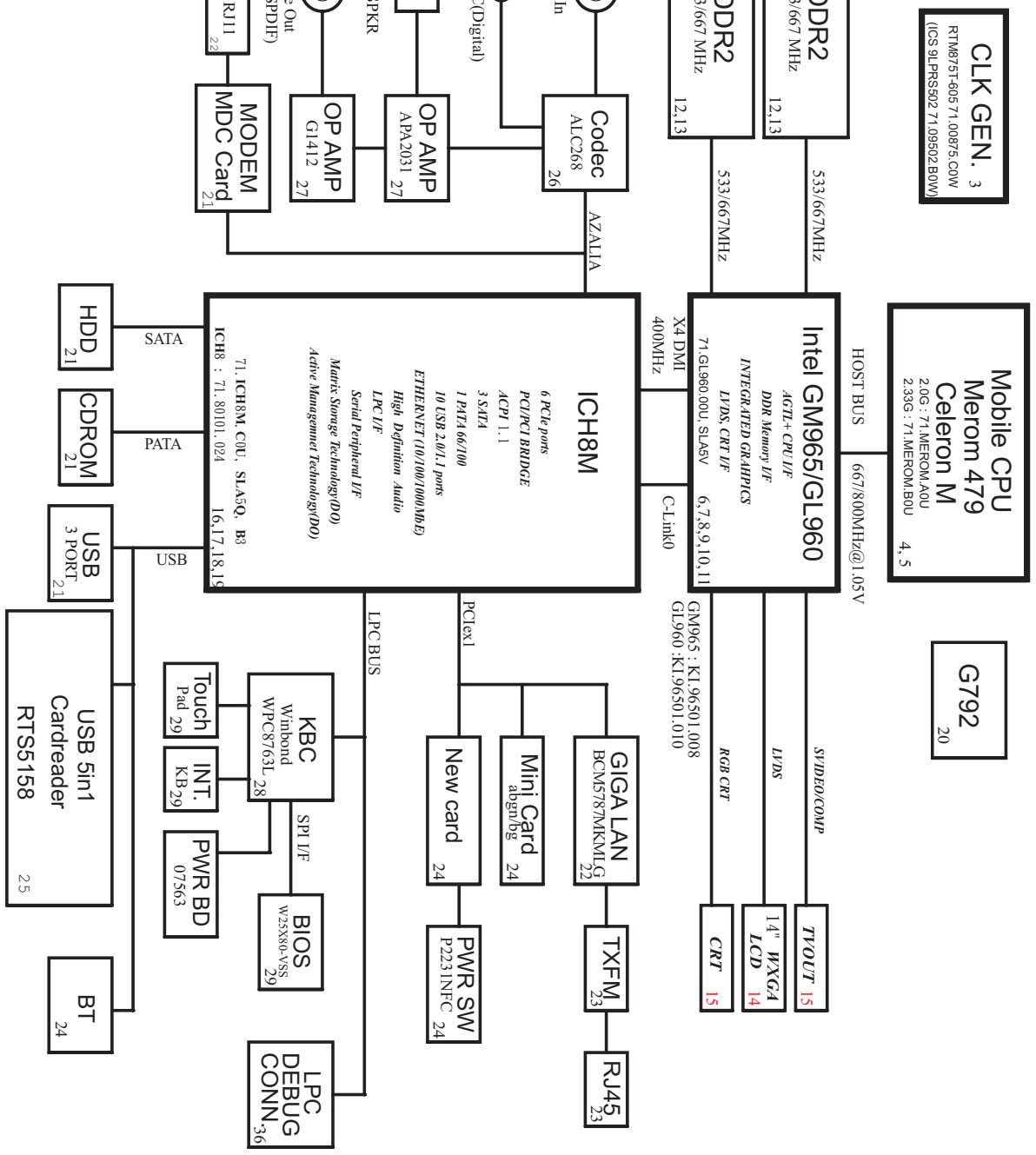
I/O Ports

- ExpressCard™/54 slot
- 5-in-1 card reader (SD™, MMC, MS, MS PRO, xD)
- Three USB 2.0 ports
- External display (VGA) port
- S-video/TV-out (NTSC/PAL) port
- Headphone/speaker/line-out jack
- Microphone-in jack
- Ethernet (RJ-45) port
- Modem (RJ-11) port
- DC-in jack for AC adapter

Environment

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

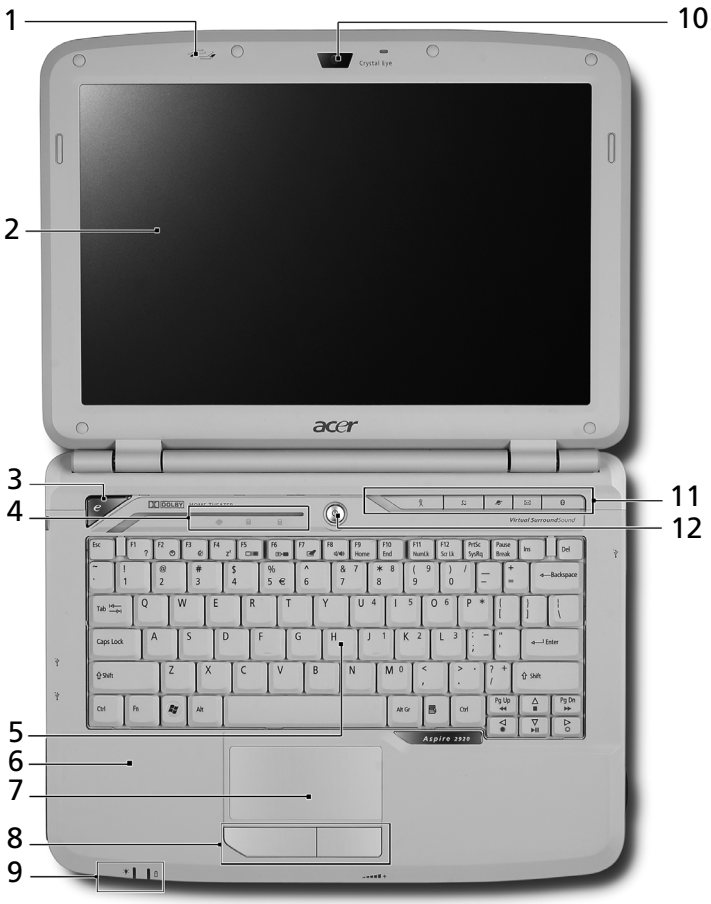
System Block Diagram



Your Acer Notebook tour

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

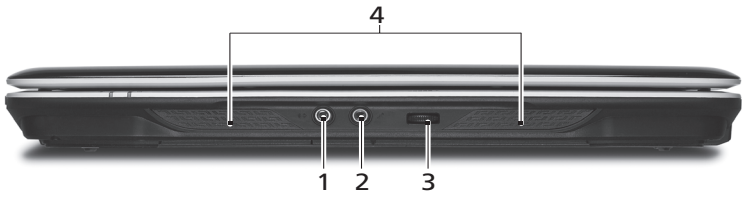
Front View



	Icon	Item	Description
1		Microphone	Internal microphone for sound recording.
2		Display screen	Also called Liquid-Crystal Display (LCD), displays computer output.
3	e	Empowering key	Lanuch Acer Empowering Technology
4		Status indicators	Light-Emitting Diodes (LEDs) that light up to show the status of the computer's functions and components.
5		Keyboard	For entering data into your computer.
6		Palmrest	Comfortable support area for your hands when you use the computer.
7		Touchpad	Touch-sensitive pointing device which functions like a computer mouse.
8		Click buttons (left and right)	The left and right buttons function like the left and right mouse buttons.

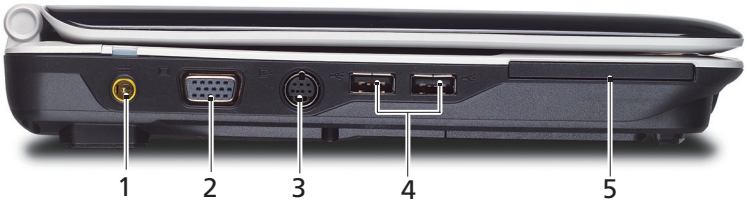
	Icon	Item	Description
9		Status indicators	Light-Emitting Diodes (LEDs) that light up to show the status of the computer's functions and components.
10		Acer Crystal Eye	Web camera for video communication. (for selected models)
11		Easy-launch button	Buttons for launching frequently used program.
12		Power button	Turns the computer on and off.

Closed Front View



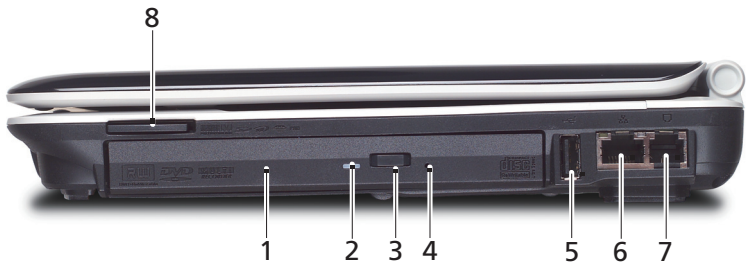
	Icon	Item	Description
1		Microphone-in jack	Accepts input from external microphones.
2		Headphones/ speaker/line-out jack	Connects to audio line-out devices (e.g., speakers, headphones).
3		Unlimited volume control wheel	Adjust the volume of the audio-out.
4		Speakers	Left and right speakers deliver stereo audio output.

Left View



#	Icon	Item	Description
1		DC-in jack	Connects to an AC adapter.
2		External display (VGA) port	Connects to a display device (e.g., external monitor, LCD projector).
3		S-video/TV-out (NTSC/PAL) port	Connects to a television or display device with S-video input.
4		2 USB 2.0 ports	Connect to USB 2.0 devices (e.g., USB mouse, USB camera).
5	ExpressCard / 54	ExpressCard/54 slot	Accepts one ExpressCard/54 module.

Right View



	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		USB 2.0 port	Connect to USB 2.0 devices (e.g., USB mouse, USB camera).
6		Ethernet (RJ-45) port	Connects to an Ethernet 10/100-based network.
7		Modem (RJ-11) port	Connects to a phone line.
8		5-in-1 card reader	Accepts Secure Digital (SD), MultiMediaCard (MMC), Memory Stick (MS), Memory Stick PRO (MS PRO), xD-Picture Card (xD).

Rear View

#	Icon	Item	Description
1		Kensington lock slot	Connects to a Kensington-compatible computer security lock.
2		Ventilation slots	Enable the computer to stay cool, even after prolonged use.

Bottom View

	Icon	Item	Description
1		Battery bay	Houses the computer's battery pack.
2		Battery release latch	Releases the battery for removal.
3		Battery lock	Locks the battery in position.
4		Memory compartment	Houses the computer's main memory.
5		Hard disk bay	Houses the computer's hard disk (secured with screws).
6		Ventilation slots and cooling fan	Enable the computer to stay cool, even after prolonged use. **Note**: Do not cover or obstruct the opening of the fan.

Indicators

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

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

Icon	Function	Description
	Power	Indicates the computer's power status.
	Battery	Indicates the computer's batttery status.
	HDD	Indicates when the hard disk drive is active.
	Num Lock	Lights up when Num Lock is activated.
	Caps Lock	Lights up when Caps Lock is activated.

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

Easy-Launch Buttons

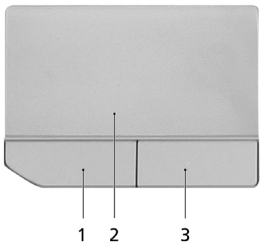
Located beside the keyboard are application buttons. These buttons are called easy-launch buttons. They are: WLAN, Internet, email, Bluetooth, Arcade and Acer Empowering Technology.

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.

Icon	Function	Description
	Empowering Technology	Launch Acer Empowering Technology. (user-programmable)
	Acer Arcade	Launch Acer Arcade utility
	Wireless communication button/ indicator	Enables/disables the wireless function. Indicates the status of wireless LAN communication.
	Web browser	Internet browser (user-Programmable)
	Mail	Email application (user-Programmable)
	Bluetooth communication button/ indicator	Enables/disables 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 (3) 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.

Function	Left Button (1)	Right Button (3)	Main touchpad (2)
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.	

NOTE: When using the touchpad, keep it - and your fingers - dry and clean. The touchpad is sensitive to finger movement; 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 numeric keypad, separate cursor, lock, Windows, function and special 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 **<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 **<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

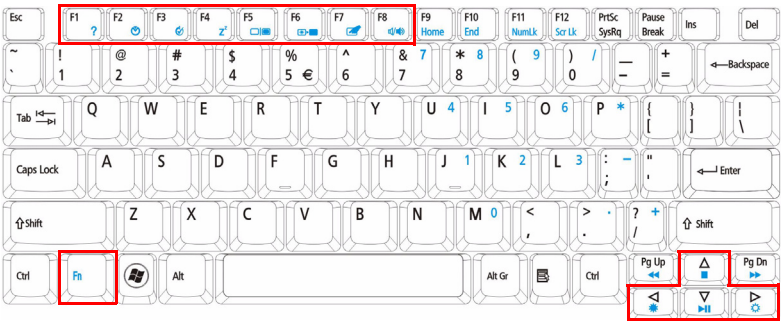
The keyboard has two keys that perform Windows-specific functions.

Key	Description
Windows key	Pressed alone, this key has the same effect as clicking on the Windows Start button; it launches the Start menu. It can also be used with other keys to provide a variety of functions: <Win> : Open or close the Start menu <Win> **+ <D>:** Display the desktop <Win> **+ <E>:** Open Windows Explore <Win> + <F>: Search for a file or folder <Win> + <G>: Cycle through Sidebar gadgets <Win> + <L>: Lock your computer (if you are connected to a network domain), or switch users (if you're not connected to a network domain) <Win> + <M>: Minimizes all windows <Win> **+ <R>:** Open the Run dialog box <Win> + <T>: Cycle through programs on the taskbar <Win> **+ <U>:** Open Ease of Access Center <Win> + <X>: Open Windows Mobility Center <Win> + <BREAK>: Display the System Properties dialog box <Win> **+ <SHIFT+M>:** Restore minimized windows to the desktop <Win> **+ <TAB>:** Cycle through programs on the taskbar by using Windows Flip 3-D <Win> **+ <SPACEBAR>:** Bring all gadgets to the front and select Windows Sidebar **<CTRL> +** <Win> **+ <F>:** Search for computers (if you are on a network) **<CTRL> +** <Win> **+ <TAB>:** Use the arrow keys to cycle through programs on the taskbar by using Windows Flip 3-D **Note:** Depending on your edition of Windows Vista, some shortcuts may not function as described.
Application key	This key has the same effect as clicking the right mouse button; it opens the application's context menu.

Hot Keys

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

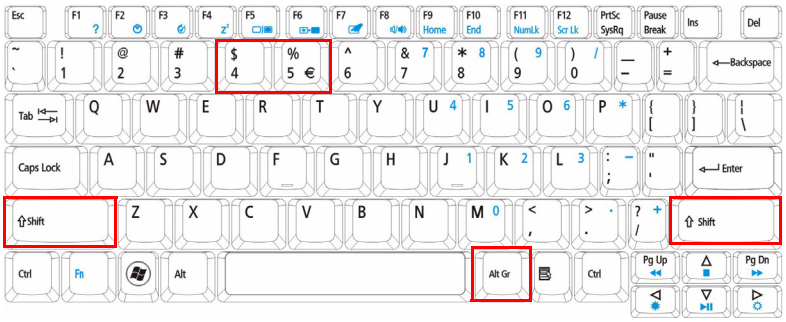
To activate hot keys, press and hold the **<Fn>** key before pressing the other key in the hotkey combination.



Hotkey	Icon	Function	Description
<Fn> + <F1>	?	Hotkey help	Displays help on hotkeys.
<Fn> + <F2>		Acer eSettings Management	Launches Acer eSettings Management in Acer Empowering Technology.
<Fn> + <F3>		Acer ePower Management	Launches Acer ePower Management in Acer Empowering Technology.
<Fn> + <F4>	Zz	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.
<Fn> + <F1>	?	Hotkey help	Displays help on hotkeys.
<Fn> + <F2>		Acer eSettings Management	Launches Acer eSettings Management in Acer Empowering Technology.

Special Key

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



The Euro symbol

1. Open a text editor or word processor.
2. Hold <Alt Gr> and then press the <5> key at the upper-center of the keyboard.

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

The US dollar sign

1. Open a text editor or word processor.
2. 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

The Empowering Technology toolbar makes it easy for you to access frequently used functions and manage your new Acer system. Displayed by default in the upper half of your screen, it provides access to the following utilities:

- **Acer eNet Management** hooks up to location-based networks intelligently.
- **Acer ePower Management** optimizes battery usage via customizable power plans.
- **Acer ePresentation Management** connects to a projector and adjusts display settings.
- **Acer eDataSecurity Management** protects data with passwords and encryption.
- **Acer eLock Management** limits access to external storage media.
- **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, right click on the Empowering Technology toolbar, then select the **"Help"** or "**Tutorial"** function.

Empowering Technology password

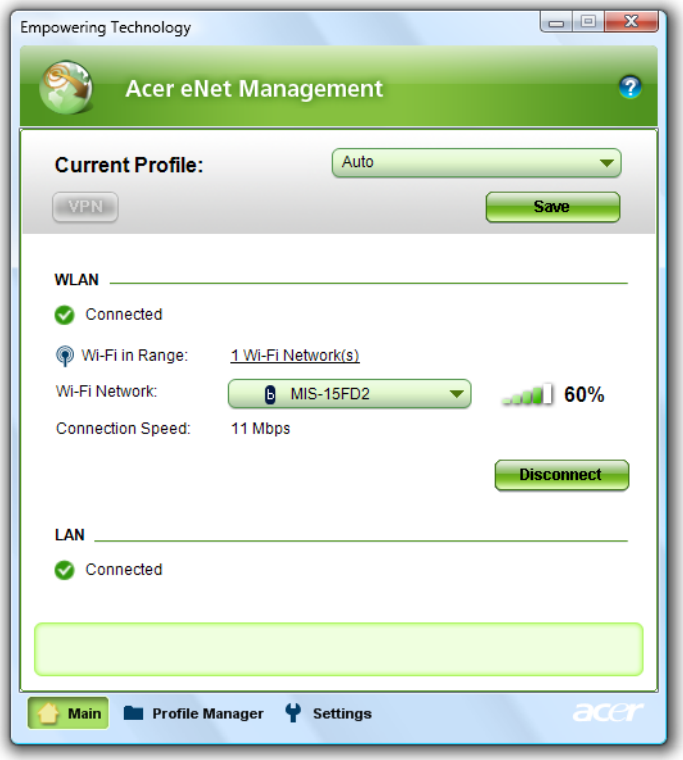
Before using Acer eLock Management and Acer eRecovery Management, you must initialize the Empowering Technology password. Right-click on the Empowering Technology toolbar and select **"Password Setup"** to do so. If you have not initialized the Empowering Technology password and run Acer eLock Management or Acer eRecovery Management, you will be asked to create it.

NOTE: If you lose the Empowering Technology password, there is no way to reset it except by reformatting your system. Make sure to remember or write down your password!

Acer eNet Management

Acer eNet Management helps you quickly connect to both wired and wireless networks in a variety of locations. To access this utility, select **"Acer eNet Management"** from the Empowering Technology toolbar or run the program from the Acer Empowering Technology program group in Start menu. You can also set Acer eNet Management to start automatically when you boot up your PC.

Acer eNet Management automatically detects the best settings for a new location, while offering you the option to manually adjust the settings to match your needs.



Acer eNet Management can save network settings for a location to a profile, and automatically switch to the appropriate profile when you move from one location to another. Settings stored include network connection settings (IP and DNS settings, wireless AP details, etc.), as well as default printer settings. Security and safety concerns mean that Acer eNet Management does not store username and password information.

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"**.

Using power plans

Acer ePower Management comes with three predefined power plans: Balanced, High performance and Power saver. You can also create customized power plans. You can create, switch between, edit, delete and restore power plans, as described below.

View and adjust settings for On Battery and Plugged In modes by clicking the appropriate tabs. You can open Windows power options by clicking **"More Power Options"**.

NOTE: You cannot delete the predefined power plans.

To create a new power plan:

Creating customized power plans allows you to save and quickly switch to a personalized set of power options.

1. Click the Create Power Plan icon.
2. Enter a name for your new power plan.
3. Choose a predefined power plan to base your customized plan on.
4. If necessary, change the display and sleep settings you want your computer to use.
5. Click **"OK"** to save your new power plan.

To switch between power plans:

1. Select the power plan you wish to switch to from the drop-down list.
2. Click **"Apply"**.

To edit a power plan:

Editing a power plan allows you to adjust system settings like LCD brightness and CPU speed. You can also turn on/off system components to extend battery life.

1. Switch to the power plan you wish to edit
2. Adjust settings as required.
3. Click **"Apply"** to save your new settings.

To delete a power plan:

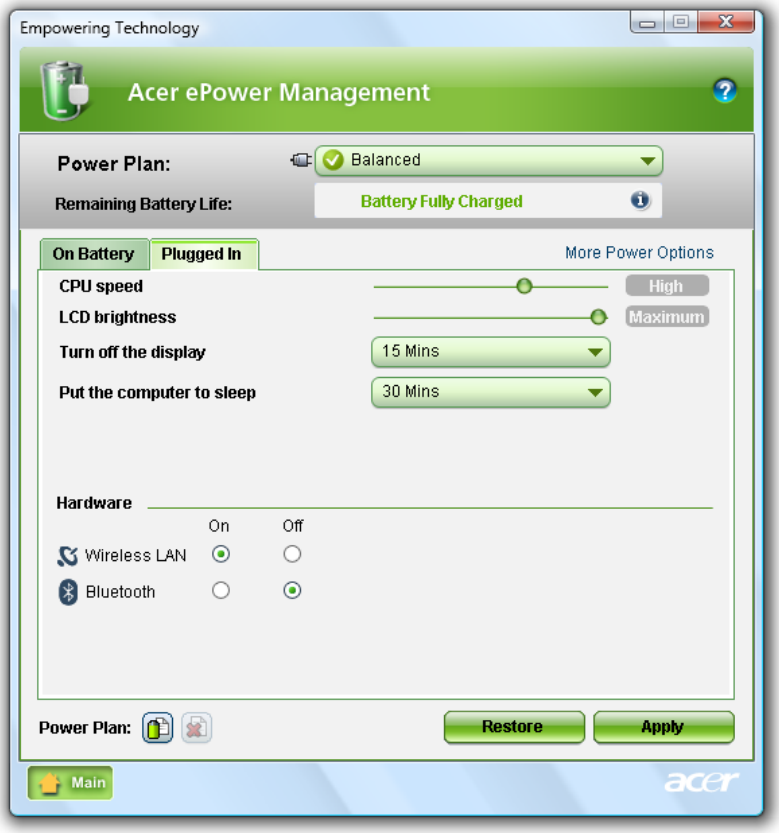
You cannot delete the power plan you are currently using. If you want to delete the active power plan, switch to another one first.

1. Select the power plan you wish to delete from the drop-down list.
2. Click the Delete Power Plan icon.

Battery status

For real-time battery life estimates based on current usage, refer to the panel in the upper half of the window.

Click the to view estimated battery life in sleep and hibernate modes.



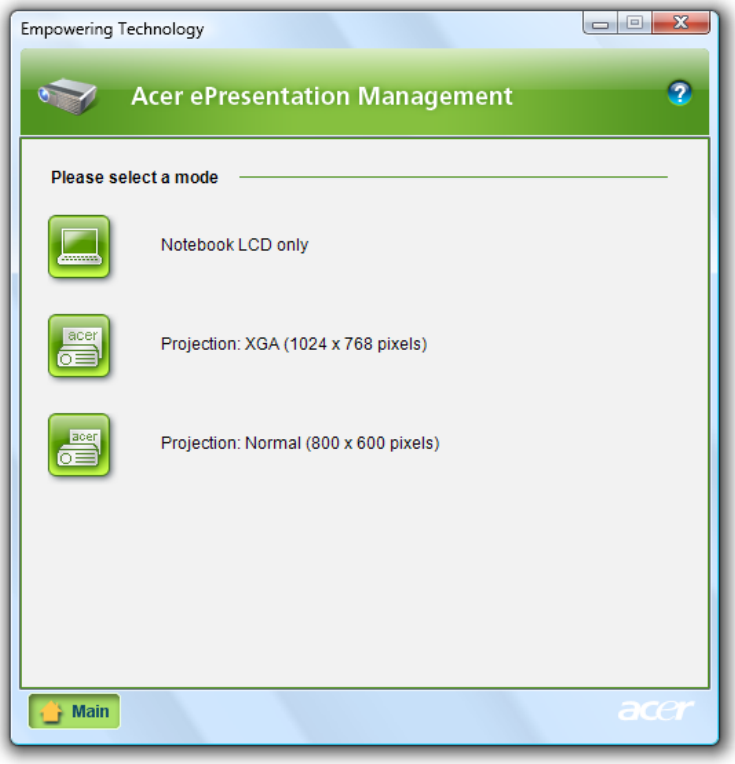
Acer eAudio Management

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 surround sound from just 2 speakers, via Dolby Virtual Speaker technology. "**Music**" mode lets you enjoy your favorite tunes, in vivid detail..

Acer ePresentation Management

Acer ePresentation Management lets you project your computer's display to an external display device or projector using the hotkey: **<Fn> + <F5>**. If auto-detection hardware is implemented in the system and the external display supports it, your system display will be automatically switched out when an external display is

connected to the system. For projectors and external devices that are not auto-detected, launch Acer ePresentation Management to choose an appropriate display setting.



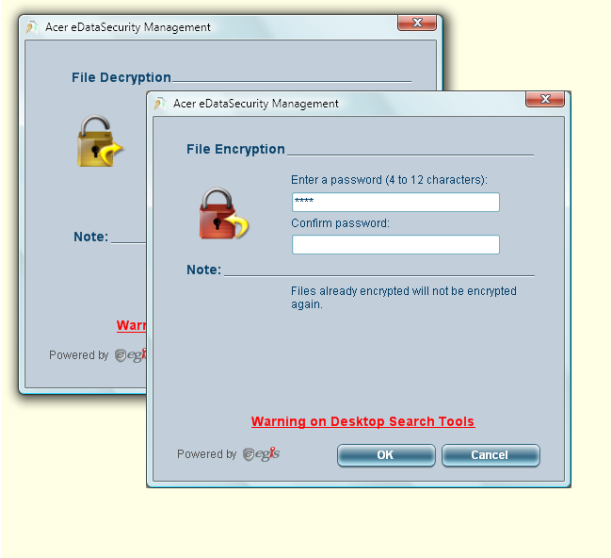
NOTE: If the restored resolution is not correct after disconnecting a projector, or you need to use an external resolution that is not supported by Acer ePresentation Management, adjust your display settings using Display Properties or the utility provided by the graphics vendor.

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.

The Acer eDataSecurity Management setup wizard will prompt you for a supervisor password and default encryption password. This password will be used to encrypt files by default, or you can choose to enter your own password when encrypting a file.

NOTE: The password used to encrypt a file is the unique key that the system needs to decrypt it. If you lose the password, the supervisor password is the only other key capable of decrypting the file. If you lose both passwords, there will be no way to decrypt your encrypted file! **Be sure to safeguard all related passwords!**



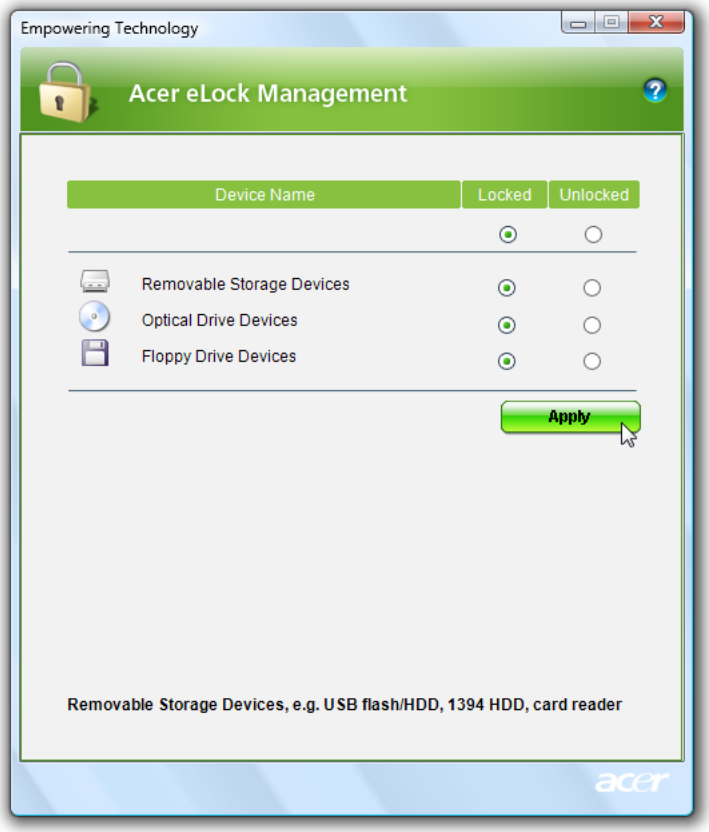
Acer eLock Management

Acer eLock Management is simple yet effective utility that allows you to lock removable storage, optical and floppy drive devices to ensure that data can't be stolen while your system is unattended.

- Removable Storage Devices — includes USB disk drives, USB pen drives, USB flash drives, USB MP3 drives, USB memory card readers, IEEE 1394 disk drives, and any other removable storage devices that can be mounted as a file system when plugged into the system.
- Optical Drive Devices — includes any kind of CD-ROM, DVD-ROM, HD-DVD or Blu-ray drive devices.
- Floppy Drive Devices — 3.5-inch floppy drives only.

To use Acer eLock Management, the Empowering Technology password must be set first. Once set, you can apply locks to any of the devices types. Lock(s) will immediately be set without any reboot necessary, and will remain after rebooting, until removed.

NOTE: If you lose the Empowering Technology password, there is no method to reset it except by reformatting your system. Make sure to remember or write down your password.

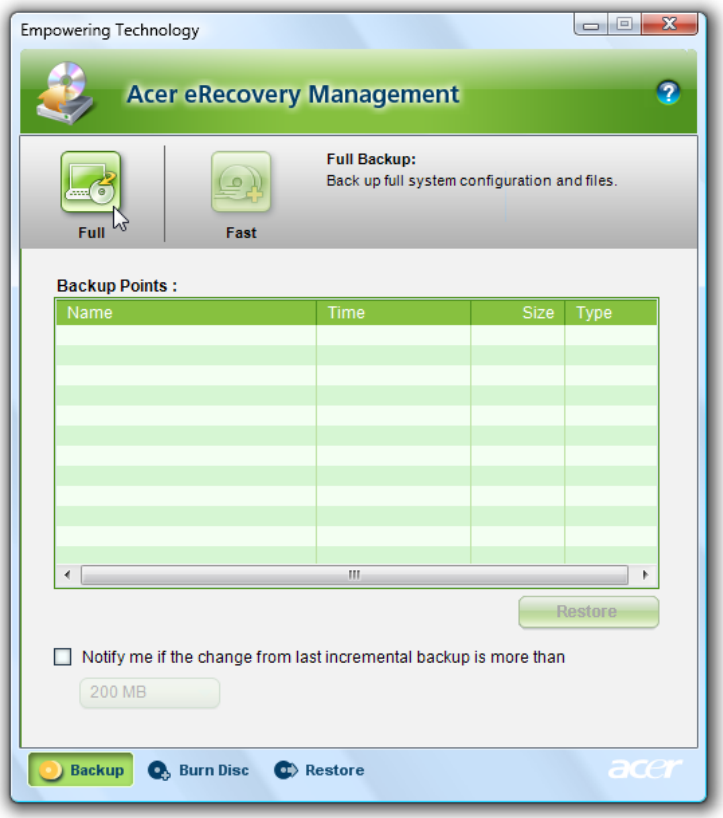


Acer eRecovery Management

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:

- Password protection (Empowering Technology password)
- Full and incremental backups to hard disk or optical disc
- Creation of backups:
  - Factory default image
  - User backup image
  - Current system configuration
  - Application backup
- Restore and recovery:
  - Factory default image
  - User backup image
  - From previously-created CD/DVD
  - Reinstall applications/drivers



NOTE: If your computer did not come with a Recovery CD or System CD, please use Acer eRecovery Management's "System backup to optical disc" feature to burn a backup image to CD or DVD. To ensure the best results when recovering your system using a CD or Acer eRecovery Management, detach all peripherals (except the external Acer ODD, if your computer has one), including your Acer ezDock.

Acer eSettings Management

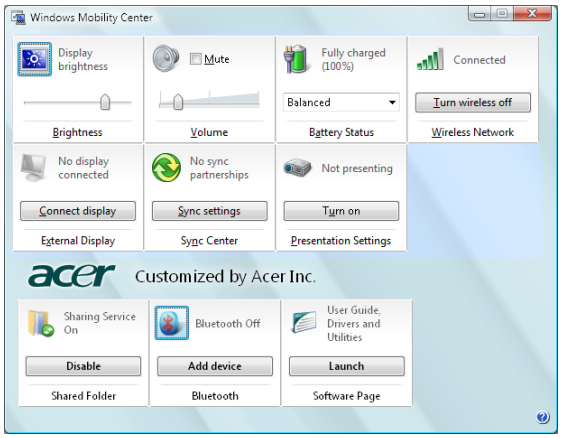
Acer eSettings Management allows you to inspect hardware specifications, set BIOS passwords and modify boot options.

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, power plan, volume, wireless networking on/off, external display settings, display orientation and synchronization status.

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

To launch Windows Mobility Center:

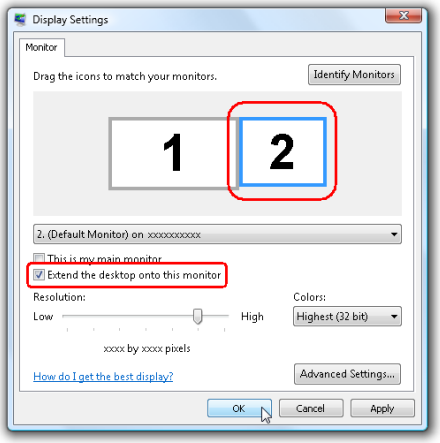
- Use the shortcut key <⊞> **+ <X>**
- Start Windows Mobility Center from the Control panel
- Start Windows Mobility Center from the Accessories program group in the Start menu.

Using the System Utilities

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.



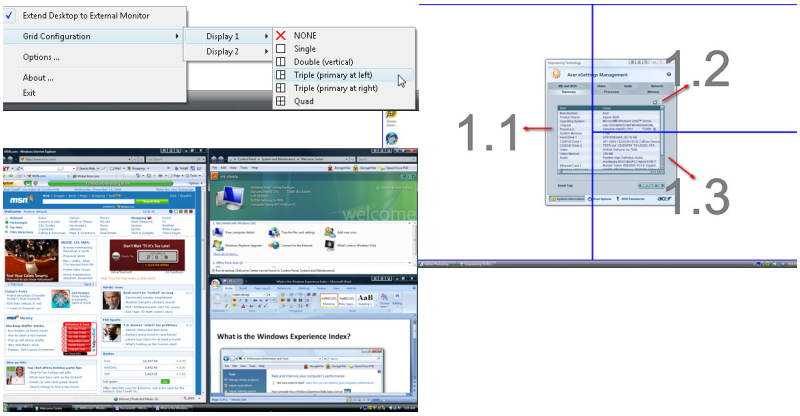
Acer GridVista is a handy utility that offers four pre-defined display settings so you can view multiple windows on the same screen. To access this function, please go to **Start>All Programs** and click on **Acer GridVista**. You may choose any one of the four display settings indicated below:

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.

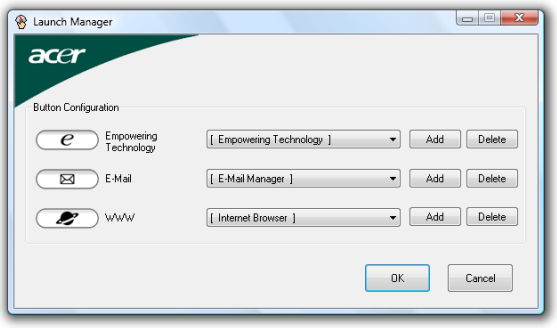
AcerGridVista is imple to set up:

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.

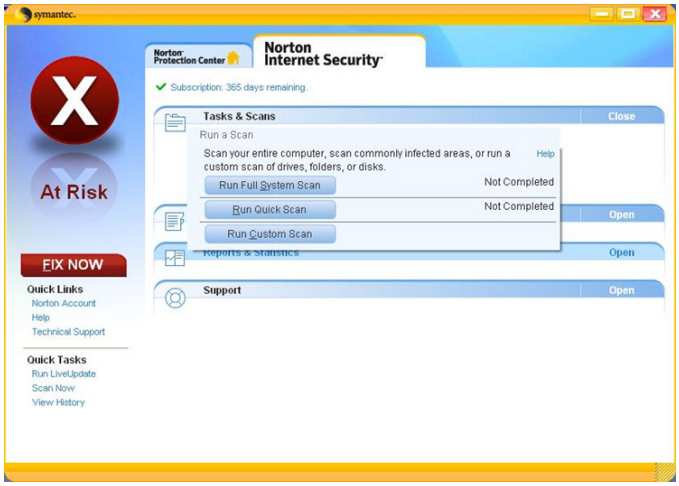
Norton Internet Security

Norton Internet Security is an anti-virus utility that can protect against viruses, keeping your data safe and secure.

How do I check for viruses?

1. Double-click the **Norton Internet Security** icon on the Windows desktop.
2. Select **Tasks & Scans.**

3. Select **Run Scan** to scan your system.



4. When the scan is complete, review the results of the scan.

NOTE: For optimal security, run a Full System Scan when scanning your computer for the first time.

You can schedule customized virus scans that run unattended on specific dates and times or at periodic intervals. If you are using the computer when the scheduled scan begins, it runs in the background so that you do not have to stop working.

For more information refer to the Norton Internet Security help files.

Hardware Specifications and Configurations

Processor

Item	Specification
CPU type	Intel® Core™2 Duo mobile processor T7300/T7500/T7700/T7800 (4 MB L2 cache, 2/2.20/2.40/2.60 GHz, 800 MHz FSB), T5250/ T5450/T5550/T7100/T7250 (2 MB L2 cache, 1.50/1.66/1.83/1.80/2 GHz, 800 MHz FSB), supporting Intel® 64 architecture Intel® Pentium® mobile processor T2310/T2330 (1 MB L2 cache, 1.46/1.60 GHz, 533 MHz FSB),supporting Intel® 64 architecture Intel® Celeron® mobile processor 530/540/550 (1 MB L2 cache, 1.73/1.86/2 GHz, 533 MHz FSB), supporting Intel® 64 architecture
Core logic	Mobile Intel® GM965/GL960 + ICH8M Express Chipset
CPU package	Socket M (FCPGA6)
CPU core voltage	1.0375V to 1.3V

CPU Fan True Value Table

DTS(degree C)	Fan Speed (rpm)	Acoustic Level (dBA)
45-50	0-3000	29
55-66	0-3300	33
68-74	3300-3800	38
78-83	3800-4100	40
86-91	4100-4800	40

Throttling 50%: On= 99° C; OFF=93° C

OS shut down at 105° C; H/W shot down at 110° .C

BIOS

Item	Specification
BIOS vendor	Phoenix
BIOS Version	1.02 (MP version)
BIOS ROM type	SST/AMD 1MB CMOS Boot Block Flash Memory
BIOS ROM size	1M byte FLASH ROM SST
BIOS package	10-lead TSOP (10mmx20mm)
Supported protocols	ACPI 1.0b/2.0/3.0 compliance, PCI 2.2, System/HDD Password Security Control, INT 13H Extenstions, PnP BIOS 1.0a SMBIOS 2.4, BIOS Boot Specification, Simple Boot Flag 1.0, Boot Block, PCI Bus Power Management Interface Specification, USB Specification 1.1/2.0, IEEE 1394 1.0, USB/1394 CD-ROM Boot Up support, PC Card Standard 1995 (PCMCIA 3.0 Compliant Device), IrDA 1.0, Intel AC97 CNR Specification, WfM 2.0, PXE 2.1, Boot Integrity Service Application Program Interface (BIS) 1.0, PC99a and Mobile PC2001 Compliant
BIOS password control	Set by setup manual

Item	Specification
Cache controller	Built-in CPU
Cache size	1MB to 4MB (See CPU type)

System Memory

Item	Specification
Memory controller	Built-in
Memory size	0MB (no on-board memory)
DIMM socket number	2 sockets
Supports memory size per socket	2048MB
Supports maximum memory size	4G for 64bit OS(with two 2GB SODIMM)
Supports DIMM type	DDR 2 Synchronous DRAM
Supports DIMM Speed	533/667 MHz
Supports DIMM voltage	1.8V and 0.9V
Supports DIMM package	200-pin soDIMM
Memory module combinations	You can install memory modules in any combinations as long as they match the above specifications.

Memory Combinations

Slot 1	Slot 2	Total Memory
0MB	256MB	256MB
0MB	512MB	512MB
0MB	1024MB	1024MB
0MB	2048MB	2048MB
256MB	256MB	512MB
256MB	512MB	768MB
256MB	1024MB	1280MB
256MB	2048MB	2304MB
512MB	256MB	768MB
512MB	512MB	1024MB
512MB	1024MB	1536MB
512MB	2048MB	2560MB
1024MB	0MB	1024MB
1024MB	256MB	1280MB
1024MB	512MB	1536MB
1024MB	1024MB	2048MB
1024MB	2048MB	3072MB
2048MB	0MB	2048MB
2048MB	256MB	2304MB
2048MB	512MB	2560MB
2048MB	1024MB	3072MB
2048MB	2048MB	4096MB

NOTE: Above table lists some system memory configurations. You may combine DIMMs with various capacities to form other combinations. On above table, the configuration of slot 1 and slot 2 could be reversed.

Item	Specification
LAN Chipset	Broadcom 5787M

Item	Specification
Supports LAN protocol	10/100/1000 Mbps
LAN connector type	RJ45
LAN connector location	Left side
Features	Integrated 10/100 BASE-T transceiver Wake on LAN support compliant with ACPI 2.0 PCI v2.2

Bluetooth Interface

Item	Specification
Chipset	Foxconn TT60H928.11
Data throughput	723 bps (full speed data rate)
Protocol	Bluetooth 1.1 (Upgradeable to Bluetooth 1.2 when SIG specification is ratified).
Interface	USB 1.1
Connector type	USB

Wireless Module 802.11b/g

Item	Specification
Chipset	Intel® Wireless WiFi Link 4965AGN (dual-band quad-mode 802.11a/b/g/Draft-N) network connection, supporting Acer SignalUp™ with InviLink™ Nplify™ wireless technology Intel® PRO/Wireless 3945ABG (dual-band tri-mode 802.11a/b/g) Wi-Fi CERTIFIED® network connection, supporting Acer SignalUp™ wireless technology
Data throughput	11~54 Mbps, up to 270 Mbps for Draft-N
Protocol	802.11b+g, Draft-N
Interface	PCI bus (mini PCI socket for wireless module)

Hard Disk Drive Interface

Item				
Vendor & Model Name	HGST 2.5” HTS542580K9SA00 BRONCO-B SATA II, WD 2.5” WD800BEVS-22RST0 ML80 SATA	HGST 2.5” HTS542512K9SA00 BRONCO-B SATA II	WD 2.5” WD1600BEVS-22RST0 ML80 SATA, HGST 2.5” HTS542516K9SA00 BRONCO-B SATA II	HGST 2.5” HTS542525K9SA00 BRONCO-B SATA II, WD 2.5” WD2500BEVS-22UST0 ML80 SATA
Capacity (MB)	80000	120000	160000	250000
Bytes per sector	512	512	512	512
Data heads	2	3	3/4	4
Drive Format				
Disks	1	2	2	2

Hard Disk Drive Interface

Item				
Spindle speed (RPM)	5400 RPM	5400 RPM	5400 RPM	5400 RPM
Performance Specifications				
Buffer size	8MB	8MB	8MB	8MB
Interface	SATA	SATA	SATA	SATA
Max. media transfer rate (disk-buffer, Mbytes/s)	540	540	540	540
Data transfer rate (host~buffer, Mbytes/s)	100 MB/Sec. Ultra DMA mode-5	150 MB/Sec. Ultra DMA mode-5	150 MB/Sec. Ultra DMA mode-5	150 MB/Sec. Ultra DMA mode-5
DC Power Requirements				
Voltage tolerance	5V(DC) +/- 5%	5V(DC) +/- 5%	5V(DC) +/- 5%	5V(DC) +/- 5%

Combo Drive module

Item	Specification	
Vendor & model name	SONY COMBO 12.7mm Tray 24X CRX880A, TOSHIBA COMBO 12.7mm Tray 24X #AC01	
Performance Specification	With CD Diskette	With DVD Diskette
Transfer rate (KB/sec)	Sustained: Max 3.6Mbytes/sec	Sustained: Max 10.8Mbytes/sec
Buffer Memory	2MB	
Interface	PATA	
Applicable disc format	1. Reads and writes data in each CD-ROM, CD-ROMXA, CD-I FMV, Video CD and CD-EXTRA 2. Reads data in Photo CD (Single and multi session) 3. Reads and writes standard CD-DA 4. Reads and writes CD-R discs conforming to “Orange Book Part 2” 5. Reads and writes CD-RW discs conforming to “Orange Book Part 3” 6. Reads data in DVD-ROM Applicable DVD formats (Read): DVD: DVD-ROM, (DVD-5, DVD-9, DVD-10, DVD-18),DVD-Video, DVD-R 3.95G, DVD-R 4.7G, DVD-RW, DVD+R, DVD+RW, Multi-Border DVD-R/DVD-RW, Multi-session DVD+R, DVD+RW and DVD-RAM (optional) Applicable CD Formats (Read): CD: CD-DA, CD-ROM Mode-1, CD-ROM/XA Mode Mode-2 Form-1 and Mode-2 Form-2, CD-i Ready, Video-CD (MPEG-1), Karaoke CD, Super Video CD, Photo-CD, Enhanced CD, CD Plus, CD Extra, i-trax CD, CD-Text, CD-R, CD-RW Applicable CD Formats (Write) CD-DA, CD-ROM Mode-1, CD-ROM/XA Mode-2 Form-1 and Mode-2 Form-2, CD-i, Video-CD CD-Text	

Combo Drive module

Item	Specification
Loading mechanism	Load: Manual Release: (a) Electrical Release (Release Button) (b) Release by ATAPI command (c) Emergency Release
Power Requirement	
Input Voltage	5 V +/- 5 % (Operating)

Super-Multi Drive module

Item	Specification	
Vendor & model name	HLDS Super-Multi Drive GSA-T20N, SONY Super-Multi AD-7560A	
Performance Specification	With CD Diskette	With DVD Diskette
Transfer rate (KB/sec)	Sustained: Max 3.6Mbytes/sec	Sustained: Max 10.08Mbytes/sec
Buffer Memory	2MB	
Interface	PATA	
Applicable disc format	Applicable disc format CD: CD-DA, CD-ROM, CD-ROM XA, PhotoCD (multi-session), Video CD, Cd-Extra (CD+), CD-text DVD: DVD-VIDEO, DVD-ROM, DVD-R (3.9GB, 4.7GB) DVD-R DL, DVD-RW, DVD-RAM, DVD+R, DVD+R DL, DVD+RW CD: CD-DA (Red Book) - Standard Audio CD & CD-TEXT CD-ROM (Yellow Book Mode1 & 2) - Standard Data CD-ROM XA (Mode2 Form1 & 2) - Photo CD, Multi-Session CD-I (Green Book, Mode2 Form1 & 2, Ready, Bridge) CD-Extra/ CD-Plus (Blue Book) - Audio & Text/Video Video-CD (White Book) - MPEG1 Video CD-R (Orange Book Part) CD-RW & HSRW (Orange Book Part Volume1 & Volume 2 Super Audio CD (SACD) Hybrid type US & US+ RW DVD: DVD-ROM (Book 1.02), DVD-Dual DVD-Video (Book 1.1) DVD-R (Book 1.0, 3.9G) DVD-R (Book 2.0, 4.7G) - General & Authoring DVD+R (Version 1.0) DVD+RW DVD-RW (Non CPRM & CPRM) DVD°”R Dual	
Loading mechanism	Load: Manual Release: (a) Electrical Release (Release Button) (b) Release by ATAPI command (c) Emergency Release	
Power Requirement		

Super-Multi Drive module

Item	Specification
Input Voltage	5 V +/- 5 % (Operating)

Audio Interface

Item	Specification
Audio Controller	Realtek ALC883 Azalia and Amplifier Maxim MAX9710 & MAX4411
Audio onboard or optional	Built-in
Mono or Stereo	Stereo
Resolution	18 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 (1.5W speakers)

Video Memory

Item	Specification
Chipset	UMA
Memory size	8 MB

Item	Specification
Chipset	ICH8M
USB Compliancy Level	2.0
OHCI	USB 1.1 and USB 2.0 Host controller
Number of USB port	4
Location	Two on the left side/one on the right side
Serial port function control	Enable/Disable by BIOS Setup

PCMCIA Port

Item	Specification
PCMCIA controller	ENE CB714/1410
Supports card type	Type-II
Number of slots	One type-II
Access location	Left panel
Supports ZV (Zoomed Video) port	No ZV support
Supports 32 bit CardBus	Yes

System Board Major Chips

Item	Controller
Core logic	Mobile Intel® GM965/GL960 + ICH8M Express Chipset
VGA	UMA
LAN	Realtek 8100SBL/CL
USB 2.0	Intel ICH8M
Super I/O controller	N/A
MODEM	ALC 883
Bluetooth	Built-in ATI SB460
Wireless 802.11 b+g	Built-in ATI SB460
PCMCIA/ 5 in 1 Card Reader	ENE CB714/1410
Audio Codec	Realtek ALC883

Keyboard

Item	Specification
Keyboard controller	NS PC97541V
Total number of keypads	84-/85-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	SANYO (6cell) 2.0 SIMPLO (6cell) 2.0 Sanyo (6cell) 2.4 SONY (6cell) 2.4
Battery Type	Li-ion
Pack capacity	2.0 AH SANYO (6cell) 2.0 2.0 AH SIMPLO (6cell) 2.0 2.4 AH Sanyo (6cell) 2.4 2.4 AH SIMPLO (6cell) 2.4
Number of battery cell	6
Package configuration	3 cells in series, 2 series in parallel
Normal voltage	11.1V
Charge voltage	19.0 v

LCD 12.1” inch

Item	Specification	
Vendor & model name	AUO B121EW03 V7 (Glare)	AUO B121EW03 V4 (Glare)
Screen Diagonal (mm)	12.1 inches	12.1 inches
Active Area (mm)	261.12 x 163.2	261.12 x 163.2

LCD 12.1” inch

Item	Specification	
Display resolution (pixels)	1280 x 800 WXGA	1280 x 800 WXGA
Pixel Pitch	0.204 x 0.204	0.204 x 0.204
Pixel Arrangement	R.G.B. Vertical Stripe	R.G.B. Vertical Stripe
Display Mode	Normally White	Normally White
Typical White Luminance (cd/m^2) also called Brightness	220 typical 187 minimum	185 typical
Luminance Uniformity	1.25 max.	1.25 max.
Contrast Ratio	400 typical	400 typical
Response Time (Optical Rise Time/Fall Time)msec	12/4	12/4
Nominal Input Voltage VDD	+3.3V	+3.3V
Typical Power Consumption (watt)	4.5W max.	4.5W max.
Weight (without inverter)	275 g. typical, 290 max.	275 g. typical, 290 max.
Physical Size(mm)	275.82 x 178 x 5.5 max.	275.82 x 178 x 5.5 max.
Electrical Interface	1 channel LVDS	1 channel LVDS
Support Color	262,144	262,144
Viewing Angle (degree) Horizontal: Right/Left Vertial: Upper/Lower	 45/45 15/35	 45/45 15/35
Temperature Range(° C) Operating Storage (shipping)	 0 to +50 -40 to +60	 0 to +50 -40 to +60

LCD Inverter

Item	Specification
Vendor & model name	YEC/YNV-W05
Brightness conditions	N/A
Input voltage (V)	9~21
Input current (mA)	2.56 (max)
Output voltage (V, rms)	780V (2000V for kick off)
Output current (mA, rms)	6.5 (max)
Output voltage frequency (k Hz)	65K Hz (max)

AC Adaptor

Item	Specification
Input rating	90V AC to 264V AC, 47Hz to 63Hz
Maximum input AC current	1.7A
Inrush current	220A@115VAC 220A@230VAC
Efficiency	82% 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 VGA Suspend PCMCIA Suspend Audio Power Down Hard Disk Power Down CD-ROM Power Down 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.

Chapter 2

System Utilities

BIOS Setup Utility

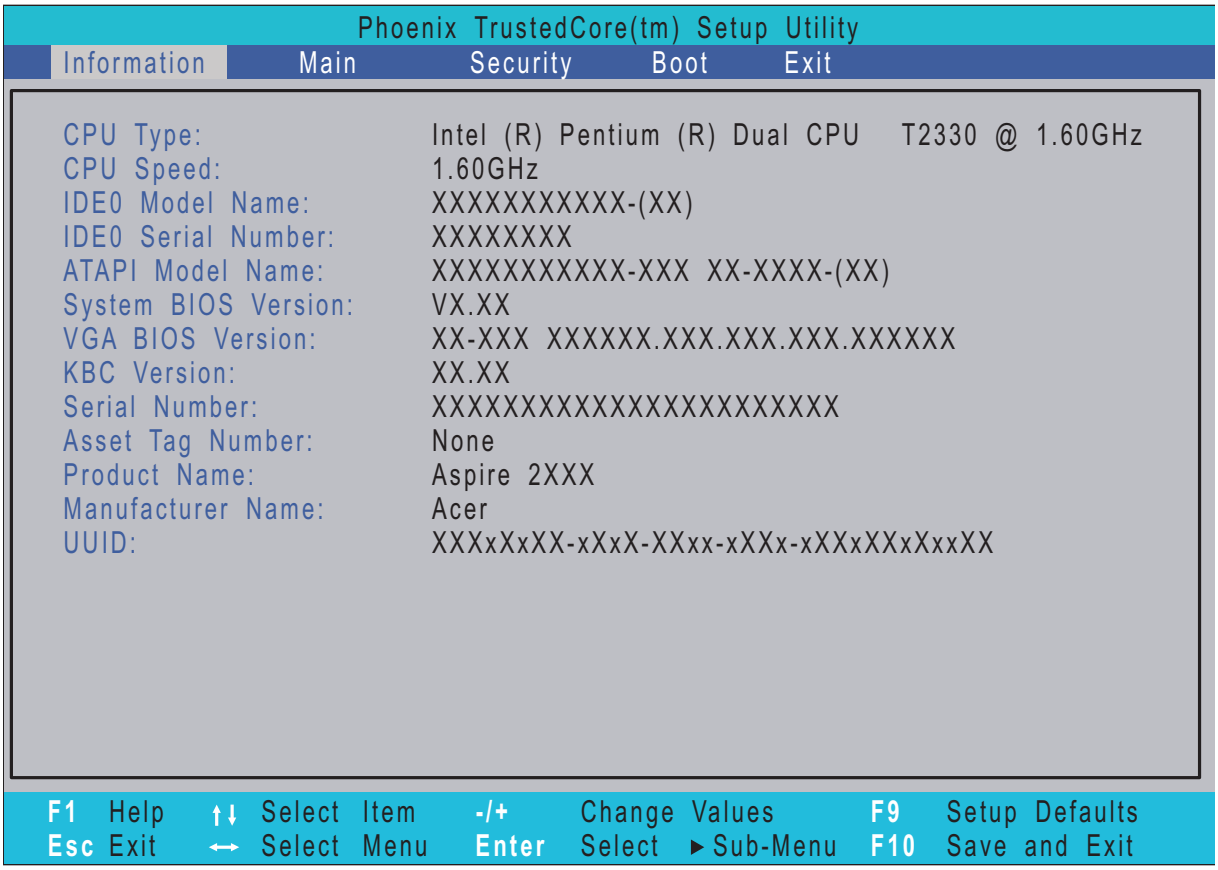
The BIOS Setup Utility is a hardware configuration program built into your computer's BIOS (Basic Input/ Output System).

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 **F2** during POST (when "Press <F2> to enter Setup" message is prompted on the bottom of screen).

Press **F2** 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.



Navigating the BIOS Utility

There are six menu options: Information, Main, Advanced, Security, Boot, and Exit.

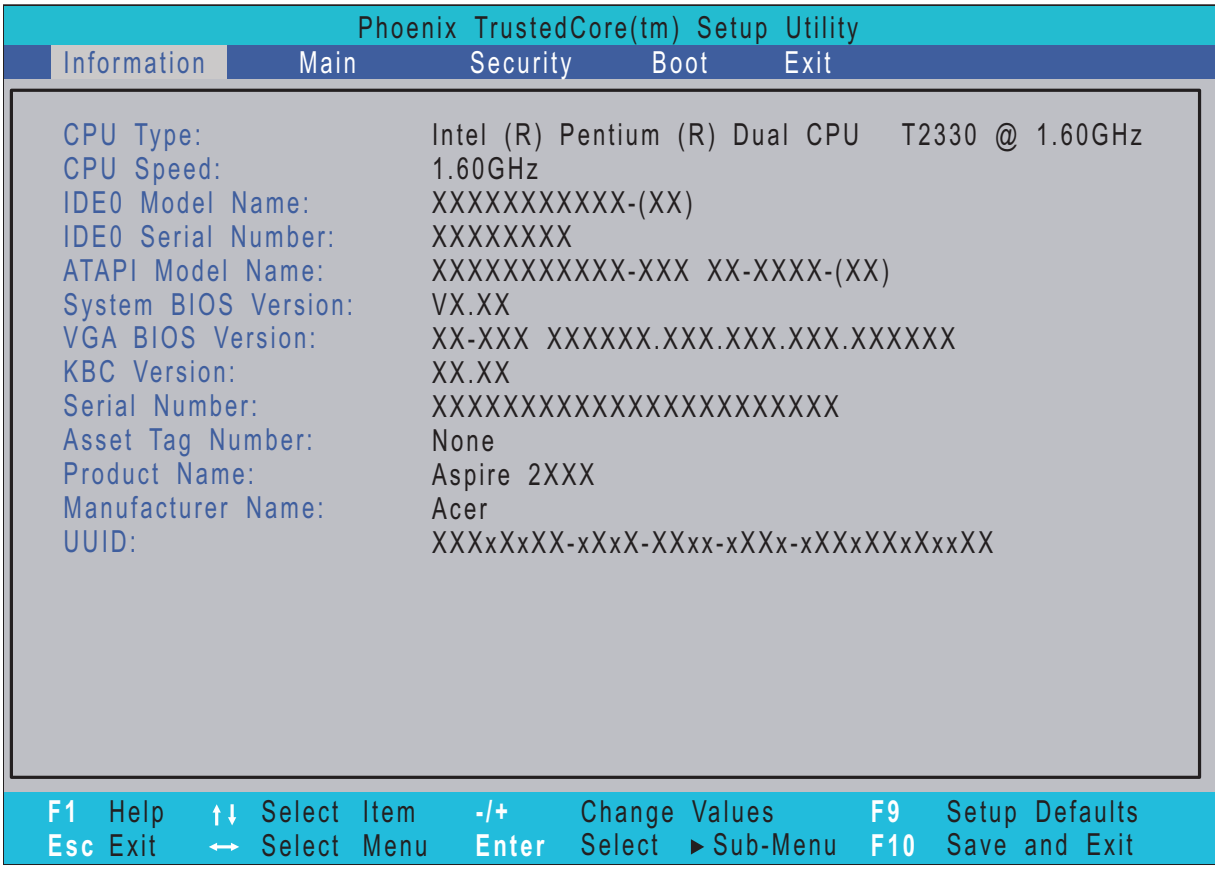
Follow these instructions:

- ❑ To choose a menu, use the left and right arrow keys.
- ❑ To choose an item, use the up and down arrow keys.
- ❑ To change the value of a parameter, press **F5** or **F6**.
- ❑ A plus sign (+) indicates the item has sub-items. Press **Enter** to expand this item.
- ❑ Press **Esc** while you are in any of the menu options to go to the Exit menu.
- ❑ In any menu, you can load default settings by pressing **F9**. You can also press **F10** to save any changes made and exit the BIOS Setup Utility.

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

Information

The Information screen displays a summary of your computer hardware information.

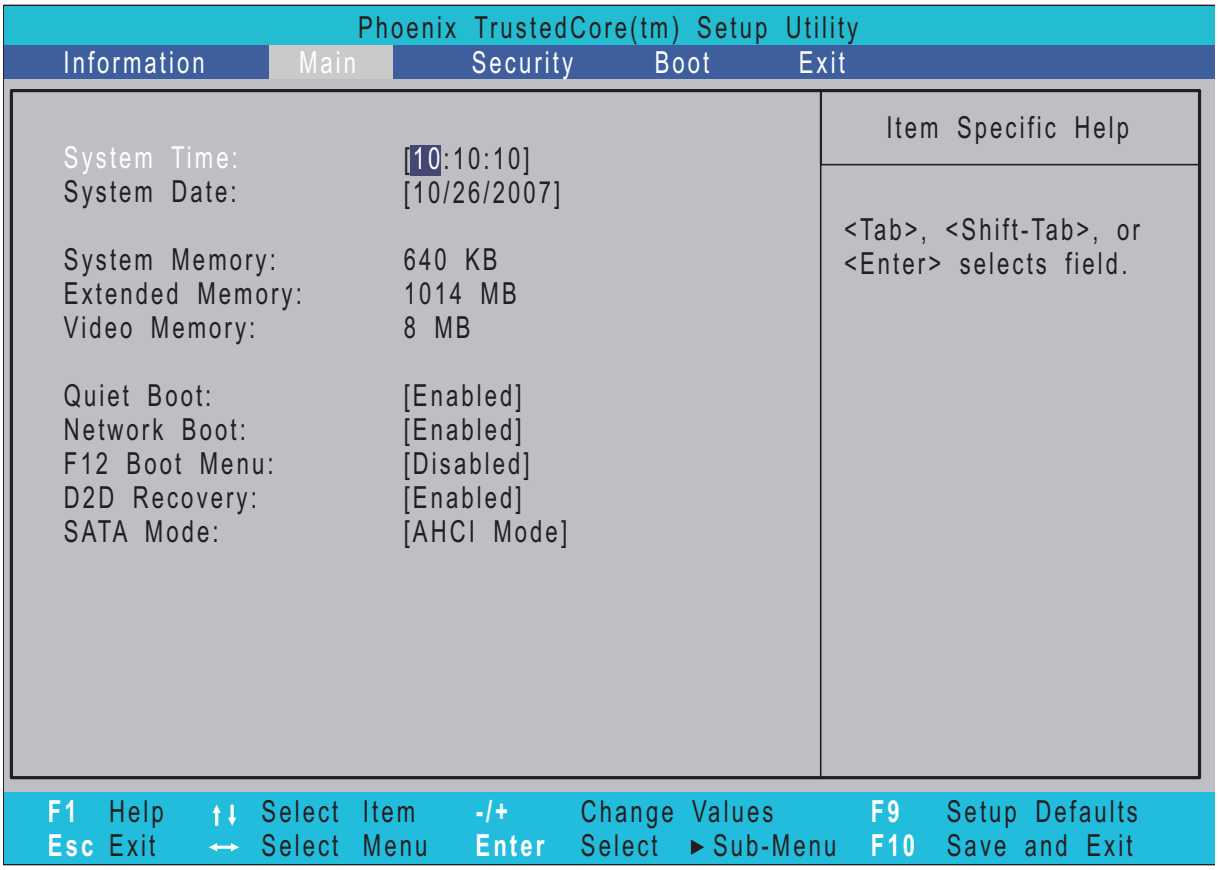


NOTE: The system information is subject to different models.

Parameter	Description
CPU Type	This field shows the CPU type and speed of the system.
CPU Speed	This field shows the speed of the CPU.
IDE0 Model Name	This field shows the model name of HDD installed on primary IDE master.
IDE0 Serial Number	This field displays the serial number of HDD installed on primary IDE master.
ATAPI Model Name	This field shows the model name of the Optical device installed in the system.
System BIOS Version	Displays system BIOS version.
VGA BIOS Version	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	Universally Unique Identifier (UUID) is an identifier standard used in software construction, standardized by the Open Software Foundation (OSF) as part of the Distributed Computing Environment (DCE).

Main

The Main screen allows the user to set the system time and date as well as enable and disable boot option and recovery.



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

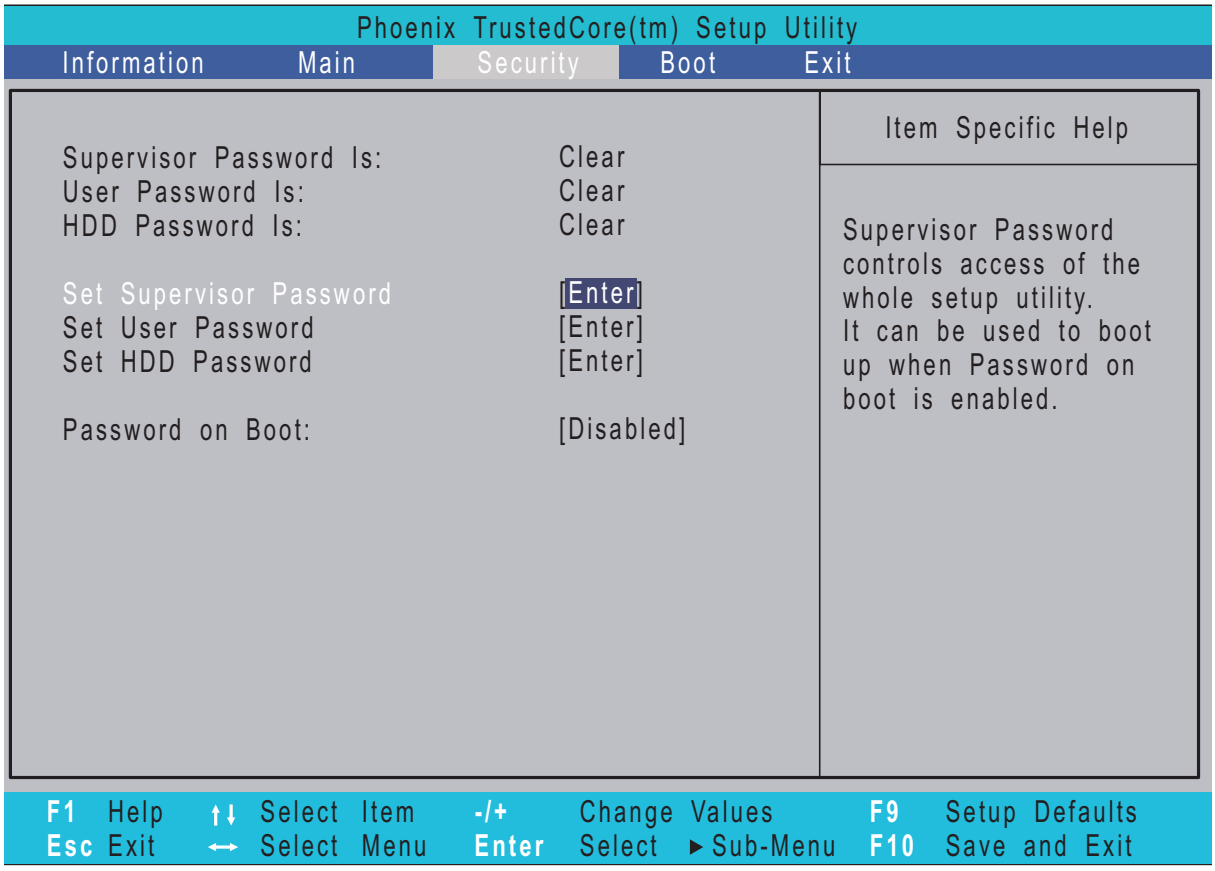
The table below describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

Parameter	Description	Format/Option
System Time	Sets the system time. The hours are displayed with 24-hour format.	Format: HH:MM:SS (hour:minute:second) System Time
System Date	Sets the system date.	Format MM/DD/YYYY (month/day/ year) 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=128/256 MB	
Quiet Boot	Determines if Customer Logo will be displayed or not; shows Summary Screen is disabled or enabled. Enabled: Customer Logo is displayed, and Summary Screen is disabled. Disabled: Customer Logo is not displayed, and Summary Screen is enabled.	Option: **Enabled** or Disabled
Network Boot	Enables, disables the system boot from LAN (remote server).	Option: **Enabled** or Disabled
F12 Boot Menu	Enables, disables Boot Menu during POST.	Option: **Disabled** 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: **Enabled** or Disabled
SATA Mode	Control the mode in which the SATA controller should operate.	Option: **AHCI Mode** or IDE Mode

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.

Security

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



NOTE: Please refer to “Remove HDD/BIOS Password” section if you need to know how to remove HDD/BIOS Password.

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

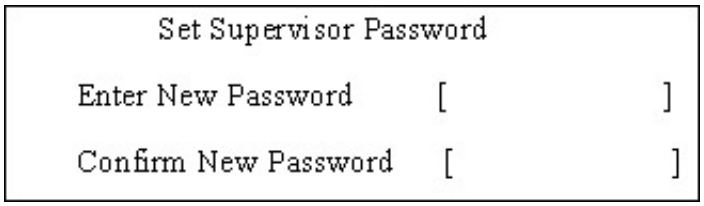
Parameter	Description	Option
Supervisor Password Is	Shows the setting of the Supervisor password	**Clear** or Set
User Password Is	Shows the setting of the user password.	**Clear** or Set
HDD Password Is	Shows the setting of the hard disk password.	**Clear** or Set
Set Supervisor Password	Press Enter 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.	
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 HDD Password	Enter HDD Password.	
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.	**Disabled** 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 andy keys to highlight the Set Supervisor Password parameter and press the e key. The Set Supervisor Password box appears:



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.

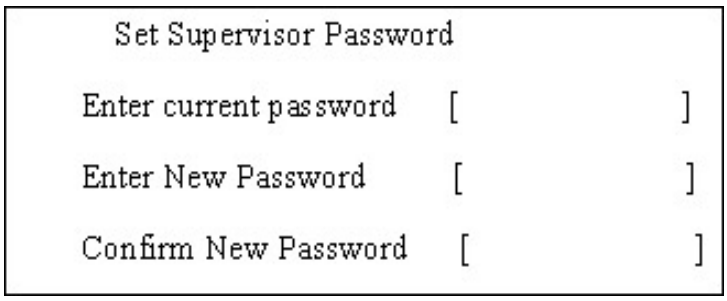
IMPORTANT: Be very careful when typing your password because the characters do not appear on the screen.

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:

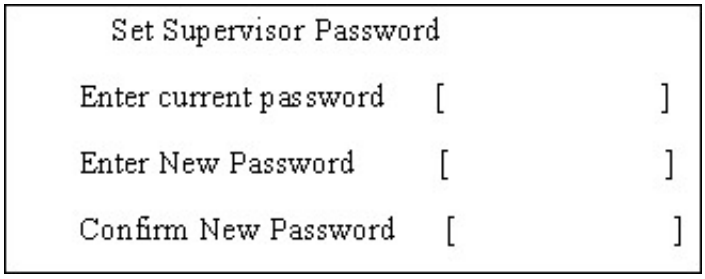
1. Use the w and y keys to highlight the Set Supervisor Password parameter and press the e key. The Set Password box appears:



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.

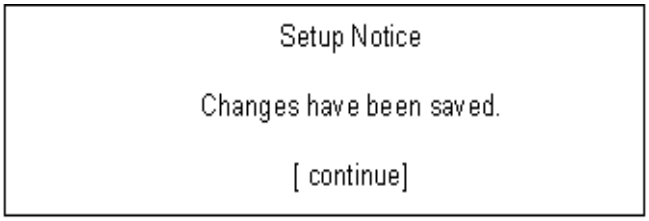
Changing a Password

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



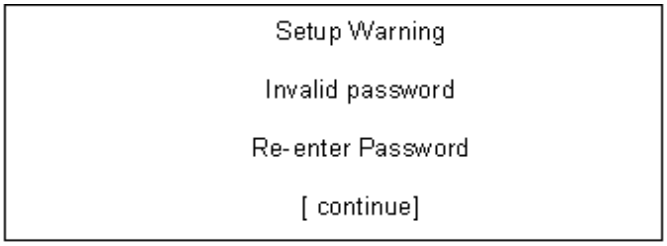
2. Type the current password in the Enter Current Password field and press e.
3. Type a password in the Enter New Password field. Retype the password in the Confirm New Password field.
4. Press e. After setting the password, the computer sets the User Password parameter to “Set”.
5. If desired, you can 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.



The password setting is complete after the user presses u.

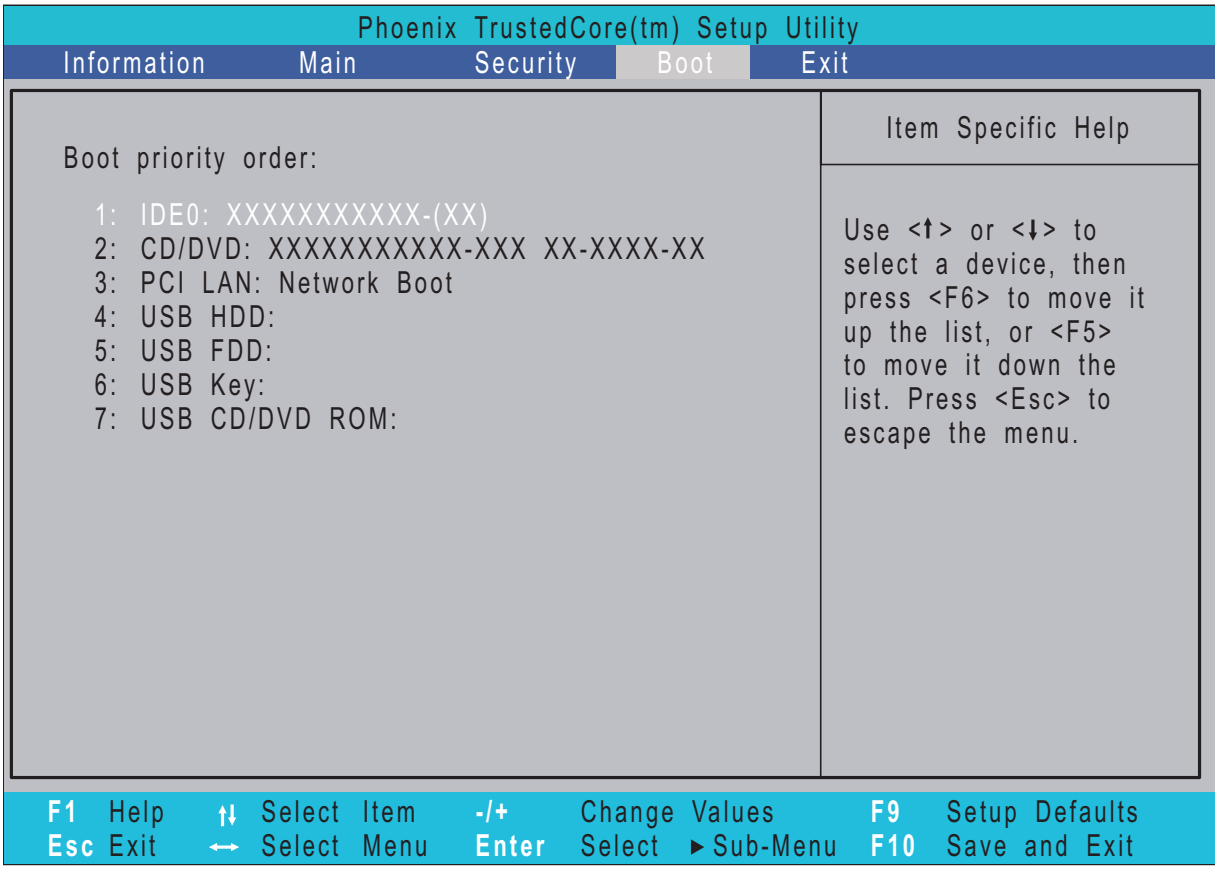
If the current password entered does not match the actual current password, the screen will show you the Setup Warning.



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

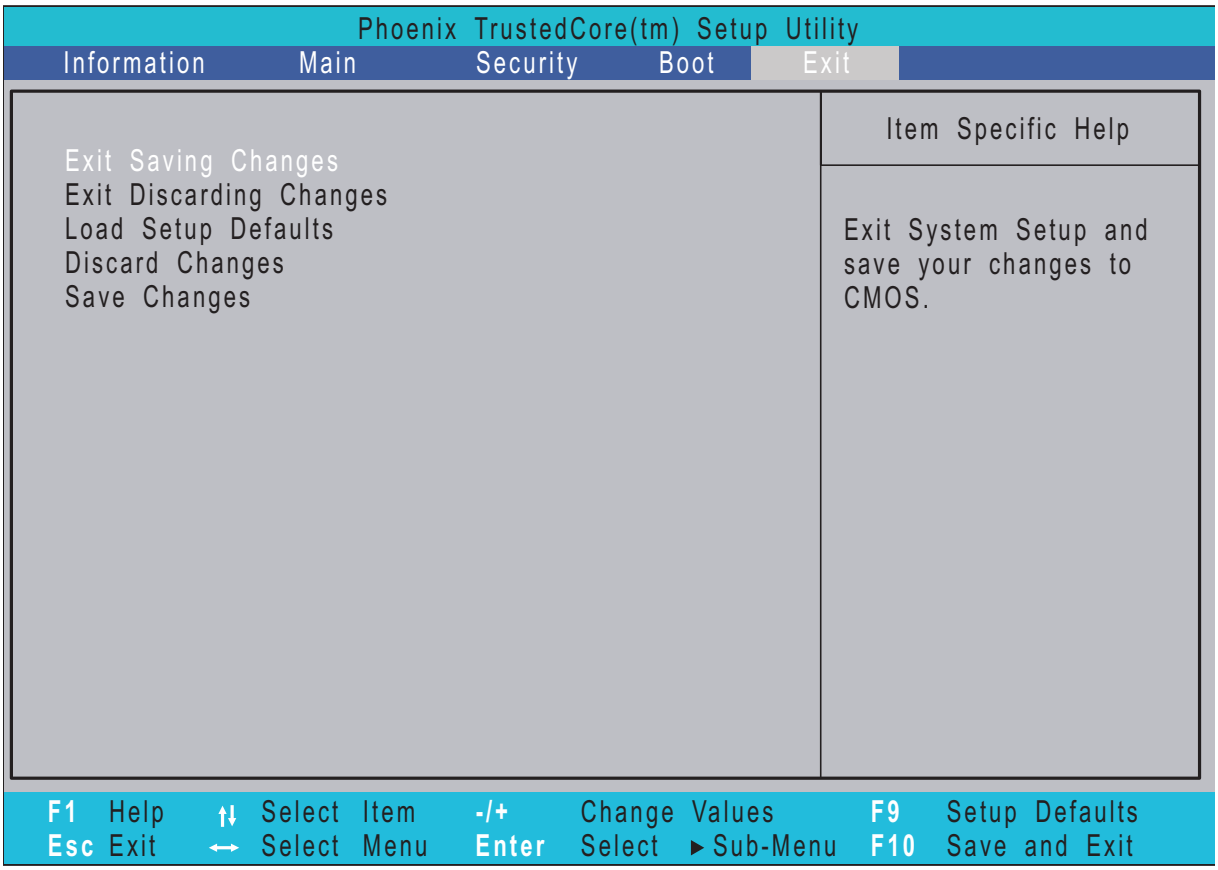
Boot

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.



Exit

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



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.

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.

Fellow the steps below to run the Phlash.

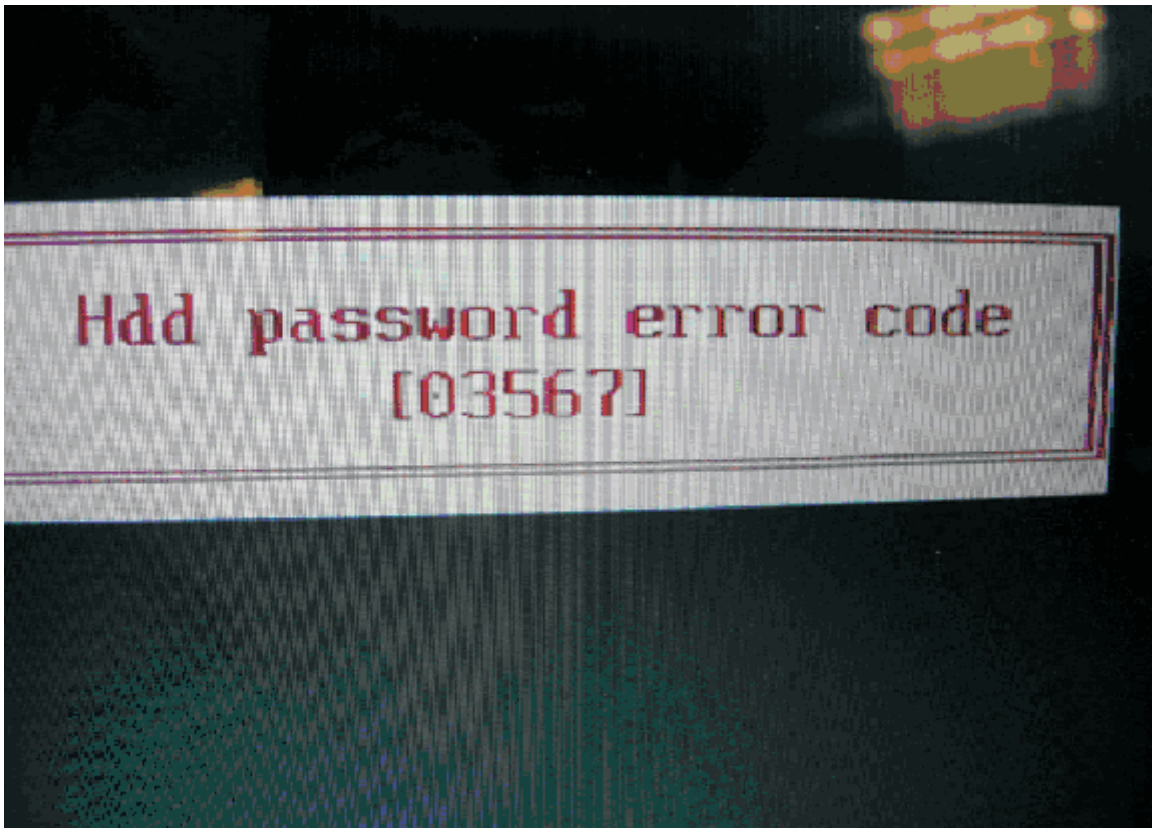
1. Prepare a bootable diskette.
2. Copy the flash utilities to the bootable diskette.
3. Then boot the system from the bootable diskette. The flash utility has auto-execution function.

Removing HDD Utility

This section provide you with removing HDD method:

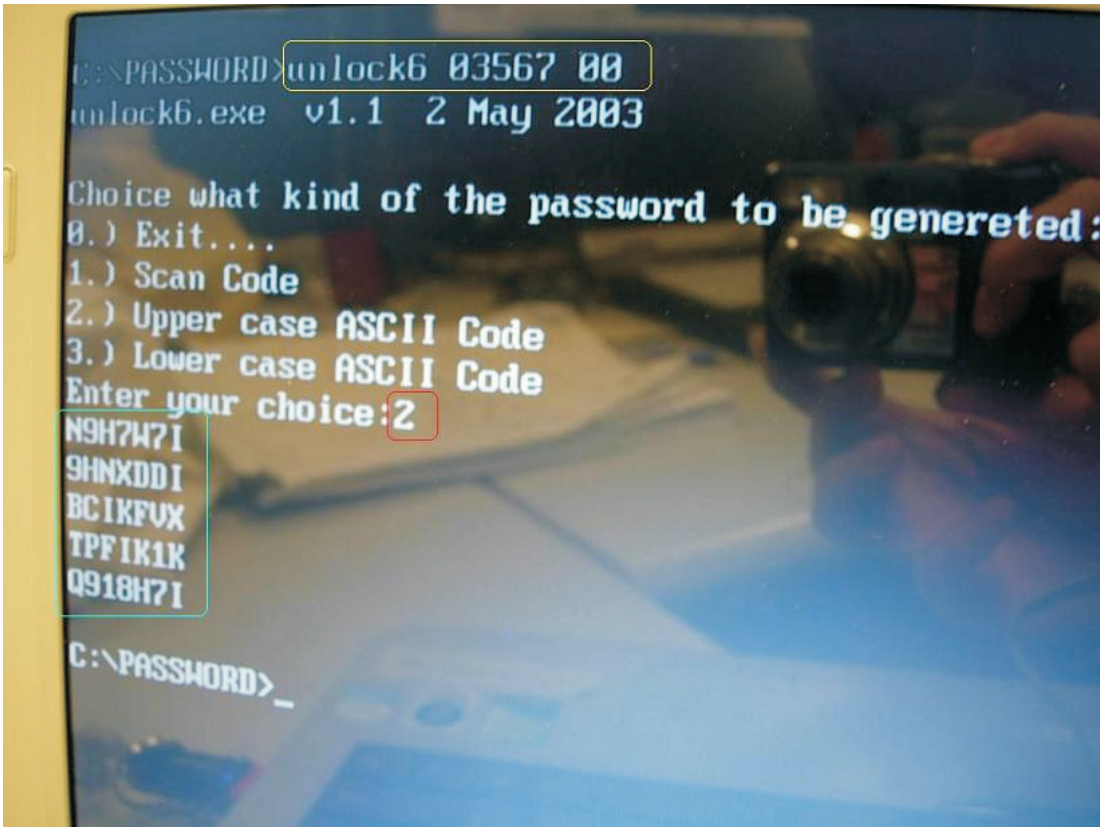
Remove HDD Password:

- 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 03567 00””
2. Select “2”
3. Choose one upper-case string



- Reboot system and key in "N9H7W7I" , "9HNXDDI" ,"BCIKFVX","TPFIK1K" or "Q918H7I" to HDD user password.

Chapter 3

Machine Disassembly and Replacement

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

Disassembly Requirements

To disassemble the computer, you need the following tools:

- Wrist grounding strap and conductive mat for preventing electrostatic discharge
- Flat screwdriver
- Philips screwdriver
- Hex screwdriver
- Plastic flat screwdriver
- Plastic 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.

General Information

Pre-disassembly Instructions

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. Place the system on a flat, stable surface.
4. Remove the battery pack.

Disassembly Process

The disassembly process is divided into the following stages:

- External module disassembly
- Main unit disassembly
- LCD module disassembly

The flowcharts provided in the succeeding disassembly sections illustrate the entire disassembly sequence. Observe the order of the sequence to avoid damage to any of the hardware components. For example, if you want to remove the main board, you must first remove the keyboard, then disassemble the inside assembly frame in that order.

Main Screw List

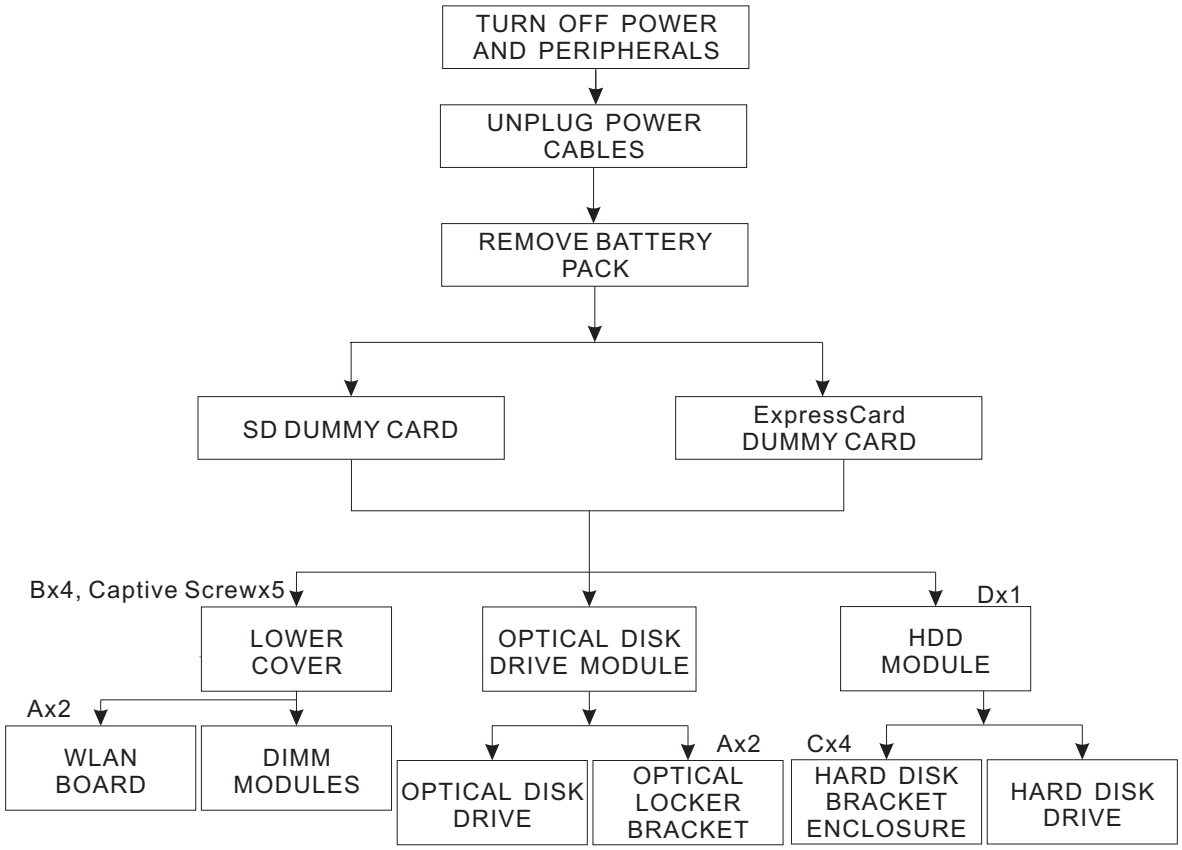
Item	Screw	Color	Part No.
A	M2 x L3	Black	86.00D29.620
B	M2 x L4	Black	86.00D68.620
C	M3 x L4	Silver	86.9A524.4R0
D	M2 x L5	Black	86.00E32.725
E	M2.5 x L5	Black	86.00F87.735
F	M2 x L4	Black	86.00F24.724
G	M2 x L3	Silver	86.9A552.3R0
H	M2.5 x L8	Black	86.00E34.738
I	M2.5 x L4	Silver	86.00E41.134

External Module Disassembly Process

External Modules Disassembly Flowchart

The flowchart below 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 main board, you must first remove the keyboard, then disassemble the inside assembly frame in that order.

EXTERNAL MODULE DISASSEMBLY



Screw List

Item	Screw	Color	Part No.
A	M2 x L3	Black	86.00D29.620
B	M2 x L4	Black	86.00D68.620
C	M3 x L4	Silver	86.9A524.4R0
D	M2 x L5	Black	86.00E32.725

Removing the Battery Pack

1. Turn base unit over.
2. Slide the battery lock/unlock latch to the unlock position.

3. Slide and hold the battery release latch to the release position (1), then slide out the battery pack from the main unit (2).

Removing the SD dummy card

1. Push the SD dummy card all the way in to eject it (1, 2).

2. Pull it out from the slot.

Removing the ExpressCard dummy card

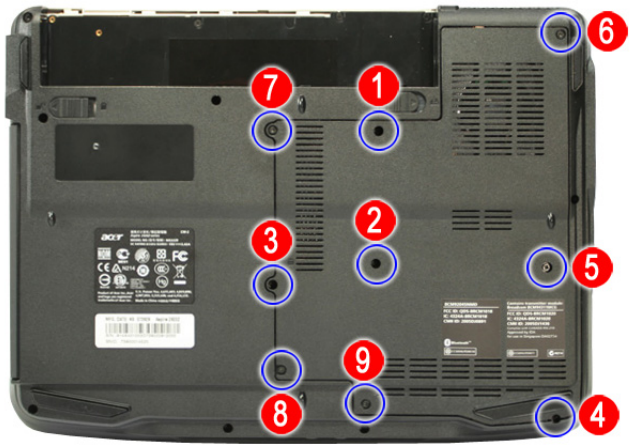
1. Push the ExpressCard dummy card all the way in to eject it.

2. Pull it out from the slot.

Removing the Lower Cover

1. See “Removing the Battery Pack” on page 56.

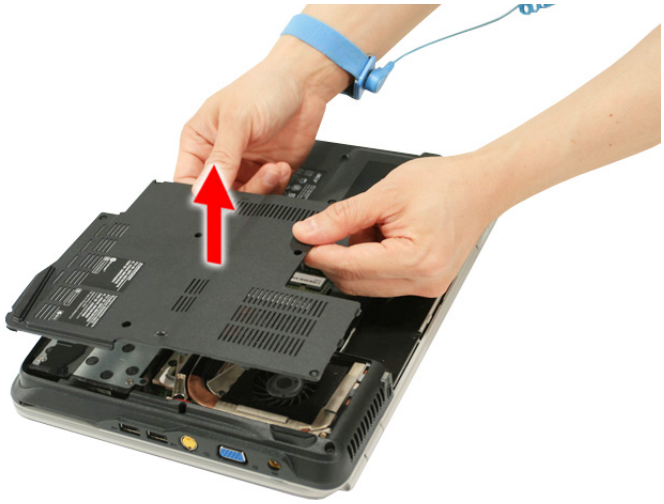
2. See “Removing the SD dummy card” on page 56.
3. See “Removing the ExpressCard dummy card” on page 57.
4. Remove the four screws (B) and loosen the five captive screws on the lower cover.



Step	Size (Quantity)	Color	Torque
1~4	M2 x L12 (4)	Black	1.6 kgf-cm

5. Use a plastic screw driver to carefully pry open the lower cover.

6. Remove the lower cover from the lower case.



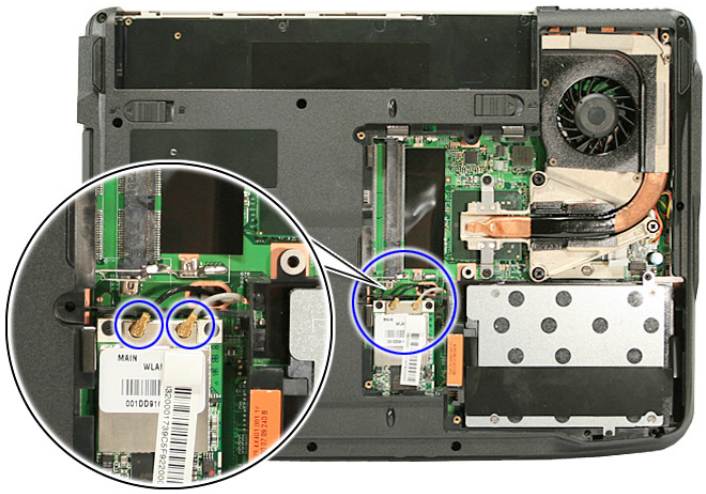
Removing the DIMM

1. See “Removing the Battery Pack” on page 56.
2. See “Removing the SD dummy card” on page 56.
3. See “Removing the ExpressCard dummy card” on page 57.
4. See “Removing the Lower Cover” on page 57..
5. Push out the latches on both sides of the DIMM socket to release the DIMM.

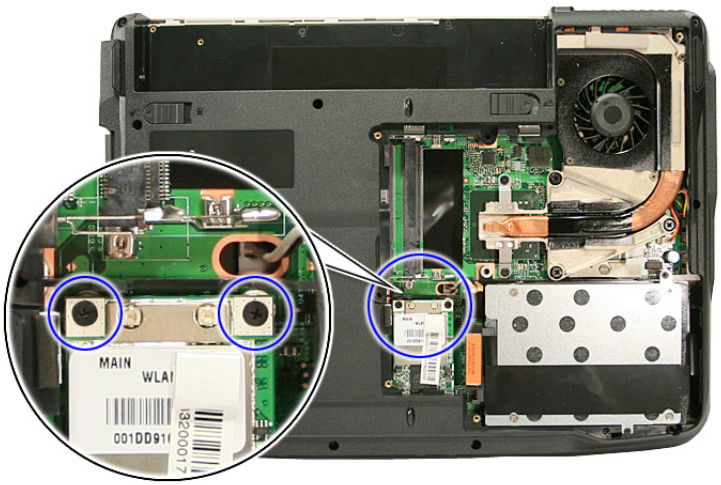
6. Remove the DIMM module.

Removing the WLAN Board Modules

1. See “Removing the Battery Pack” on page 56.
2. See “Removing the SD dummy card” on page 56.
3. See “Removing the ExpressCard dummy card” on page 57.
4. See “Removing the Lower Cover” on page 57.
5. Disconnect the antenna cables from the WLAN board.



6. Move the antenna away from the WLAN board and remove the two screws (A) on the WLAN board to release the WLAN board.



Step	Size (Quantity)	Color	Torque
1~2	M2 x L3 (2)	Black	1.6 kgf-cm

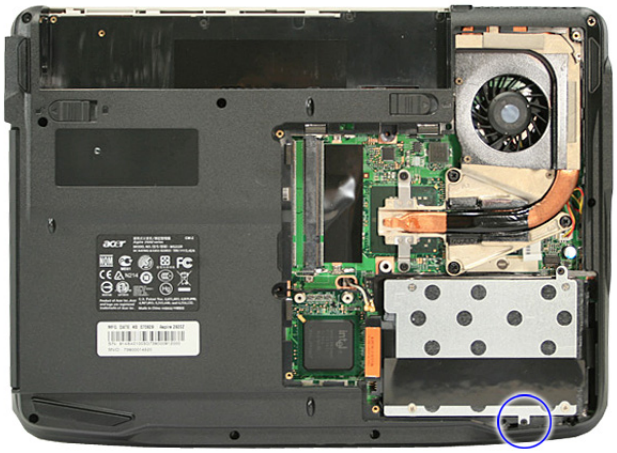
7. Detach the WLAN board from the WLAN socket.

NOTE: When attaching the antenna back to the WLAN board, make sure the cable are arranged properly.

Removing the Hard Disk Drive Module

1. See “Removing the Battery Pack” on page 56.
2. See “Removing the SD dummy card” on page 56.
3. See “Removing the ExpressCard dummy card” on page 57.
4. See “Removing the Lower Cover” on page 57.

5. Remove the one screw (D) securing the hard disk drive module.

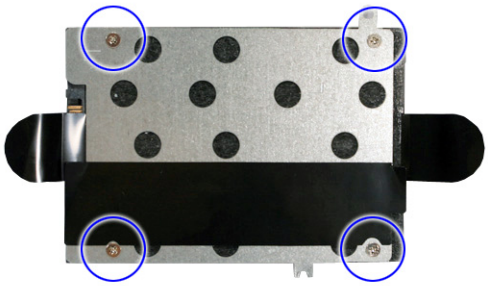


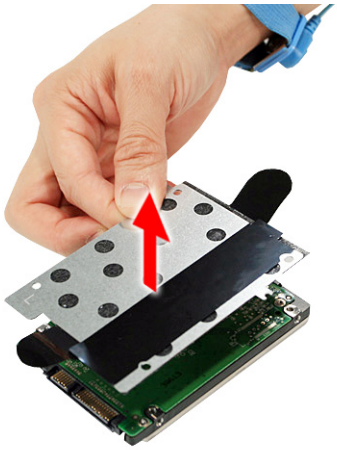
Step	Size (Quantity)	Color	Torque
1	M2 x L5 (1)	Black	1.6 kgf-cm

6. Slide and lift up the hard disk drive module to remove.

NOTE: To prevent damage to device, avoid pressing down on it or placing heavy objects on top of it.

7. Remove the four screws (C) securing the hard disk to the bracket.





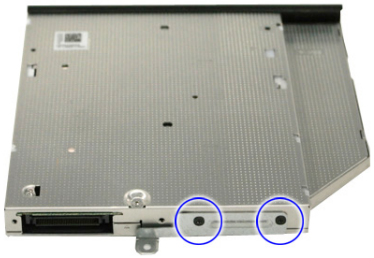
Step	Size (Quantity)	Color	Torque
1~4	M3 x L4 (4)	Silver	3.0 kgf-cm

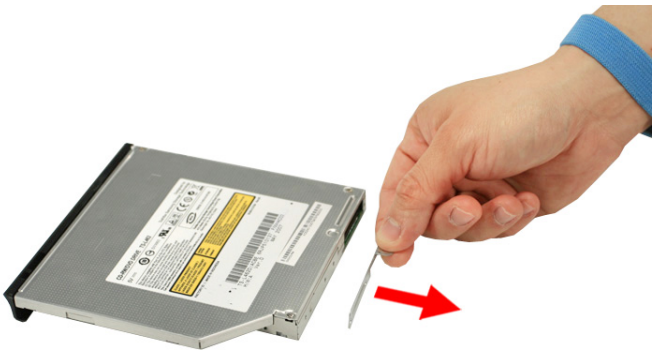
Removing the Optical Drive Module

1. See “Removing the Battery Pack” on page 56.
2. See “Removing the Lower Cover” on page 57.
3. Carefully use a plastic screw driver to eject the optical drive tray.

4. Pull the optical drive module out from the main unit.

5. Remove the two screws (A) securing the locker bracket and remove the locker bracket from the optical disk drive module.

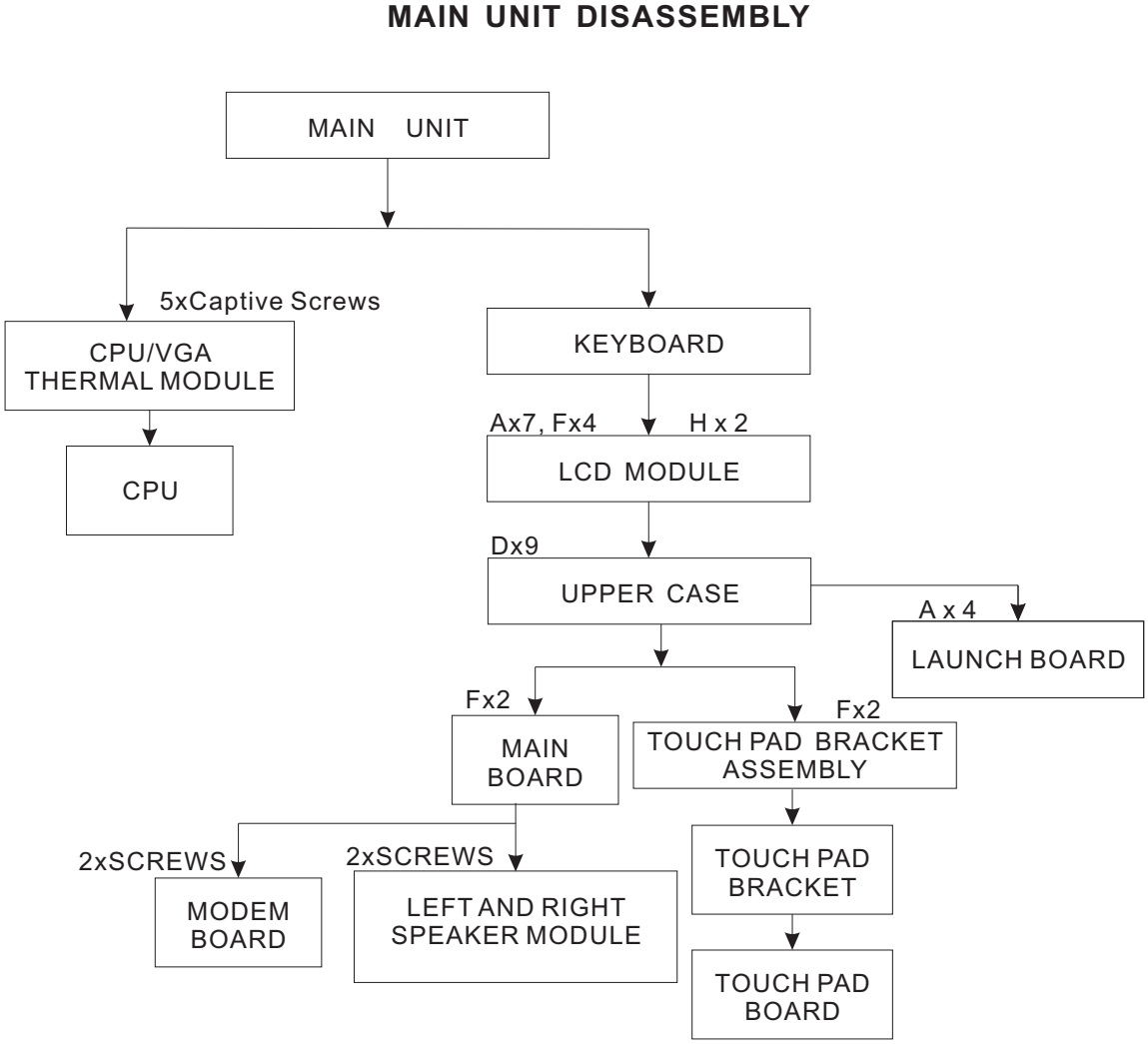




Step	Size (Quantity)	Color	Torque
1~2	M2 x L4 (2)	Black	1.6 kgf-cm

Main Unit Disassembly Process

Main Unit Disassembly Flowchart



Screw List

Item	Screw	Color	Part No.
A	M2 x L3	Black	86.00D29.620
D	M2 x L5	Black	86.00E32.725
F	M2 x L4	Black	86.00F24.724
H	M2.5 x L8	Black	86.00E34.738

Removing the CPU and VGA Heatsink Module

1. See “Removing the Battery Pack” on page 56.
2. See “Removing the Lower Cover” on page 57.

3. Disconnect the heatsink fan connector from the main board.

4. Remove the five screws securing the CPU and VGA heatsink module in place.

5. Slide out and remove the heatsink module.

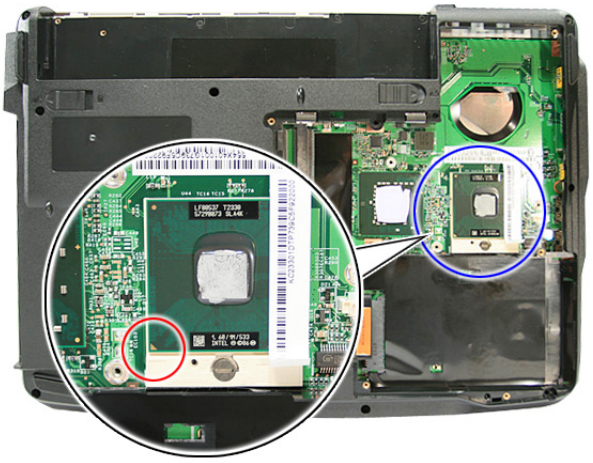
Removing the CPU

1. See “Removing the Battery Pack” on page 56..
2. See “Removing the Lower Cover” on page 57..
3. See “Removing the CPU and VGA Heatsink Module” on page 65.

4. Using a flat screwdriver, turn the CPU socket latch counter-clockwise to release the CPU.

5. Lift up carefully to remove the CPU.

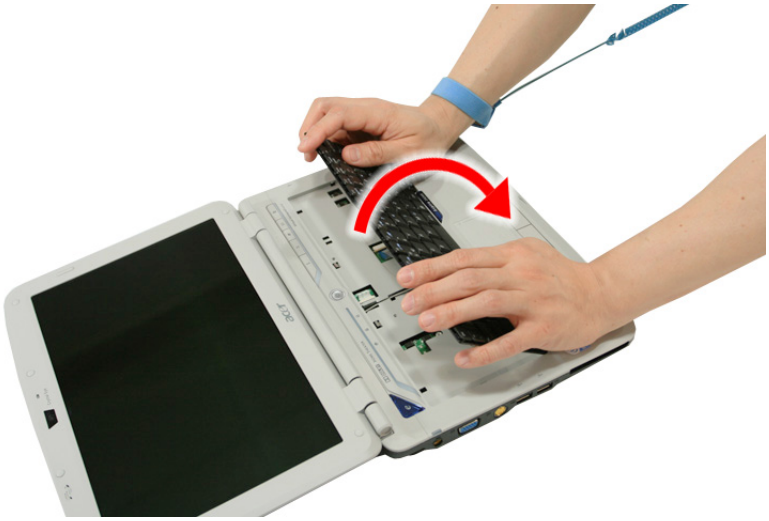
NOTE: When installing the CPU, make sure to install the CPU with PIN 1 at the corner as shown.



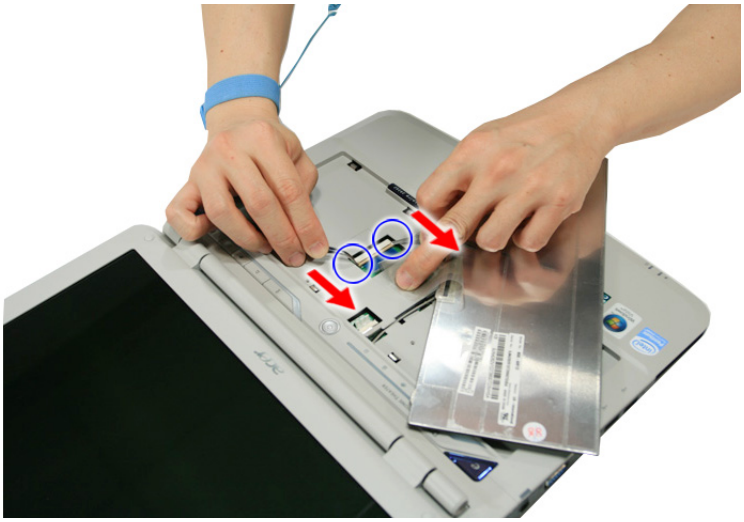
Removing the Keyboard

1. See “Removing the Battery Pack” on page 56..
2. Push down on the lock and release the latches securing the keyboard to the upper case.

3. Turn over the keyboard on the touchpad area.



4. Disconnect the keyboard cable from the main board to remove the keyboard.



Removing the LCD Module

1. See “Removing the Battery Pack” on page 56.
2. See “Removing the Lower Cover” on page 57.
3. See “Removing the WLAN Board Modules” on page 60.
4. See “Removing the Keyboard” on page 69.
5. See “Removing the LCD Module” on page 70.

6. Remove the two screws (H) from the botton panel of the system and three screws (A) on the battery bay area.

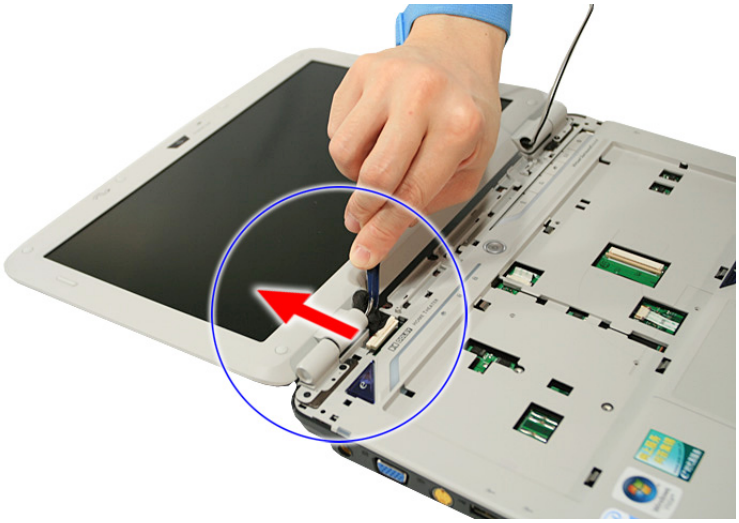
Step	Size (Quantity)	Color	Torque
1~2	M2.5 x L8 (2)	Black	3.0 kgf-cm
3~5	M2 x L3 (3)	Black	1.6 kgf-cm

7. Turn over the system and open the LCD panel and gently pry up and remove the middle cover.

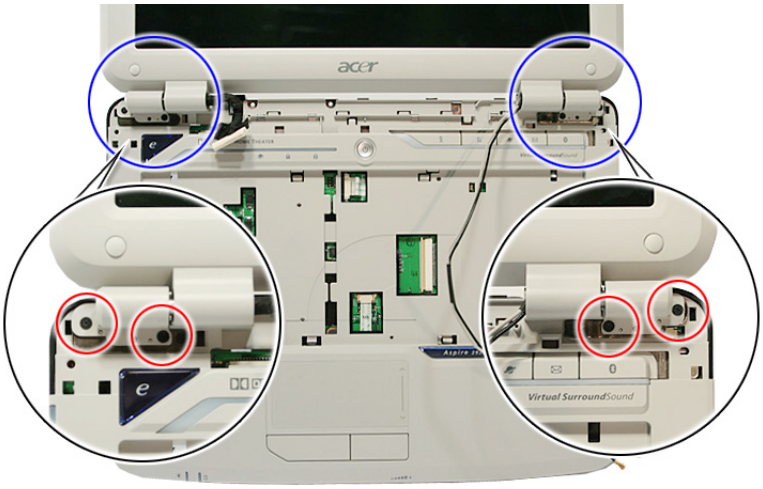
8. Carefully pry up the middle cap cover and remove it.

9. Release the wireless antennas from the latches.

10. Disconnect the LCD cable from the main board.

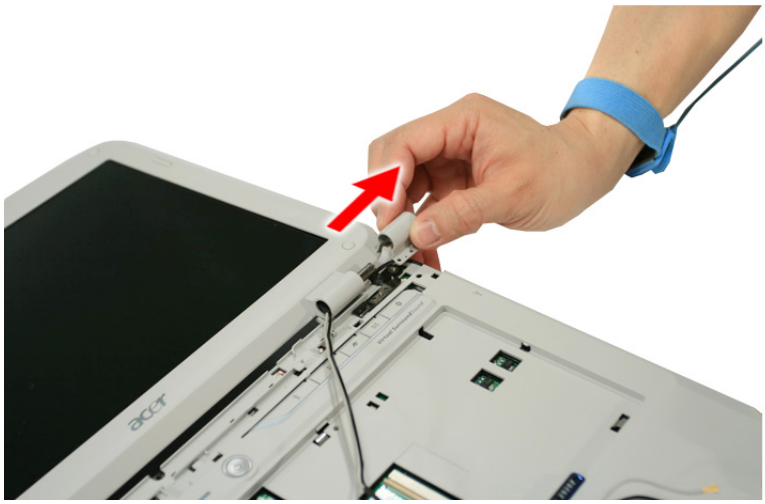


11. Remove the four screws (A) securing the left and right hinge caps.

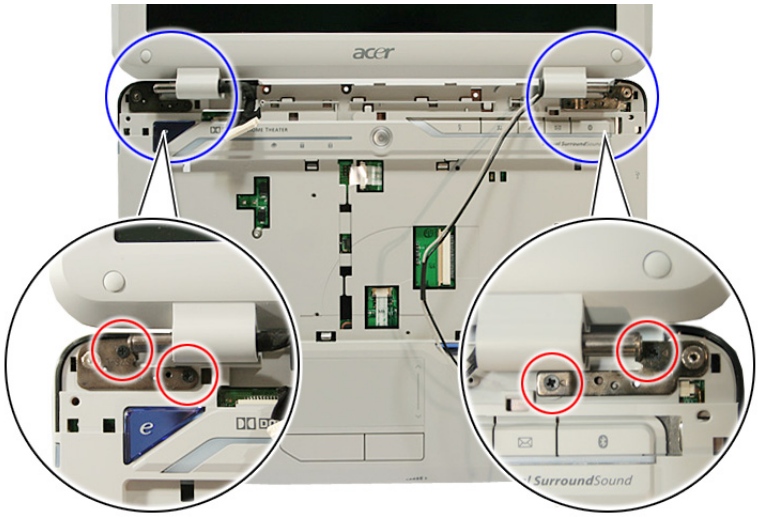


Step	Size (Quantity)	Color	Torque
1~4	M2 x L3 (4)	Black	1.6 kgf-cm

12. Remove the left and right hinge caps.

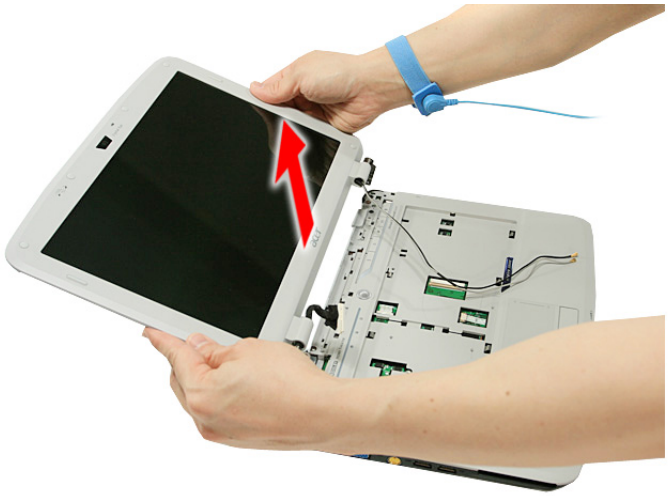


13. Remove the four screws (F) from the left and right hinge of the LCD module.



Step	Size (Quantity)	Color	Torque
1~4	M2 x L4 (4)	Black	1.6 kgf-cm

14. Carefully remove the LCD module from the base unit.

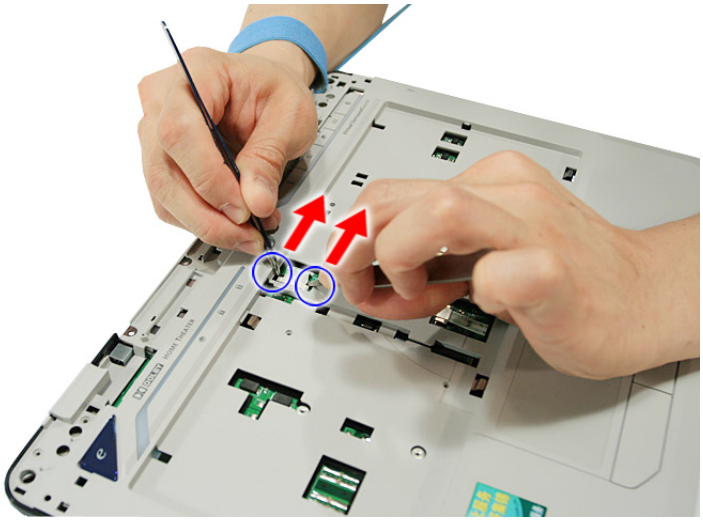


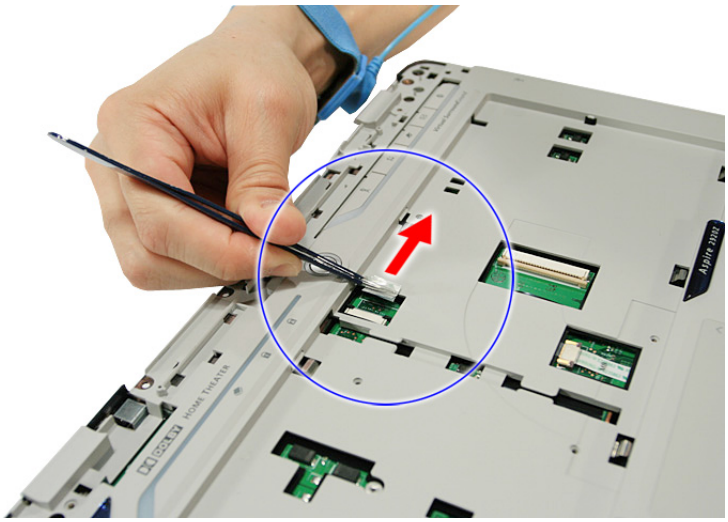
NOTE: When connecting the cable back to the unit, please note that the cable should be routed well.

Separating the Upper Case from the Lower Case

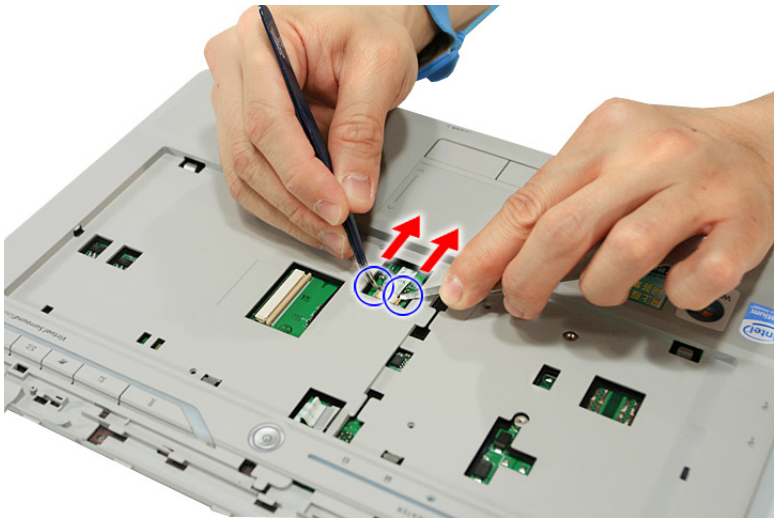
1. See “Removing the Battery Pack” on page 56.
2. See “Removing the SD dummy card” on page 56.
3. See “Removing the ExpressCard dummy card” on page 57.
4. See “Removing the Lower Cover” on page 57.
5. See “Removing the DIMM” on page 59.
6. See “Removing the WLAN Board Modules” on page 60.
7. See “Removing the Hard Disk Drive Module” on page 61.
8. See “Removing the Optical Drive Module” on page 63.
9. See “Removing the CPU and VGA Heatsink Module” on page 65.
10. See “Removing the CPU” on page 67.

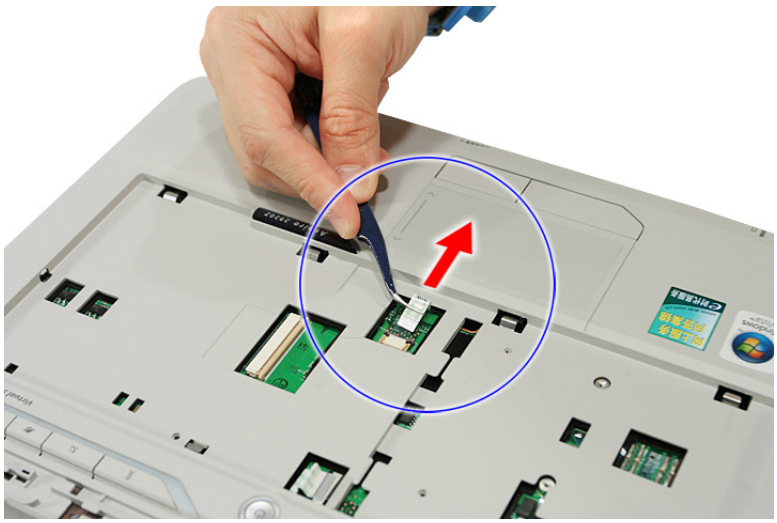
11. See “Removing the Keyboard” on page 69.
12. See “Removing the LCD Module” on page 70.
13. Disconnect the Launch board cable from the CN1 on the main board.



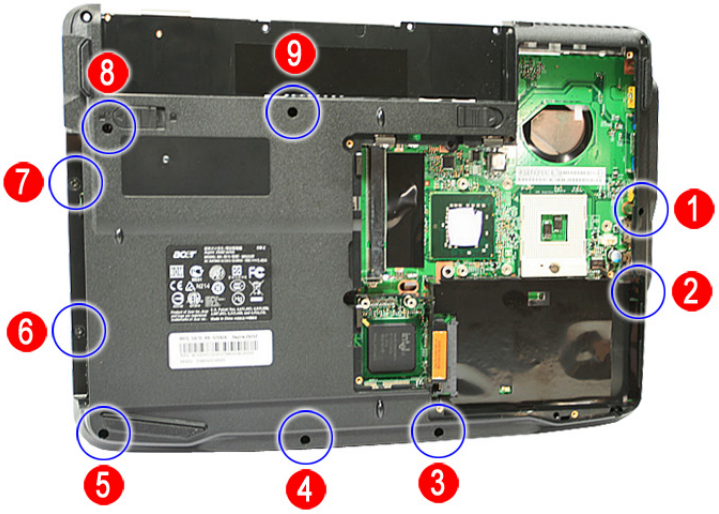


14. Disconnect the touchpad cable from the TOUCHPAD1 on the main board.



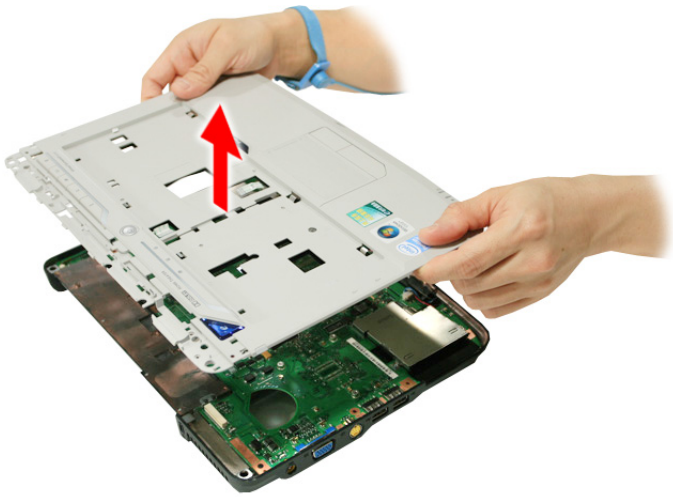


15. Remove the nine screws (D) on the bottom panel.



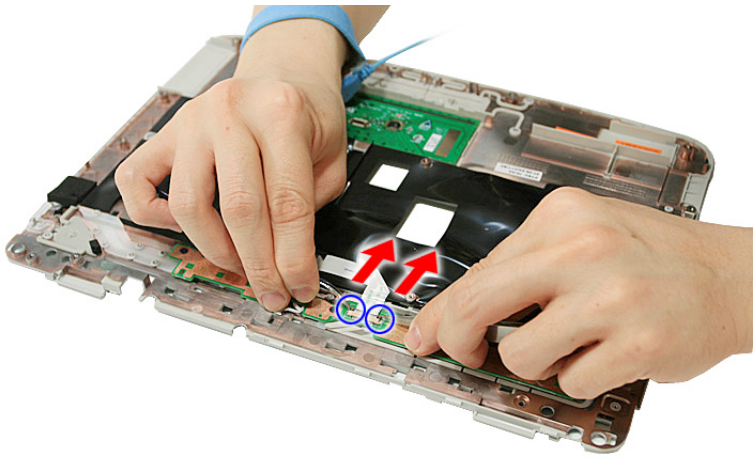
Step	Size (Quantity)	Color	Torque
1~9	M2 x L5 (9)	Black	1.6 kgf-cm

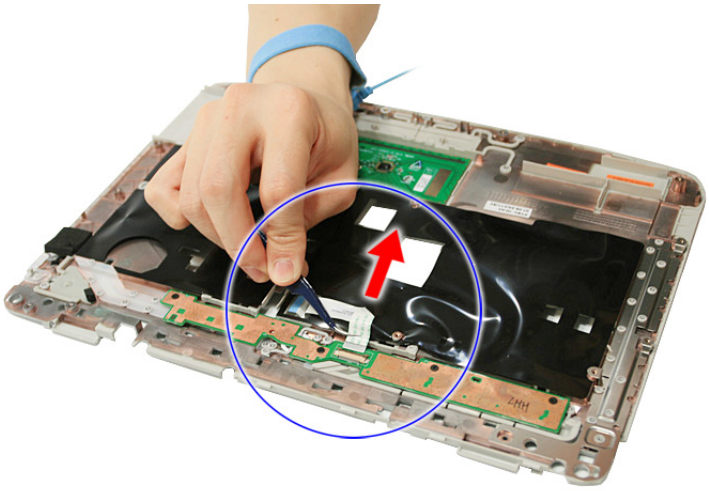
16. Gently raise the upper case from the main unit.



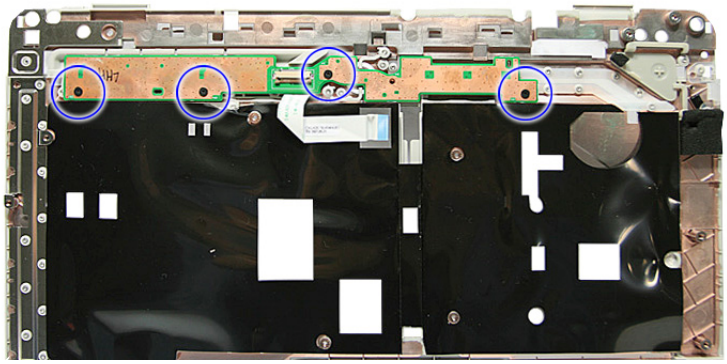
Removing the Launch Board

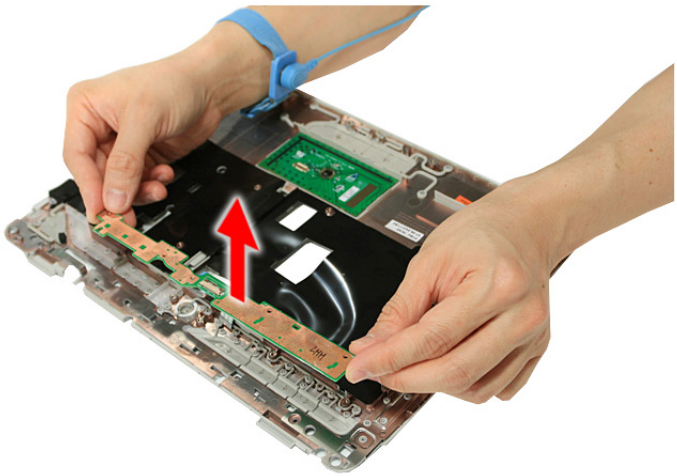
1. See “Removing the Battery Pack” on page 56.
2. See “Removing the SD dummy card” on page 56.
3. See “Removing the ExpressCard dummy card” on page 57.
4. See “Removing the Lower Cover” on page 57.
5. See “Removing the DIMM” on page 59.
6. See “Removing the WLAN Board Modules” on page 60.
7. See “Removing the Hard Disk Drive Module” on page 61.
8. See “Removing the Optical Drive Module” on page 63.
9. See “Removing the CPU and VGA Heatsink Module” on page 65.
10. See “Removing the CPU” on page 67.
11. See “Removing the Keyboard” on page 69.
12. See “Removing the LCD Module” on page 70.
13. See “Separating the Upper Case from the Lower Case” on page 74.
14. Release the latch and disconnect the launch board cable from the launch board.





15. Remove the four screws (A) holding the launch board and remove the launch board from the upper cover.



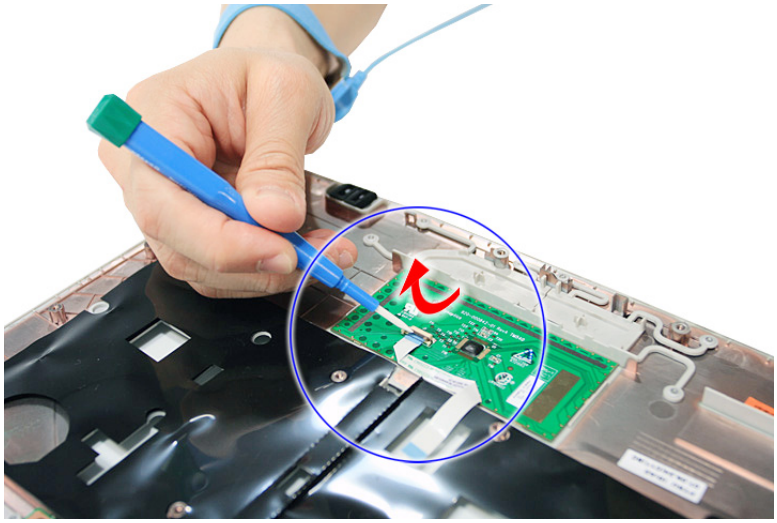


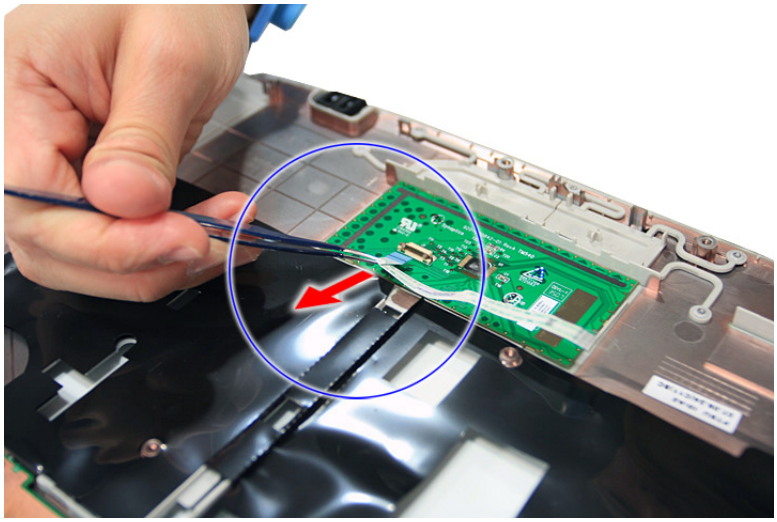
Step	Size (Quantity)	Color	Torque
1~4	M2 x L3 (4)	Black	1.6 kgf-cm

Removing theTouch Pad Board Module

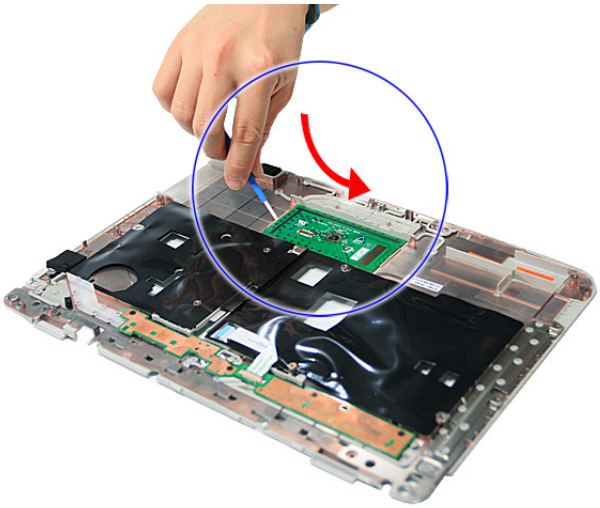
1. See “Removing the Battery Pack” on page 56.
2. See “Removing the SD dummy card” on page 56.
3. See “Removing the ExpressCard dummy card” on page 57.
4. See “Removing the Lower Cover” on page 57.
5. See “Removing the DIMM” on page 59.
6. See “Removing the WLAN Board Modules” on page 60.
7. See “Removing the Hard Disk Drive Module” on page 61.
8. See “Removing the Optical Drive Module” on page 63.
9. See “Removing the CPU and VGA Heatsink Module” on page 65.
10. See “Removing the CPU” on page 67.
11. See “Removing the Keyboard” on page 69.
12. See “Removing the LCD Module” on page 70.

13. See “Separating the Upper Case from the Lower Case” on page 74.
14. Disconnect the touch pad cable from the touch pad board.





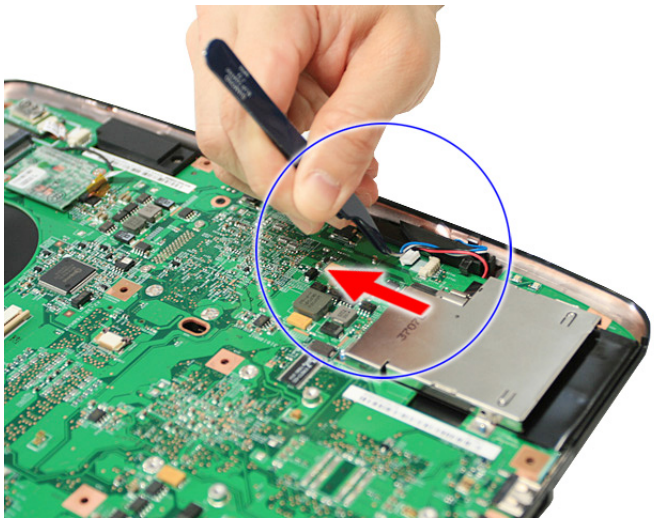
15. Carefully pry loose and remove the touch pad board.



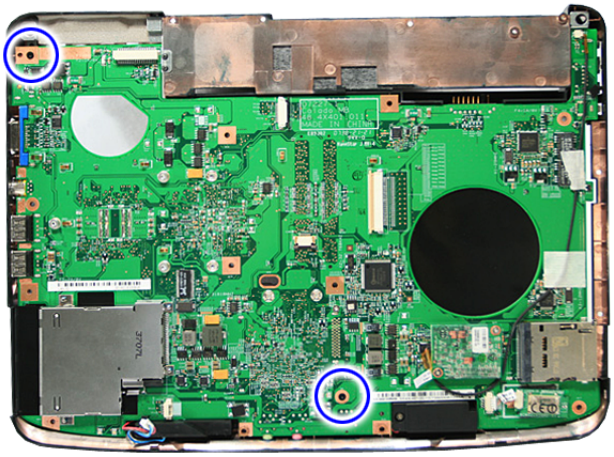
WARNING: The touchpad board is glued to the upper case, only remove the touchpad board if it is defective.

Removing the main board

1. See “Removing the Battery Pack” on page 56.
2. See “Removing the SD dummy card” on page 56.
3. See “Removing the ExpressCard dummy card” on page 57.
4. See “Removing the Lower Cover” on page 57.
5. See “Removing the DIMM” on page 59.
6. See “Removing the WLAN Board Modules” on page 60.
7. See “Removing the Hard Disk Drive Module” on page 61.
8. See “Removing the Optical Drive Module” on page 63.
9. See “Removing the CPU and VGA Heatsink Module” on page 65.
10. See “Removing the CPU” on page 67.
11. See “Removing the Keyboard” on page 69.
12. See “Removing the LCD Module” on page 70.
13. See “Separating the Upper Case from the Lower Case” on page 74.
14. Disconnect the speaker cable from the SPKR1 on the main board.

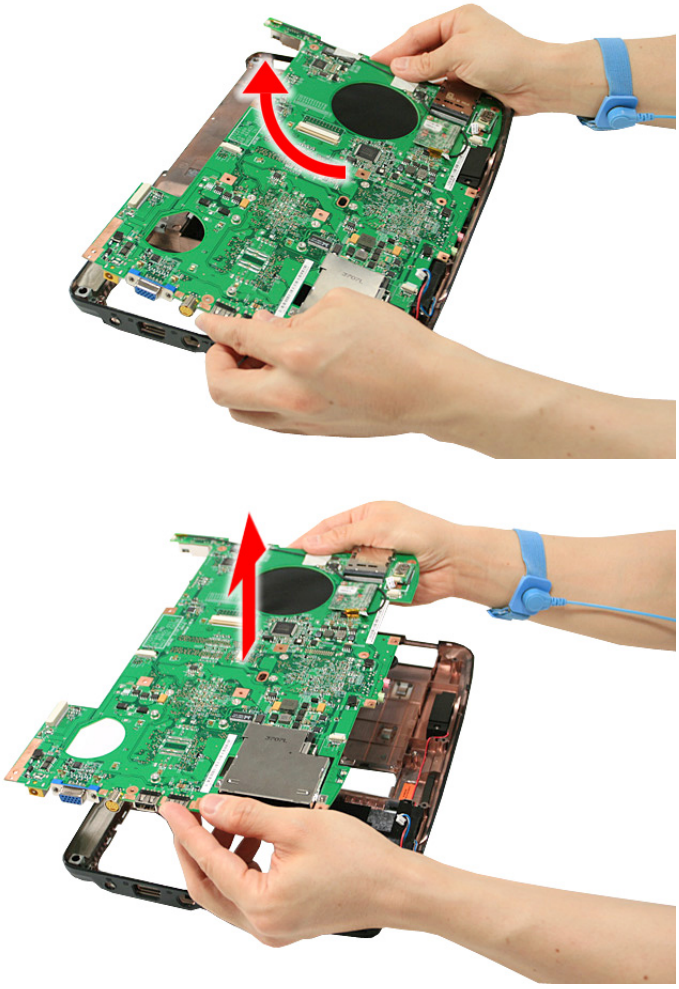


15. Remove the two screws (F) holding the main board.



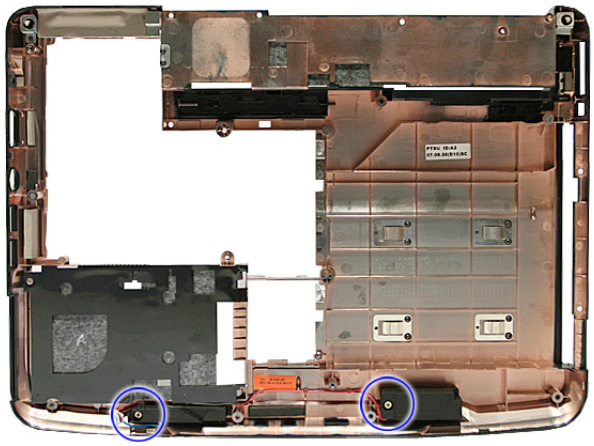
Step	Size (Quantity)	Color	Torque
1~2	M2 x L4 (2)	Black	1.6 kgf-cm

16. Carefully remove the main board.



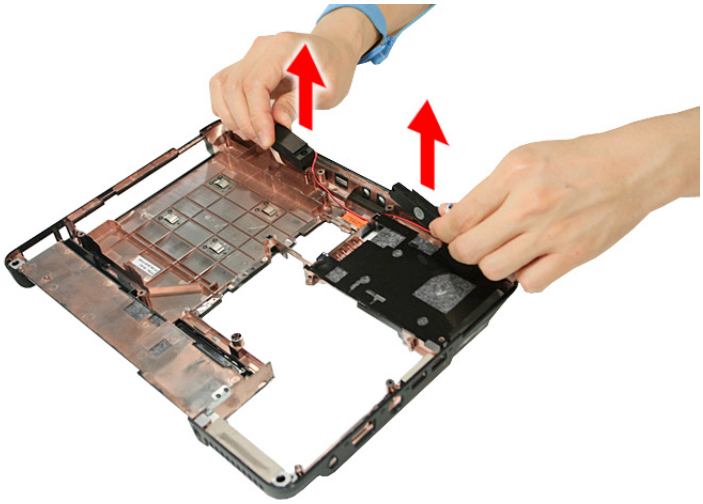
Removing the Speaker Modules

1. See “Removing the Battery Pack” on page 56.
2. See “Removing the SD dummy card” on page 56.
3. See “Removing the ExpressCard dummy card” on page 57.
4. See “Removing the Lower Cover” on page 57.
5. See “Removing the DIMM” on page 59.
6. See “Removing the WLAN Board Modules” on page 60.
7. See “Removing the Hard Disk Drive Module” on page 61.
8. See “Removing the Optical Drive Module” on page 63.
9. See “Removing the CPU and VGA Heatsink Module” on page 65.
10. See “Removing the CPU” on page 67.
11. See “Removing the Keyboard” on page 69.
12. See “Removing the LCD Module” on page 70.
13. See “Separating the Upper Case from the Lower Case” on page 74.
14. See “Removing the main board” on page 80.
15. Remove the four screws holding the left and right speakers.



Step	Size (Quantity)	Color	Torque
1~4	M2 x L4 (4)	Silver	1.6 kgf-cm

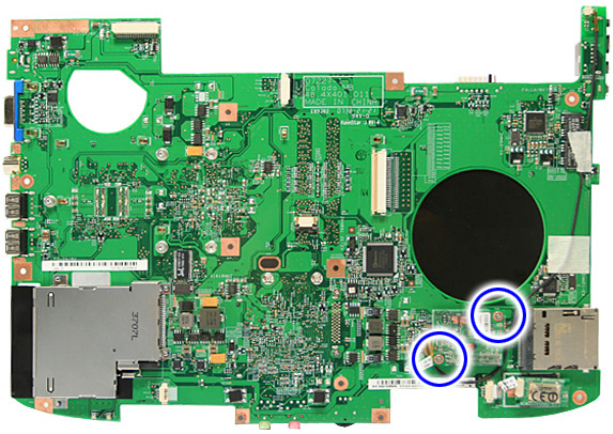
16. Remove the left and right speakers from the upper case.



Removing the Modem Board

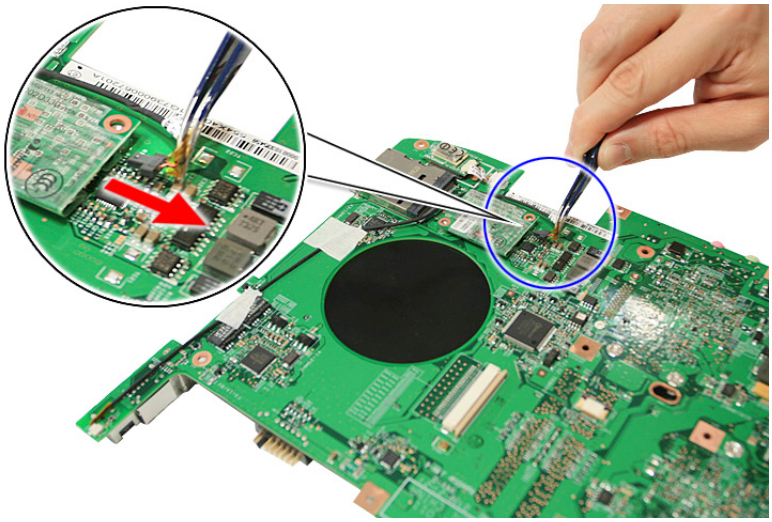
1. See “Removing the Battery Pack” on page 56.
2. See “Removing the SD dummy card” on page 56.
3. See “Removing the ExpressCard dummy card” on page 57.
4. See “Removing the Lower Cover” on page 57.
5. See “Removing the DIMM” on page 59.
6. See “Removing the WLAN Board Modules” on page 60.
7. See “Removing the Hard Disk Drive Module” on page 61.
8. See “Removing the Optical Drive Module” on page 63.
9. See “Removing the CPU and VGA Heatsink Module” on page 65.
10. See “Removing the CPU” on page 67.
11. See “Removing the Keyboard” on page 69.
12. See “Removing the LCD Module” on page 70.
13. See “Separating the Upper Case from the Lower Case” on page 74.
14. See “Removing the main board” on page 80.

15. Remove the 2 screws securing the modem card.

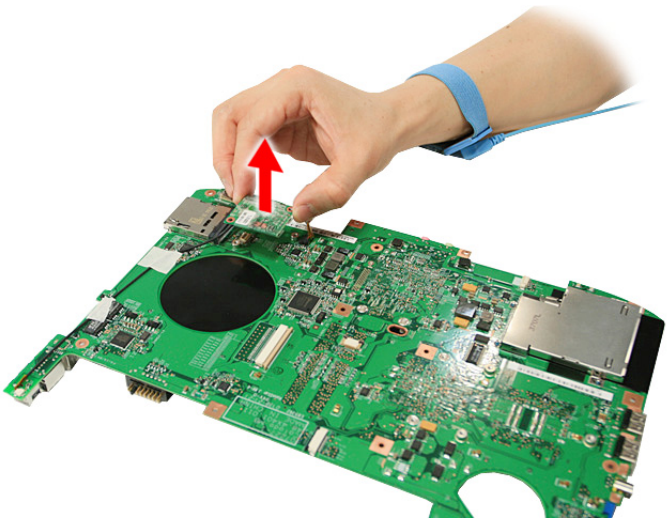


Step	Size (Quantity)	Color	Torque
1~2	M2 x L4 (2)	Silver	1.8 kgf-cm

16. Disconnect the cable from the modem board.

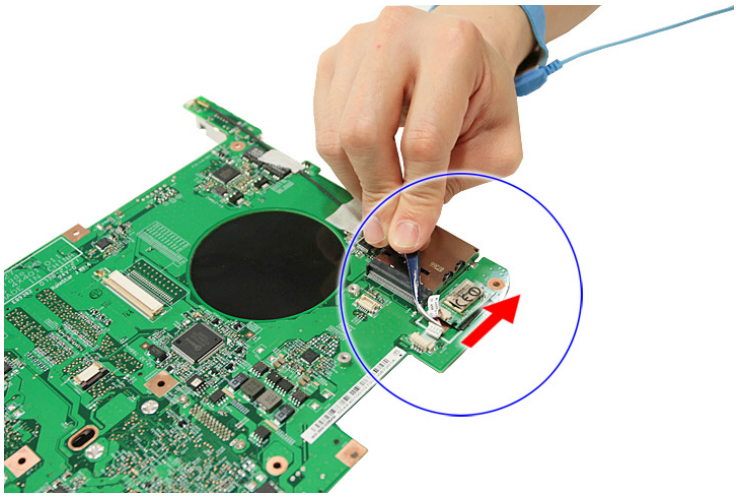


17. Remove the modem board from the main board.

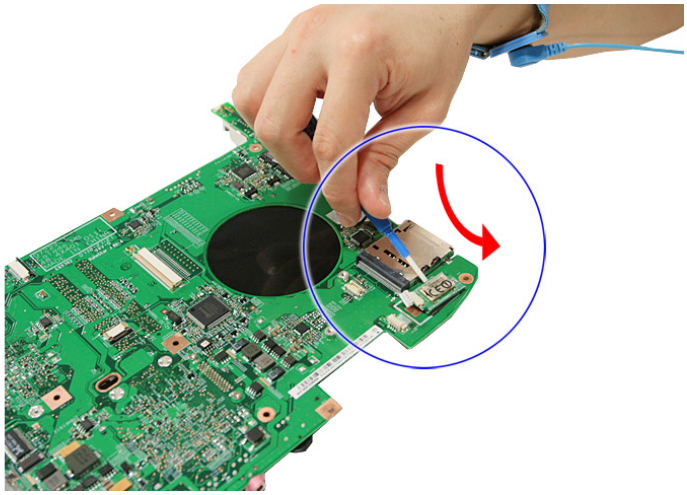


Removing the Bluetooth board

1. See “Removing the Battery Pack” on page 56.
2. See “Removing the SD dummy card” on page 56.
3. See “Removing the ExpressCard dummy card” on page 57.
4. See “Removing the Lower Cover” on page 57.
5. See “Removing the DIMM” on page 59.
6. See “Removing the WLAN Board Modules” on page 60.
7. See “Removing the Hard Disk Drive Module” on page 61.
8. See “Removing the Optical Drive Module” on page 63.
9. See “Removing the CPU and VGA Heatsink Module” on page 65.
10. See “Removing the CPU” on page 67.
11. See “Removing the Keyboard” on page 69.
12. See “Removing the LCD Module” on page 70.
13. See “Separating the Upper Case from the Lower Case” on page 74.
14. See “Removing the main board” on page 80.
15. Detach the Bluetooth cable from the main board.



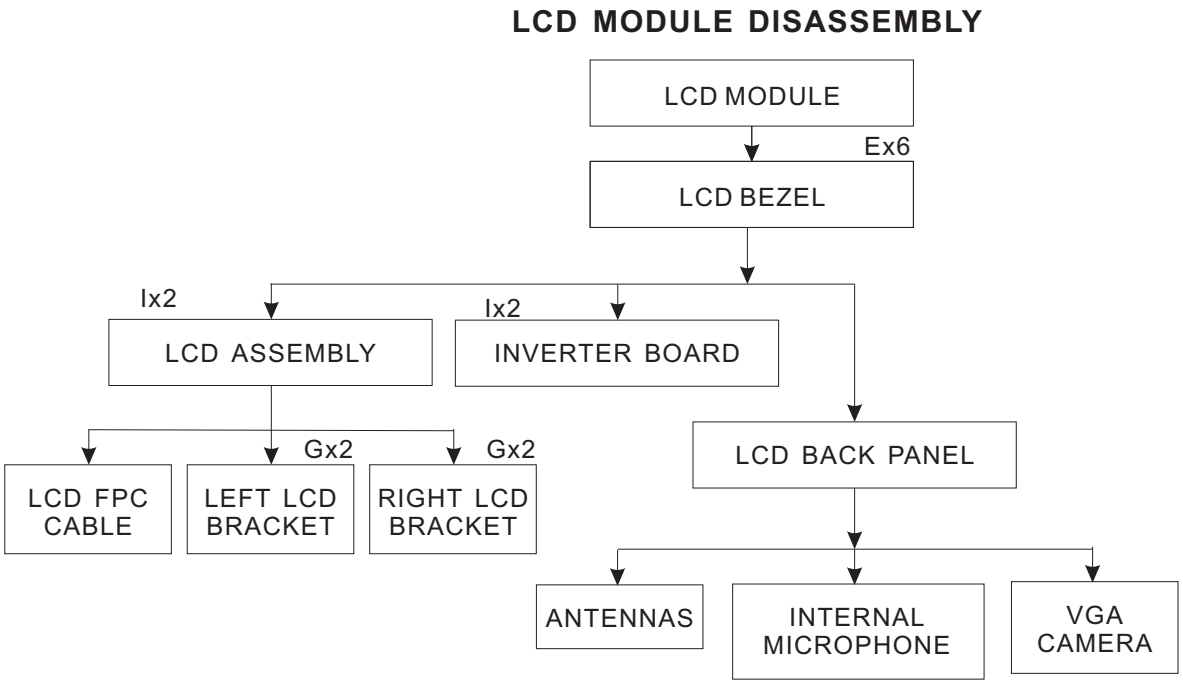
16. Carefully pry loose the Bluetooth module from the main board.



WARNING: The Bluetooth board is glued to the main board, only remove the Bluetooth board if it is defective.

LCD Module Disassembly Process

LCD Module Disassembly Flowchart

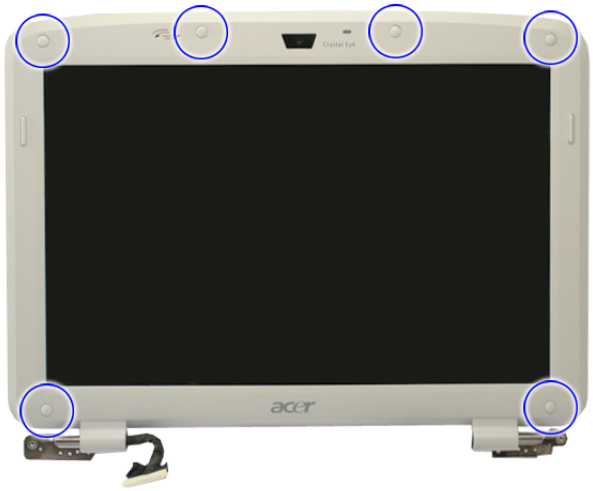


Screw List

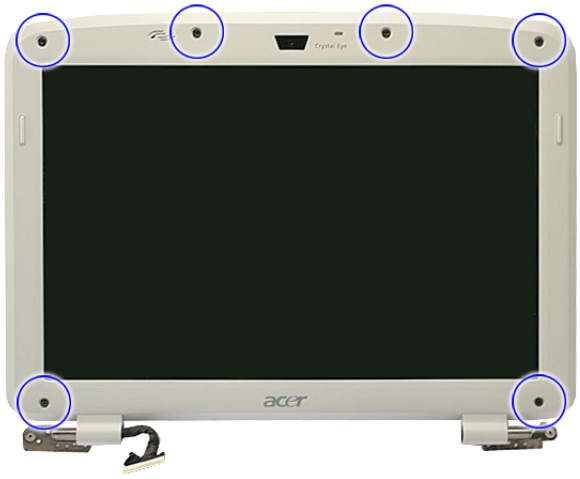
Item	Screw	Color	Part No.
E	M2.5 x L5	Black	86.00F87.735
G	M2 x L3	Silver	86.9A552.3R0
I	M2.5 x L4	Silver	86.00E41.134

Removing the LCD Bezel

1. See “Removing the Battery Pack” on page 56.
2. See “Removing the SD dummy card” on page 56.
3. See “Removing the ExpressCard dummy card” on page 57.
4. See “Removing the Lower Cover” on page 57.
5. See “Removing the WLAN Board Modules” on page 60.
6. See “Removing the Keyboard” on page 69.
7. See “Removing the LCD Module” on page 70.
8. Remove the four upper and the two lower bezel screw caps.



9. Remove the six screws (E) on the LCD module in the order as shown.



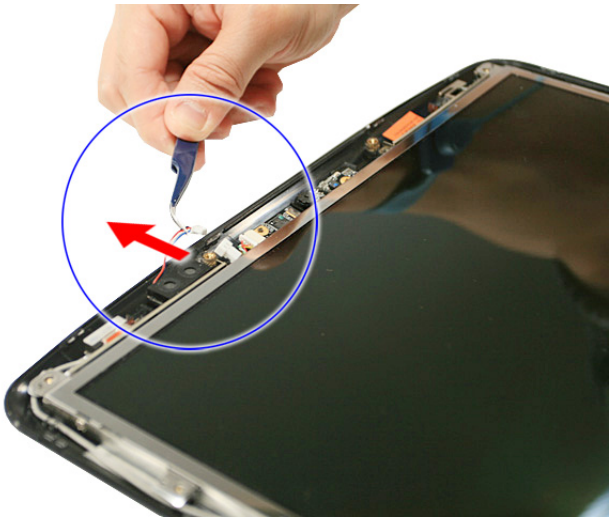
Step	Size (Quantity)	Color	Torque
1~6	M2.5 x L5 (6)	Black	3.0 kgf-cm

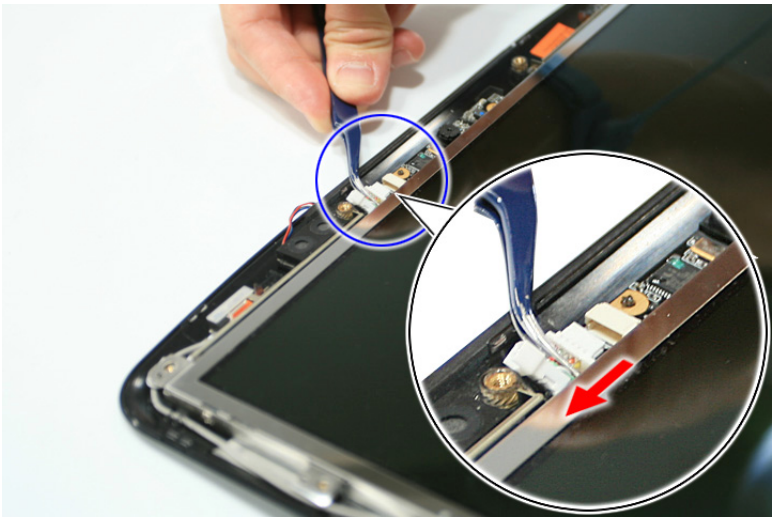
10. Carefully pry open the LCD bezel and remove the bezel from the LCD module.

Removing the LCD module with the Brackets

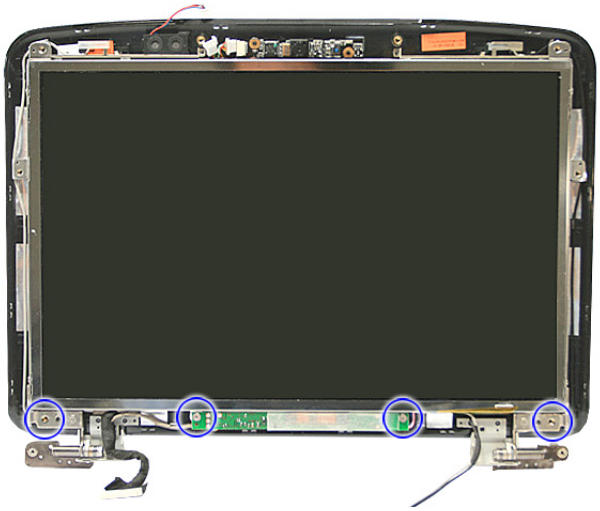
1. See “Removing the Battery Pack” on page 56.
2. See “Removing the SD dummy card” on page 56.

3. See “Removing the ExpressCard dummy card” on page 57.
4. See “Removing the Lower Cover” on page 57.
5. See “Removing the WLAN Board Modules” on page 60.
6. See “Removing the Keyboard” on page 69.
7. See “Removing the LCD Module” on page 70.
8. See “Removing the LCD Bezel” on page 87.
9. Disconnect the cables from the microphone board and camera board.





10. Remove the four screws (I) securing the LCD module and the Inverter panel.



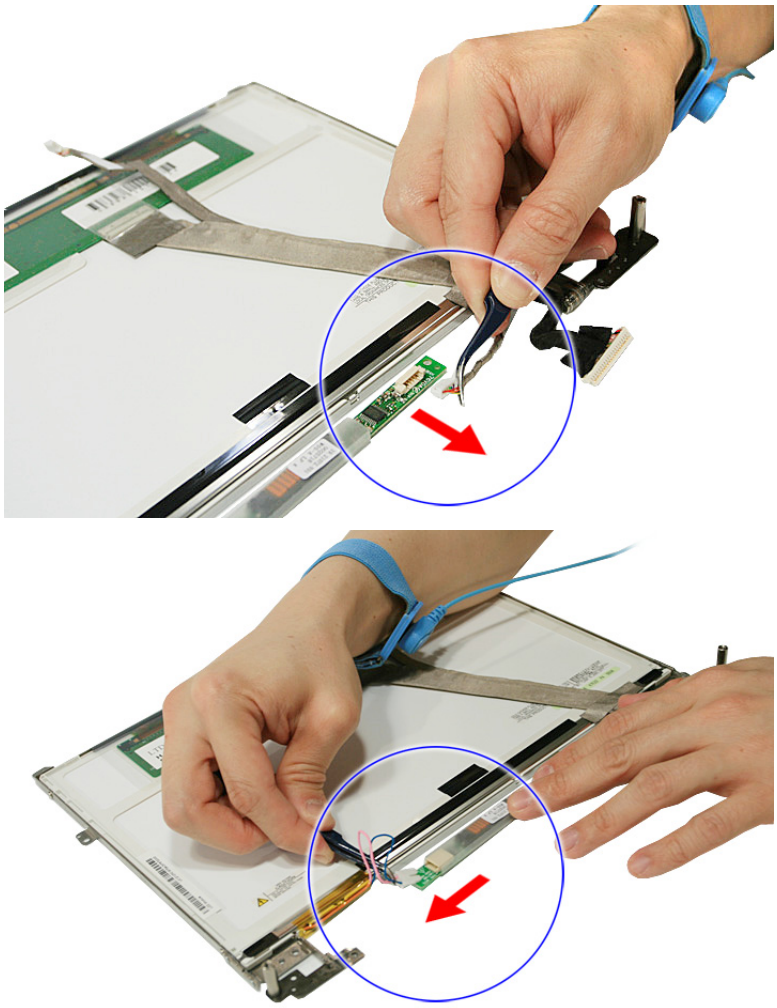
Step	Size (Quantity)	Color	Torque
1~4	M2.5 x L4 (4)	Silver	3.0 kgf-cm

11. Detach the LCD with the brackets from the back cover.

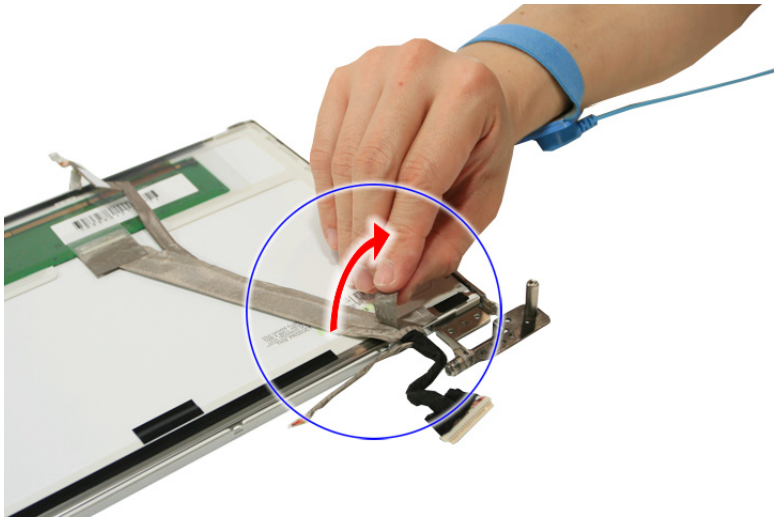
Removing the Inverter Board and FPC Cable

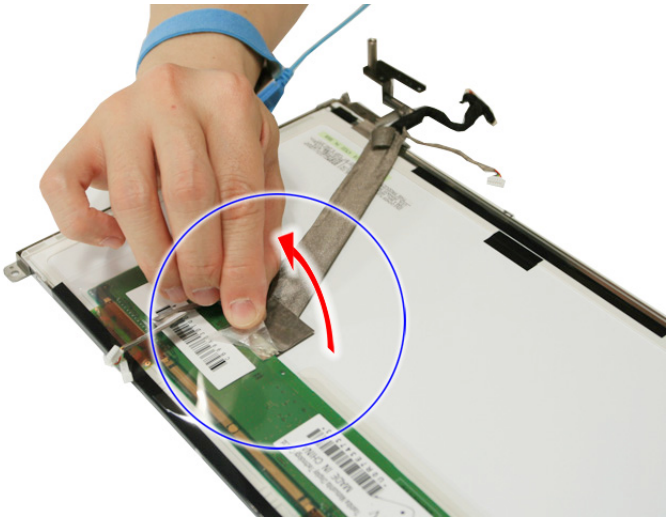
1. See “Removing the Battery Pack” on page 56.
2. See “Removing the SD dummy card” on page 56.
3. See “Removing the ExpressCard dummy card” on page 57.
4. See “Removing the Lower Cover” on page 57.
5. See “Removing the WLAN Board Modules” on page 60.
6. See “Removing the Keyboard” on page 69.
7. See “Removing the LCD Module” on page 70.
8. See “Removing the LCD Bezel” on page 87.
9. See “Removing the LCD module with the Brackets” on page 88.

10. Disconnect the inverter board cable from its connector, then disconnect the 2P cable on the inverter board to remove it.

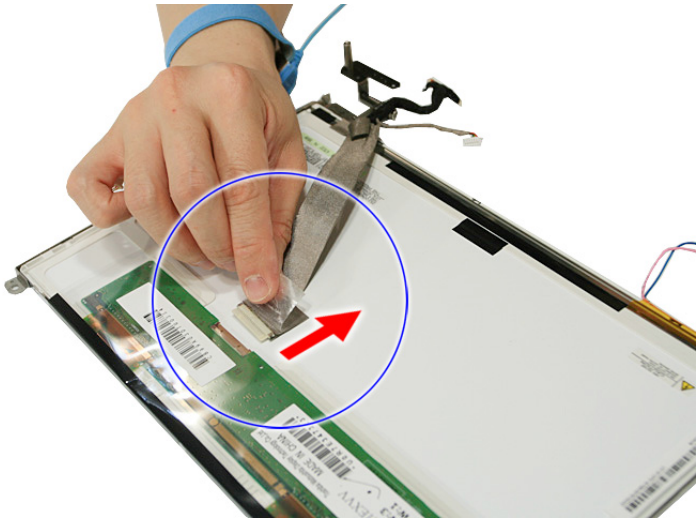


11. Detach the acetic tapes holding the FPC cable from the LCD panel and detach the acetic tape securing the FPC connector.





12. Disconnect the FPC cable from the LCD panel.



Removing the LCD Brackets

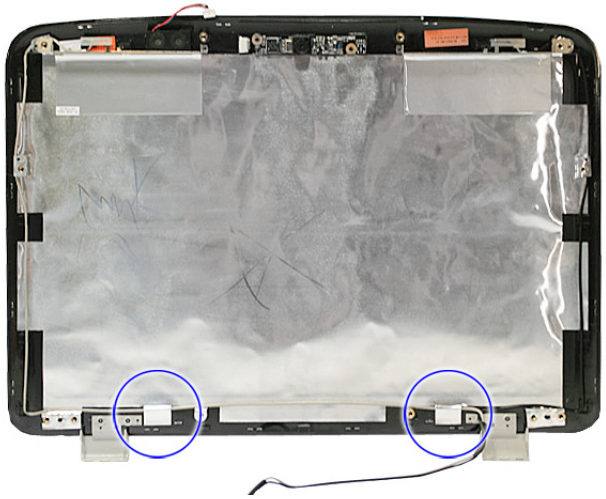
1. See “Removing the Battery Pack” on page 56.
2. See “Removing the SD dummy card” on page 56.
3. See “Removing the ExpressCard dummy card” on page 57.
4. See “Removing the Lower Cover” on page 57.
5. See “Removing the WLAN Board Modules” on page 60.
6. See “Removing the Keyboard” on page 69.
7. See “Removing the LCD Module” on page 70.
8. See “Removing the LCD Bezel” on page 87.
9. See “Removing the LCD module with the Brackets” on page 88.
10. See “Removing the Inverter Board and FPC Cable” on page 90.

11. Remove the four screws (G) securing the left and right LCD brackets to remove the brackets.

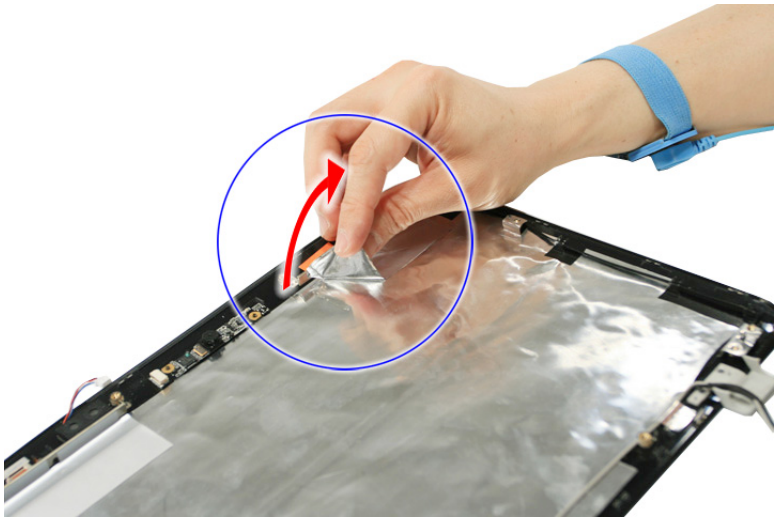
Step	Size (Quantity)	Color	Torque
1~4	M2 x L3 (4)	Silver	1.6 kgf-cm

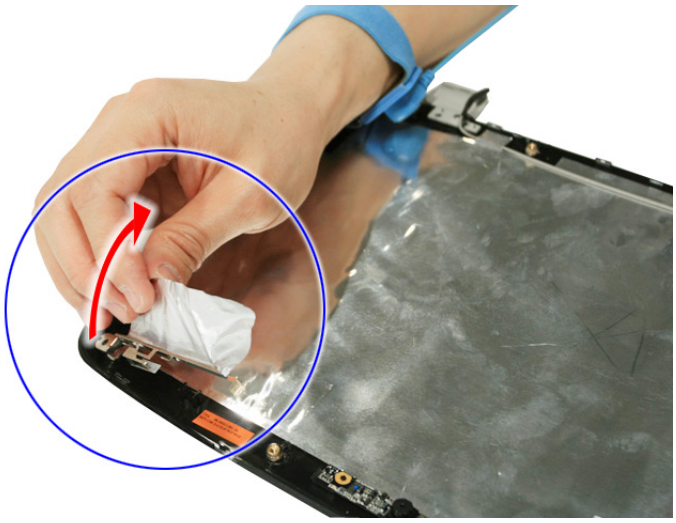
Removing the Antennas

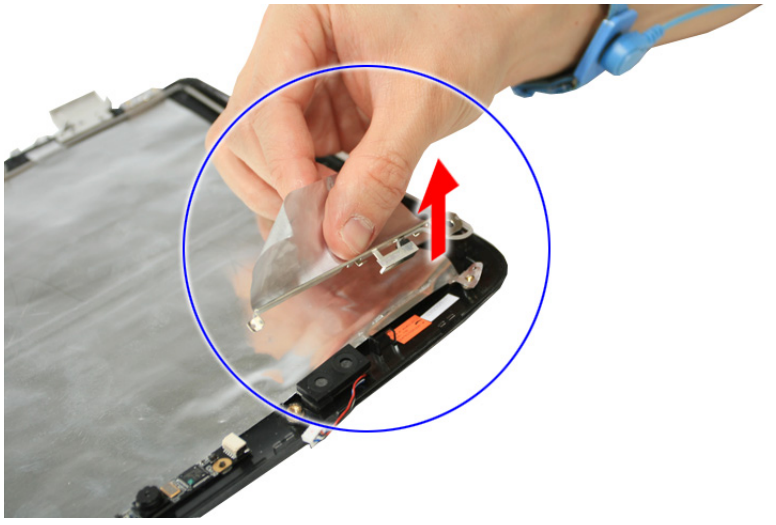
1. See “Removing the Battery Pack” on page 56.
2. See “Removing the SD dummy card” on page 56.
3. See “Removing the ExpressCard dummy card” on page 57.
4. See “Removing the Lower Cover” on page 57.
5. See “Removing the WLAN Board Modules” on page 60.
6. See “Removing the Keyboard” on page 69.
7. See “Removing the LCD Module” on page 70.
8. See “Removing the LCD Bezel” on page 87.
9. See “Removing the LCD module with the Brackets” on page 88.
10. Release the antenna cables from the aluminium tapes.
11. Remove the tapes holding the antenna cables in place and release the cables from the latches..



12. Remove the tapes together with the antenna cables from the back cover.



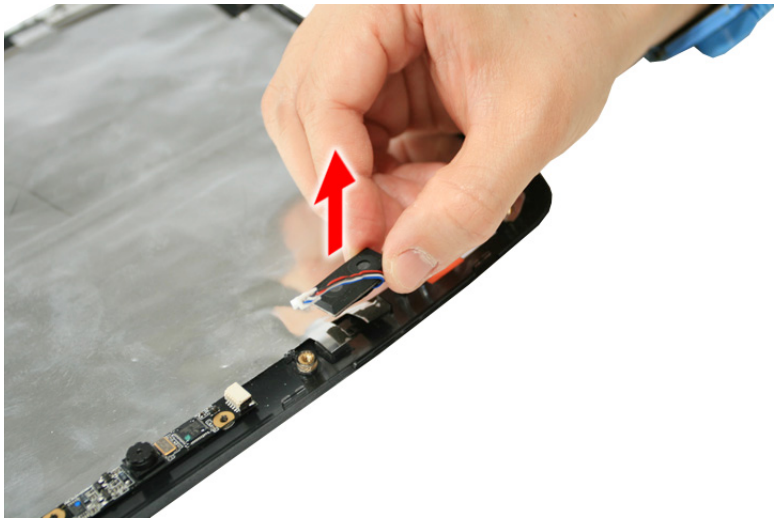




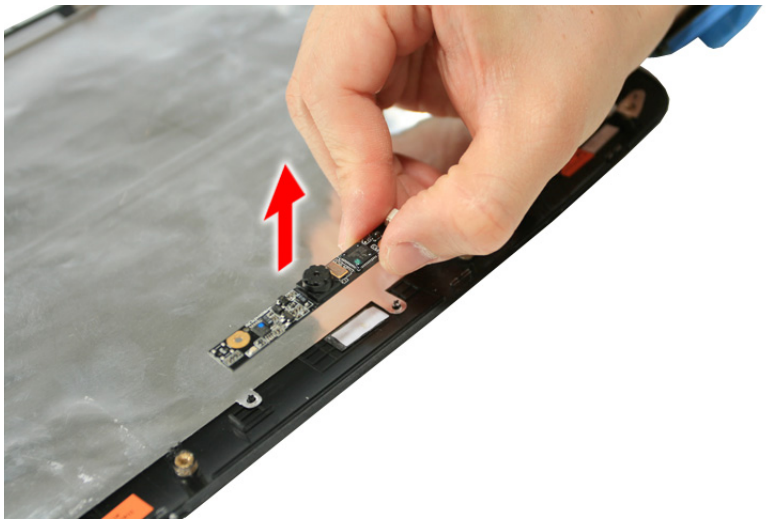
Removing the Internal Microphone and Web Camera

1. See “Removing the Battery Pack” on page 56.
2. See “Removing the SD dummy card” on page 56.

3. See “Removing the ExpressCard dummy card” on page 57.
4. See “Removing the Lower Cover” on page 57.
5. See “Removing the WLAN Board Modules” on page 60.
6. See “Removing the Keyboard” on page 69.
7. See “Removing the LCD Module” on page 70.
8. See “Removing the LCD Bezel” on page 87.
9. See “Removing the LCD module with the Brackets” on page 88.
10. See “Removing the Antennas” on page 93.
11. Remove the internal microphone from the back cover.



12. Remove the Web camera from the back cover.



Chapter 4

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 99.
POST does not complete. No beep or error codes are indicated.	“Power-On Self-Test (POST) Error Message” on page 102 “Undetermined Problems” on page 116
POST detects an error and displayed messages on screen.	“Error Message List” on page 103
Other symptoms (i.e. LCD display problems or others).	“Power-On Self-Test (POST) Error Message” on page 102
Symptoms cannot be re-created (intermittent problems).	Use the customer-reported symptoms and go to “Power-On Self-Test (POST) Error Message” on page 102 “Intermittent Problems” on page 115 “Undetermined Problems” on page 116

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:

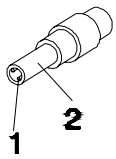
1. Remove the battery pack.
2. Connect the power adapter and check that power is supplied.
3. Disconnect the power adapter and install the charged battery pack; then check that power is supplied by the battery pack.

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

- ❑ “Check the Power Adapter” on page 100
- ❑ “Check the Battery Pack” on page 101

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 116.
   - ❑ 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 101.

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).
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.

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 116.

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: 1. CPU BIOS Update Code Mismatch 2. IDE Primary Channel Master Drive Error (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. Incorrect password is specified.
<No error code>	Battery critical LOW In this situation BIOS will issue 4 short beeps then shut down system, no message will show.
<No error code>	Thermal critical High 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. “Load Default Settings” in BIOS Setup Utility. Hard disk drive System board
Stuck Key	see “Keyboard or Auxiliary Input Device Check” on page 98.
Keyboard error	see “Keyboard or Auxiliary Input Device Check” on page 98.
Keyboard Controller Failed	see “Keyboard or Auxiliary Input Device Check” on page 98.
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 System board
System RAM Failed at offset: nnnn	DIMM System board
Extended RAM Failed at offset: nnnn	DIMM 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 Run BIOS Setup Utility to reconfigure system time, then reboot system.

Error Message List

Error Messages	FRU/Action in Sequence
System timer error	RTC battery Run BIOS Setup Utility to reconfigure system time, then reboot system. System board
Real time clock error	RTC battery Run BIOS Setup Utility to reconfigure system time, then reboot system. System board
Previous boot incomplete - Default configuration used	Run “Load Default Settings” in BIOS Setup Utility. RTC battery System board
Memory size found by POST differed from CMOS	Run “Load Default Settings” in BIOS Setup Utility. DIMM System board
Diskette drive A error	Check the drive is defined with the proper diskette type in BIOS Setup Utility See “External Diskette Drive Check” on page 98.
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 System board
Software NMI Failed	DIMM System board
Fail-Safe Timer NMI Failed	DIMM System board
Device Address Conflict	Run “Load Default Settings” in BIOS Setup Utility. RTC battery System board
Allocation Error for device	Run “Load Default Settings” in BIOS Setup Utility. RTC battery System board
Failing Bits: nnnn	DIMM BIOS ROM System board
Fixed Disk n	None
Invalid System Configuration Data	BIOS ROM System board
I/O device IRQ conflict	Run “Load Default Settings” in BIOS Setup Utility. RTC battery System board
Operating system not found	Enter Setup and see if fixed disk and drive A: are properly identified. Diskette drive Hard disk drive 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). See “Power System Check” on page 99.. Ensure every connector is connected tightly and correctly. Reconnect the DIMM. LED board. System board.
No beep, power-on indicator turns on and LCD is blank.	Power source (battery pack and power adapter). See “Power System Check” on page 99.. Reconnect the LCD connector Hard disk drive LCD inverter ID LCD cable LCD Inverter LCD 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. LCD inverter ID LCD cable LCD inverter LCD 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. System board
No beep during POST but system runs correctly.	Speaker 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
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

Code	Beeps	POST Routine Description
3Ch		Advanced configuration of chipset registers
3Dh		Load alternate registers with CMOS values
42h		Initialize interrupt vectors
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

Code	Beeps	POST Routine Description
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
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)

Code	Beeps	POST Routine Description
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

Code	Beeps	
E0h		Initialize the chipset
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
F4h	1	Output one beep before boot

Code	Beeps	
F5h		Boot to Mini DOS
F6h		Clear Huge Segment
F7h		Boot to Full DOS

Index of Symptom-to-FRU Error Message

LCD-Related Symptoms

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

Indicator-Related Symptoms

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

Power-Related Symptoms

Symptom / Error	Action in Sequence
Power shuts down during operation	Power source (battery pack and power adapter). See “Power System Check” on page 99. Battery pack Power adapter Hard drive & battery connection board System board
The system doesn’t power-on.	Power source (battery pack and power adapter). See “Power System Check” on page 99. Battery pack Power adapter Hard drive & battery connection board System board

Power-Related Symptoms

Symptom / Error	Action in Sequence
The system doesn't power-off.	Power source (battery pack and power adapter). See "Power System Check" on page 99. Hold and press the power switch for more than 4 seconds. System board
Battery can't be charged	See "Check the Battery Pack" on page 101. Battery pack System board

PCMCIA-Related Symptoms

Symptom / Error	Action in Sequence
System cannot detect the PC Card (PCMCIA)	PCMCIA slot assembly 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. DIMM System board

Speaker-Related Symptoms

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

Power Management-Related Symptoms

Symptom / Error	Action in Sequence
The system will not enter hibernation	See "Save to Disk (S4)" on page 37. Keyboard (if control is from the keyboard) Hard disk drive System board
The system doesn't enter hibernation mode and four short beeps every minute.	Press Fn+**0**and see if the computer enters hibernation mode. Touchpad Keyboard Hard disk connection board Hard disk drive System board
The system doesn't enter standby mode after closing the LCD	See "Save to Disk (S4)" on page 37. LCD cover switch System board

Power Management-Related Symptoms

Symptom / Error	Action in Sequence
The system doesn't resume from hibernation mode.	See “Save to Disk (S4)” on page 37. Hard disk connection board Hard disk drive System board
The system doesn't resume from standby mode after opening the LCD.	See “Save to Disk (S4)” on page 37. LCD cover switch System board
Battery fuel gauge in Windows doesn’t go higher than 90%.	Remove battery pack and let it cool for 2 hours. Refresh battery (continue use battery until power off, then charge battery). Battery pack System board
System hangs intermittently.	Reconnect hard disk/CD-ROM drives. Hard disk connection board 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. Reconnect hard disk/CD-ROM/diskette drives.
External display does not work correctly.	Press Fn+F5, LCD/CRT/Both display switching 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. Onboard Devices Configuration Run printer self-test. Printer driver Printer cable Printer System Board
Serial or parallel port device problems.	Ensure the “Serial Port” in the Devices Configuration” of BIOS Setup Utility is set to Enabled. Device driver Device cable Device System board

Keyboard/Touchpad-Related Symptoms

Symptom / Error	Action in Sequence
Keyboard (one or more keys) does not work.	Reconnect the keyboard cable. Keyboard System board

Keyboard/Touchpad-Related Symptoms

Symptom / Error	Action in Sequence
Touchpad does not work.	Reconnect touchpad cable. Touchpad board System board

Modem-Related Symptoms

Symptom / Error	Action in Sequence
Internal modem does not work correctly.	Modem phone port modem combo board System board

NOTE: If you cannot find a symptom or an error in this list and the problem remains, see “Undetermined Problems” on page 116.

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).

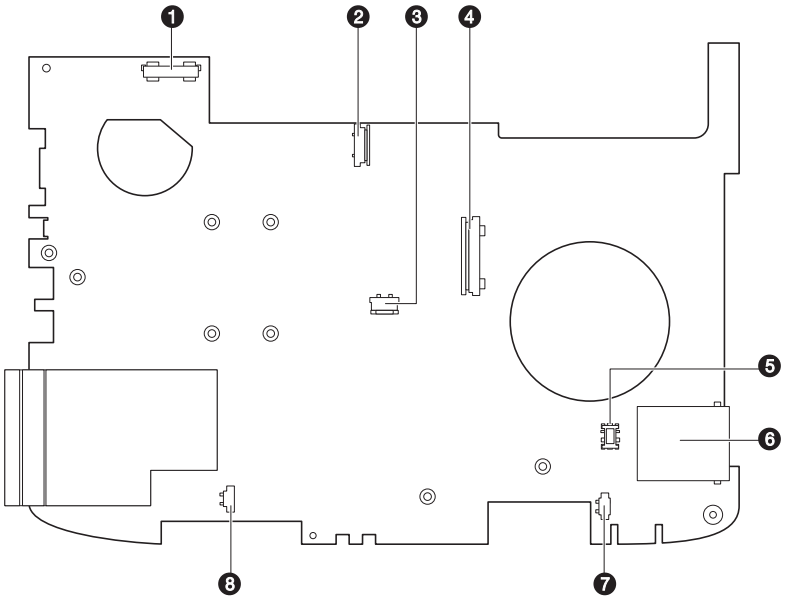
NOTE: Verify that all attached devices are supported by the computer.

NOTE: Verify that the power supply being used at the time of the failure is operating correctly. (See “Power System Check” on page 99.):

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

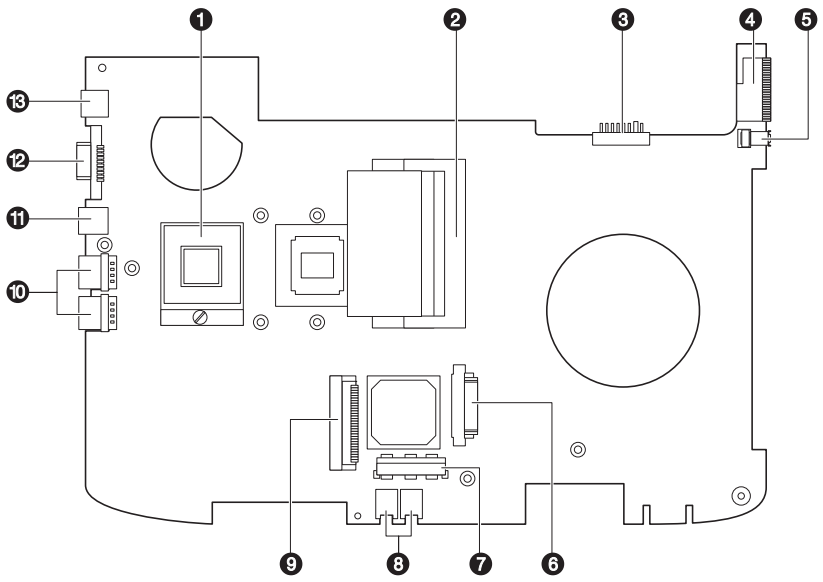
Jumper and Connector Locations

Top View



No.	Description	No.	Description
1	LCD Cable Connector	5	MDC Connector
2	Button Board Connector	6	Cardreader Connector
3	Touchpad Connector	7	Bluetooth Connector
4	Keyboard Connector	8	Speaker Connector

Bottom View



No.	Description	No.	Description
1	CPU Connector	8	AUDIO Connector
2	SO-DIMM Connector	9	HDD Connector
3	Battery Connector	10	USB Connector
4	RJ45/RJ-11 Connector	11	S-VIDEO Connector
5	USB Connector	12	VGA Connector
6	ODD Connector	13	DC- IN Connector
7	Mini PCI-E Connector		

Clearing Password Check and BIOS Recovery

This section provide you the standard operating procedures of clearing password and BIOS recovery for Aspire 2920/2920Z/2420. Aspire 2920/2920Z/2420 provide one Hardware Open Gap on main board for clearing password check, and one Hotkey for enabling BIOS Recovery.

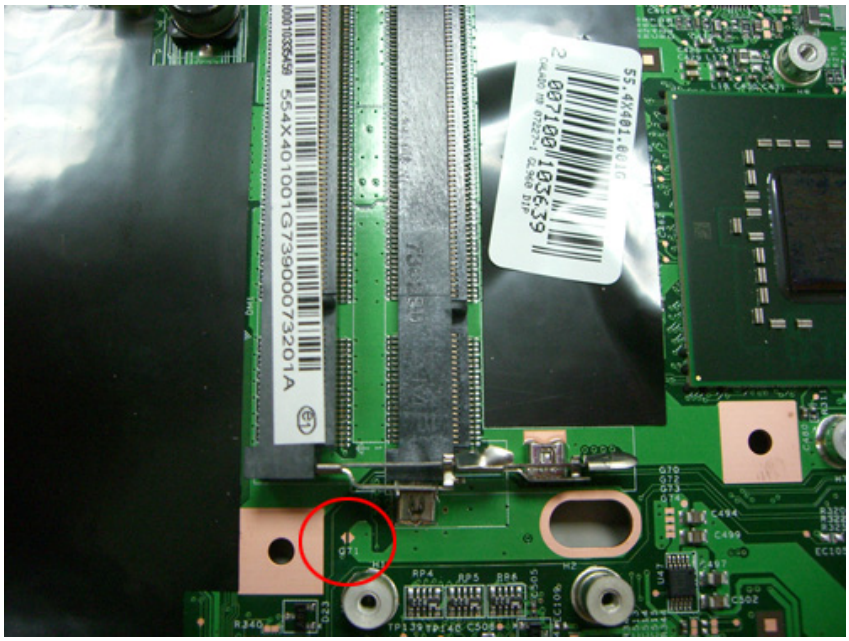
Clearing Password Check

Hardware Open Gap Description

Hardware	Default Setting	Operation Description
Gap	Open (Normal)	Short (Clearing Password Check)

HW Gap position on M/B space:

Gap name in Aspire 2920/2920Z/2420 is G71



Steps for Clearing BIOS Password Check

If users set BIOS Password (Supervisor Password and/or User Password) for a security reason, BIOS will ask the password during systems POST or when systems enter to BIOS Setup menu. However, once it is necessary to bypass the password check, users need to short the HW Gap to clear the password by the following steps:

- Power Off a system, and remove HDD, AC and Battery from the machine.
- Open the back cover of the machine, and find out the HW Gap on M/B as picture.
- Use an electric conductivity tool to short the two points of the HW Gap.
- Plug in AC, keep the short condition on the HW Gap, and press Power Button to power on the system till BIOS POST finish. Then remove the tool from the HW Gap.
- Restart system. Press F2 key to enter BIOS Setup menu.
- If there is no Password request, BIOS Password is cleared. Otherwise, please follow the steps and try again.

NOTE: The steps are only for clearing BIOS Password (Supervisor Password and User Password).

BIOS Recovery by Crisis Disk

BIOS Recovery Boot Block:

BIOS Recovery Boot Block is a special block of BIOS. It is used to boot up the system with minimum BIOS initialization. Users can enable this feature to restore the BIOS firmware to a successful one once the previous BIOS flashing process failed.

BIOS Recovery Hotkey:

The system provides a function hotkey: **Fn+Esc**, for enable BIOS Recovery process when system is powered on during BIOS POST. To use this function, it is strongly recommended to have the AC adapter and Battery present. If this function is enabled, the system will force the BIOS to enter a special BIOS block, called Boot Block.

Steps for BIOS Recovery by Crisis Disk:

Before doing this, one Crisis Disk should be prepared ready in hand. The Crisis Disk could be made by executing the Crisis Disk program in another system with Windows XP OS.

Follow the steps below:

1. Power Off system.
2. Insert the Crisis Disk to a USB floppy drive which is attached to the BIOS flash failed machine.
3. In the power-off state, press **Fn+Esc** and hold them and then press Power Button. The system should be powered on with Crisis BIOS Recovery process.
4. BIOS Boot Block starts to restore the BIOS code from the Crisis floppy disk to BIOS ROM on the failed machine.
5. If the Crisis flashing process is finished, the system will restart.

If the Crisis Recovery process is finished, the system should be powered on with successful and workable BIOS. Then a person can update the latest version BIOS for this machine by regular BIOS flashing process.

Chapter 6

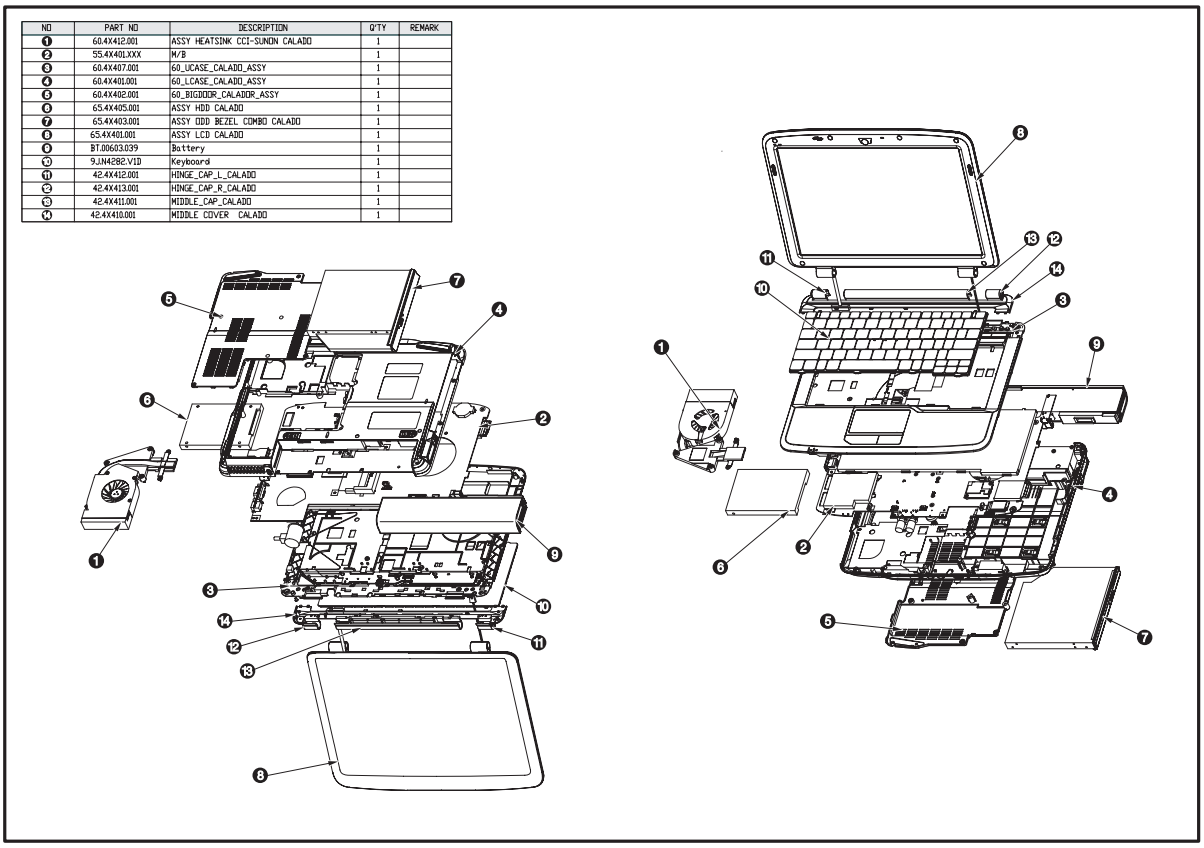
FRU (Field Replaceable Unit) List

This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of Aspire 2920/2920Z/2420. 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 2920/2920Z/2420 Exploded Diagram



NO	PART NO	DESCRIPTION	Q'TY	REMARK
1	60.4X412.001	ASSY HEATSINK CCI-SUNON CALADO	1	
2	55.4X401.XXX	M/B	1	
3	60.4X407.001	60_UCASE_CALADO_ASSY	1	
4	60.4X401.001	60_LCASE_CALADO_ASSY	1	
5	60.4X402.001	60_BIGDOOR_CALADOR_ASSY	1	
6	65.4X405.001	ASSY HDD CALADO	1	
7	65.4X403.001	ASSY ODD BEZEL COMBO CALADO	1	
8	65.4X401.001	ASSY LCD CALADO	1	
9	BT.00603.039	Battery	1	
10	9JN42B2.V1D	Keyboard	1	
11	42.4X412.001	HINGE_CAP_L_CALADO	1	
12	42.4X413.001	HINGE_CAP_R_CALADO	1	
13	42.4X411.001	MIDDLE_CAP_CALADO	1	
14	42.4X410.001	MIDDLE COVER CALADO	1	

Aspire 2920/2920Z/2420 FRU List

Category	No.	Part Name and Description	Acer Part No.
Adapter			
		ADAPTER 65W DELTA SADP-65KB DFA LF LEVEL-4	AP.06501.013
		ADAPTER 65W LITEON PA-1650-02AC LF LEVEL-4	AP.06503.016
Battery-			
		BATTERY PACK LI+ 6CELL 2.0MAH SANYO	BT.00603.039
		BATTERY PACK LI+ 6CELL 2.0MAH SONY	BT.00604.017
		BATTERY PACK LI 6CELL 2.0MAH PANASONIC	BT.00605.006
		BATTERY PACK LI 6CELL 2.0MAH SIMPLO	BT.00607.003
		BATTERY PACK LI+ 6CELL 2.4MAH SANYO	BT.00603.040
		BATTERY PACK LI+ 6CELL 2.4MAH SONY	BT.00604.005
		BATTERY PACK LI+ 6CELL 2.4MAH PANASONIC	BT.00605.007
		BATTERY PACK LI+ 6CELL 2.4MAH SIMPLO	BT.00607.009

Category	No.	Part Name and Description	Acer Part No.
		RTC BATTERY COIN BATTERY CR2032 MITSUBISHI	23.TCZV1.004
Boards			
		WIRELESS LAN BOARD 802.11ABG INTEL 3945 MW1	KI.GLN01.001
		WIRELESS LAN BOARD 802.11ABG INTEL 3945 MW2	KI.GLN01.002
		WIRELESS LAN BOARD 802.11ABG INTEL 3945 RW	KI.GLN01.003
		WIRELESS LAN BOARD 802.11ABG INTEL 3945BG	KI.GLN01.005
		WIRELESS LAN BOARD 802.11ABG KEDRON MOW1	KI.KDN01.001
		WIRELESS LAN BOARD 802.11ABG KEDRON MOW2	KI.KDN01.002
		WIRELESS LAN BOARD 802.11ABG KEDRON ROW	KI.KDN01.003
		BLUETOOTH BOARD FOXCONN BCM2045 V2	54.ANK01.001
		TOUCHPAD SYNAPTICS TM00540-002	56.ANK01.001
		CALADO POWER BD 07563-1 DIP	55.ANK01.001
		INVERTER BOARD 12.1” YEC YNV-W05	19.ANK01.001
		MODEM BOARD LITEON DELPHI-AM3 3.3V MDC003 A8B B85244300G	FX.22500.011
Cables			
		TOUCHPAD CABLE TENNRICH	50.ANK01.002
		POWER BOARD CABLE TENNRICH	50.ANK01.001
		BLUETOOTH CABLE HUALI/HIGH-TEK	50.ANK01.004
		MODEM CABLE HUALI/HIGH-TEK	50.ANK01.003
		LCD/CAMERA CABLE C.A. LVDS HUALI/HIGH-TEK	50.ANK01.005

Category	No.	Part Name and Description	Acer Part No.
		POWER CORD 10A 125V US	27.T30V1.001
		POWER CORD 10A 125V 3PIN US BK	27.01518.641
		POWER CORD 2.5A 125V 8121-USA/W CNS	27.01518.781
		POWER CORD 220V 3PIN EUR	27.T30V1.004
		POWER CABLE 16A 250V 3PIN EUR UK	27.01518.731
		POWER CORD 3A 250V 3PIN UK	27.01518.541
		POWER CORD 5A 250V 3PIN UK BK	27.03118.001
		POWER CORD 10A 3PIN BK DENMARK	27.01518.561
		POWER CORD 10A 250V 3PIN DENMARK BK	27.01518.671
		POWER CORD 10A 250V 3PIN BK SOUTH AFRICA	27.01518.571
		POWER CORD 16A 250V SOUTH AFRICA BK	27.01518.681
		POWER CORD 10A 250V SWISS	27.01518.581
		POWER CORD 10A 250V 3PIN SWISS BK	27.01518.691
		POWER CORD 10A 250V 3PIN CHINA	27.01518.591
		POWER CORD 10A 250V 3PIN CHINA BK	27.01518.701
		POWER CORD 10A 250V 3PIN ITALY	27.01518.611
		POWER CORD 10A 250V 3PIN ITALY BK	27.01518.711
		POWER CORD 2.5A 250V SOUTH AFRICA BK (INDIA)	27.01518.631
		POWER CORD 10A 250V SOUTH AFRICA BK (INDIA)	27.01518.721
		POWER CORD 2.5A 250V AUSTRALIA	27.01518.621
		POWER CORD ACA/ACNZ	27.03218.021
		POWER CORD 7A 125V 2PIN JAPEN	27.01518.551
		POWER CORD 7A 125V 2PIN JAPAN	27.03518.161
		POWER CORD 7A 250V 2PIN KOREA	27.01518.531
		POWER CORD 250V 10A 3PIN ISRAEL	27.01518.761
Case/Cover/Bracket/Assembly			
		CARD READER DUMMY CARD	42.TKJ01.003
		EXPRESS DUMMY CARD CALADO	42.ANK01.004
		MIDDLE COVER ASSEMBLY	42.TK901.001
		NEW CARD DUMMY CARD	42.TK901.005
		LOWER CASE W/SPEAKER ASSY CALADO	60.ANK01.001
		MIDDLE CAP CALADO	43.ANK01.003
		MIDDLE COVER CALADO	42.ANK01.001

Category	No.	Part Name and Description	Acer Part No.
		UNITLOAD COVER 60 BIGDOOR ASSY	42.ANK01.002
		UPPER CASE 60 UCASE CALADO ASSY	60.ANK01.002
		OPTICAL BRACKET	33.ANK01.001
		COMBO BEZEL	42.ANK01.005
		SUPER MULTI BEZEL	42.ANK01.006
		HDD BRACKET ASSEMBLY	33.ANK01.002
		LCD BRACKET AND HINGE RIGHT	33.ANK01.003
		LCD BRACKET AND HINGE LEFT	33.ANK01.004
		LCD BEZEL 12.1' FOR CCD	60.ANK01.004
		LCD COVER 12.1" W/ANTENNA AND MICROPHONE	60.ANK01.005
		HINGE COVER RIGHT	42.ANK01.007
		HINGE COVER LEFT	42.ANK01.008
		SPEAKER MODULE CALADO	23.ANK01.001
Combo Module			
		COMBO MODULE 24X	KO.02401.005
		COMBO MODULE 24X SONY CRX880A LF W/O BEZEL	KO.0240E.005
CPU/Processor			
		CPU INTEL MEROM CORE2DUAL T7800 2.6G 4M 800L	KC.78001.DTP
		CPU INTEL MEROM CORE2DUAL T7700 2.4G 4M 800 G-0	KC.77G01.DTP
		CPU INTEL MEROM CORE2DUAL T7700 2.4G 4M 800L	KC.77001.DTP
		CPU INTEL MEROM CORE2DUAL T7500 2.2G 4M 800 G-0	KC.75G01.DTP
		CPU INTEL MEROM CORE2DUAL T7500 2.2G 4M 800	KC.75001.DTP

Category	No.	Part Name and Description	Acer Part No.
		CPU INTEL MEROM CORE2DUAL T7300 2.0G 4M 800L	KC.73001.DTP
		CPU INTEL MEROM CORE2DUAL T7250 2.0G 2M 800L	KC.72501.DTP
		CPU INTEL MEROM CORE2DUAL T5550 1.83G 2M FSB667	KC.55501.DTP
		CPU INTEL MEROM CORE2DUAL T5450 1.66G 2M FSB667	KC.54501.DTP
		CPU INTEL MEROM CORE2DUAL T5250 1.5G 2M FSB667	KC.52501.DTP
		CPU INTEL MEROM T2330 1.6G	KC.23301.DTP
		CPU INTEL MEROM T2310 1.46G	KC.23101.DTP
DVD-RW Drive			
		ASSEMBLY SUPLER MULTI MODULE 8X	6M.ANK01.002
DVD Module			
		DVD-RW DRIVE 8X S-MUTI SONY AD-7560A W/O BEZEL	KU.0080E.005
		DVD-RW DRIVE 8X S-MULTI HLDS GSA-T20N LF W/O BEZEL	KU.0080D.027
Heatsink			
		CPU HEATSINK W/FAN	60.ANK01.003
HDD/Hard Disk Drive			
		HDD 80GB 5400RPM SATA II HGST HTS542580K9SA00 LF F/W:C31P	KH.08007.025
		HDD 80GB 5400RPM SATA WD WD800BEVS-22RST0 ML80 LF F/W:04.01G04	KH.08008.033
		HDD 120GB 5400RPM SATA TOSHIBA MK1237GSX GEMINI BS LF F/W:DL150J	KH.12004.006
		HDD 120GB 5400RPM SATA II HGST HTS542512K9SA00 BRONCO-B LF F/W:C31P	KH.12007.014
		HDD 120GB 5400RPM SATA WD WD1200BEVS-22UST0 ML125 LF F/W:01.01A01	KH.12008.019
		HDD 160GB 5400RPM SATA II HGST HTS542516K9SA00 BRONCO-B LF F/W:C31P	KH.16007.016
		HDD 160GB 5400RPM SATA TOSHIBA MK1637GSX GEMINI BS LF F/W: DL050J	KH.16004.001
		HDD 160GB 5400RPM SATA WD WD1600BEVS-22RST0 LF F/W:04.01G04	KH.16008.019

Category	No.	Part Name and Description	Acer Part No.
		HDD 250GB 5400RPM SATA WD WD2500BEVS-22UST0 ML125 F/W:01.01A01	KH.25008.018
		HDD 250GB 5400RPM SATA II HGST HTS542525K9SA00 LF F/W:C31P	KH.25007.011
Keyboard			
		KEYBOARD 12KB-FV2 84KS WHITE US INTERNATIONAL DARFON	KB.INT00.218
		KEYBOARD 12KB-FV2 84KS WHITE US INTERNATIONAL HEBREW DARFON	KB.INT00.219
		KEYBOARD 12KB-FV2 85KS WHITE UK DARFON	KB.INT00.220
		KEYBOARD 12KB-FV2 85KS WHITE TURKISH DARFON	KB.INT00.221
		KEYBOARD 12KB-FV2 84KS WHITE THAILAND DARFON	KB.INT00.222
		KEYBOARD 12KB-FV2 85KS WHITE SWISS/G DARFON	KB.INT00.223
		KEYBOARD 12KB-FV2 85KS WHITE SWEDISH DARFON	KB.INT00.224
		KEYBOARD 12KB-FV2 85KS WHITE SPANISH DARFON	KB.INT00.225
		KEYBOARD 12KB-FV2 85KS WHITE SLO/CRO DARFON	KB.INT00.226 --> KB.INT00.228
		KEYBOARD 12KB-FV2 85KS WHITE SLOVAK DARFON	KB.INT00.227
		KEYBOARD 12KB-FV2 84KS WHITE RUSSIAN DARFON	KB.INT00.229
		KEYBOARD 12KB-FV2 85KS WHITE PORTUGUESE DARFON	KB.INT00.230
		KEYBOARD 12KB-FV2 85KS WHITE NORWEGIAN DARFON	KB.INT00.232
		KEYBOARD 12KB-FV2 84KS WHITE KOREAN DARFON	KB.INT00.234
		KEYBOARD 12KB-FV2 88KS WHITE JAPANESE DARFON	KB.INT00.235
		KEYBOARD 12KB-FV2 85KS WHITE ITALIAN DARFON	KB.INT00.236
		KEYBOARD 12KB-FV2 85KS WHITE HUNGARIAN DARFON	KB.INT00.239
		KEYBOARD 12KB-FV2 84KS WHITE GREEK DARFON	KB.INT00.240
		KEYBOARD 12KB-FV2 85KS WHITE GERMAN DARFON	KB.INT00.241
		KEYBOARD 12KB-FV2 85KS WHITE FRENCH DARFON	KB.INT00.242
		KEYBOARD 12KB-FV2 85KS WHITE DANISH DARFON	KB.INT00.245
		KEYBOARD 12KB-FV2 85KS WHITE CZECH DARFON	KB.INT00.246
		KEYBOARD 12KB-FV2 84KS WHITE TRADITIONAL CHINESE DARFON	KB.INT00.247

Category	No.	Part Name and Description	Acer Part No.
		KEYBOARD 12KB-FV2 85KS WHITE CANADIAN FRENCH DARFON	KB.INT00.248
		KEYBOARD 12KB-FV2 85KS WHITE BRAZILIAN PORTUGUESE DARFON	KB.INT00.249
		KEYBOARD 12KB-FV2 85KS WHITE BELGIUM DARFON	KB.INT00.250
		KEYBOARD 12KB-FV2 84KS WHITE ARABIC/ENGLISH DARFON	KB.INT00.251
LCD Module			
		LCD MODULE 12.1" WXGAG GLARE W/ANTENNA AND CAMERA	6M.ANK01.003
		LCD 12.1" WXGA AUO GLARE B121EW03-V4 LF 185NIT 25MS	LK.12105.008
		LCD 12.1" WXGA AUO GLARE B121EW03-V7 LF 220NIT 16MS	LK.12105.012
		LCD 12.1" WXGA TOSHIBA GLARE LTD121EXVV-V01 LF 200NIT 30MS	LK.1210F.016
Camera			
		CAMERA CMOS 0.3M BISON BN30V4O717300 UVC	57.TK501.001
		CAMERA CMOS 0.3M SUYIN CN0314-OV03 UVC	57.TK901.001
		CAMERA CMOS 0.3M CHICONY CNF6041 UVC	57.TKC01.001
COMMUNICATION MODULE			
		WIRELESS ANTENNA	25.ANK01.001
Microphone			
		MICROPHONE MODULE CALADO	23.ANK01.002
Main Board			
		MAINBOARD AS2920_UMA GM965 ICH8M W/RTC BATTERY&PCMCIA SLOT&MODEM	MB.ANH01.001
PCMCIA Slot/PC Card Slot			
		PCMCIA SLOT CONN CARD BUS 4P 10057913-	22.AHP01.001
Memory			
		SODIMM 512MB DDRII667 NANYA NT512T64UH8B0FN-3C LF	KN.51203.032
		SODIMM 512MB DDRII667 SAMSUNG M470T6554EZ3-CE6 LF	KN.5120B.023
		SODIMM 512MB DDRII667 HYNIX HYMP564S64CP6-Y5 LF	KN.5120G.019
		SODIMM 1GB DDRII667 SAMSUNG M470T2864DZ3-CE6 LF	KN.1GB0B.014
		SODIMM 1GB DDRII667 HYNIX HYMP112S64CP6-Y5 LF	KN.1GB0G.012
		SODIMM 1GB DDRII667 NANYA NT1GT64U8HB0BN-3C LF (0.09U)	KN.1GB03.014

Category	No.	Part Name and Description	Acer Part No.
		SODIMM 1GB DDRII667 INFINEON HYS64T128021EDL-3S LF	KN.1GB02.036
		SODIMM 2GB DDRII667 SAMSUNG M470T5663CZ3-CE6 LF	KN.2GB0B.002
		SODIMM 2GB DDRII667 HYNIX HYMP125S64CP8-Y5 LF	KN.2GB0G.004
Miscellaneous			
		NAME PLATE AS2920	40.ANK01.001
		RUBBER FOOT BACK-RIGHT	47.ANK01.004
		RUBBER FOOT FRONT-RIGHT	47.ANK01.002
		RUBBER FOOT BACK-LEFT	47.ANK01.003
		RUBBER FOOT FRONT-LEFT	47.ANK01.001
		LCD SCREW RUBBER	47.ANK01.005
Screws			
		SCREW DIMM COVER STEEL NAGANO-1	86.00A02.140
		SCREW M2*L3	86.00D29.620
		SCREW WAFER M2*L12 BZN RP NOTE	86.ANK01.001
		SCREW M2.5*L8 NYLOK CR3+	86.00E34.738
		SCREW M2X4 NYLOK H0.3	86.00F24.724
		SCREW WAFER M2*L10 BZN RP NOTE	86.ANK01.002
		SCREW M3x4	86.9A524.4R0
		SCREW WAFER NYLOK NI 2ML3	86.9A552.3R0
		SCREW M2.5xL5 BLACK ZN+NYLOK	86.00F87.735
		SCREW IMS M2.5X4	86.ANK01.003

Model Definition and Configuration

Aspire 2920/2920Z/2420 Series

Model	RO	Country	Acer Part no	Description	CPU	LCD	DIMM 1	DIMM 2	HDD 1 (GB)	ODD	Wireless LAN	Blueto oth	VOIP Phone
AS5051ANWXMi	AAP	India	LX.AV30C.002	AS5051ANWXMi LINPUSIL1 UMAC 1*512/80/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N80GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051ANWXMi	AAP	Indonesia	LX.AV30C.003	AS5051ANWXMi LINPUSIN1 UMAC 1*512/80/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N80GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051ANWXMi	AAP	Malaysia	LX.AV30C.005	AS5051ANWXMi LINPUSMA2 UMAC 1*512/80/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N80GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051ANWXMi	AAP	Philippines	LX.AV30C.004	AS5051ANWXMi LINPUSPH1 UMAC 1*512/80/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N80GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051ANWXMi	AAP	Singapore	LX.AV30C.001	AS5051ANWXMi LINPUSSG1 UMAC 1*512/80/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N80GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051ANWXMi	AAP	Thailand	LX.AV30C.006	AS5051ANWXMi LINPUSTH2 UMAC 1*512/80/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N80GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051ANWXMi	AAP	Vietnam	LX.AV30C.007	AS5051ANWXMi LINPUSVN1 UMAC 1*512/80/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N80GB5.4K	NSM8X	ABT_ATH5413BG	N	N

Model	RO	Country	Acer Part no	Description	CPU	LCD	DIMM 1	DIMM 2	HDD 1 (GB)	ODD	Wireless LAN	Blueto oth	VOIP Phone
AS5051AWXMi	PA	USA/ Canada - Canadian French	LX.AV30J.001	AS5051AWXMi MCECF UMAC 2*512/120/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051AWXMi	PA	USA/ Canada - Canadian French	LX.AV30J.002	AS5051AWXMi MCEUS UMAC 2*512/120/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051AWXMi	AAP	Australia/ New Zealand	LX.AV305.001	AS5051AWXMi XPHAU1 UMAC 1*512/120/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051AWXMi	PA	USA/ Canada	LX.AV305.008	AS5051AWXMi XPHEN1 UMAC 1*512/120/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051AWXMi	PA	ACLA-Spanish	LX.AV305.010	AS5051AWXMi XPHES1 UMAC 1*512/120/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051AWXMi	PA	USA/ Canada	LX.AV305.009	AS5051AWXMi XPHFR1 UMAC 1*512/120/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051AWXMi	AAP	Indonesia	LX.AV305.007	AS5051AWXMi XPHIN1 UMAC 1*512/120/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051AWXMi	AAP	Malaysia	LX.AV305.003	AS5051AWXMi XPHMA2 UMAC 1*512/120/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051AWXMi	AAP	Philippines	LX.AV305.002	AS5051AWXMi XPHPH1 UMAC 1*512/120/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N

Model	RO	Country	Acer Part no	Description	CPU	LCD	DIMM 1	DIMM 2	HDD 1 (GB)	ODD	Wireless LAN	Blueto oth	VOIP Phone
AS5051AWXMi	AAP	Thailand	LX.AV305.004	AS5051AWXMi XPHTH2 UMAC 1*512/120/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051AWXMi	AAP	Vietnam	LX.AV305.005	AS5051AWXMi XPHVN1 UMAC 1*512/120/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051AWXMi	AAP	Singapore	LX.AV305.006	AS5051AWXMi XPHWSG21W UMAC 1*512/120/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051AWXMi	PA	ACLA-Portuguese	LX.AV305.011	AS5051AWXMi XPHXC1 UMAC 1*512/120/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051AWXMi	TWN	GCTWN	S2.AV305.001	AS5051AWXMi XPHTC1 UMAC 2*512/120/BT/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII6	SO512MBII6	N120GB5.4K	NSM8X	ABT_ATH5413BG	FOX_BRM_2.0	N
AS5052WXMi	TWN	GCTWN	S2.AV305.002	AS5052WXMi XPHTC1 UMAC 2*512/100/BT/6L/5R/CB_bg_0.3C_AN	ATTL50	N14.1 WXGAG	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_ATH5413BG	FOX_BRM_2.0	N
AS5055WXMi	TWN	GCTWN	S2.AV305.003	AS5055WXMi XPHTC1 UMAC 2*1G/160/BT/6L/5R/CB_bg_0.3C_AN	ATTL60	N14.1 WXGAG	SO1GBII5	SO1GBII5	N160GB5.4KS	NSM8X	ABT_BRM4318BG	FOX_BRM_2.0	N
AS5051AWXCi	China	Hong Kong	LX.AV305.016	AS5051AWXCi XPHHK9 UMAC 1*512/120/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N120GB5.4K	NCB24X	ABT_ATH5413BG	N	N
AS5051AWXCi	China	China	LX.AV305.015	AS5051AWXCi XPHSC7 UMAC 1*512/120/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N120GB5.4K	NCB24X	ABT_ATH5413BG	N	N

Model	RO	Country	Acer Part no	Description	CPU	LCD	DIMM 1	DIMM 2	HDD 1 (GB)	ODD	Wireless LAN	Blueto oth	VOIP Phone
AS5051AWXMi	TWN	GCTWN	LX.AV305.012	AS5051AWXMi XPHTC1 UMAC 1*512/120/BT/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	FOX_BRM_2.0	N
AS5051AWXMi	TWN	GCTWN	LX.AV305.014	AS5051AWXMi XPHTC1 UMAC 1*512/60/BT/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N60GB5.4K	NSM8X	ABT_ATH5413BG	FOX_BRM_2.0	N
AS5051AWXMi	TWN	GCTWN	LX.AV305.013	AS5051AWXMi XPHTC1 UMAC 1*512/80/BT/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N80GB5.4K	NSM8X	ABT_ATH5413BG	FOX_BRM_2.0	N
AS5051AWXMi	AAP	Australia/New Zealand	LX.AV30J.011	AS5051AWXMi MCEAU1 UMAC 1*1G/120/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO1GBII6	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051AWXMi	AAP	Singapore	LX.AV30J.012	AS5051AWXMi MCESG1 UMAC 1*1G/120/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO1GBII6	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051AWXMi	AAP	India	LX.AV30J.013	AS5051AWXMi MCEIL1 UMAC 1*1G/120/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO1GBII6	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051AWXMi	AAP	Indonesia	LX.AV30J.014	AS5051AWXMi MCEIN1 UMAC 1*1G/120/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO1GBII6	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051AWXMi	AAP	Philippines	LX.AV30J.015	AS5051AWXMi MCEPH1 UMAC 1*1G/120/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO1GBII6	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051AWXMi	AAP	Malaysia	LX.AV30J.016	AS5051AWXMi MCEMA1 UMAC 1*1G/120/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO1GBII6	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N

Model	RO	Country	Acer Part no	Description	CPU	LCD	DIMM 1	DIMM 2	HDD 1 (GB)	ODD	Wireless LAN	Blueto oth	VOIP Phone
AS5051AWXMi	AAP	Thailand	LX.AV30J.017	AS5051AWXMi MCETH1 UMAC 1*1G/120/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO1GBII6	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051AWXMi	AAP	Vietnam	LX.AV30J.018	AS5051AWXMi MCEVN1 UMAC 1*1G/120/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO1GBII6	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051AWXMi	AAP	Australia/ New Zealand	LX.AV306.002	AS5051AWXMi XPPAU1 UMAC 1*1G/120/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO1GBII6	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5052WXMi	AAP	Australia/ New Zealand	LX.AV30J.003	AS5052WXMi MCEAU1 UMAC 1*1G/120/6L/5R/CB_bg_0.3C_AN	ATTL50	N14.1 WXGAG	SO1GBII6	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5052WXMi	AAP	India	LX.AV30J.005	AS5052WXMi MCEIL1 UMAC 1*1G/120/6L/5R/CB_bg_0.3C_AN	ATTL50	N14.1 WXGAG	SO1GBII6	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5052WXMi	AAP	Indonesia	LX.AV30J.006	AS5052WXMi MCEIN1 UMAC 1*1G/120/6L/5R/CB_bg_0.3C_AN	ATTL50	N14.1 WXGAG	SO1GBII6	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5052WXMi	AAP	Singapore	LX.AV30J.004	AS5052WXMi MCESG1 UMAC 1*1G/120/6L/5R/CB_bg_0.3C_AN	ATTL50	N14.1 WXGAG	SO1GBII6	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5052WXMi	AAP	Philippines	LX.AV30J.007	AS5052WXMi MCEPH1 UMAC 1*1G/120/6L/5R/CB_bg_0.3C_AN	ATTL50	N14.1 WXGAG	SO1GBII6	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5052WXMi	AAP	Malaysia	LX.AV30J.008	AS5052WXMi MCEMA1 UMAC 1*1G/120/6L/5R/CB_bg_0.3C_AN	ATTL50	N14.1 WXGAG	SO1GBII6	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N

Model	RO	Country	Acer Part no	Description	CPU	LCD	DIMM 1	DIMM 2	HDD 1 (GB)	ODD	Wireless LAN	Blueto oth	VOIP Phone
AS5052WXMi	AAP	Thailand	LX.AV30J.009	AS5052WXMi MCETH1 UMAC 1*1G/120/6L/5R/CB_bg_0.3C_AN	ATTL50	N14.1 WXGAG	SO1GBII6	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5052WXMi	AAP	Vietnam	LX.AV30J.010	AS5052WXMi MCEVN1 UMAC 1*1G/120/6L/5R/CB_bg_0.3C_AN	ATTL50	N14.1 WXGAG	SO1GBII6	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5052WXMi	AAP	Australia/ New Zealand	LX.AV306.001	AS5052WXMi XPPAU1 UMAC 1*1G/120/6L/5R/CB_bg_0.3C_AN	ATTL50	N14.1 WXGAG	SO1GBII6	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051ANWXMi	AAP	India	LX.AV30C.015	AS5051ANWXMi LINPUSIL1 UMAC 1*256/60/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO256MBII5	N	N60GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051ANWXMi	AAP	Vietnam	LX.AV30C.014	AS5051ANWXMi LINPUSVN1 UMAC 1*512/60/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N60GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051ANWXMi	AAP	Thailand	LX.AV30C.016	AS5051ANWXMi LINPUSTH2 UMAC 1*512/80/BT/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N80GB5.4K	NSM8X	ABT_ATH5413BG	FOX_BRM_2.0	N
AS5051ANWXMi	AAP	Singapore	LX.AV30C.008	AS5051ANWXMi LINPUSSG1 UMAC 1*512/60/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N60GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051ANWXMi	AAP	India	LX.AV30C.009	AS5051ANWXMi LINPUSIL1 UMAC 1*512/60/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N60GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051ANWXMi	AAP	Indonesia	LX.AV30C.010	AS5051ANWXMi LINPUSIN1 UMAC 1*512/60/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N60GB5.4K	NSM8X	ABT_ATH5413BG	N	N

Model	RO	Country	Acer Part no	Description	CPU	LCD	DIMM 1	DIMM 2	HDD 1 (GB)	ODD	Wireless LAN	Blueto oth	VOIP Phone
AS5051ANWXMi	AAP	Philippines	LX.AV30C.011	AS5051ANWXMi LINPUSPH1 UMAC 1*512/60/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N60GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051ANWXMi	AAP	Malaysia	LX.AV30C.012	AS5051ANWXMi LINPUSMA2 UMAC 1*512/60/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N60GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051ANWXMi	AAP	Thailand	LX.AV30C.013	AS5051ANWXMi LINPUSTH2 UMAC 1*512/60/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N60GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5052WXMi	AAP	Thailand	LX.AV30J.019	AS5052WXMi MCETH1 UMAC 1*1G/120/BT/6L/5R/CB_bg_0.3C_AN	ATTL50	N14.1 WXGAG	SO1GBII6	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	FOX_BRM_2.0	N
AS5051AWXMi	EMEA	Belgium	LX.AV30J.032	AS5051AWXMi MCEBE6 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Middle East	LX.AV30J.043	AS5051AWXMi MCEAR1 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Middle East	LX.AV30J.044	AS5051AWXMi MCEAR2 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Italy	LX.AV30J.040	AS5051AWXMi MCEIT7 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Spain	LX.AV30J.039	AS5051AWXMi MCEESJ UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N

Model	RO	Country	Acer Part no	Description	CPU	LCD	DIMM 1	DIMM 2	HDD 1 (GB)	ODD	Wireless LAN	Blueto oth	VOIP Phone
AS5051AWXMi	EMEA	Eastern Europe	LX.AV30J.030	AS5051AWXMi MCECS5 UMAC 2*512/100/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Denmark	LX.AV30J.024	AS5051AWXMi MCEDK6 UMAC 2*512/100/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	France	LX.AV30J.025	AS5051AWXMi MCEFRF UMAC 2*512/100/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Germany	LX.AV30J.027	AS5051AWXMi MCEDEA UMAC 2*512/100/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Germany	LX.AV30J.028	AS5051AWXMi MCEDEB UMAC 2*512/100/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Holland	LX.AV30J.033	AS5051AWXMi MCENL6 UMAC 2*512/100/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Norway	LX.AV30J.034	AS5051AWXMi MCENO5 UMAC 2*512/100/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Russia	LX.AV30J.035	AS5051AWXMi MCERU9 UMAC 2*512/100/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Eastern Europe	LX.AV30J.036	AS5051AWXMi MCEPL7 UMAC 2*512/100/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N

Model	RO	Country	Acer Part no	Description	CPU	LCD	DIMM 1	DIMM 2	HDD 1 (GB)	ODD	Wireless LAN	Blueto oth	VOIP Phone
AS5051AWXMi	EMEA	Slovenia/ Croatia	LX.AV30J.037	AS5051AWXMi MCESI1 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Portugal	LX.AV30J.038	AS5051AWXMi MCEPT6 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Sweden/ Finland	LX.AV30J.029	AS5051AWXMi MCESV5 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Turkey	LX.AV30J.041	AS5051AWXMi MCETR5 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Switzerland	LX.AV30J.045	AS5051AWXMi MCESW8 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	UK	LX.AV30J.046	AS5051AWXMi MCEUK5 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	UK	LX.AV30J.047	AS5051AWXMi MCEWUK11W UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Italy	LX.AV30J.042	AS5051AWXMi MCEWIT11W UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Germany	LX.AV30J.031	AS5051AWXMi MCEWDE11W UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N

Model	RO	Country	Acer Part no	Description	CPU	LCD	DIMM 1	DIMM 2	HDD 1 (GB)	ODD	Wireless LAN	Blueto oth	VOIP Phone
AS5051AWXMi	EMEA	France	LX.AV30J.026	AS5051AWXMi MCEWFR11W UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Belgium	LX.AV305.019	AS5051AWXMi XPHBE1 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Middle East	LX.AV305.038	AS5051AWXMi XPHAR1 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Eastern Europe	LX.AV305.027	AS5051AWXMi XPHCS2 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Germany	LX.AV305.023	AS5051AWXMi XPHDE7 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Greece	LX.AV305.033	AS5051AWXMi XPHEL1 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Israel	LX.AV305.034	AS5051AWXMi XPHIS1 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Italy	LX.AV305.035	AS5051AWXMi XPHIT1 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Denmark	LX.AV305.018	AS5051AWXMi XPHDK1 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N

Model	RO	Country	Acer Part no	Description	CPU	LCD	DIMM 1	DIMM 2	HDD 1 (GB)	ODD	Wireless LAN	Blueto oth	VOIP Phone
AS5051AWXMi	EMEA	Holland	LX.AV305.020	AS5051AWXMi XPHNL1 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	France	LX.AV305.021	AS5051AWXMi XPHFRA UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Eastern Europe	LX.AV305.028	AS5051AWXMi XPHHU6 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Spain	LX.AV305.031	AS5051AWXMi XPHESA UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Slovenia/ Croatia	LX.AV305.030	AS5051AWXMi XPHSLO2 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Eastern Europe	LX.AV305.029	AS5051AWXMi XPHPL6 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Portugal	LX.AV305.032	AS5051AWXMi XPHPT1 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Switzerland	LX.AV305.039	AS5051AWXMi XPHSW5 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Turkey	LX.AV305.036	AS5051AWXMi XPHTR1 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N

Model	RO	Country	Acer Part no	Description	CPU	LCD	DIMM 1	DIMM 2	HDD 1 (GB)	ODD	Wireless LAN	Blueto oth	VOIP Phone
AS5051AWXMi	EMEA	South Africa	LX.AV305.017	AS5051AWXMi XPHSA1 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Norway	LX.AV305.024	AS5051AWXMi XPHNO1 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Russia	LX.AV305.025	AS5051AWXMi XPHRU2 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Sweden/ Finland	LX.AV305.026	AS5051AWXMi XPHSV1 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	France	LX.AV305.022	AS5051AWXMi XPHWFRB1W UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Italy	LX.AV305.037	AS5051AWXMi XPHWIT21W UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	UK	LX.AV305.040	AS5051AWXMi XPHUK1 UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	UK	LX.AV305.041	AS5051AWXMi XPHWUK21W UMAC 2*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	SO512MBII6	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5052WXMi	PA	USA/ Canada - Canadian French	LX.AV30J.020	AS5052WXMi MCECF UMAC 2*512/120/6L/5R/CB_bg_0.3C_AN	ATTL50	N14.1 WXGAG	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N

Model	RO	Country	Acer Part no	Description	CPU	LCD	DIMM 1	DIMM 2	HDD 1 (GB)	ODD	Wireless LAN	Bluetooth	VOIP Phone
AS5052WXMi	PA	USA/ Canada - Canadian French	LX.AV30J.021	AS5052WXMi MCEUSUMAC 2*512/120/6L/5R/CB_bg_0.3C_AN	ATTL50	N14.1 WXGAG	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5052WXMi	PA	ACLA-Spanish	LX.AV30J.022	AS5052WXMi MCEES1UMAC 2*512/120/6L/5R/CB_bg_0.3C_AN	ATTL50	N14.1 WXGAG	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051AWXMi	PA	ACLA-Spanish	LX.AV30J.048	AS5051AWXMi MCEES1UMAC 2*512/120/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051ANWXCi	AAP	Australia/ New Zealand	LX.AV30C.017	AS5051ANWXCi LINPUSAU1 UMAC 1*512/80/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N80GB5.4K	NCB24X	ABT_BRM4318BG	N	N
AS5051AWXCi	AAP	Malaysia	LX.AV305.042	AS5051AWXCi XPHMA2UMAC 1*512/80/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N80GB5.4K	NCB24X	ABT_BRM4318BG	N	N
AS5051ANWXCi	AAP	Malaysia	LX.AV30C.018	AS5051ANWXCi LINPUSMA2 UMAC 1*512/80/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N80GB5.4K	NCB24X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Sweden/ Finland	LX.AV30J.049	AS5051AWXMi MCESV5UMAC 1*512/100/BT/6L/5R/CB_bg_VP_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII6	N	N100GB5.4K	NSM8X	ABT_BRM4318BG	FOX_BRM_2.0	BT VoIP PCMCIA
AS5051AWXMi	EMEA	Slovenia/ Croatia	LX.AV30J.050	AS5051AWXMi MCESI1UMAC 1*512/100/BT/6L/5R/CB_bg_VP_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII6	N	N100GB5.4K	NSM8X	ABT_BRM4318BG	FOX_BRM_2.0	BT VoIP PCMCIA
AS5051AWXMi	EMEA	Holland	LX.AV30J.051	AS5051AWXMi MCENL6UMAC 1*512/100/BT/6L/5R/CB_bg_VP_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII6	N	N100GB5.4K	NSM8X	ABT_BRM4318BG	FOX_BRM_2.0	BT VoIP PCMCIA

Model	RO	Country	Acer Part no	Description	CPU	LCD	DIMM 1	DIMM 2	HDD 1 (GB)	ODD	Wireless LAN	Blueto oth	VOIP Phone
AS5051AWXMi	EMEA	Russia	LX.AV30J.052	AS5051AWXMi MCERU9 UMAC 1*512/100/BT/6L/5R/CB_bg_VP_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII6	N	N100GB5.4K	NSM8X	ABT_BRM4318BG	FOX_BRM_2.0	BT VoIP PCMCIA
AS5051AWXMi	EMEA	Holland	LX.AV30J.054	AS5051AWXMi MCENL6 UMAC 1*512/100/BT/6L/5R_bg_VP_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	N	N100GB5.4K	NSM8X	ABT_BRM4318BG	FOX_BRM_2.0	BT VoIP PCMCIA
AS5051AWXMi	EMEA	Russia	LX.AV305.043	AS5051AWXMi XPHRU2 UMAC 1*512/100/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	N	N100GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Sweden/Finland	LX.AV30J.055	AS5051AWXMi MCESV5 UMAC 1*512/100/BT/6L/5R_bg_VP_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	N	N100GB5.4K	NSM8X	ABT_BRM4318BG	FOX_BRM_2.0	BT VoIP PCMCIA
AS5051AWXMi	EMEA	Slovenia/Croatia	LX.AV30J.053	AS5051AWXMi MCESI1 UMAC 1*512/100/BT/6L/5R_bg_VP_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	N	N100GB5.4K	NSM8X	ABT_BRM4318BG	FOX_BRM_2.0	BT VoIP PCMCIA
AS5052NWXMi	AAP	Thailand	LX.AV30C.019	AS5052NWXMi LINPUSTH2 UMAC 1*512/120/BT/6L/5R/CB_bg_0.3C_AN	ATTL50	N14.1 WXGAG	SO512MBII5	N	N120GB5.4K	NSM8X	ABT_BRM4318BG	FOX_BRM_2.0	N
AS5053WXMi	AAP	Thailand	LX.AV30J.056	AS5053WXMi MCETH1 UMAC 1*1G/120/BT/6L/5R/CB_bg_0.3C_AN	ATTL52	N14.1 WXGAG	SO1GBII6	N	N120GB5.4K	NSM8X	ABT_BRM4318BG	FOX_BRM_2.0	N
AS5051ANWXMi	EMEA	Middle East	LX.AV30C.022	AS5051ANWXMi LINPUSAR9 UMAC 1*512/60/BT/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	N	N60GB5.4K	NSM8X	ABT_BRM4318BG	FOX_BRM_2.0	N
AS5051ANWXMi	EMEA	Middle East	LX.AV30C.024	AS5051ANWXMi LINPUSAR9 UMAC 1*512/60/BT/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N60GB5.4K	NSM8X	ABT_BRM4318BG	FOX_BRM_2.0	N

Model	RO	Country	Acer Part no	Description	CPU	LCD	DIMM 1	DIMM 2	HDD 1 (GB)	ODD	Wireless LAN	Blueto oth	VOIP Phone
AS5051ANWXMi	EMEA	Middle East	LX.AV30C.020	AS5051ANWXMi LINPUSAR7 UMAC 1*512/60/BT/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	N	N60GB5.4K	NSM8X	ABT_BRM4318BG	FOX_BRM_2.0	N
AS5051ANWXMi	EMEA	France	LX.AV30C.021	AS5051ANWXMi LINPUSFRA UMAC 1*512/60/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	N	N60GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051ANWXMi	EMEA	Russia	LX.AV30C.023	AS5051ANWXMi LINPUSRU5 UMAC 1*512/60/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	N	N60GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Middle East	LX.AV305.044	AS5051AWXMi XPHAR8 UMAC 1*512/60/BT/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N60GB5.4K	NSM8X	ABT_BRM4318BG	FOX_BRM_2.0	N
AS5051AWXMi	EMEA	Eastern Europe	LX.AV30J.057	AS5051AWXMi MCEPL7 UMAC 1*512/100/BT/6L/5R_bg_VP_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	N	N100GB5.4K	NSM8X	ABT_BRM4318BG	FOX_BRM_2.0	BT VoIP PCMCIA
AS5051AWXMi	EMEA	Russia	LX.AV305.045	AS5051AWXMi XPHRU1 UMAC 1*512/100/BT/6L/5R_bg_VP_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII6	N	N100GB5.4K	NSM8X	ABT_BRM4318BG	FOX_BRM_2.0	BT VoIP PCMCIA
AS5052WXMi	TWN	GCTWN	LX.AV30J.058	AS5052WXMi MCETC9 UMAC 1*512/120/BT/6L/5R/CB_bg_0.3C_AN	ATTL50	N14.1 WXGAG	SO512MBII5	N	N120GB5.4K	NSM8X	ABT_BRM4318BG	FOX_BRM_2.0	N
AS5052WXMi	TWN	GCTWN	LX.AV305.046	AS5052WXMi XPHTC1 UMAC 1*512/120/BT/6L/5R/CB_bg_0.3C_AN	ATTL50	N14.1 WXGAG	SO512MBII5	N	N120GB5.4K	NSM8X	ABT_ATH5413BG	FOX_BRM_2.0	N
AS5051AWXMi	EMEA	Switzerland	LX.AV30J.059	AS5051AWXMi MCESW8 UMAC 2*512/120/BT/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	FOX_BRM_2.0	N

Model	RO	Country	Acer Part no	Description	CPU	LCD	DIMM 1	DIMM 2	HDD 1 (GB)	ODD	Wireless LAN	Blueto oth	VOIP Phone
AS5051AWXMi	EMEA	Switzerland	LX.AV30J.060	AS5051AWXMi MCESW8 UMAC 2*512/120/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Portugal	LX.AV30J.061	AS5051AWXMi MCEPT6 UMAC 2*512/120/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Spain	LX.AV30J.062	AS5051AWXMi MCEESJ UMAC 2*512/120/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Germany	LX.AV30J.064	AS5051AWXMi MCEDEA UMAC 2*512/120/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Germany	LX.AV30J.065	AS5051AWXMi MCEDEB UMAC 2*512/120/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Middle East	LX.AV30J.070	AS5051AWXMi MCEAR1 UMAC 2*512/120/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Middle East	LX.AV30J.084	AS5051AWXMi MCEAR2 UMAC 2*512/120/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Belgium	LX.AV30J.066	AS5051AWXMi MCEBE6 UMAC 2*512/120/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Eastern Europe	LX.AV30J.079	AS5051AWXMi MCECS5 UMAC 2*512/120/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N

Model	RO	Country	Acer Part no	Description	CPU	LCD	DIMM 1	DIMM 2	HDD 1 (GB)	ODD	Wireless LAN	Blueto oth	VOIP Phone
AS5051AWXMi	EMEA	Holland	LX.AV30J.069	AS5051AWXMi MCENL6 UMAC 2*512/120/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Italy	LX.AV30J.071	AS5051AWXMi MCEIT7 UMAC 2*512/120/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Denmark	LX.AV30J.074	AS5051AWXMi MCEDK6 UMAC 2*512/120/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	France	LX.AV30J.063	AS5051AWXMi MCEFRF UMAC 2*512/120/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Norway	LX.AV30J.073	AS5051AWXMi MCENO5 UMAC 1*512/80/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII6	N	N80GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Norway	LX.AV30J.075	AS5051AWXMi MCENO5 UMAC 2*512/120/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Russia	LX.AV30J.080	AS5051AWXMi MCERU9 UMAC 2*512/120/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Slovenia/ Croatia	LX.AV30J.085	AS5051AWXMi MCESI1 UMAC 2*512/120/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Switzerland	LX.AV30J.086	AS5051AWXMi MCESW8 UMAC 2*512/120/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N

Model	RO	Country	Acer Part no	Description	CPU	LCD	DIMM 1	DIMM 2	HDD 1 (GB)	ODD	Wireless LAN	Blueto oth	VOIP Phone
AS5051AWXMi	EMEA	Eastern Europe	LX.AV30J.068	AS5051AWXMi MCEPL7 UMAC 2*512/120/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Sweden/ Finland	LX.AV30J.067	AS5051AWXMi MCESV5 UMAC 2*512/120/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	UK	LX.AV30J.081	AS5051AWXMi MCEUUK11U UMAC 2*512/120/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	UK	LX.AV30J.087	AS5051AWXMi MCEUK5 UMAC 2*512/120/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Turkey	LX.AV30J.072	AS5051AWXMi MCETR5 UMAC 2*512/120/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Italy	LX.AV30J.076	AS5051AWXMi MCEWIT11W UMAC 2*512/120/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	UK	LX.AV30J.088	AS5051AWXMi MCEUK6 UMAC 2*512/120/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	France	LX.AV30J.077	AS5051AWXMi MCEWFR11W UMAC 2*512/120/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Germany	LX.AV30J.078	AS5051AWXMi MCEWDE11W UMAC 2*512/120/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N

Model	RO	Country	Acer Part no	Description	CPU	LCD	DIMM 1	DIMM 2	HDD 1 (GB)	ODD	Wireless LAN	Blueto oth	VOIP Phone
AS5051AWXMi	EMEA	Germany	LX.AV305.057	AS5051AWXMi XPHDE7 UMAC 2*512/120/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Middle East	LX.AV305.061	AS5051AWXMi XPHAR1 UMAC 2*512/120/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Denmark	LX.AV305.047	AS5051AWXMi XPHDK1 UMAC 2*512/120/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Belgium	LX.AV305.056	AS5051AWXMi XPHBE1 UMAC 2*512/120/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Eastern Europe	LX.AV305.052	AS5051AWXMi XPHCS2 UMAC 2*512/120/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	UK	LX.AV30J.083	AS5051AWXMi MCEWUK11W UMAC 2*512/120/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	UK	LX.AV30J.082	AS5051AWXMi MCEWUK21W UMAC 2*512/120/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Eastern Europe	LX.AV305.051	AS5051AWXMi XPHHU6 UMAC 2*512/120/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Spain	LX.AV305.059	AS5051AWXMi XPHESA UMAC 2*512/120/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N

Model	RO	Country	Acer Part no	Description	CPU	LCD	DIMM 1	DIMM 2	HDD 1 (GB)	ODD	Wireless LAN	Blueto oth	VOIP Phone
AS5051AWXMi	EMEA	Greece	LX.AV305.054	AS5051AWXMi XPHEL1 UMAC 2*512/120/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Israel	LX.AV305.069	AS5051AWXMi XPHIS1 UMAC 2*512/120/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	France	LX.AV305.048	AS5051AWXMi XPHFRA UMAC 2*512/120/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Italy	LX.AV305.055	AS5051AWXMi XPHIT1 UMAC 2*512/120/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Eastern Europe	LX.AV305.053	AS5051AWXMi XPHPL6 UMAC 2*512/120/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Holland	LX.AV305.067	AS5051AWXMi XPHNL1 UMAC 2*512/120/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	AAP	Malaysia	LX.AV305.066	AS5051AWXMi XPHMA2 UMAC 1*512/80/6L/5R/CB_bg_0.3C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N80GB5.4K	NSM8X	ABT_ATH5413BG	N	N
AS5051AWXMi	EMEA	Norway	LX.AV305.058	AS5051AWXMi XPHNO1 UMAC 2*512/120/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	South Africa	LX.AV305.062	AS5051AWXMi XPHSA1 UMAC 2*512/120/6L/5R_bg_0.3C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N

Model	RO	Country	Acer Part no	Description	CPU	LCD	DIMM 1	DIMM 2	HDD 1 (GB)	ODD	Wireless LAN	Bluetooth	VOIP Phone
AS5051AWXMi	EMEA	Russia	LX.AV305.049	AS5051AWXMi XPHRU2 UMAC 2*512/120/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Sweden/Finland	LX.AV305.050	AS5051AWXMi XPHSV1 UMAC 2*512/120/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Slovenia/Croatia	LX.AV305.063	AS5051AWXMi XPHSLO2 UMAC 2*512/120/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Portugal	LX.AV305.068	AS5051AWXMi XPHPT1 UMAC 2*512/120/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Switzerland	LX.AV305.064	AS5051AWXMi XPHSW5 UMAC 2*512/120/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	UK	LX.AV305.065	AS5051AWXMi XPHUK1 UMAC 2*512/120/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Turkey	LX.AV305.070	AS5051AWXMi XPHTR1 UMAC 2*512/120/6L/5R_bg_0.3 C_AN	ATMK36	N14.1 WXGA	SO512MBII5	SO512MBII5	N120GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051ANWXMi	EMEA	Turkey	LX.AV30C.025	AS5051ANWXMi LINPUSTR1 UMAC 1*512/60/6L/5R/CB_bg_0.3 C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N60GB5.4K	NSM8X	ABT_BRM4318BG	N	N
AS5051AWXMi	EMEA	Turkey	LX.AV305.071	AS5051AWXMi XPHTR1 UMAC 1*512/60/6L/5R/CB_bg_0.3 C_AN	ATMK36	N14.1 WXGAG	SO512MBII5	N	N60GB5.4K	NSM8X	ABT_BRM4318BG	N	N

Model	RO	Country	Acer Part no	Description	CPU	LCD	DIMM 1	DIMM 2	HDD 1 (GB)	ODD	Wireless LAN	Blueto oth	VOIP Phone
AS5052NWXMi	AAP	India	LX.AV30C.026	AS5052NWXMi LINPUSIL1 UMAC 1*512/80/BT/6L/5R/CB_bg_0.3C_AN	ATTL50	N14.1 WXGAG	SO512MBII5	N	N80GB5.4K	NSM8X	ABT_ATH5413BG	FOX_BRM_2.0	N

Appendix B

Test Compatible Components

This computer's compatibility is tested and verified by Acer's internal testing department. All of its system functions are tested under Windows® XP Home, Windows® XP Pro environment.

Refer to the following lists for components, adapter cards, and peripherals which have passed these tests. Regarding configuration, combination and test procedures, please refer to the Aspire 2920/2920Z/2420 series Compatibility Test Report released by the Acer Mobile System Testing Department.

Microsoft® Windows® Vista Environment Test

Item	Specification
CRT Port Test	
CRT Monitor	Acer 211c 21”, ViewSonic G220F, ViewSonic PF790 19”
LCD Monitor	Acer FP751 17” TFT LCD, Acer AL1521, Acer AL1721, ViewSonic VD201b, Westinghouse W37G, HP LP2065, HP S9500
Projector	Dell 3300MP
USB Port Test	
USB Keyboard/Mouse	Microsoft Natural Keyboard Pro Dell USB Keyboard Logicool USB Mouse (OWCM-USB) Logitech USB Wheel Mouse Logitech First Wheel Mouse Dell Dell by Logitech Dell Internet Navigator Keyboard Dell Smart Card Keyboard HP USB Optical Austin Mouse Belkin Miniglow Optical USB Mouse HP USB Optical Mouse (RB129AA)
USB Speaker/Joystick	Aiwa Multimedia Digital Speaker (SC-UC78) Panasonic USB Speaker EAB-MPC57USB
USB Storage Drive	Iomega USB Zip 250MB Transcend 80G HDD Plextor DVD+R/RW LG DVD+R/RW Sony DVD+R/RW
USB Camera	Intel Easy PC Camera (A20953-001) Orange Micro USB 2.0 Web Cam
USB HUB and Others	A TEN UH-204 IOGEAR 4-Port Hub Corega CG-WLUSBST11
USB Printer/Scanner	HP 450WBT Deskjet Printer
USB Flash Drive	Sony Memory Key 128MB Sony Micro Vault Pro USD-5G IBM 128MB Memory Key IBM 512MB Memory Key Apacer Handy Drive Apacer The USB Flash Drive 256MB
USB ODD	Logitec CDRW+DVDROM combo LG DVD+R/RW Sony DVD+R/RW
1394 Camera	Sony DV-TRV10
Access Point 802.11a	Intel Pro/Wireless 5000 NetGear HE 102
Access Point 802.11g	D-Link Building Networks People WiFi Certified a/b/g Wireless 108AG
Access Point 802.11n	Belkin N1MIMO Wireless Router High Performance wireless 802.11n
Bluetooth Device	Sony Ericsson Wireless Headset Sony Ericsson T610 X Bridge Bluetooth Access Point BT300

Item	Specification
PCMCIA Test	
LAN/Modem Card	TDK CardBus Ethernet 10/100 32-Bit CBE-10/100BTX
Storage Card	Hitachi Microdrive 4G
1394 Card	Buffalo 1394 Interface Cardbus (IFC-ILCB/DV)
USB2.0 Card	IBM EtherJet CardBus Adapter 10/100
Wireless Lan Card (Not recommended for wireless ready model)	Cisco Wireless LAN Card 802.11a NETGEAR Wireless LAN card 802.11a
ISDN Card	Toshiba Type B for Bluetooth 128K ISDN Card
GPRS Card	Vodafone QL1ACC-21581 3G/GPRS card Sony Ericsson GC83 GPRS card Sony Ericsson GC89 GPRS card
ExpressCard Test	
Express Card	Abcom 5-in-1 Adapter ExpressCard Reader Abcom GigaLan ExpressCard Sunix ECF2400 2 Ports 1394A ExpressCard
Memory Card Test (SD/MS/MMC/SM/CF/Microdrive/XD)	
SD Card	Apacer 128/256MB SanDisk 256MB Apacer 2GB (150x Hi-Speed) KINGMAX 1GB (66x Hi-Speed) SanDisk 1GB RiDATA 4GB SD PRO Memory Card
MS Card	Sony 512 MS PRO Lexar 512MB MS PRO Lexar 1GB MS PRO Sony 2GB MS PRO
MMC Card	SanDisk 32MB Transcend 64/128MB Transcend 256MB SanDisk RS-MMC 128MB PQI RS-MMC 256MB Transcend 512MB A-DATA Turbo 200X 2GB MMC Card
XD Card	Apacer 256/512MB SanDisk 2GB Olympus 512MB
CF Card	Apacer 256/512 SanDisk 2GB

Appendix C

Online Support Information

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

If you are a distributor, dealer, ASP or TPM, please refer your technical queries to your local Acer branch office. Acer Branch Offices and Regional Business Units may access our website. However some information sources will require a user i.d. and password. These can be obtained directly from Acer CSD Taiwan.

Acer's Website offers you convenient and valuable support resources whenever you need them.

In the Technical Information section you can download information on all of Acer's Notebook, Desktop and Server models including:

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

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

Also contained on this website are:

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

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

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