

Aspire 4540/4240 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 to this 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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System Specifications

Features

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

NOTE: Items marked with * denote only selected models.

Operating System

- Genuine Windows® 7™

Platform

- AMD Better By Design Program, featuring:
 - AMD Turion™ X2 Ultra dual-core processor*
 - AMD Turion™ X2 dual-core processor*
 - AMD Athlon™ 64 X2 dual-core processor*
 - Mobile AMD Sempron™ processor*
 - AMD M780G Chipset
 - Acer InviLink™ Nplify™ 802.11b/g/Draft-N*
 - Acer InviLink™ 802.11b/g*

System Memory

- Dual-Channel SDRAM support
- Up to 2 GB of DDR2 667 MHz memory, upgradeable to 4 GB using two soDIMM modules*
- Up to 4 GB of DDR2 667 MHz memory, upgradeable to 8 GB using two soDIMM modules*

Display and graphics

- Display
 - 16:9 aspect ratio
 - 14" HD 1366 x 768
- Graphics
 - ATI Radeon™ HD 3200 Graphics*
 - ATI Mobility Radeon™ HD 4570*

Storage subsystem

- 2.5" hard disk drive
- Optical drive options:
 - Blu-ray Disc™/DVD-Super Multi double-layer drive*
 - DVD-Super Multi double-layer drive*
- 5-in-1 card reader

Audio

- Dolby®-optimized surround sound system with two built-in stereo speakers

-
- True 5.1-channel surround sound output
 - High-definition audio support
 - S/PDIF (Sony/Philips Digital Interface) support for digital speakers
 - Acer PureZone technology with two built-in stereo microphones
 - MS-Sound compatible

Communication

- Acer Video Conference, featuring:
 - Integrated Acer Crystal Eye webcam*
 - Acer PureZone technology
- WLAN:
 - Acer InviLink™ Nplify™ 802.11b/g/Draft-N*
 - Acer InviLink™ 802.11b/g*
- WPAN: Bluetooth® 2.0+Enhanced Data Rate (EDR)*
- LAN: Gigabit Ethernet; Wake-on-LAN ready
- Modem: 56K ITU V.92; Wake-on-Ring ready

Dimensions and Weight

- 342 (W) x 239 (D) x 23/38.6 (H) mm (13.4 x 9.4 x 0.9/1.5 inches)
- 2.3 kg (5.07 lbs.) with 6-cell battery pack

Privacy control

- Acer Bio-Protection fingerprint solution*
- BIOS user, supervisor, HDD passwords
- Kensington lock slot

Power subsystem

- ACPI 3.0
- 48.8 W 4400 mAh
- 3-pin 65 W AC adapter*
- 3-pin 90 W AC adapter*
- ENERGY STAR®*

Special keys and controls

- 86-/87-/91-key keyboard
- Touchpad pointing device

I/O interface

- Acer Bio-Protection fingerprint reader
- 5-in-1 card reader (SD/MMC/MS/MS PRO/xD)
- USB 2.0 ports•HDMI™ port with HDCP support
- External display (VGA) port
- Headphones/speaker/line-out jack with S/PDIF support
- Microphone-in jack
- Line-in jack
- Ethernet (RJ-45) port

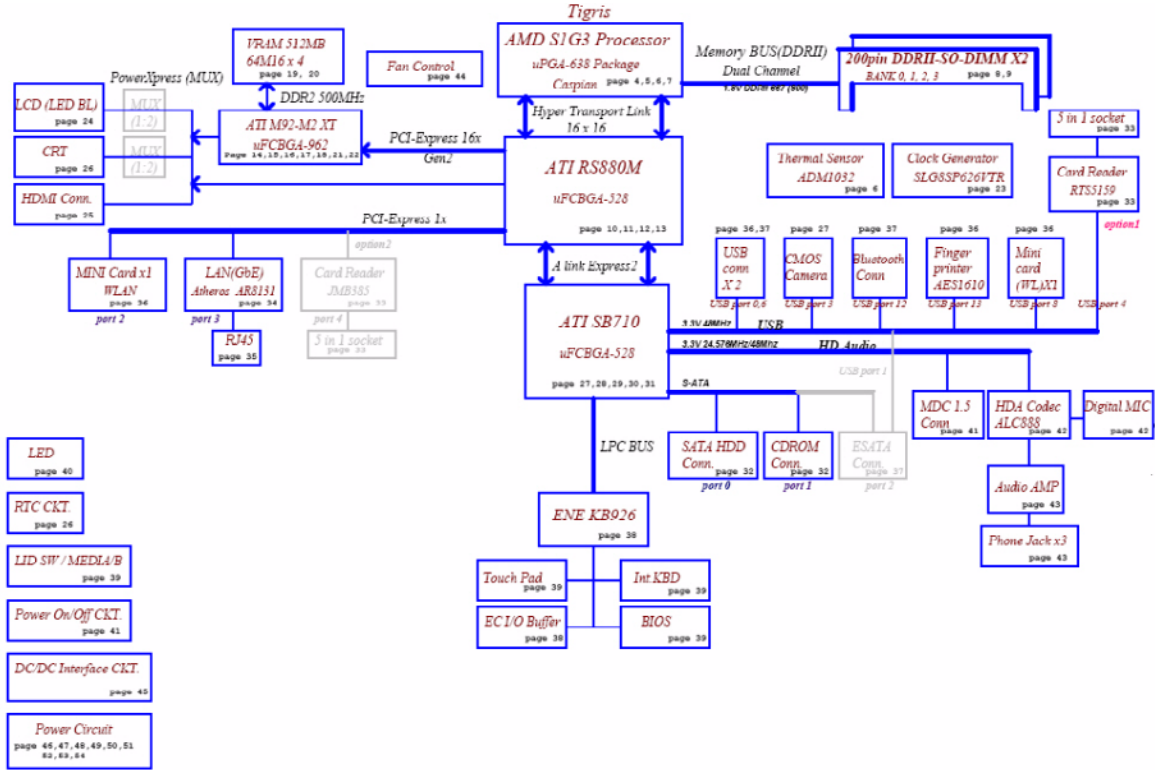
-
- Modem (RJ-11) port
 - DC-in jack for AC adapter

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%

NOTE: Items marked with * denote only selected models. The specifications listed above are for reference only. The exact configuration of your PC depends on the model purchased.

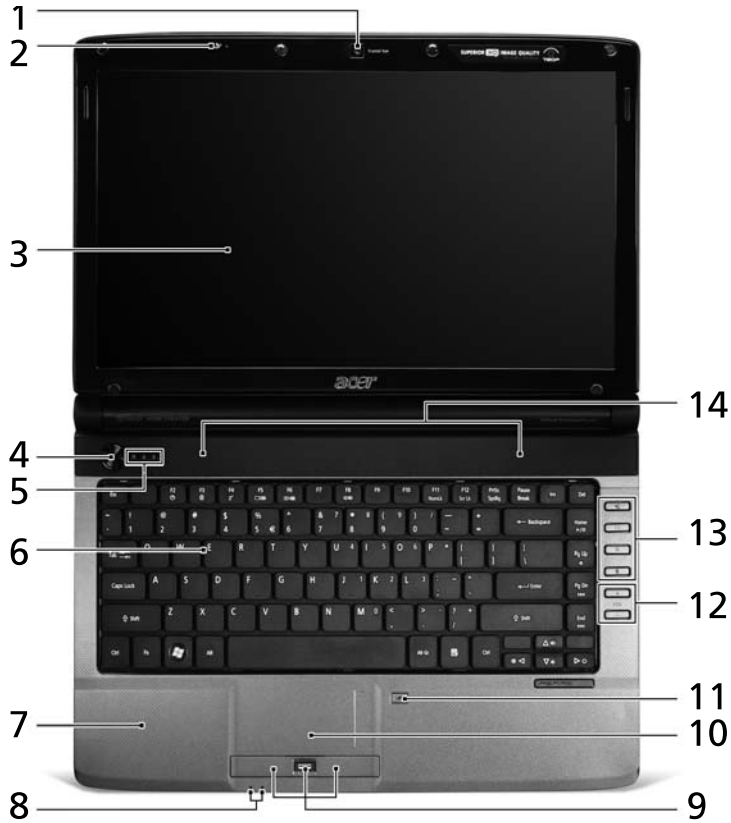
System Block Diagram














Your Acer Notebook tour

Following is a description of the functions and features available with this model.

Front View




No.	Icon	Item	Description
1		Acer Crystal Eye webcam	Web camera for video communication (only for certain models).
2		Microphone	Internal microphone for sound recording.
3		Display screen	Also called Liquid-Crystal Display (LCD), displays computer output (Configuration may vary by models).
4		Power button	Turns the computer on and off.
5		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.
6		Keyboard	For entering data into your computer.

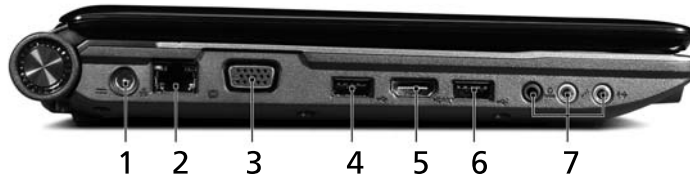
No.	Icon	Item	Description
7		Palmrest	Comfortable support area for your hands when you use the computer.
8		Power	Indicates the computer's power status.
		Battery	Indicates the computer's battery status. 1. Charging: The light shows amber when the battery is charging. 2. Fully charged: The light shows blue when in AC mode.
9		Click buttons (left, center* and right)	The left and right buttons function like the left and right mouse buttons. *The center button serves as Acer Bio-Protection fingerprint reader supporting Acer FingerNav 4-way control function (only for certain models).
10		Touchpad	Touch-sensitive pointing device which functions like a computer mouse.
11		Touchpad toggle	Turns the internal touchpad on and off.
12	+/-	Volume Up/ Volume Down	Increase system volume/decrease system volume.
13	P	Programmable Key	User-Programmable
		Backup Key	Launches Acer Backup Management for three-step data backup.
		Wireless LAN Communication button / Indicator	Enables/disables the wireless LAN function. Indicates the status of wireless LAN communication.
		Bluetooth Communication button/indicator	Enables/disables the Bluetooth function. Indicates the status of Bluetooth communication. (only for certain models)
14		Speakers	Left and right speakers deliver stereo audio output.









Closed Front View



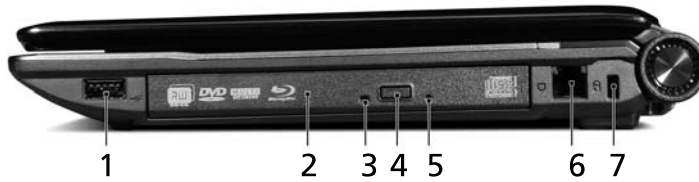
No.	Icon	Item	Description
1		6-in-1 card reader	Accepts Secure Digital (SD), MultiMediaCard (MMC), MultiMediaCardplus™(MMCplus™), Memory Stick (MS), Memory Stick Pro (MS PRO), and xD-Picture Card. Note: Push to remove/install the card. Only one card can operate at any given time.




Left View



No.	Icon	Item	Description
1		DC in jack	Connects to an AC adapter
2		Ethernet (RJ-45) port	Connects to an Ethernet 10/100/1000-based network.
3		External display (VGA) port	Connects to a display device (e.g. external monitor, LCD projector).
5		USB 2.0 port	Connect to USB 2.0 devices (e.g. USB mouse, USB camera)
4	HDMI	HDMI port	Supports high definition digital video connections (only for certain models).
6		USB 2.0 port	Connect to USB 2.0 devices (e.g. USB mouse, USB camera).
7		Headphones/speaker/line-out jack with S/PDIF support	Connects to audio line-out devices (e.g., speakers, headphones).
		Microphone jack	Accepts inputs from external microphones.
		Line-in jack	Accepts audio line-in devices (e.g., audio CD player, stereo walkman, mp3 player).

Right View



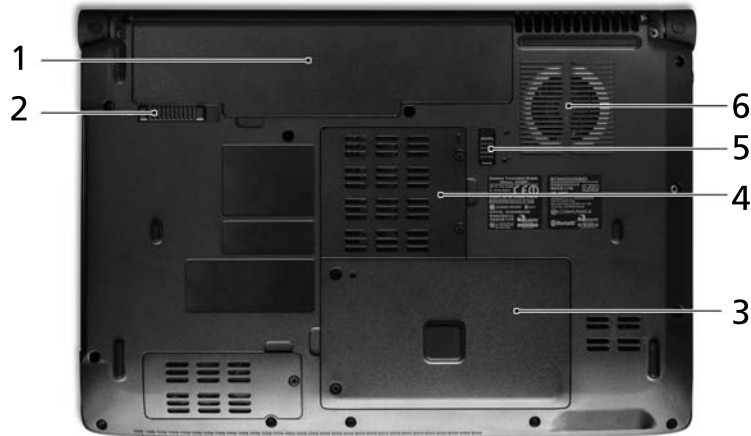
No.	Icon	Item	Description
1		USB 2.0 port	Connect to USB 2.0 devices (e.g. USB mouse, USB camera).
2		Optical drive	Internal optical drive; accepts CDs or DVDs.
3		Optical disk access indicator	Lights up when the optical drive is active.
4		Optical drive eject button	Ejects the optical disk from the drive.
5		Emergency eject hole	Ejects the optical drive tray when the computer is turned off. Note: Insert a paper clip into the emergency eject hole to eject the optical drive tray when the computer is off.
6		Modem (RJ-11) port	Connects to a phone line.
7		Kensington lock slot	Connects to a Kensington-compatible computer security lock.






Rear View



No.	Item	Description
1	Ventilation slots	Enable the computer to stay cool, even after prolonged use.

Bottom View








No.	Icon	Item	Description
1		Battery bay	Houses the computer's battery pack.
2		Battery release latch	Releases the battery for removal.
3		Hard disk bay	Houses the computer's hard disk (secured with screws).
4		Memory compartment	Houses the computer's main memory.
5		Battery lock	Locks the battery in position.
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.

Easy-Launch Buttons

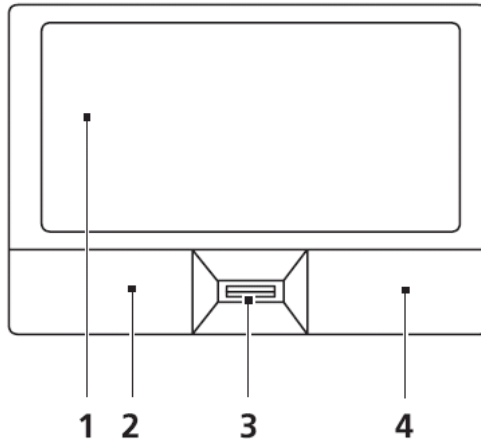
Located beside the keyboard are application buttons. These buttons are called easy-launch buttons. They are: WLAN, Internet, email, Bluetooth, Arcade and Acer Empowering Technology.

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
	Wireless communication switch	Enables/disables the wireless function.
	Web browser	Internet browser (user-Programmable)
	Mail	Email application (user-Programmable)
	Bluetooth communication switch	Enables/disables the Bluetooth function.
	Empowering Technology	Launch Acer Empowering Technology. (user-programmable)

Touchpad Basics (with fingerprint reader)

The following items show you how to use the touchpad with Acer Bio-Protection fingerprint reader:



- Move your finger across the touchpad (1) to move the cursor.
- Press the left (2) and right (4) buttons located beneath the touchpad to perform selection and execution functions. These two buttons are similar to the left and right buttons on a mouse. Tapping on the touchpad is the same as clicking the left button.
- Use Acer Bio-Protection fingerprint reader (3) supporting Acer FingerNav 4-way control function (only for certain models) or the 4-way scroll (3) button (only for certain models) to scroll up or down and move left or right a page. This fingerprint reader or button mimics your cursor pressing on the right scroll bar of Windows applications.

Function	Left Button (2)	Right Button (4)	Main touchpad (1)
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	<p>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:</p> <ul style="list-style-type: none"> <  >: Open or close the Start menu <  > + <D>: Display the desktop <  > + <E>: Open Windows Explore <  > + <F>: Search for a file or folder <  > + <G>: Cycle through Sidebar gadgets <  > + <L>: Lock your computer (if you are connected to a network domain), or switch users (if you're not connected to a network domain) <  > + <M>: Minimizes all windows <  > + <R>: Open the Run dialog box <  > + <T>: Cycle through programs on the taskbar <  > + <U>: Open Ease of Access Center <  > + <X>: Open Windows Mobility Center <  > + <BREAK>: Display the System Properties dialog box <  > + <SHIFT+M>: Restore minimized windows to the desktop <  > + <TAB>: Cycle through programs on the taskbar by using Windows Flip 3-D <  > + <SPACEBAR>: Bring all gadgets to the front and select Windows Sidebar <CTRL> + <  > + <F>: Search for computers (if you are on a network) <CTRL> + <  > + <TAB>: Use the arrow keys to cycle through programs on the taskbar by using Windows Flip 3-D <p>Note: Depending on your edition of Windows 7, some shortcuts may not function as described.</p>
 Application key	<p>This key has the same effect as clicking the right mouse button; it opens the application's context menu.</p>

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.

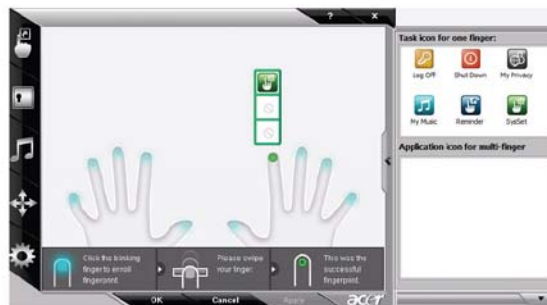
NOTE: This function varies by the operating system version.

Using the System Utilities

Acer Bio-Protection (only for certain models) Acer Bio-Protection Fingerprint Solution is a multi-purpose fingerprint software package integrated with the Microsoft Windows operating system. Utilizing the uniqueness of one's fingerprint features, Acer Bio-Protection Fingerprint Solution has incorporated protection against unauthorized access to your computer with centralized password management with Password Bank, easy music player launching with Acer MusicLaunch, secure Internet favorites via Acer MyLaunch, and fast application/website launching and login with Acer FingerLaunch, while Acer ProfileLaunch can launch up to three applications/websites from a single finger swipe.

Acer Bio-Protection Fingerprint Solution also allows you to navigate through web browsers and documents using Acer FingerNav. With Acer Bio-Protection Fingerprint Solution, you can now enjoy an extra layer of protection for your personal computer, as well as the convenience of accessing your daily tasks with a simple swipe of your finger!

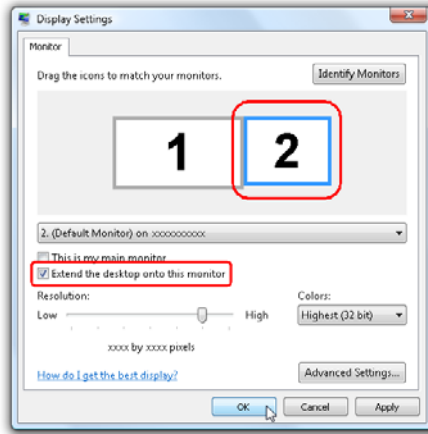
For more information refer to the Acer Bio-Protection help files.



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:

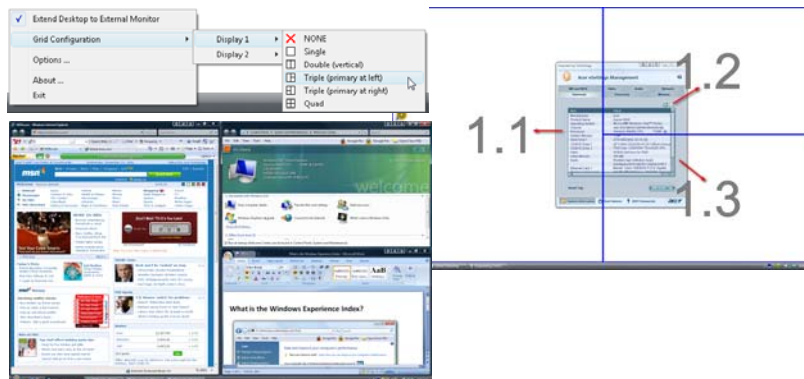


Double (vertical), Triple (primary at left), Triple (primary at right), or Quad Acer GridVista is dual-display compatible, allowing two displays to be partitioned independently.

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

AcerGridVista is simple 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.

Hardware Specifications and Configurations

Processor

Item	Specification
CPU Type	AMD Tigris UltraTurion-II, Turion-II, Athlon-II and Sempron
Core Logic	<ul style="list-style-type: none"> AMD RS880M AMD SB710 ENE KB926 for Keyboard Controller, Battery management Unit Integrated VGA solution for RS880M / M92M2-XT REALTEK ALC888 for High Definition Audio Code. Atheros AR8131-AL1E for Giga LAN
CPU Package	uPGA-638 package CPU

Processor Specifications

Processor #	CPU Speed	Cores	Bus Speed	Mfg Tech	Cache Size	Package	Core Voltage	Acer P/N
Sempron S142	2.1 GHz		638		512 kB	B1	25 W	KC.SSI02.420
Athlon64 X2 QL62	2.0 GHz		638		1 MB	B1	35 W	KC.AQL02.640
Athlon64 X2 QL64	2.1 GHz		638			B1	35 W	KC.AQL02.640
Turion RM72	2.1 GHz		638		1 MB	B1	35 W	KC.TRM02.720
Turion RM74	2.2 GHz		638		1 MB	B1	35 W	KC.TRM02.740
Turion X2 ZM82	2.2 GHz		638		2 MB	B1	35 W	KC.TZM02.820
Turion X2 ZM84	2.3 GHz		638		2 MB	B1	35 W	KC.TZM02.840
Turion X2 ZM86	2.4 GHz		638		2 MB	B1	35 W	KC.TZM02.860

System Board Major Chips

Item	Specifications
Core logic	<ul style="list-style-type: none"> AMD RS780MN AMD SB700
VGA	<ul style="list-style-type: none"> Integrated VGA solution for RS880M / M92M2-XT
LAN	<ul style="list-style-type: none"> Atheros AR8131-AL1E for Giga LAN
Audio Codec	REALTEK ALC888

CPU Fan True Value Table

CPU Temperature (°C)		Fan Speed (rpm)	SPL Spec (dBA)
Core1	Core 2		
50	50	2800	28
59	59	3100	31
68	68	3400	34
76	76	4000	37
85	85	4500	40

- Throttling 50%: On =95°C; Off=87°C

- OS Shut down: 100°C
- H/W Shut down: 92°C

BIOS ROM

Item	Specification
BIOS Vendor	Phoenix BIOS
BIOS Version	V0.06
BIOS ROM Type	Flash ROM
BIOS ROM Size	1MB
Supported Protocols	SMBIOS 2.3
BIOS Password control	Yes
Features	<ul style="list-style-type: none"> • Support Acer UI • Support multi-boot • Suspend to RAM (S3)/Disk (S4) • Various hot-keys for system control • Support SMBIOS 2.3, PCI2.2 • DMI utility for BIOS serial number configurable/asset tag • Support PXE • Support Win Flash • Wake on LAN from S3 • Wake on LAN form S5 in AC mode • System information

System Memory

Item	Specifications
Memory Controller	Built-in
Memory Size	0MB (no on-board memory)
DIMM socket number	2
Supports Memory size per socket	2GB
Support maximum memory size	4GB
Support DIMM type	DDR II SDRAM
Support DIMM Speed	667/800MHz
Support DIMM voltage	+1.8V
Support DIMM package	200-pin
VGA Memory	64/128/256MB
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	512MB	512MB
0MB	1024MB	1024MB
0MB	2048MB	2048MB
512MB	512MB	1024MB
512MB	1024MB	1536MB
512MB	2048MB	2560MB
1024MB	0MB	1024MB
1024MB	512MB	1536MB
1024MB	1024MB	2048MB
1024MB	2048MB	3072MB
2048MB	0MB	2048MB
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.

Hard Disk Drive Interface

Item	Specifications			
Vendor & Model Name	Hitachi HTS545050B9A300	Hitachi HTS545032B9A300	Hitachi HTS545025B9A300	Hitachi HTS545016B9A300
Capacity (MB)	500	320	250	160
Bytes per sector	512			
Data heads	4	3	2	2
Drive Format				
Disks	2	2	1	1
Spindle speed (RPM)	5400			
Performance Specifications				
Buffer size	8MB			
Interface	SATA			
Internal transfer rate (Mbits/sec, max)	3GB/s maximum			
I/O data transfer rate (Mbytes/sec max)	875 Mbits/s maximum			845 Mbits/s maximum
DC Power Requirements				
Voltage	+5.0V ± 5%.			

Item	Specifications			
Vendor & Model Name	Seagate ST9160310AS	Seagate ST9250315AS	Seagate ST9320320AS	Seagate ST9500325AS
Capacity (MB)	160	250	320	500
Bytes per sector	512	512	512	512
Data heads	2	2	4	4
Drive Format				
Disks	1	1	2	2
Spindle speed (RPM)	5400	5400	5400	5400
Performance Specifications				
Buffer size	8 MB	8 MB	8MB	8 MB
Interface	SATA	SATA	SATA	SATA
Internal transfer rate (Mbits/sec, max)	830	1175	830	1175
I/O data transfer rate (Mbytes/sec max)	875 Mbits/s maximum			845 Mbits/s maximum
DC Power Requirements				
Voltage	+5.0V ± 5%.			

Item	Specifications			
Vendor & Model Name	Toshiba MK1655GSX	Toshiba MK2555GSX	Toshiba MK3255GSX	Toshiba MK5055GSX
Capacity (MB)	160	250	320	500
Bytes per sector	512	512	512	512
Data heads	2	2	4	4
Drive Format				
Disks	1	1	2	2
Spindle speed (RPM)	5400			
Performance Specifications				
Buffer size	8MB			
Interface	SATA			
Internal transfer rate (Mbits/sec, max)	363 - 952 typical			
I/O data transfer rate (Mbytes/sec max)	300			
DC Power Requirements				
Voltage	5V ±5%			

Item	Specifications			
Vendor & Model Name	Western Digital WD1600BEVT-22ZCT0	Western Digital WD2500BEVT-22ZCT0	Western Digital WD3200BEVT-22ZCT0	Western Digital WD5000BEVT-22ZAT0
Capacity (MB)	160	250	320	500
Bytes per sector	512			
Data heads	2	4	3	4
Drive Format				
Disks	1	2	2	2
Spindle speed (RPM)	5400			
Performance Specifications				
Buffer size	8 MB			
Interface	SATA			
Internal transfer rate (Mbits/sec, max)	N/A			
I/O data transfer rate (Mbytes/sec max)	300			
DC Power Requirements				
Voltage	5V ±5%			

Super-Multi Combo Module

Item	Specification			
Vendor & model name	TOSHIBA TS-L633B	SONY AD-7580S	SONY AD-7585H	PLDS DS-8A3S
Performance Specification				
Transfer rate (MB/sec)	10.8	N/A	N/A	N/A
Buffer Memory	2MB	N/A	N/A	2MB
Interface	SATA			
Applicable disc format	DVD+/-RW			
Loading mechanism	Drawer-Type			
Power Requirement				
Input Voltage	DC 5 V +/- 5%			

LCD 14"

Item	Specification			
Vendor/model name	<ul style="list-style-type: none"> Samsung LTN140AT01-G01 AUO B140XW01 LG LP140WH1 CMO N140B6 - L02 			
Screen Diagonal (mm)	355.6 (14.0")			
Display Area (mm)	309.399(H) X 173.952(V)			
Display resolution (pixels)	1366 x 768			
Pixel Pitch	0.2265(H) x 0.2265(V)			
Display Mode	Normally white			
Typical White Luminance (cd/m ²) (also called Brightness)	220 (typ.)			
Contrast Ratio (typical)	500			
Response Time (Optical Rise Time/Fall Time) msec	8 (typ.)			
Input Voltage	3.3V ±0.3V			
Typical Power Consumption (watt)	5W (max.)			
Weight	375g (max.)			
Physical Size (mm)	324.0(H) x 192.5(V) x 5.2(D)			
Electrical Interface	LVDS			
Support Color	262,144			
Viewing Angle (degree)		Min.	Typ.	
	Horizontal	CR => 10	40	45
			40	45
	Vertical		10	15
	25		30	
Temperature Range (°C)	0 to 50°C			
Operating	-20 to 60°C			
Storage (shipping)	-20 to 60°C			

VGA Graphic Controller

Item	Specification
Type	AMD M92XT
Manufacturing Tech.	55 nm
Form Factor	29mm*29mm
Package	M2

Keyboard

Item	Specification
Keyboard Controller	ENE KB926
Total number of keypads	86-/87-/91-key keyboard
Windows logo key	Yes
Internal & external keyboard work simultaneously	Yes

Audio Interface

Item	Specification
Audio Controller	Realtek ALC888 Azalia Codec
Features	<ul style="list-style-type: none">• HD Audio• 97dB SNR DACs & 90dB SNR ADCs• Ten DAC channels support 16/20/24-bit PCM format for 7.1 sound playback, plus 2channels of independent stereo sound output (multiple streaming) through the front panel output• Two stereo ADCs support 16/20/24-bit PCM format, one for stereo microphone, one for legacy mixer recording• All DACs supports 44.1k/48k/96k/192kHz sample rate• All ADCs support 44.1k/48k/96k sample rate• Two independent 16/20/24-bit S/PDIF-OUT converters support 44.1k/48k/96k/192kHzsample rate, one for nominal digital audio, the other one for digital audio output to HDMI transmitter• Enable VoIP function• Subwoofer support

LAN

Item	Specification
Type	Atheros AR8131-AL1E for Giga LAN
Features	

Bluetooth

Item	Specification
Type	Foxconn Bluetooth FOX_BRM_2.0 F/W 300
Supported Protocols	1.1, 1.2 & 2.0 + EDR (Extended Data Rate)
Transfer Rate (max.)	3.0Mbps

Finger Print Reader

Item	Specification
Type	Authentec AES1610
Power	3.0V – 3.6V single supply
Detection Matrix	<ul style="list-style-type: none">• 128 x 8 pixels @ 500 ppi• 6.5mm x 0.41mm array size
Features	<ul style="list-style-type: none">• Advanced security• Next generation anti-spoofing protection• Fast Finger Motion Capture• TPM v1.2 support• Graphical or scroll navigation• Unequaled “ability to acquire”

WLAN

Item	Specification
Vendor and Model	Foxconn Atheros AR5B91
Antenna	PIFA

Battery

Item	Specifications (3S2P)
Vendor & model name	<ul style="list-style-type: none">• SONY AS-2007A• Panasonic AS-2007A• Simplo AS-2007A• Sanyo AS-2007A
Battery Type	Li-ion
Pack capacity	4400 mAh
Number of battery cell	6
Package configuration	3S2P

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.

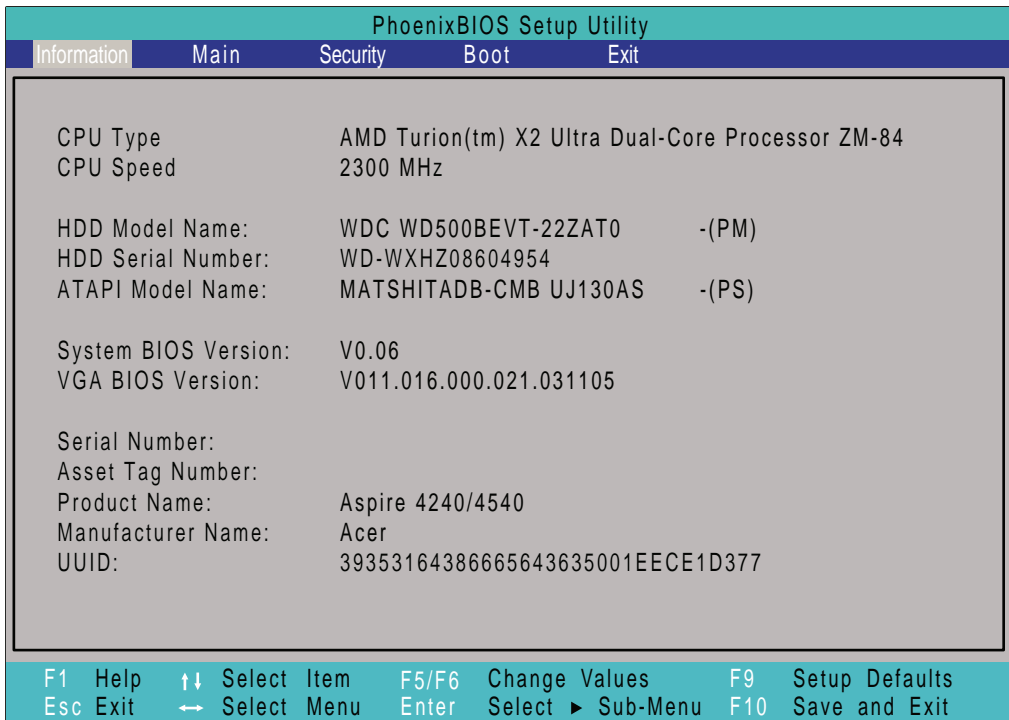
Follow these instructions:

- 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.

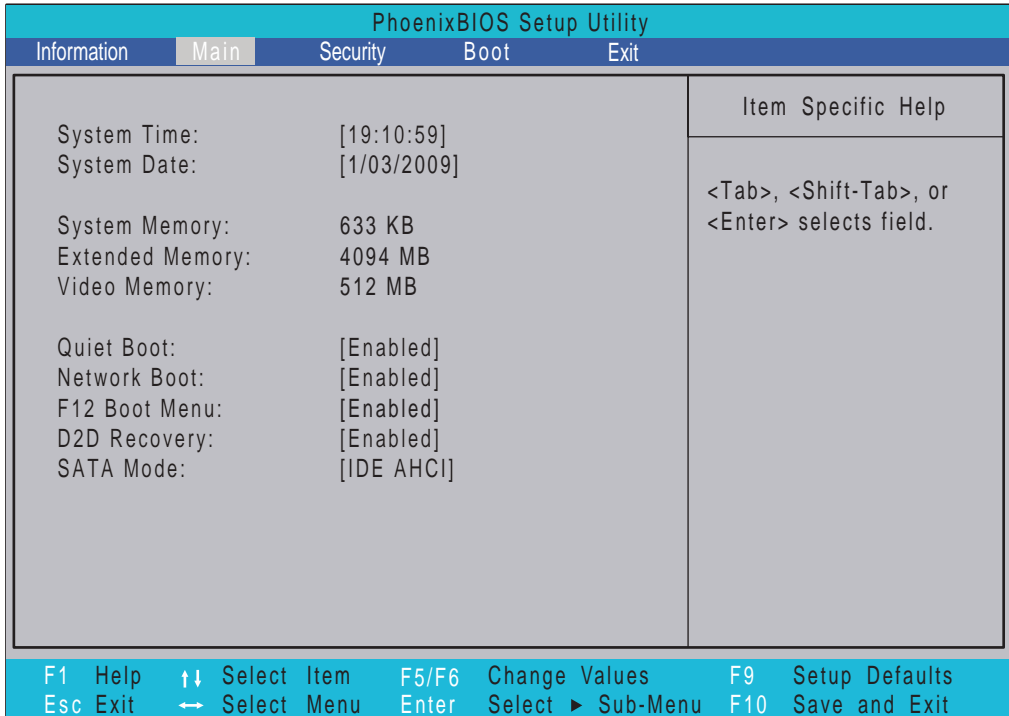


NOTE: The system information is subject to different models.

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.
HDD Model Name	This field shows the model name of HDD installed on primary IDE master.
HDD 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.
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.



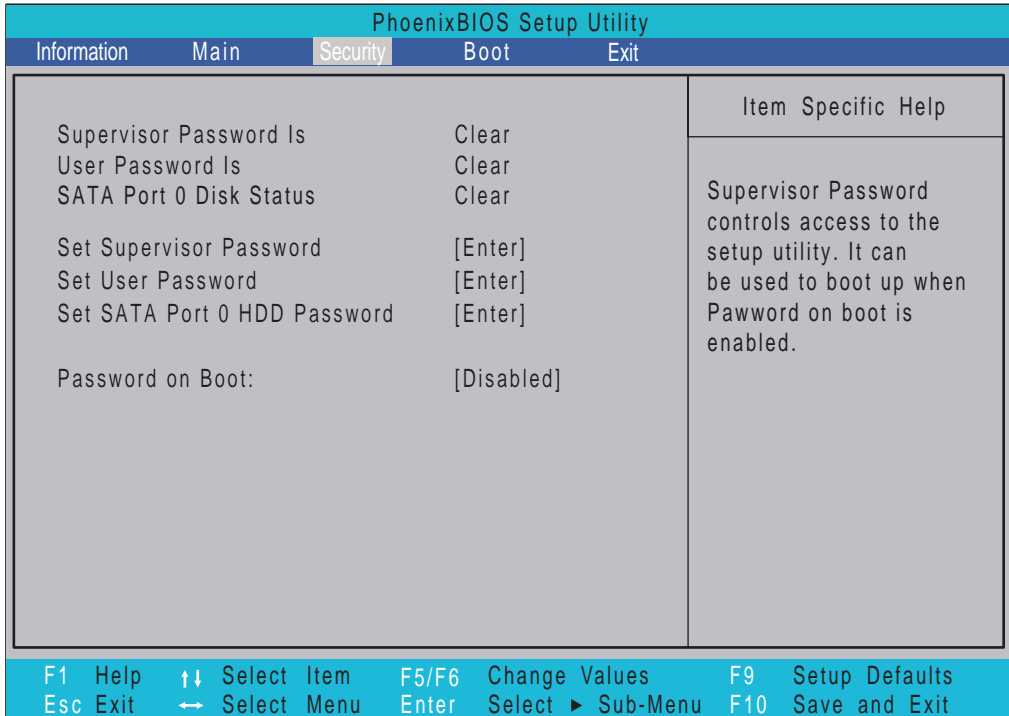
NOTE: The screen above is for your reference only. Actual values may differ.

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 Date	Sets the system date.	Format MM/DD/YYYY (month/day/year)
System Memory	This field reports the system memory size. Memory size is fixed to 633 MB.	N/A
Extended Memory	This field reports the extended memory size. Memory size is fixed to 4094 MB.	N/A
Video Memory	This field reports the video Memory size.	N/A
Quick Boot	Enables the boot sequence to skip some processes to boot up more quickly.	Option: Enabled or Disabled
Network Boot	Enables, disables the system boot from LAN (remote server).	Option: Enabled or Disabled
F12 Boot Menu	Enables or disables the Press <F12> to display boot menu message during startup.	Option: Enabled or Disabled
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: ACHI or IDE

Security

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



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

NOTE: 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.

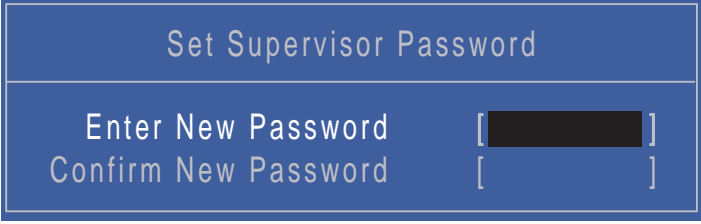
Parameter	Description	Option
Supervisor Password Is	Shows the setting of the Supervisor password	Clear or Set
User Password Is	Shows the setting of the user password.	Clear or Set
SATA Port 0 Disk Status	Shows the setting of the hard disk password.	Clear, Set, or Frozen
Set Supervisor Password	Press 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.	N/A
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 cannot change parameters.	N/A
Set Hdd Password	Press Enter to set the Hdd password. When Hdd password is set, this password protects the Hdd from unauthorized access.	N/A
Power on password	Defines whether a password is required or not while the system powers on.	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 ↑ and ↓ keys to highlight the Set Supervisor Password parameter and press the **Enter** key. The Set Supervisor Password box appears:



The screenshot shows a blue BIOS screen titled "Set Supervisor Password". Below the title, there are two input fields: "Enter New Password" and "Confirm New Password". The "Enter New Password" field contains a blacked-out password, and the "Confirm New Password" field is empty.

2. Type a password in the "Enter New Password" field. The password length can not exceed 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 **Enter**. 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 F10 to save the changes and exit the BIOS Setup Utility.

Removing a Password

Follow these steps:

1. Use the ↑ and ↓ keys to highlight the Set Supervisor Password parameter and press the **Enter** key. The Set Password box appears:



The screenshot shows a blue BIOS screen titled "Set Supervisor Password". Below the title, there are three input fields: "Enter Current Password", "Enter New Password", and "Confirm New Password". The "Enter Current Password" field contains a blacked-out password, while the other two fields are empty.

2. Type the current password in the Enter Current Password field and press **Enter**.
3. Press **Enter** 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

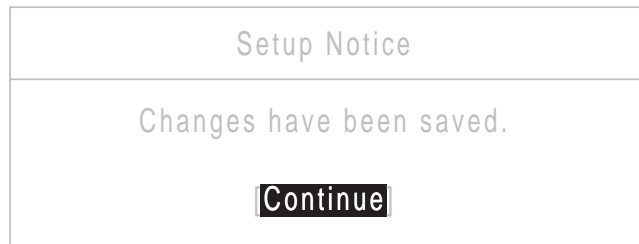
1. Use the ↑ and ↓ keys to highlight the Set Supervisor Password parameter and press the **Enter** key. The Set Password box appears.



The screenshot shows a blue-themed BIOS screen titled "Set Supervisor Password". Below the title, there are three input fields, each with a label and a pair of square brackets: "Enter Current Password", "Enter New Password", and "Confirm New Password". The first field contains a blacked-out password.

2. Type the current password in the Enter Current Password field and press **Enter**.
3. Type a password in the Enter New Password field. Retype the password in the Confirm New Password field.
4. Press **Enter**. 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 F10 to save the changes and exit the BIOS Setup Utility.

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



The screenshot shows a white BIOS screen titled "Setup Notice". Below the title, the text "Changes have been saved." is displayed. At the bottom, the word "Continue" is highlighted with a black background and white text.

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

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



The screenshot shows a white BIOS screen titled "Setup Warning" in red text. Below the title, the text "Invalid Password." is displayed in red. At the bottom, the word "Continue" is highlighted with a black background and white text.

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



The screenshot shows a white BIOS screen titled "Setup Warning" in red text. Below the title, the text "Passwords do not match. Re-enter password." is displayed in red. At the bottom, the word "Continue" is highlighted with a black background and white text.

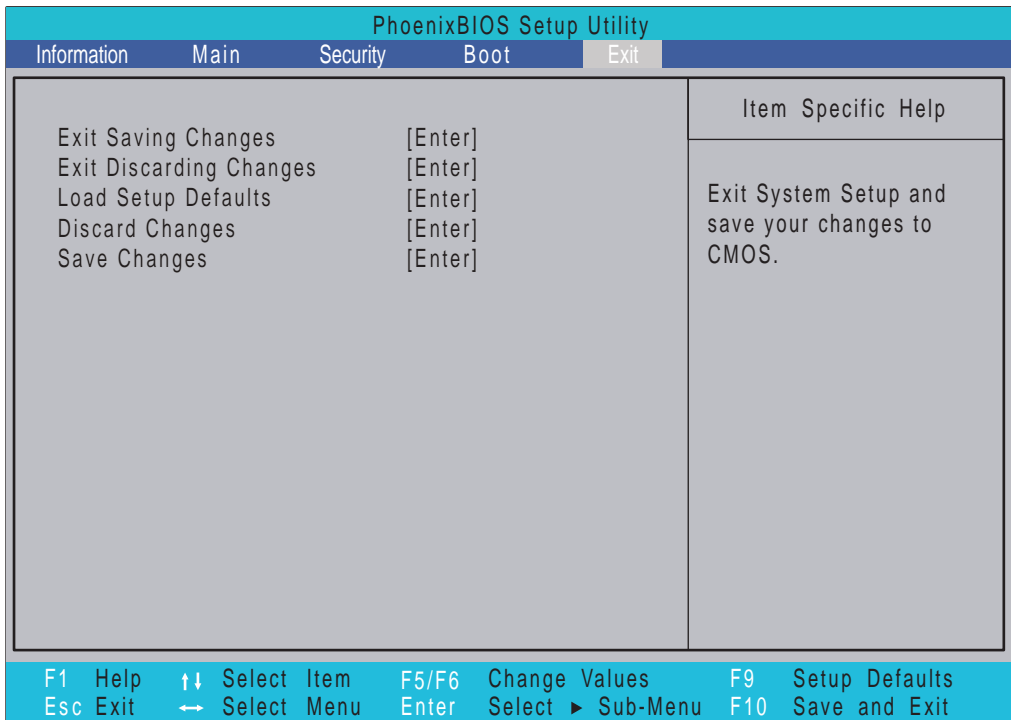
Boot

This menu allows the user to decide the order of boot devices to load the operating system. Bootable devices includes the USB diskette drives, the onboard hard disk drive and the DVD drive in the module bay.

PhoenixBIOS Setup Utility				
Information	Main	Security	Boot	Exit
Boot priority order: 1: IDE0: WDC WD5000BEVT-22ZAT0-(S1) 2: IDE1: MATSHITABD-CMB UJ130AS-(S2) 3: USB FDD: 4: Network boot: Atheros Boot Agent 5: USB HDD: 6: USB KEY: 7: USB CD/DVD ROM:			Item Specific Help	
Use <↑> or <↓> to select a device, then press <F6> to move it up the List, or <F5> to move it down the list. Press <Esc> to escape the menu.				
F1 Help	↑↓ Select Item	F5/F6 Change Values	F9 Setup Defaults	
Esc Exit	← Select Menu	Enter Select ► Sub-Menu	F10 Save and Exit	

Exit

The Exit screen allows you to save or discard any changes you made and quit the BIOS Utility.



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 Utilities

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

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

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

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

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

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

Follow the steps below to run the Phlash.

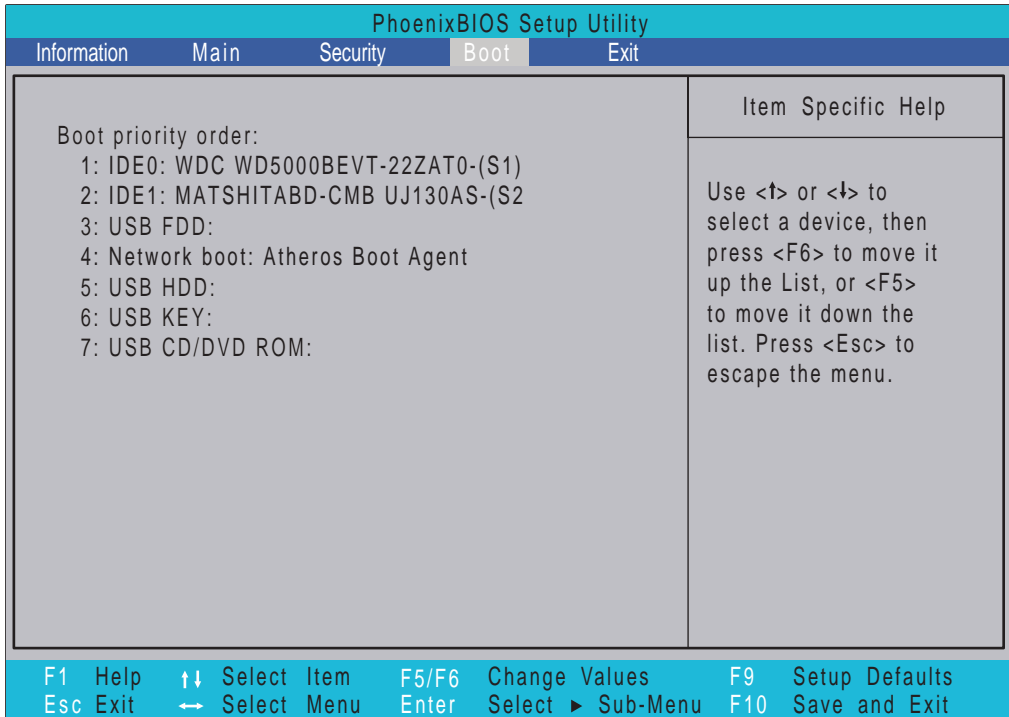
1. Prepare a bootable diskette.
2. Copy the flash utilities to the bootable diskette.
3. Then boot the system from the bootable diskette. The flash utility has auto-execution function.

DOS Flash Utility

Perform the following steps to use the DOS Flash Utility:

Perform the following steps to use the DOS Flash Utility:

1. Press F2 during boot to enter the Setup Menu.
2. Select **Boot Menu** to modify the boot priority order, for example, if using USB HDD to Update BIOS, move USB HDD to position 1.



3. Execute the **KBYF010.BAT** batch file to update BIOS.

The flash process begins as shown.

```
C:\KBVYF010A>dir

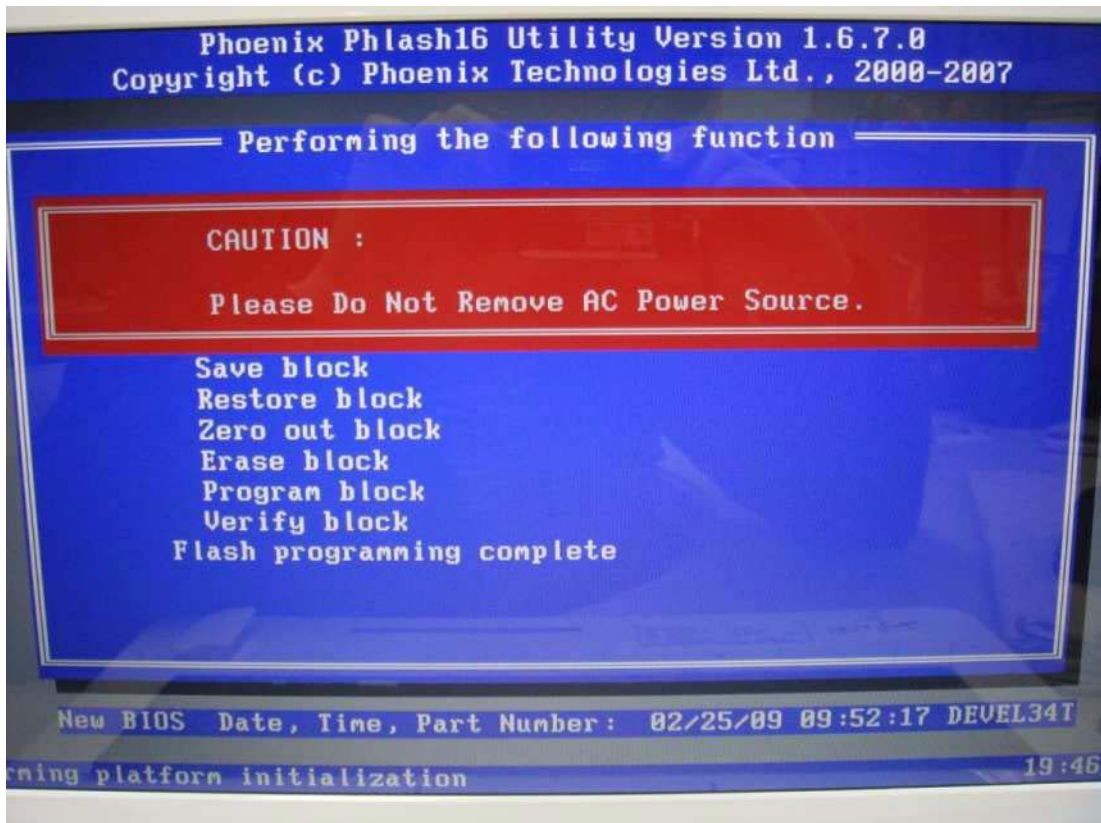
Volume in drive C is JILL_FLASH
Volume Serial Number is BEF9-9161
Directory of C:\KBVYF010A

.                <DIR>                03-02-09   10:43
..               <DIR>                03-02-09   10:43
GETKBLG00  BAT                24         02-24-09   20:57
GETKBYF00  BAT                24         02-24-09   20:57
GETROM     EXE           49,788     09-22-08   17:28
KBVYF010   BAT                237        02-24-09   20:58
PHLASH16   EXE          125,063    05-01-07   4:01
PROJCHK1   EXE           1,072     12-16-08   10:43
KBLG009    WPH          1,054,518  02-25-09   9:52
KBVYF010   WPH          1,054,518  02-25-09   9:52
RELEASE    TXT           50,156     02-25-09   10:45
          9 file(s)        2,335,400 bytes
          2 dir(s)      3,544,195,072 bytes free

C:\KBVYF010A>kbyf010
```

4. In flash BIOS, the message **Please do not remove AC Power Source** displays.

NOTE: If the AC power is not connected, the following message displays.



Plug in the AC power to continue.

- Flash is complete when the message Flash programming complete displays.



WinFlash Utility

Perform the following steps to use the WinFlash Utility:

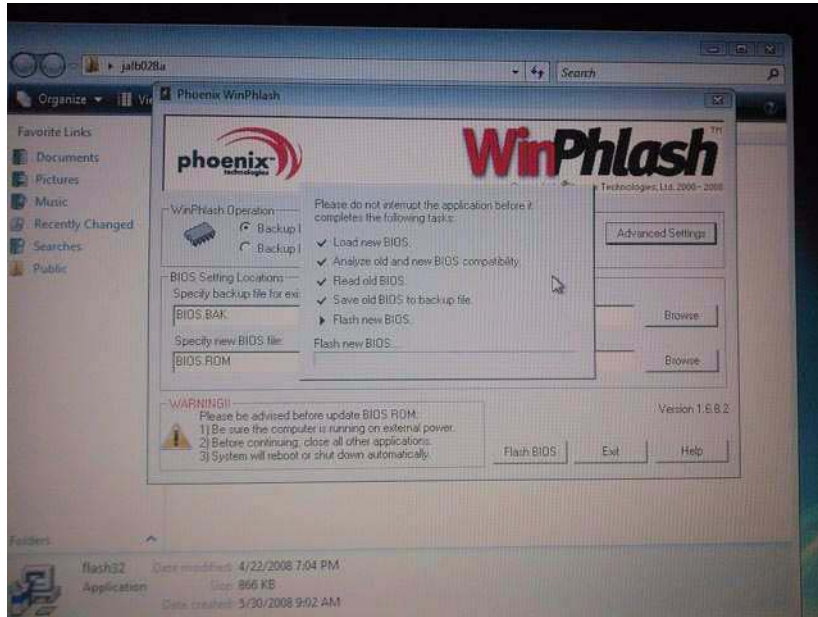
- Double-click the WinFlash executable. Click **Start**.



- Make sure that AC power is plugged in and click **OK** to begin the update.



A progress screen displays.

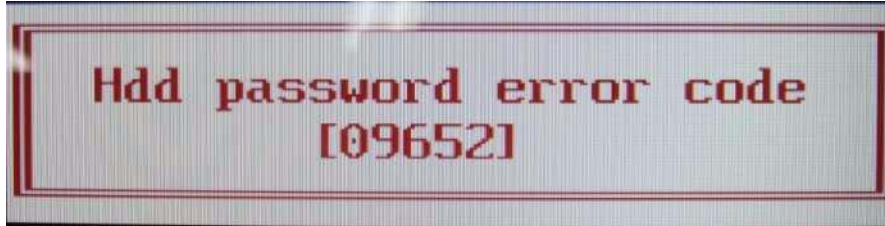


Remove HDD/BIOS Password Utilities

This section provide you with removing HDD/BIOS method:

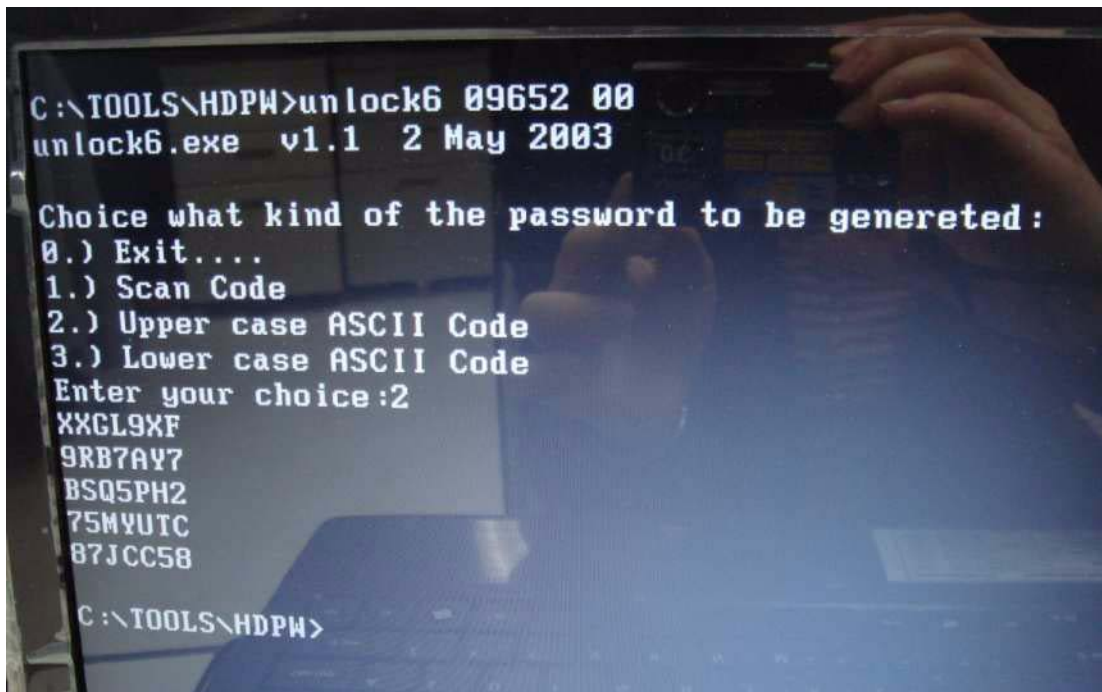
Remove HDD Password:

If you key in the wrong HDD password three times, an error is generated along with an error code. Note down this code.



To reset the HDD password, perform the following steps:

1. In DOS mode, use the code generated previously to execute the command **Unlock6.exe 09652 00** and then select option **2** to get the password. Note down the password, e.g.: **XXGL9XF**



2. Shut down the computer by holding down the Power button for 4 seconds.
3. Power on the computer and input the HDD password from previous steps to unlock the HDD.

Removing BIOS Passwords:

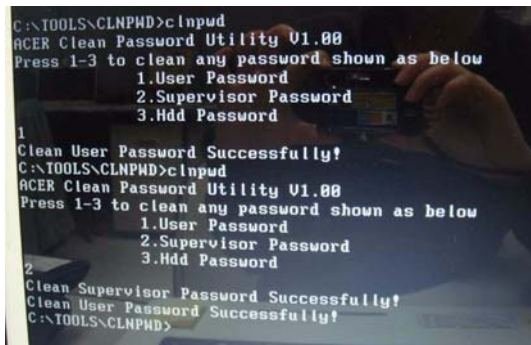
To clear the User or Supervisor passwords, open the RAM door and use a metal instrument to short the RST_RTC jumper.



Cleaning BIOS Passwords

To clear the password, perform the following steps:

1. From a DOS prompt, Execute **clnpwd.exe**



2. Press 1 or 2 to clean the desired password shown on the screen.

The onscreen message determines whether the function is successful or not.

Miscellaneous Utilities

Using Boot Sequence Selector

Boot Sequence Selector allows the boot order to be changes without accessing the BIOS. To use Boot Sequence Selector, perform the following steps:

1. Enter into DOS.
2. Execute **BS.exe** to display the usage screen.

```
d:\BOOTSEQ>bs
*** Boot Sequence Selector Version 0.03 ***
Create by Rockwell Chuang 10/01/2005.

Usage:
    BS [ 1 | 2 | 3 | 4 ]

BS 1 : [ Floppy ] => [ HardDisk ] => [ CD-ROM ] => [ LAN ]
BS 2 : [ HardDisk ] => [ CD-ROM ] => [ LAN ] => [ Floppy ]
BS 3 : [ CD-ROM ] => [ HardDisk ] => [ LAN ] => [ Floppy ]
BS 4 : [ LAN ] => [ Floppy ] => [ HardDisk ] => [ CD-ROM ]

d:\BOOTSEQ>
```

3. Select the desired boot sequence by entering the corresponding sequence, for example, enter **BS2** to change the boot sequence to HDD|CD ROM|LAN|Floppy.

Using DMITools

The DMI (Desktop Management Interface) Tool copies BIOS information to eeprom to be used in the DMI pool for hardware management.

When the BIOS displays **Verifying DMI pool data** it is checking the table correlates with the hardware before sending to the operating system (Windows, etc.).

To update the DMI Pool, perform the following steps:

1. Enter into DOS.
2. Execute **dmitools**. The following messages show dmitools usage:
 - `dmitools /r ==>` Read dmi string from memory
 - `dmitools /wm xxxx ==>` Write manufacturer name to EEPROM (max. 16 characters)
 - `dmitools /wp xxxx ==>` Write product name to EEPROM (max. 16 characters)
 - `dmitools /ws xxxx ==>` Write serial number to EEPROM (max. 22 characters)
 - `dmitools /wu xxxx ==>` Write uuid to EEPROM (Ignore String)
 - `dmitools /wa xxxx ==>` Write asset tag to EEPROM (max. 32 characters)

NOTE: The following write examples (2 to 5) require a system reboot to take effect

Example 1: Read DMI Information from Memory

Input:

```
dmitools /r
```

Output:

```
Manufacturer (Type1, Offset04h): Acer
Product Name (Type1, Offset05h): TravelMate xxxxx
Serial Number (Type1, Offset07h): 01234567890123456789
UUID String (Type1, Offset08h): xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx
```

Asset Tag (Type3, Offset04h): Acer Asstag

Example 2: Write Product Name to EEPROM

Input:

```
dmitools /wp AspireXXXX
```

Example 3: Write Serial Number to EEPROM

Input:

```
dmitools /ws 01234567890123456789
```

Example 4: Write UUID to EEPROM

Input:

```
dmitools /wu
```

Example 5: Write Asset Tag to EEPROM

Input:

```
dmitools /wa Acer Asstag
```

Using the LAN MAC EEPROM Utility

You can use the MAC.BAT utility to write the MAC.CFG file to the EEPROM under DOS mode.

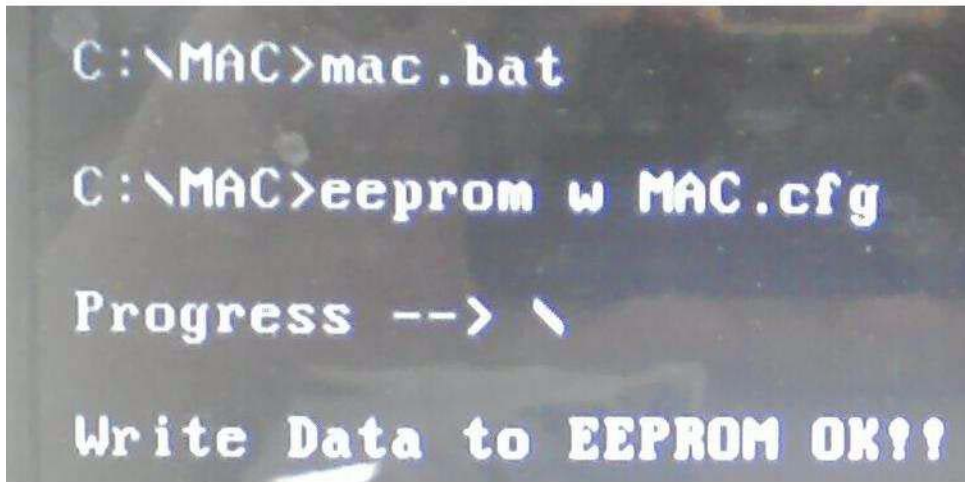
1. Use a text editor (for example: Notepad) to open the MAC.CFG file. You can see the MAC.CFG contents as below:



```
MAC.CFG - 記事本
檔案(F) 編輯(E) 格式(O) 檢視(V) 說明(H)
Title= MAC Address byte
WriteData='001122334455'
StartAddr=7A
WriteLeng=6
KeepByte=0
```

WriteData = '001122334455'	MAC value
StartAddr=7A	MAC address
WriteLeng=6	MAC value length
KeepByte=0	don't care

-
2. In DOS mode, run the **MAC.BAT** file to write MAC values to eeprom.



```
C:\MAC>mac.bat  
C:\MAC>eeprom w MAC.cfg  
Progress --> \  
Write Data to EEPROM OK!!
```

Machine Disassembly and Replacement

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

NOTE: Some components may differ in appearance from those shown in the photographs in this chapter.

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
- 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.

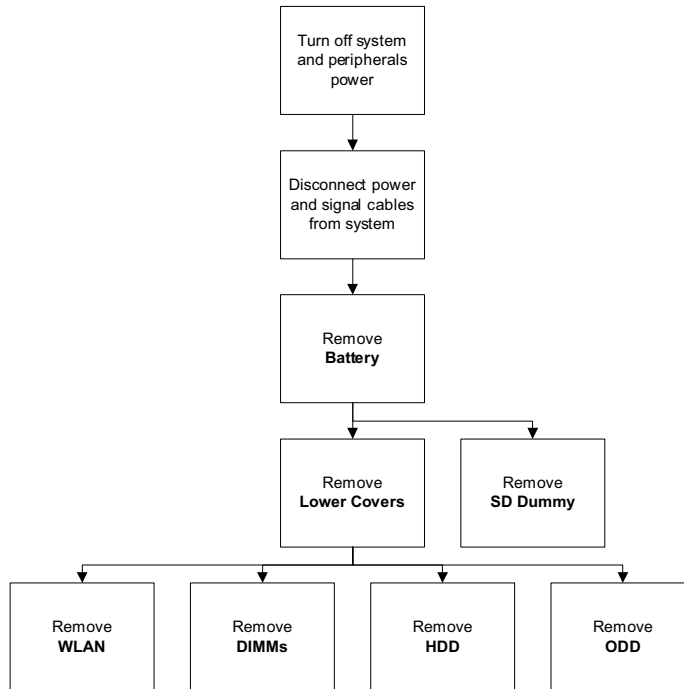
Main Screw List

Description	Quantity	Acer P/N
M1.98D 3.0L K 4.6D 0.8T ZK	21	86.PAA02.001
M2.46D 3.0L K 5.5D 0.8T ZK	11	86.PAA02.002
M2.5D 5L K 5.5D ZK NL CR3	21	86.PAA02.003
M2.5D 10.0L K 5.5D ZK NL CR3	12	86.PAA02.004
M3.0D 3.0L K 4.9D NI	4	86.PAA02.006
M2.5D 3.2L K 6D NI	4	86.PAA02.007

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.



Screw List

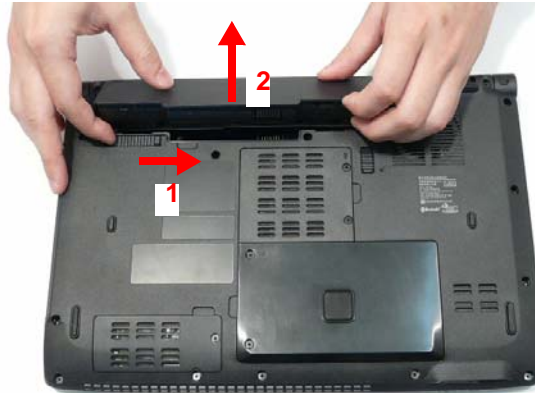
Step	Screw	Quantity	Part No.
WLAN Module	M2*3	2	86.PAA02.001
HDD Carrier	M3*3	4	86.PAA02.006
ODD Module	M2.5*5	1	86.PAA02.003
ODD Bracket	M2*3	2	86.PAA02.001

Removing the Battery Pack

1. Turn computer 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 lift 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.

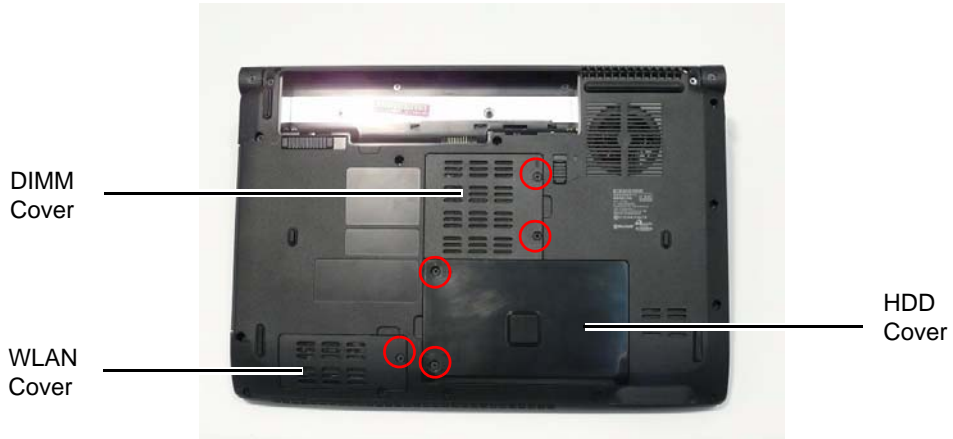


2. Pull it out from the slot.

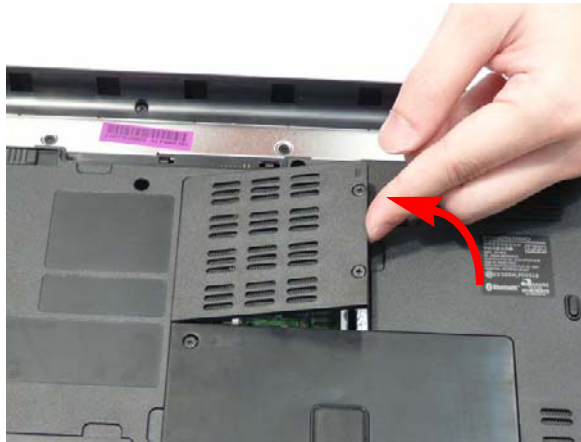


Removing the Lower Covers

1. See "Removing the Battery Pack" on page 44.
2. Loosen the five captive screws in the covers as shown.



3. Remove the DIMM Cover as shown.



4. Remove the WLAN Cover as shown.



5. Remove the HDD Cover as shown.



Removing the WLAN Module

1. See “Removing the Lower Covers” on page 46.
2. Remove the adhesive tape securing the Antenna cables in place.




3. Disconnect the two Antenna cables from the WLAN Module.

NOTE: The white Antenna cable connects to the upper **J2** terminal and the black Antenna cable to the lower **J3** terminal.



4. Remove the two screws securing the WLAN Module to the Lower Cover.



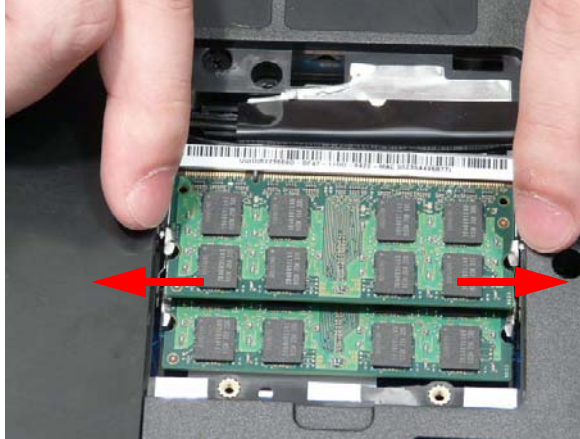
Step	Size	Quantity	Screw Type
WLAN Module	M2*3	2	

5. Remove the WLAN Module as shown.



Removing the DIMM Modules

1. See “Removing the Lower Covers” on page 46.
2. Push out the release latches on both sides of the DIMM socket to release the DIMM module.



3. Remove the DIMM module.



4. Repeat steps for the second DIMM module.

Removing the Hard Disk Drive Module

1. See “Removing the Lower Covers” on page 46.
2. Hold the Pull Tab and slide the HDD away from the connector.




3. Lift the HDD up as shown to remove.



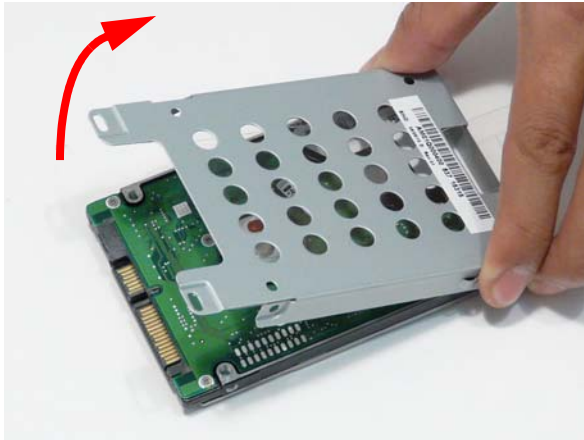
NOTE: To prevent damage to HDD, avoid pressing down on it or placing heavy objects on top of it.

4. Remove the four screws (two each side) securing the HDD to the carrier.



Step	Size	Quantity	Screw Type
HDD Carrier	M3*3	4	


5. Lift the HDD carrier to remove.



Removing the Optical Disk Drive Module

1. See "Removing the Lower Covers" on page 46.
2. Remove the single screw securing the ODD module in place.




Step	Size	Quantity	Screw Type
ODD Module	M2.5*5	1	

3. Insert a suitable plastic tool as shown and push the ODD Module out of the bay.

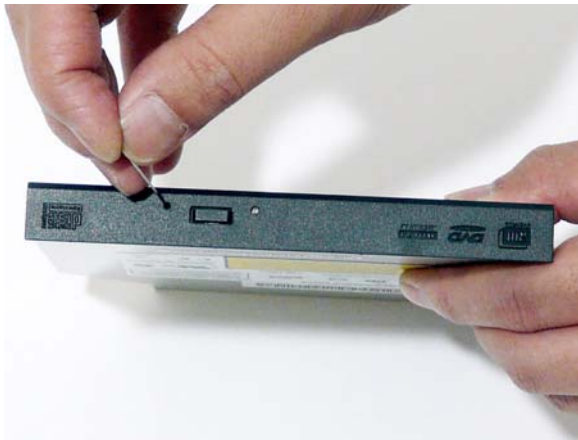


4. Remove the two screws securing the ODD bracket and remove the ODD bracket from the optical disk drive module.

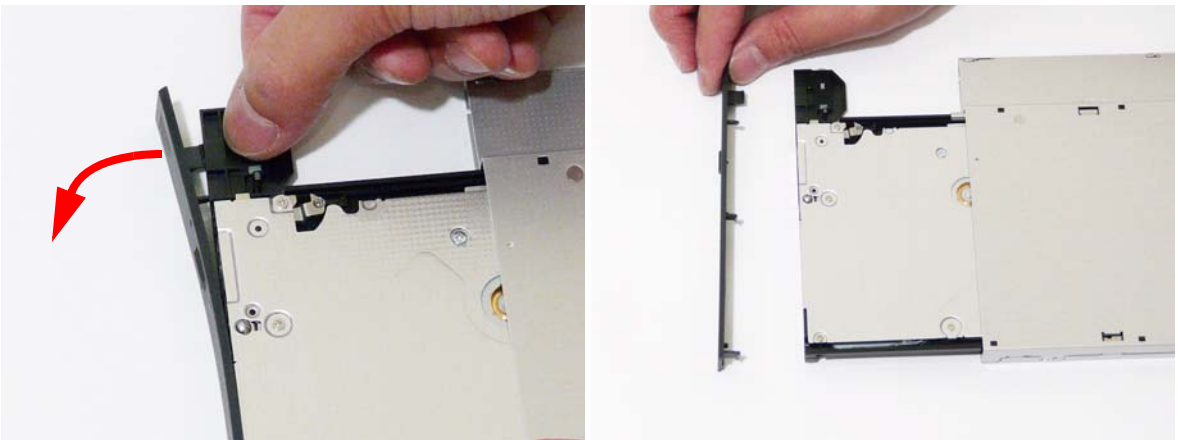


Step	Size	Quantity	Screw Type
ODD Bracket	M2*3	2	

5. Insert a pin in the eject hole of the ODD to eject the ODD tray.

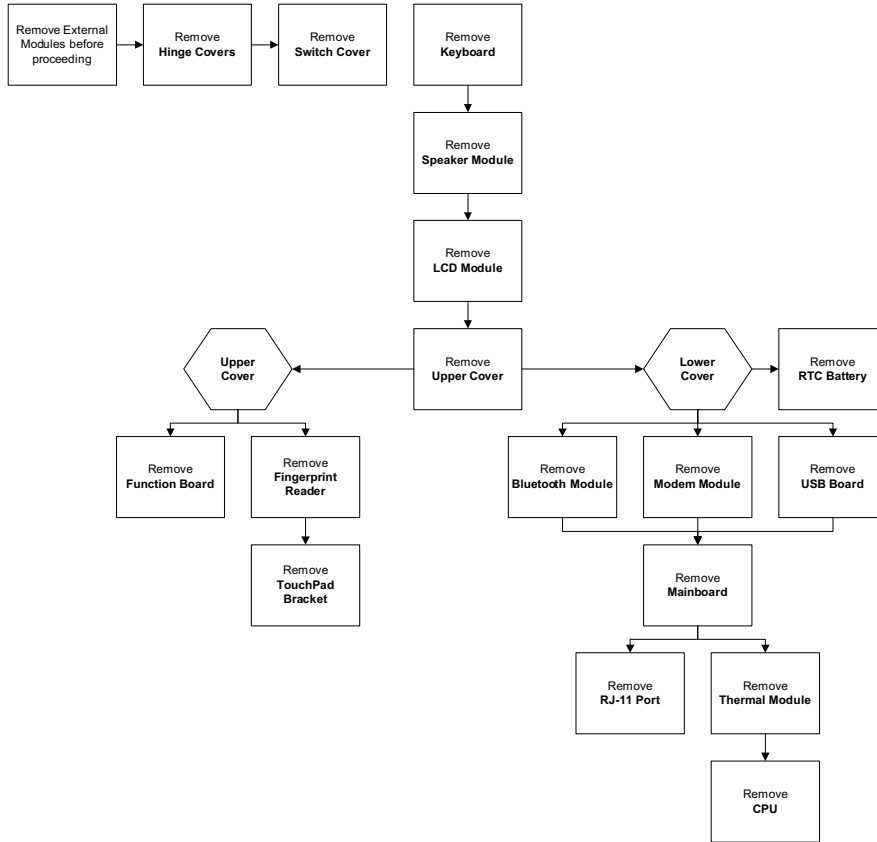


6. Press down on the locking catch to release the ODD cover and remove.



Main Unit Disassembly Process

Main Unit Disassembly Flowchart




Screw List

Step	Screw	Quantity	Part No.
Hinge Covers	M2*3	2	86.PAA02.001
Switch Cover	M2.5*3	4	86.PAA02.002
	M2.5*10	2	86.PAA02.004
Speaker Module	M2.5*3	2	86.PAA02.002
LCD Module	M2.5*5	6	86.PAA02.003
Upper Cover	M2.5*10	10	86.PAA02.004
	M2.5*5	6	86.PAA02.003
	M2.5*3	1	86.PAA02.002
Finger Print Reader	M2*3	1	86.PAA02.001
TouchPad Bracket	M2*3	2	86.PAA02.001
Bluetooth Module	M2*3	1	86.PAA02.001
USB Board	M2.5*3	1	86.PAA02.002
Modem Module	M2*3	2	86.PAA02.001
Mainboard	M2.5*3	1	86.PAA02.002
Thermal Module	M2.5*3.2	4	86.PAA02.007

Removing the Hinge Covers

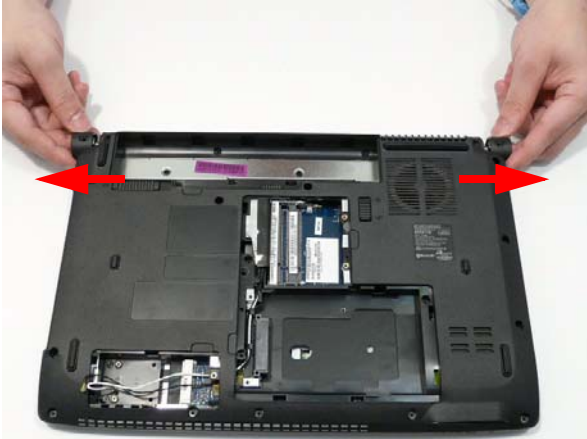
- 1. See "Removing the Battery Pack" on page 44.
- 2. Remove the two screw caps and screws from the Hinge Covers.



Step	Size	Quantity	Screw Type
Hinge Covers	M2*3	2	

- 3. Slide the covers off the hinges in the direction of the arrows.

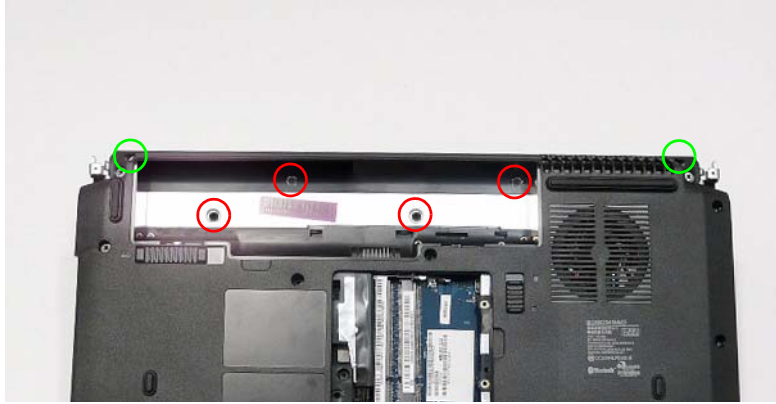
IMPORTANT: The left and right Hinge Covers are shaped differently and marked **L** and **R** on the inside. Ensure that the correct cover is used during reassembly.





Removing the Switch Cover

CAUTION: Using metal tools to remove the Switch Cover may cause damage to the outer casing. It is recommended that only fingers or a plastic pry are used to remove the Switch Cover.

1. See "Removing the Battery Pack" on page 44.
2. See "Removing the Hinge Covers" on page 56.
3. Locate and remove the six securing screws on the bottom of the computer.



Step	Size	Quantity	Screw Type
Switch Cover (red callout)	M2.5*3	4	
Switch Cover (green callout)	M2.5*10	2	

4. Turn the computer over and open the LCD module to expose the Switch Cover.

IMPORTANT: The LCD module does not fully extend. Damage will occur if you attempt to extend the LCD module beyond the manufacturer's design.

5. Lift the left side of Switch Cover, hinge cover first as shown.



6. Lift the left side of the Switch Cover away from the Upper Cover as shown.



7. Using a side-to-side motion to release the securing clips along the length of the Switch Cover, lift the cover away from the computer.



8. Lift the Switch Cover clear of the chassis.

Removing the Keyboard

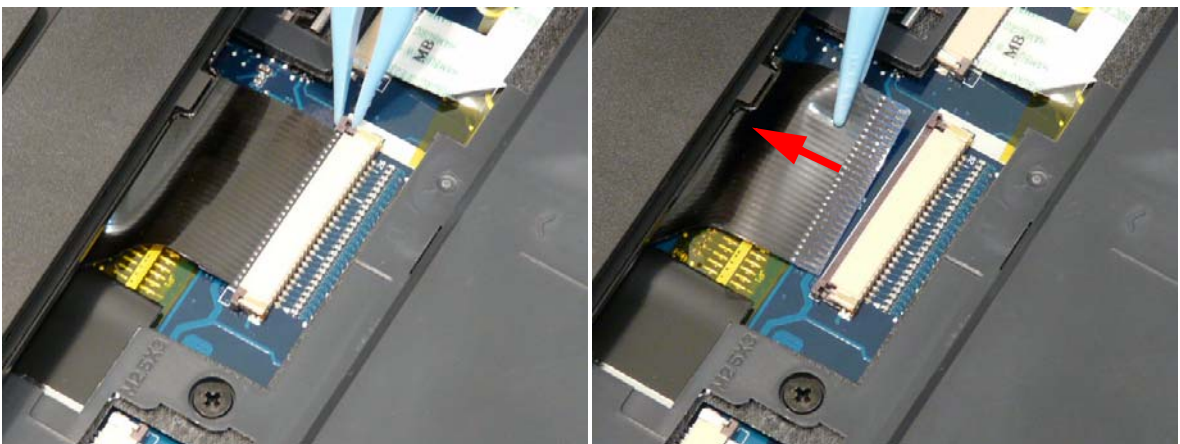
1. See “Removing the Switch Cover” on page 57.
2. Lift the keyboard from the center to clear the securing tabs on both sides of the Keyboard.



3. Push the Keyboard toward the LCD screen to expose the Keyboard FFC cable.



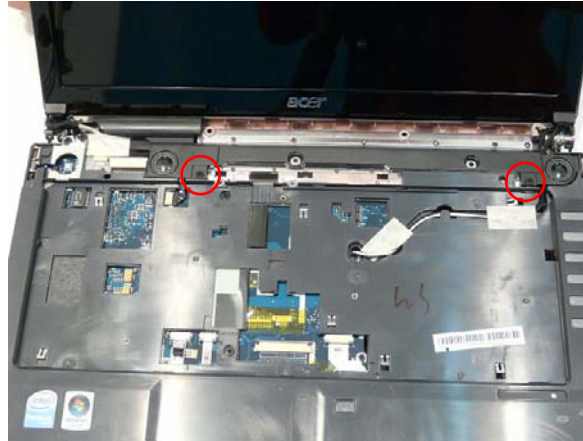
4. Unlock the connector and pull the FFC to remove it from the Mainboard.




5. Remove the keyboard from the Upper Cover.

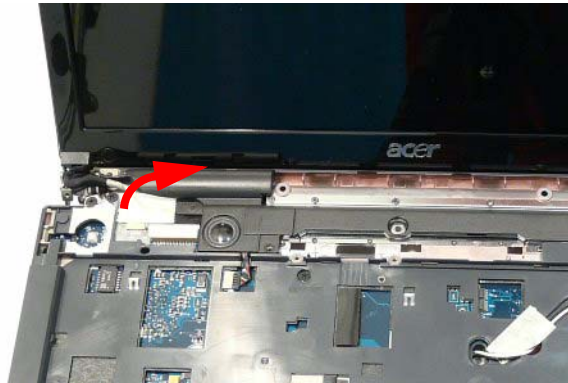
Removing the Speaker Module

1. See "Removing the Keyboard" on page 59.
2. Remove the two securing screws from the Speaker Module.



Step	Size	Quantity	Screw Type
Speaker Module	M2.5*3	2	

3. Remove the adhesive tape securing the LCD cables to the Speaker Module.

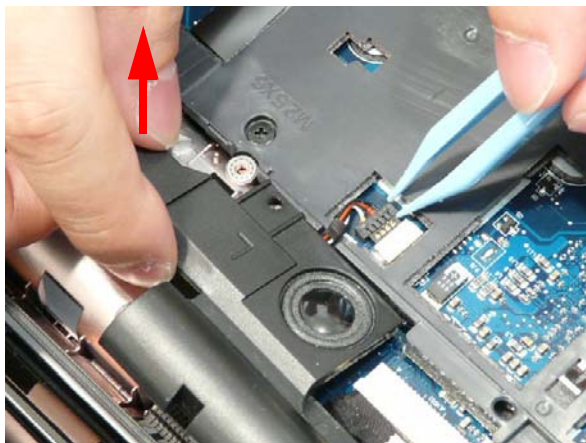


IMPORTANT: Do not remove the Speaker from the Upper Cover; the Speaker cable is attached to the Mainboard.

4. Rotate the Speaker Module upward, rear edge first to clear the LCD cables, and remove it from the chassis.

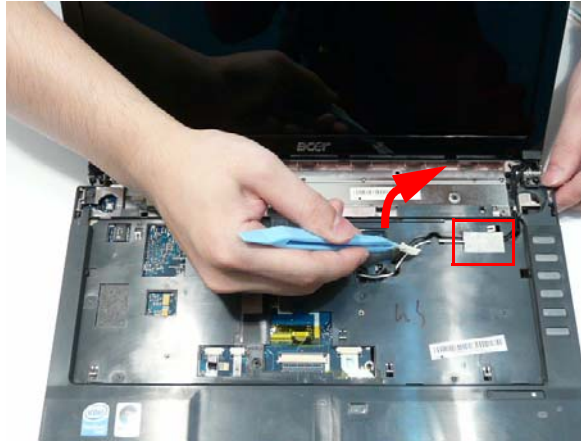


5. Disconnect the speaker cable as shown and remove the Speaker from the Upper Cover.




Removing the LCD Module

1. See "Removing the Speaker Module" on page 60.
2. Remove the adhesive tapes securing the Antenna cables to the Upper Cover.

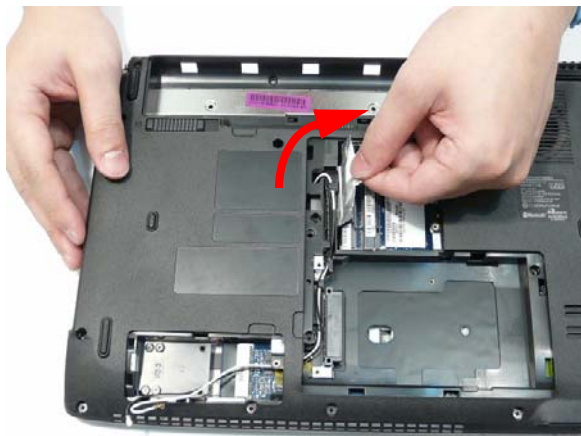


3. Turn the computer over. Remove the two securing screws as shown.

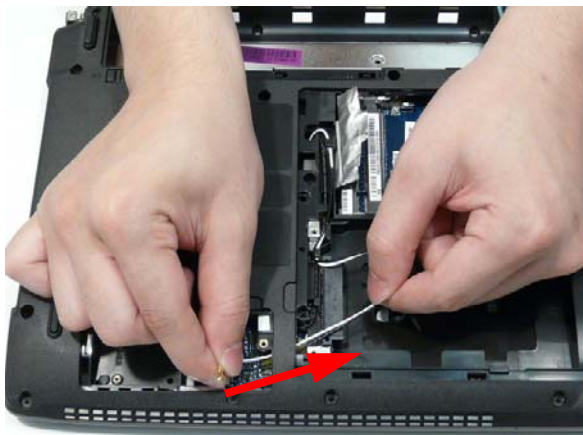


Step	Size	Quantity	Screw Type
LCD Module	M2.5*5	2	

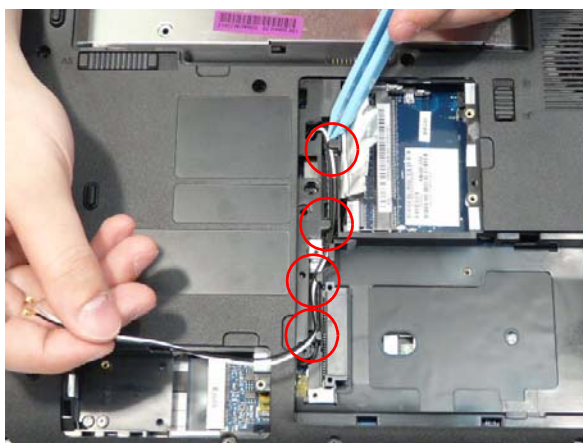
4. Lift the securing tape to expose the Antenna cable as shown.



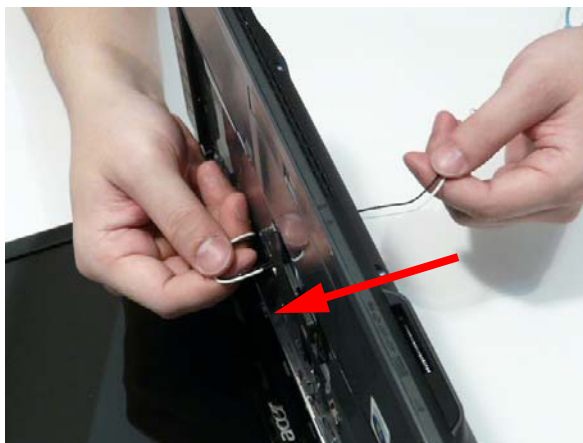
5. Push the Antenna cables through the casing as shown.



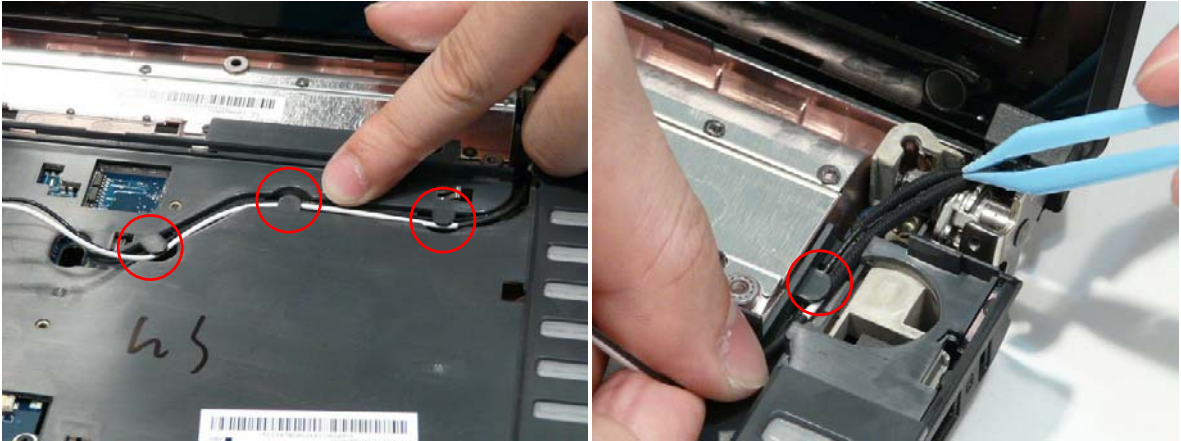
6. Remove the Antenna cables from the cable channel. Ensure that the cables are free from all cable clips.



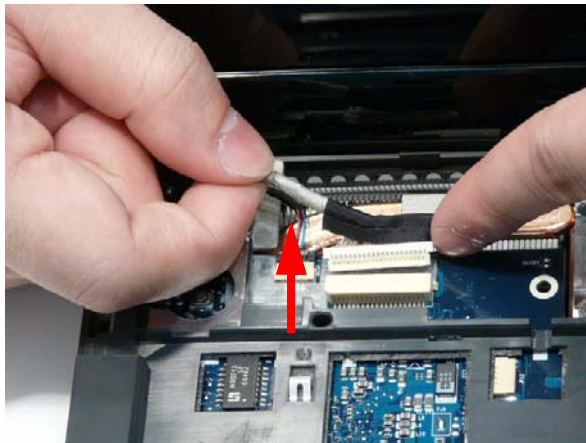
7. Rest the computer on the LCD Module and push the Antenna cables through the covers as shown.



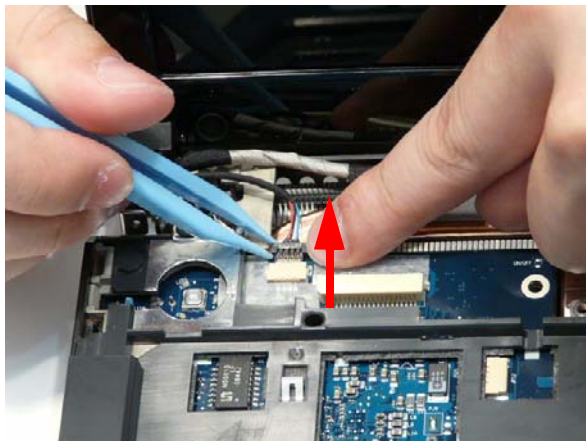
8. Remove the Antenna cables from the cable channel. Ensure that the cables are free from the cable clips all the way to the hinge well.



9. Disconnect the LVDS cable from the Mainboard as shown.




10. Disconnect the Microphone cable from the Mainboard as shown.

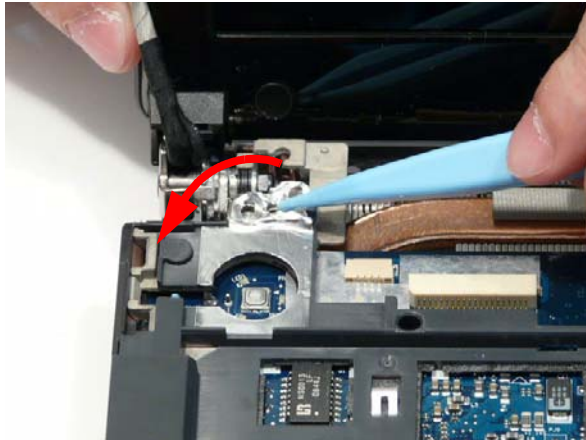


11. Remove the two securing screws from the left LCD hinge.

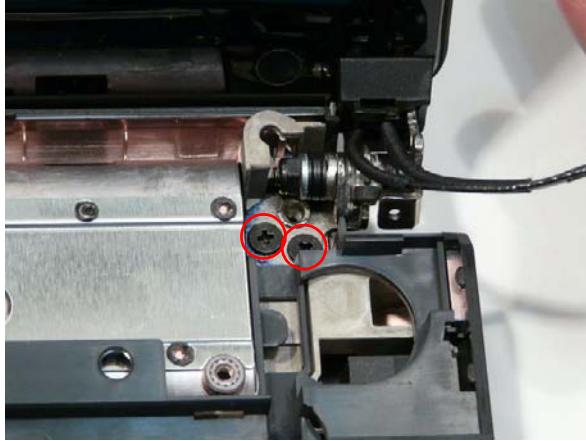



Step	Size	Quantity	Screw Type
LCD Module	M2.5*5	2	

12. Peel back the adhesive strip from the left LCD Hinge as shown.

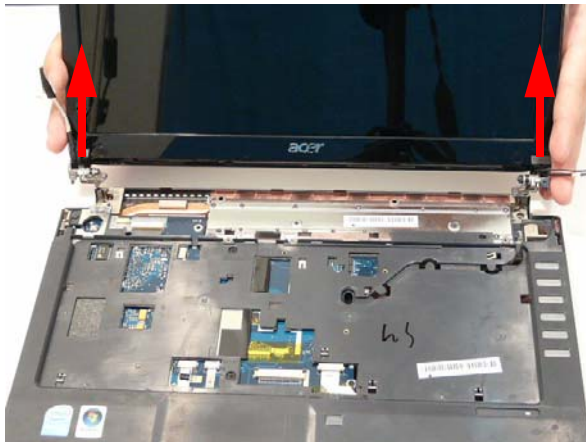


13. Remove the two securing screws from the right LCD hinge.



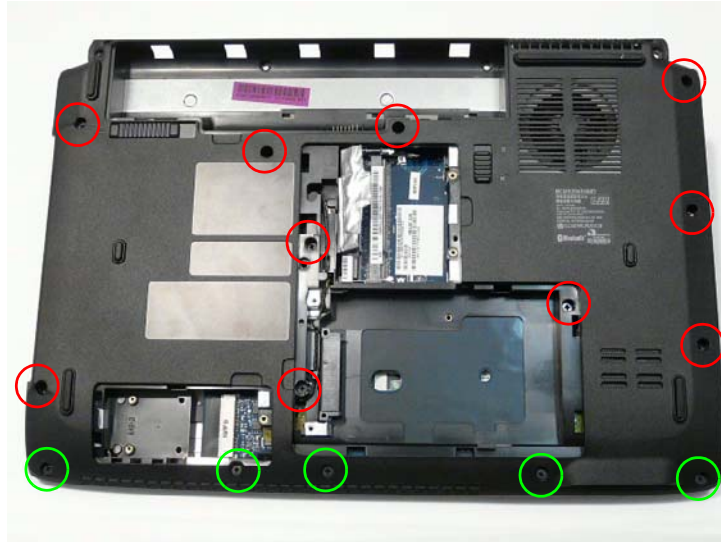
Step	Size	Quantity	Screw Type
LCD Module	M2.5*5	2	



14. Carefully remove the LCD Module from the chassis.



Removing the Upper Cover



1. See "Removing the LCD Module" on page 62.
2. Turn the computer over. Remove the fifteen screws on the bottom panel.



Step	Size	Quantity	Screw Type
Upper Cover (red call out)	M2.5*10	10	
Upper Cover (green callout)	M2.5*5	5	

3. Turn the computer over. Remove the two securing screws on the top panel.



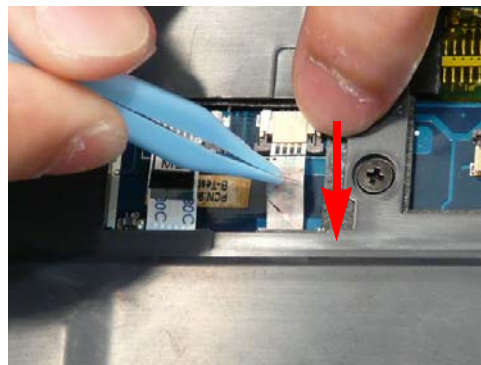
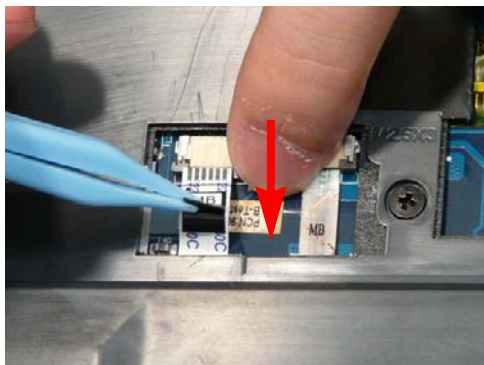
Step	Size	Quantity	Screw Type
Upper Cover (red callout)	M2.5*5	1	
Upper Cover (green callout)	M2.5*3	1	

4. Turn the computer over and disconnect the four FFC cables from the mainboard.

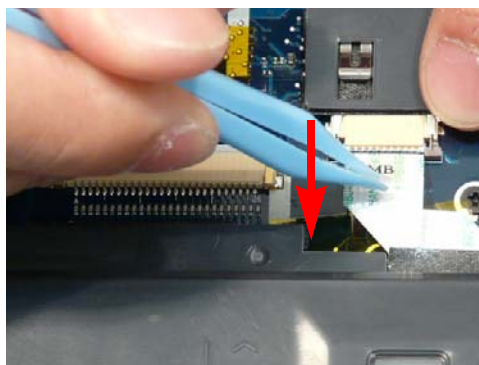


Unlock the connector and disconnect A as shown.

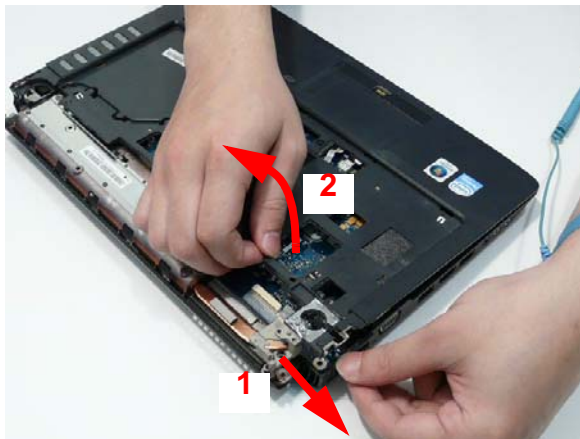
Unlock the connector and disconnect B as shown.



Unlock the connector and disconnect C as shown.



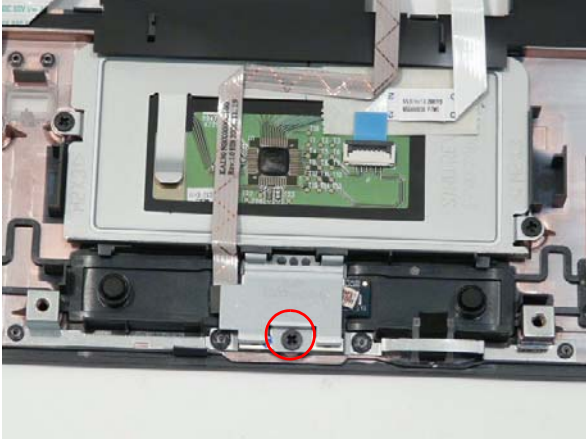
-
5. Ease the lower casing outward to clear the securing clips. Pry apart the left side as shown, and lift the rear edge of the Upper Cover upward.




6. Repeat the process on the right side of the casing and remove the Upper Cover from the Lower Cover.

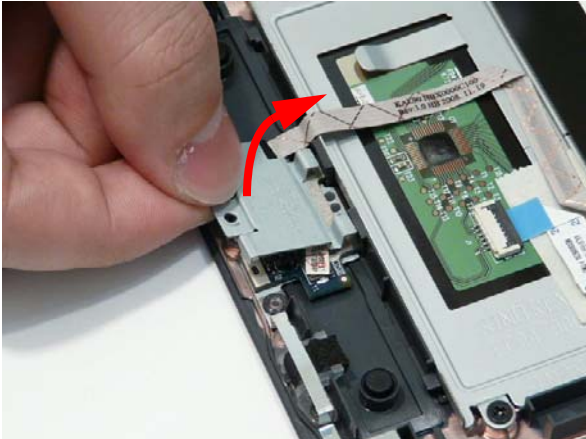
Removing the Finger Print Reader

- 1. See "Removing the Upper Cover" on page 67.
- 2. Remove the single securing screw on the bracket.



Step	Size	Quantity	Screw Type
Finger Print Reader	M2*3	1	

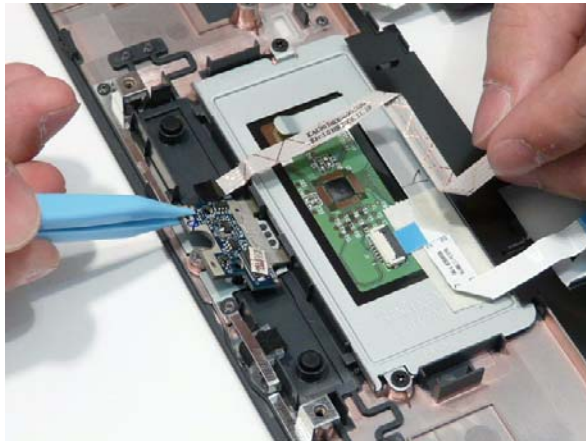
- 3. Lift the bracket clear of the casing.



4. Hold down the Finger Print Board and lift the FFC, as shown, to disengage the adhesive.



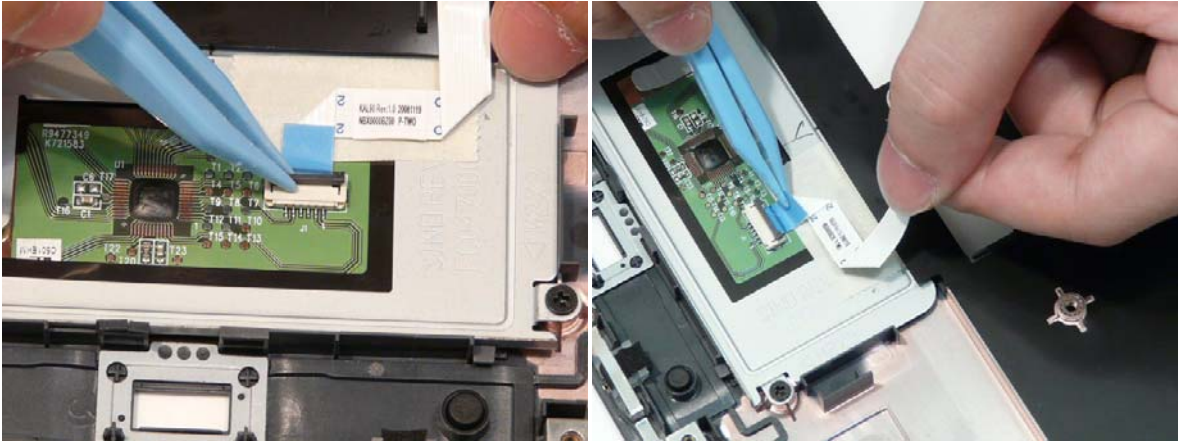
5. Lift the Finger Print Reader clear of the Upper Cover.



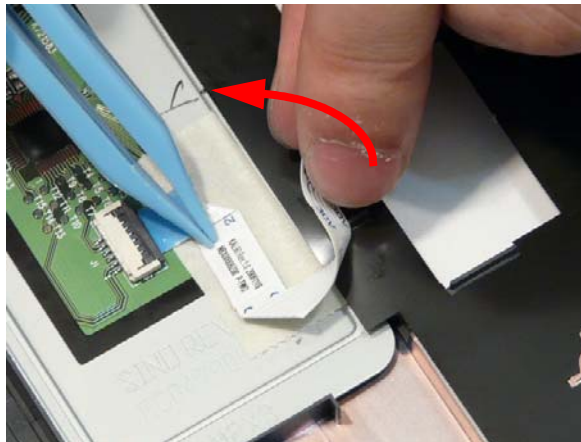
Removing the TouchPad Bracket

IMPORTANT: The TouchPad is supplied as part of the Upper Cover. If the TouchPad is defective, replace the entire Upper Cover.

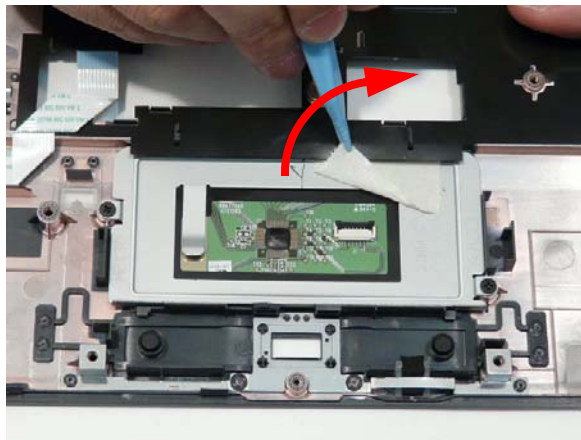
1. See “Removing the Upper Cover” on page 67.
2. Open the FFC locking latch as shown and remove the FFC.



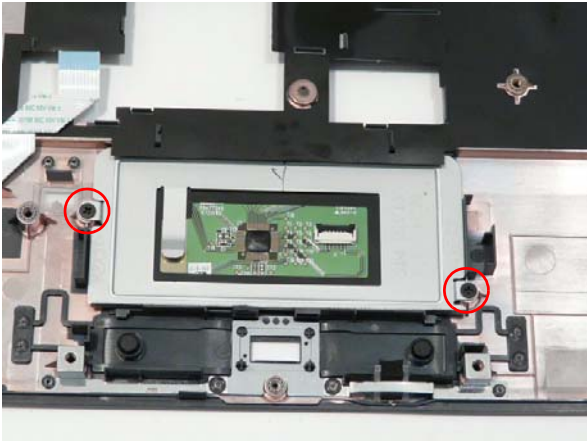
3. Lift the FFC away from the Upper Cover to detach the adhesive securing it in place.




4. Remove the adhesive strip from the TouchPad Bracket.

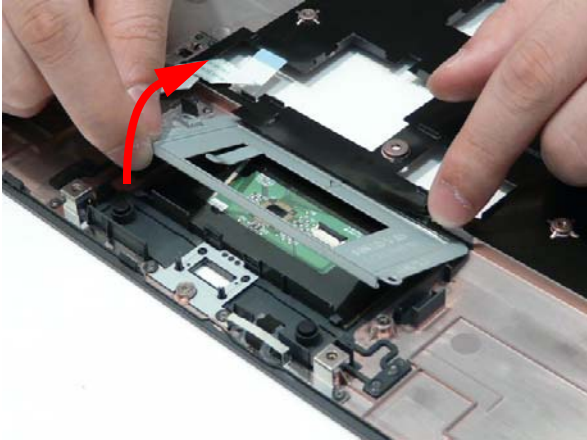


5. Remove the two screws from the TouchPad Bracket.



Step	Size	Quantity	Screw Type
TouchPad Bracket	M2*3	2	

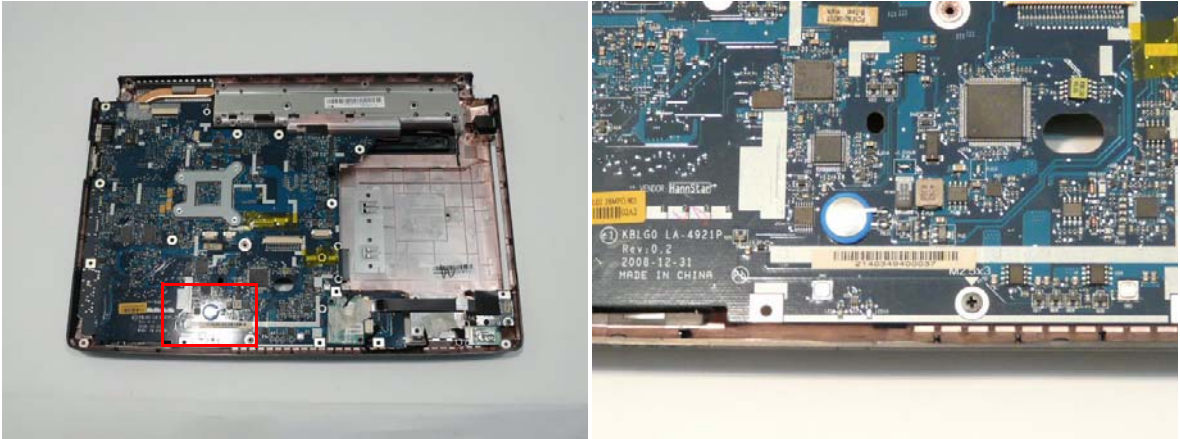
6. Remove the TouchPad Bracket from the Upper Cover.



Removing the RTC Battery

IMPORTANT: Follow local regulations for disposal of all batteries.

The RTC Battery is soldered to the Mainboard. To replace the battery, solder the new battery to the connections shown.

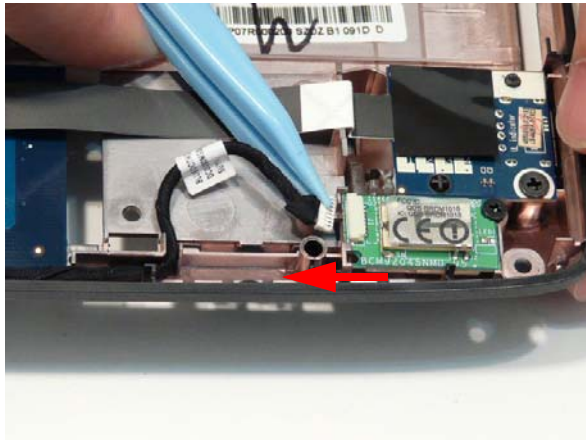


Removing the Bluetooth Module

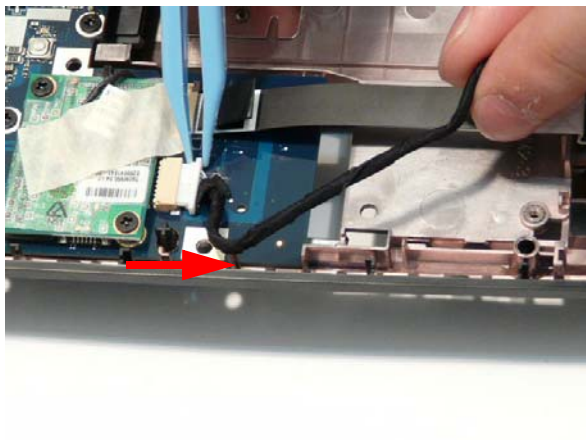
1. See “Removing the Upper Cover” on page 67.
2. Remove the adhesive tape securing the cable to the Lower Cover.



3. Disconnect the cable from the Bluetooth Module.




4. Disconnect the cable from the Mainboard.



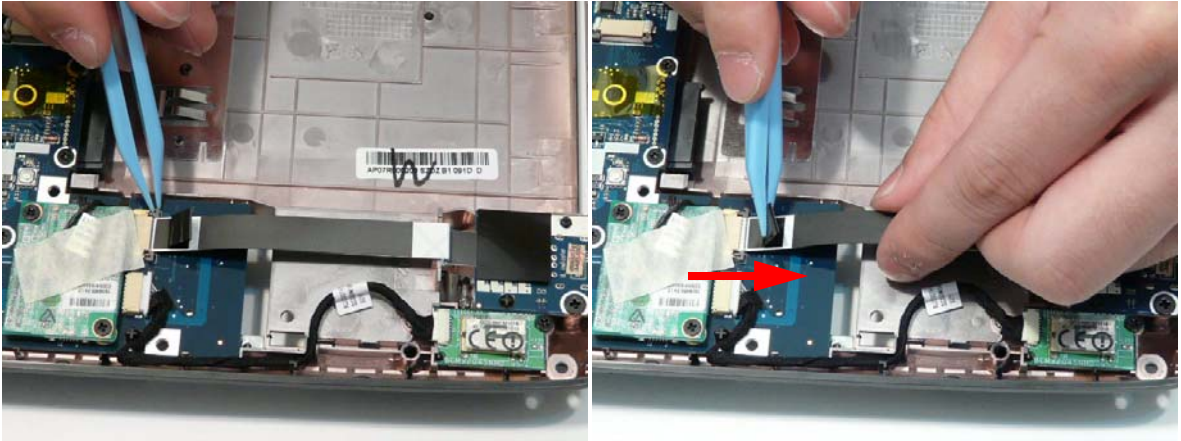
5. Remove the single securing screw and remove the module from the chassis.



Step	Size	Quantity	Screw Type
Bluetooth Module	M2*3	1	


Removing the USB Board

1. See "Removing the Upper Cover" on page 67.
2. Open the FFC securing latch and remove the cable from the Mainboard connector.

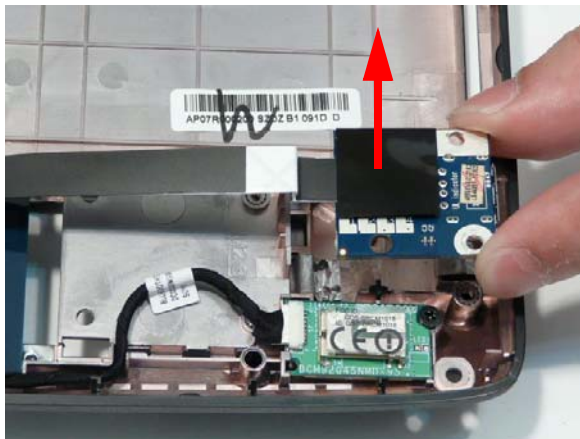


3. Remove the single screw securing the USB Board to the Lower Cover.



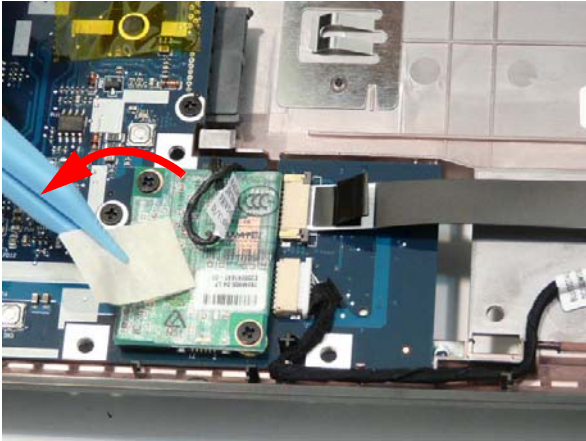
Step	Size	Quantity	Screw Type
USB Board	M2.5*3	1	

4. Remove the USB Board from the Lower Cover.

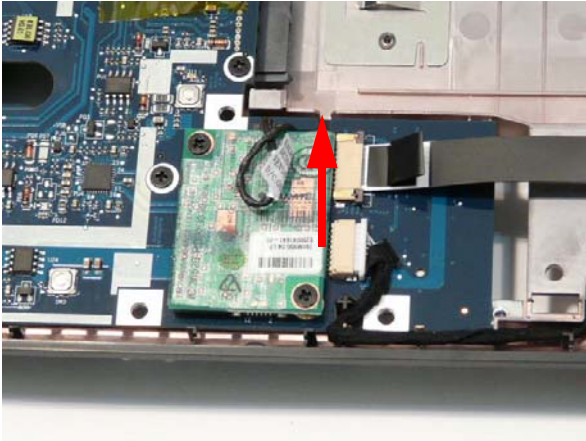



Removing the Modem Module

- 1. See "Removing the Upper Cover" on page 67.
- 2. Remove the adhesive tape securing the cable to the Modem.

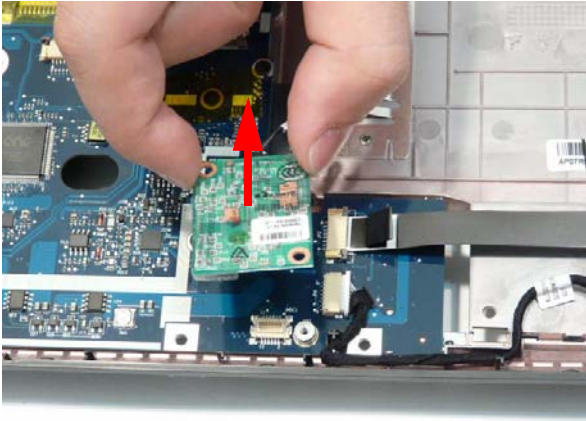


- 3. Remove the two screws securing the module to the Mainboard.

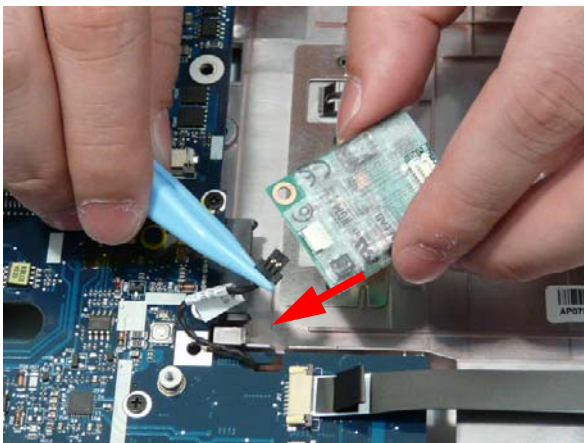


Step	Size	Quantity	Screw Type
Modem Module	M2*3	2	

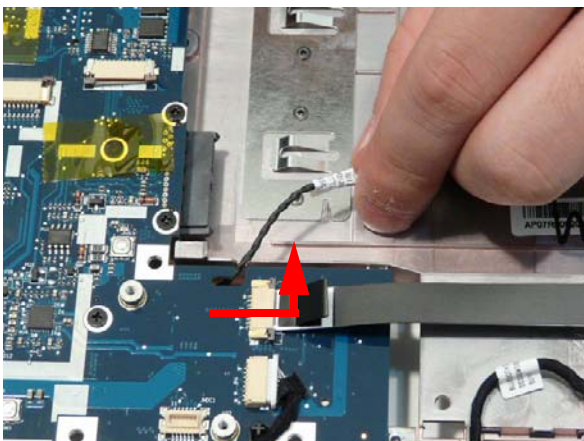
- 4. Lift the Modem Module clear of the Mainboard as shown.



5. Turn the module over and disconnect the Modem cable. Remove the module from the Lower Cover.




6. Remove the Modem cable from the Mainboard cutout as shown.



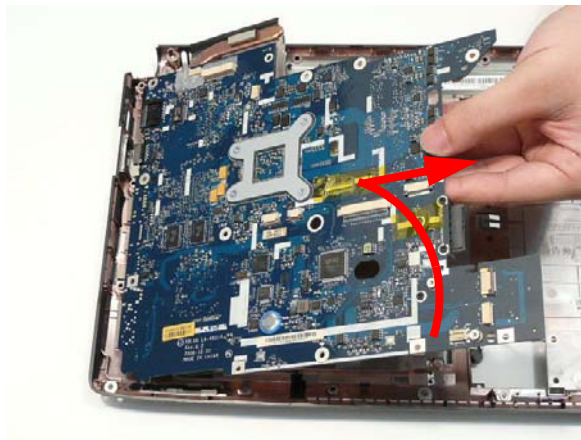
Removing the Mainboard

1. See "Removing the Upper Cover" on page 67.
2. See "Removing the Modem Module" on page 78.
3. Remove the single securing screw.



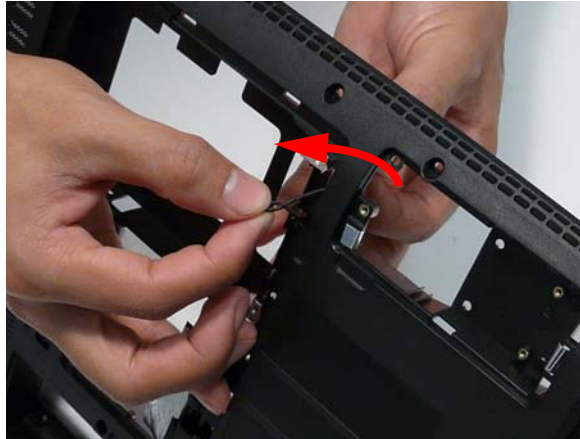
Step	Size	Quantity	Screw Type
Mainboard	M2.5*3	1	

4. Lift the mainboard right side first to remove it from the Lower Cover.



Removing the RJ-11 Port

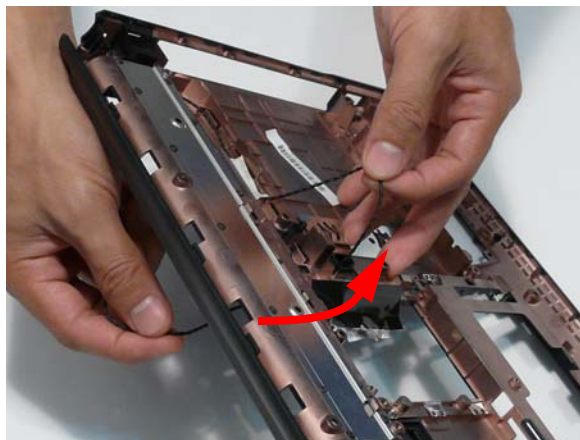
1. See "Removing the Mainboard" on page 80.
2. Turn the Lower Cover over and pull the Modem cable through the casing as shown.



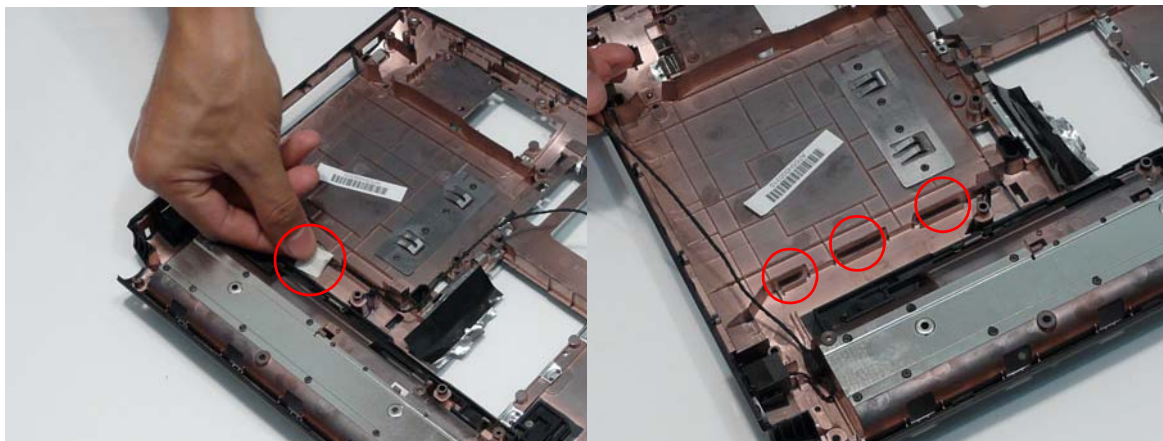
3. Completely remove the Modem cable from the cable channel.



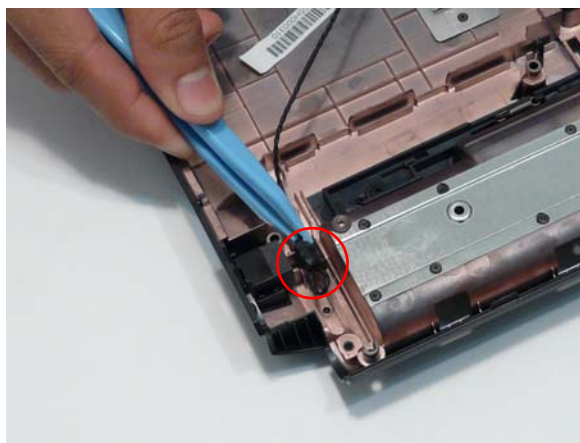
4. Turn the computer over. Pull the Modem cable completely through the casing as shown.



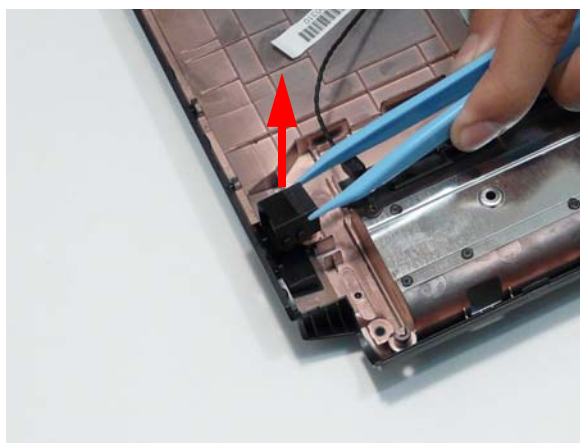
5. Remove the adhesive tape and lift the cable out of the cable channel as shown.



6. Detach the adhesive and lift the cable bundle out of the casing.

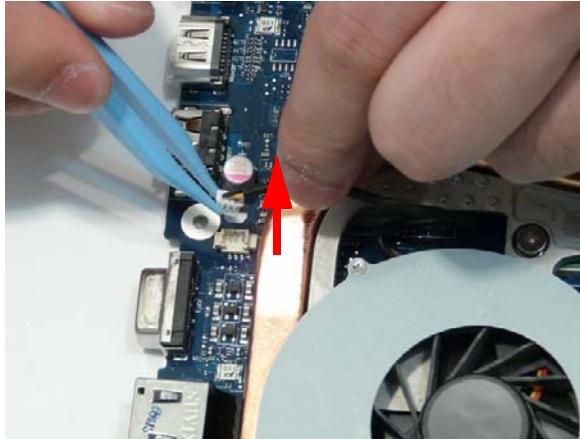


7. Remove the RJ-11 Port from the casing.

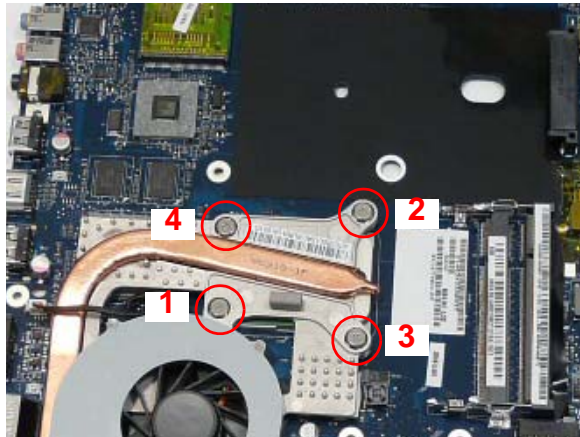



Removing the Thermal Module

1. See "Removing the Mainboard" on page 80.
2. Turn the Mainboard over and place on a clean surface.
3. Hold the fan cable connector and lift to disconnect from the mainboard.



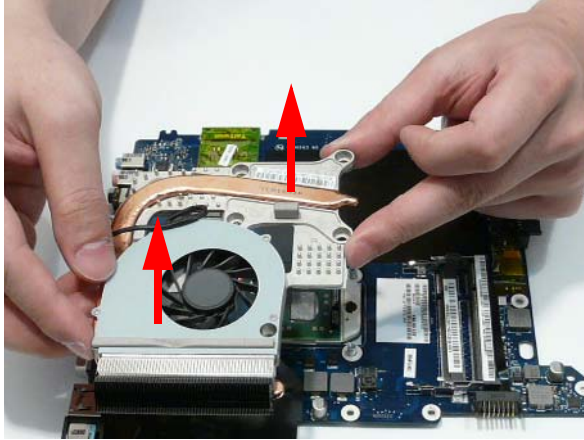
4. Remove the four screws from the Thermal Module numerically, from 4 to 1.



Step	Size	Quantity	Screw Type
Thermal Module	M 2.5*3.2	4	

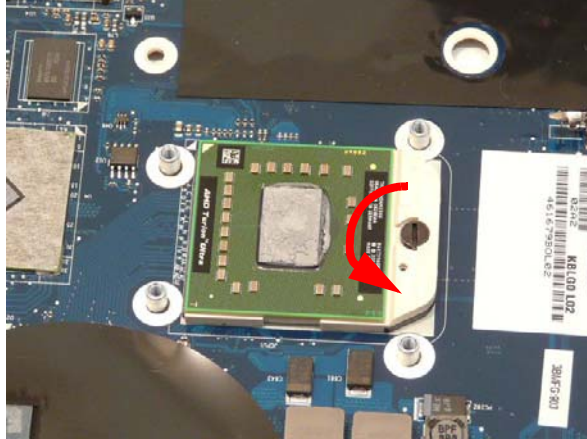
WARNING: To prevent damage to the Thermal Module or the CPU, hold and lift the Thermal Module by lifting both ends up and away at the same time.

5. Hold the module on both sides and lift it clear of the Mainboard.

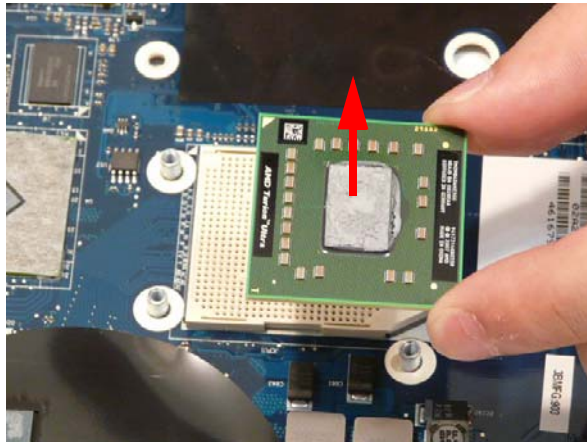


Removing the CPU

1. See “Removing the Thermal Module” on page 83.
2. Using a flat screwdriver, turn the CPU socket latch counter-clockwise 180° to release the CPU.

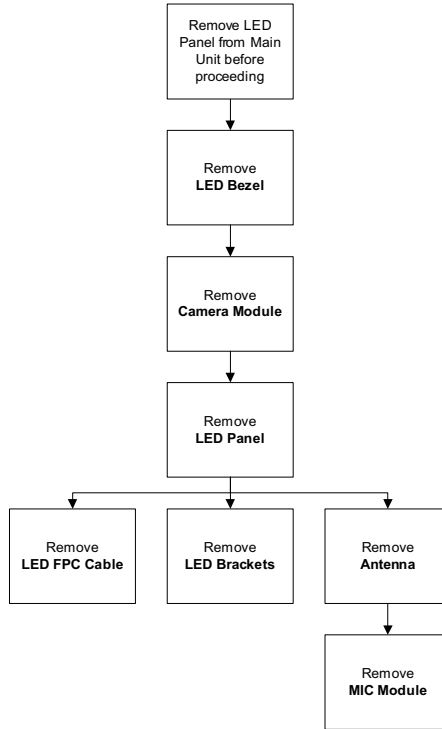


3. Lift the CPU clear of the Mainboard.



LCD Module Disassembly Process

LCD Module Disassembly Flowchart




Screw List

Step	Screw	Quantity	Part No.
LCD Bezel	M2.5*5	6	86.PAA02.003
Camera Module	M2.5*3	1	86.PAA02.002
LCD Panel	M2.5*5	2	86.PAA02.003
	M2.5*3	1	86.PAA02.002
LCD Brackets	M2*3	6	86.PAA02.001

Removing the LCD Bezel

- 1. See "Removing the LCD Module" on page 62.
- 2. Remove the six screw caps and screws as shown.



Step	Size	Quantity	Screw Type
LCD Bezel	M2.5*5	6	

- 3. Starting at the centre of the top edge, pry the inside of the bezel away from the screen. Work round the edges to pry the bezel away from the screen as shown.




4. Lift the bezel away from the panel.



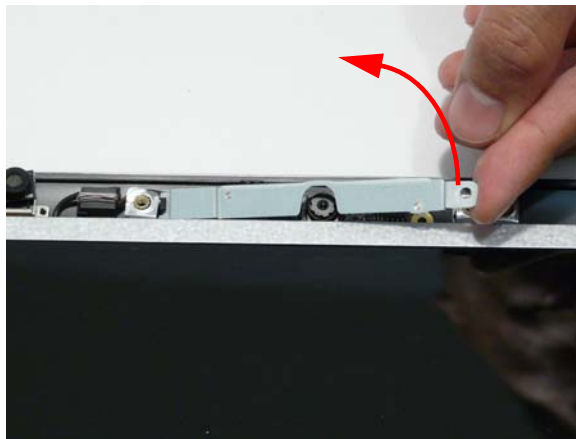
Removing the Camera Module

1. See "Removing the LCD Bezel" on page 87.
2. Remove the single screw from the Camera Bracket as shown.

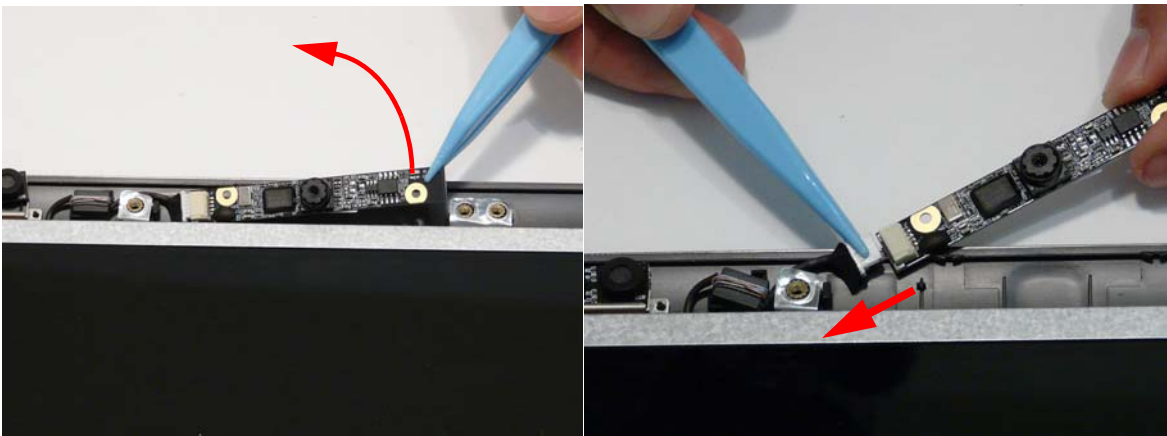


Step	Size	Quantity	Screw Type
Camera Module	M2.5*3	1	

3. Lift the Camera Bracket, right side first, clear of the casing.



4. Lift the Camera Module clear of the casing and disconnect the cable from the Module.





5. Remove the Camera Module.

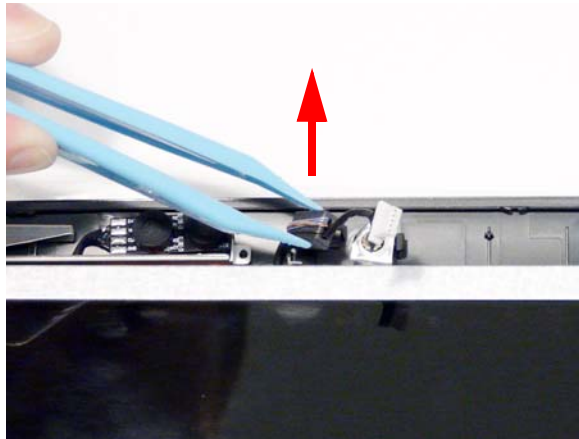
Removing the LCD Panel

1. See "Removing the Camera Module" on page 89.
2. Remove the two securing screws from the LCD hinges and the single LCD grounding screw.



Step	Size	Quantity	Screw Type
LCD Panel (red callout)	M2.5*5	2	
LCD Panel (green callout)	M2.5*3	1	

3. Remove the Camera cable bundle from the top of the casing as shown.

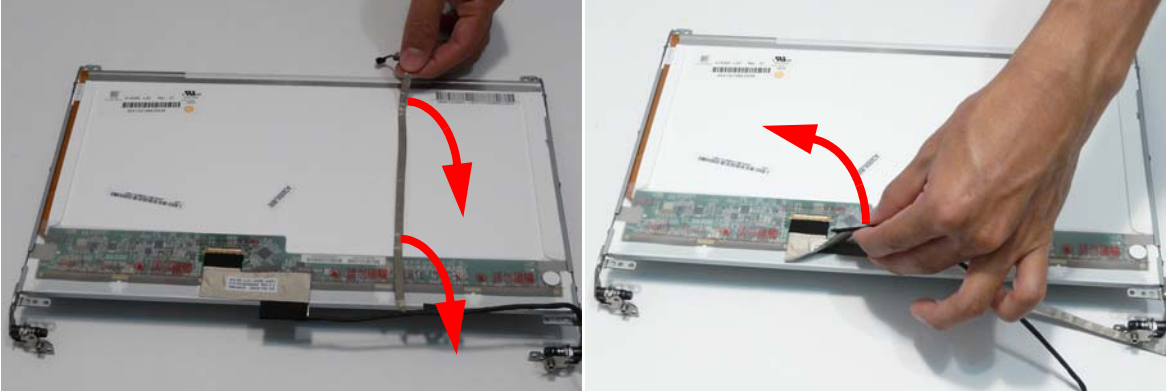


4. Lift the LCD Panel out of the casing as shown.

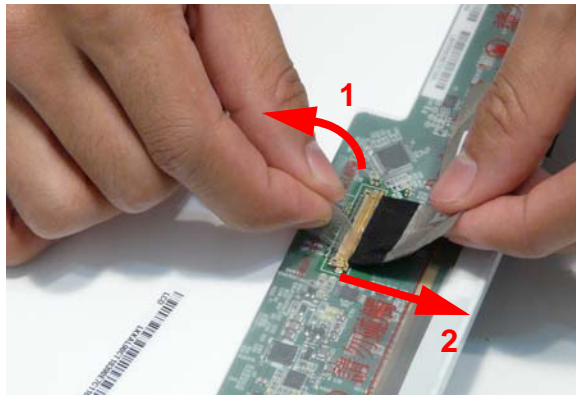


Removing the LCD Brackets and FPC Cable

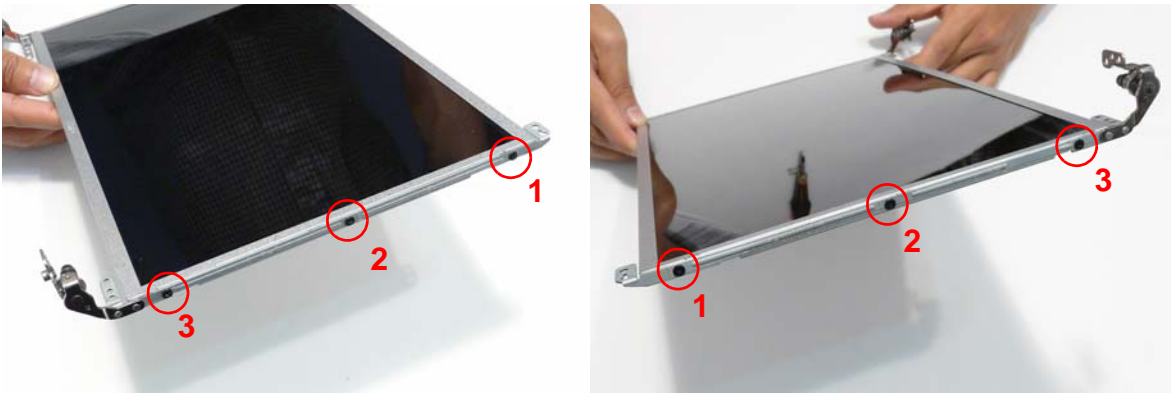
1. See "Removing the LCD Panel" on page 90.
2. Turn the LCD Panel over on a clean surface, and lift the cable as shown to detach the adhesive.




3. Grip the adhesive strip covering the LCD cable connector and pull it back (1).
4. Remove the cable from the panel as shown (2).



5. Remove the six securing screws (three on each side) from the LCD Panel brackets in numeric order, from 3 to 1.



Step	Size	Quantity	Screw Type
LCD Brackets	M2*3	6	

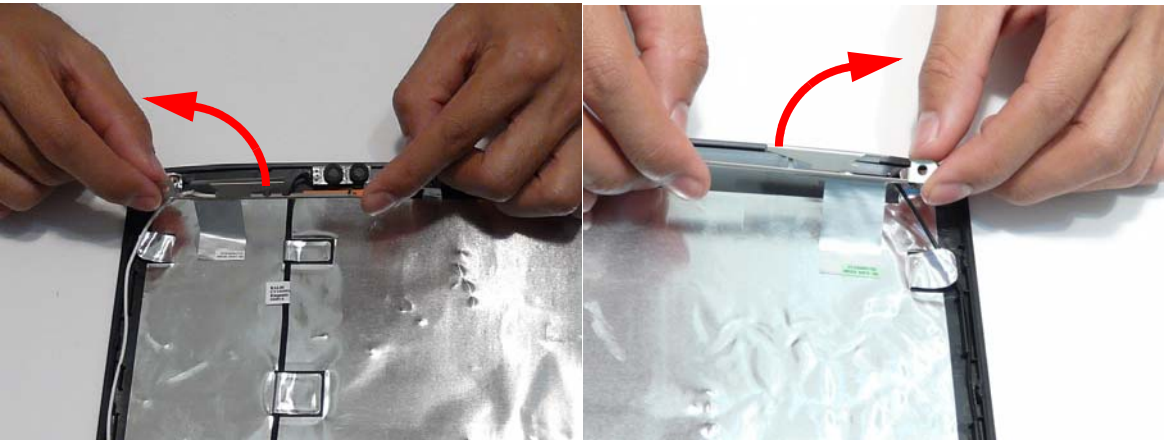
6. Remove the LCD brackets by pulling them away from the LCD Panel.

Removing the Antennas

1. See "Removing the LCD Panel" on page 90.
2. Remove the strips holding the antenna cables in place. Ensure the cables are free from obstructions.



3. Remove the tab securing the left and right antennas to the LCD module and lift the antennas clear.



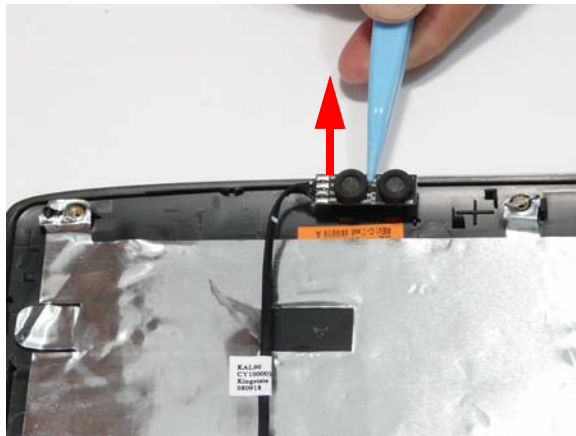
4. Remove the antenna cables and assembly from the LCD module.

Removing the MIC Module

1. See "Removing the Antennas" on page 93.
2. Remove the strips and tape holding the MIC Module cable in place. Ensure the cable is free from obstructions.



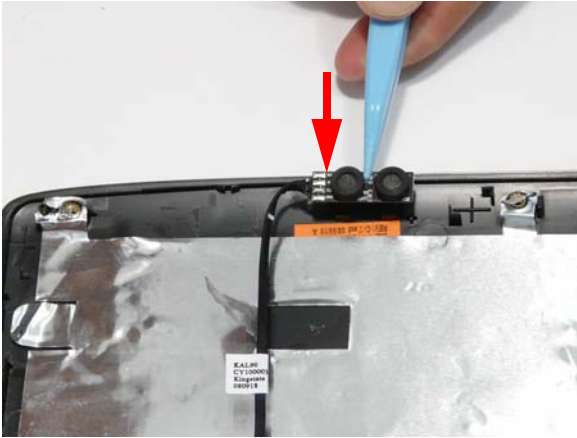
3. Remove the MIC cable and Module from the LCD module.



LCD Module Reassembly Procedure

Replacing the MIC Module

1. Replace the MIC Module in the LCD casing.
2. Run the cable as shown and replace the adhesive strips to hold it in place.

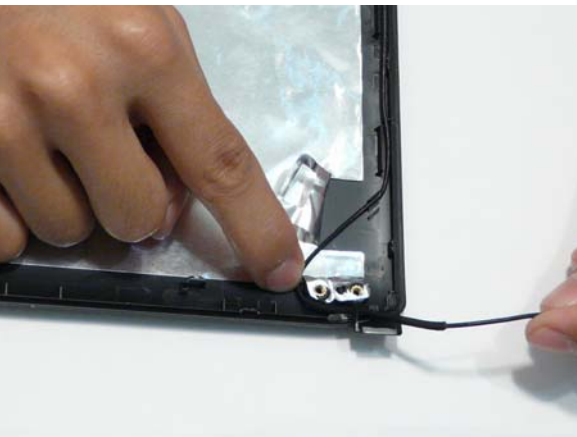


IMPORTANT: Ensure that the cable runs as shown in the hinge well area to avoid trapping.



Replacing the Antennas

1. Run the right side Antenna cable as shown in the hinge well to avoid trapping.
2. Run the cable as shown and replace the adhesive strip.



3. Run the cable along the edge of the casing using all available cable clips.



4. Run the cable as shown and replace the adhesive strip.



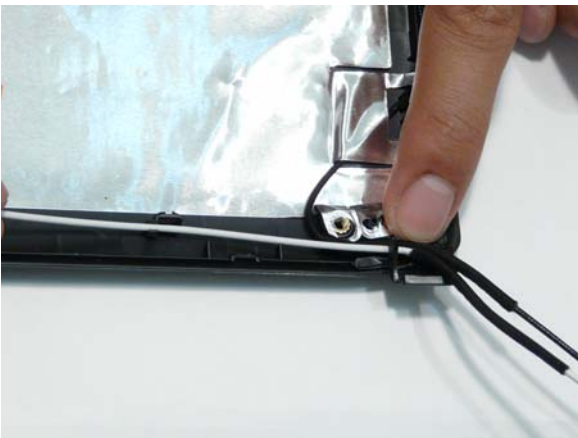
5. Replace the Antenna in the casing as shown and secure it in place with the tape.



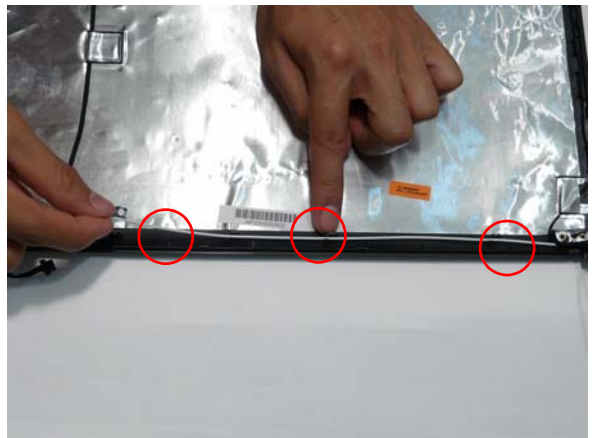
6. Ensure that the securing pin is properly located.



7. Run the left side Antenna cable as shown in the hinge well to avoid trapping.



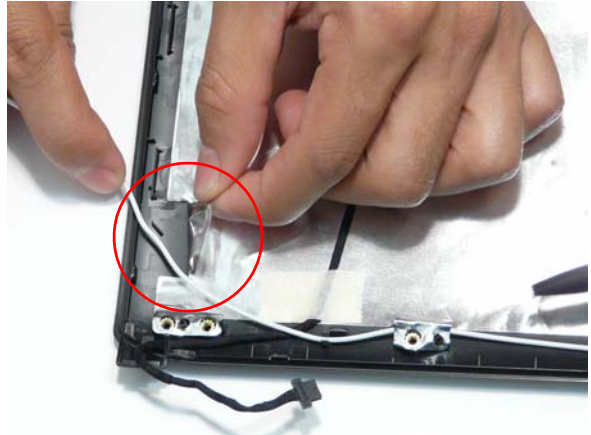
8. Run the cable along the edge of the casing using all available cable clips.



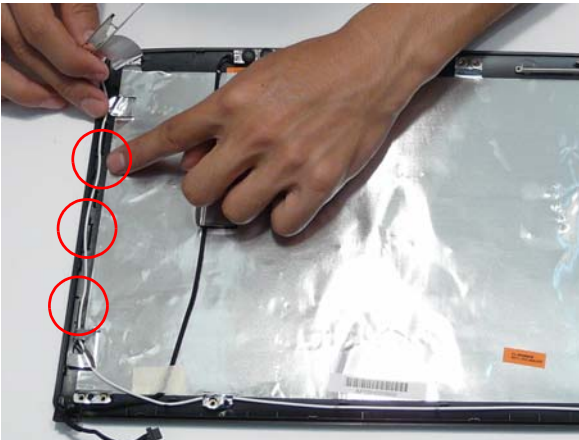
9. Run the cable as shown and replace the adhesive strip.



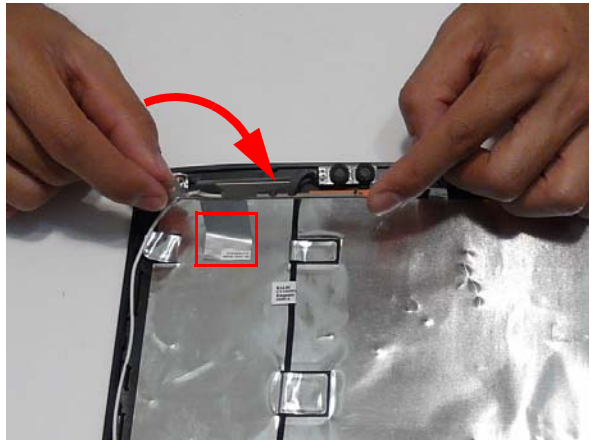
10. Run the cable as shown and replace the adhesive strip.



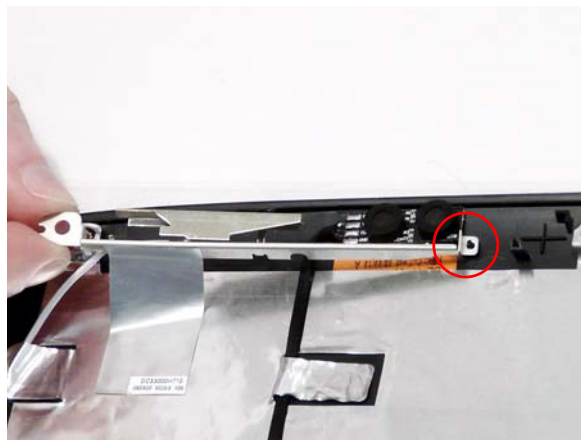
11. Run the cable along the edge of the casing using all available cable clips.



12. Replace the Antenna in the casing as shown and secure it in place with the tape.



13. Ensure that the securing pin is properly located.

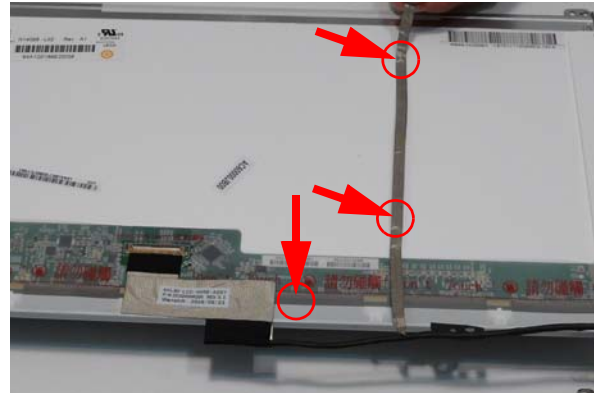
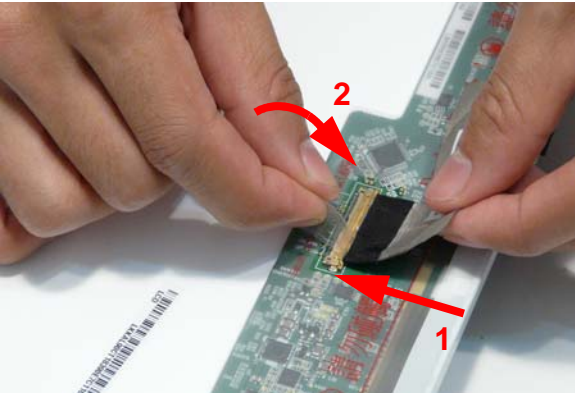


Replacing the LCD Panel

1. Align the LCD brackets with the six screw holes (three on each side) on the LCD Panel as shown.
2. Replace the six securing screws in numeric order, from 1 to 3.



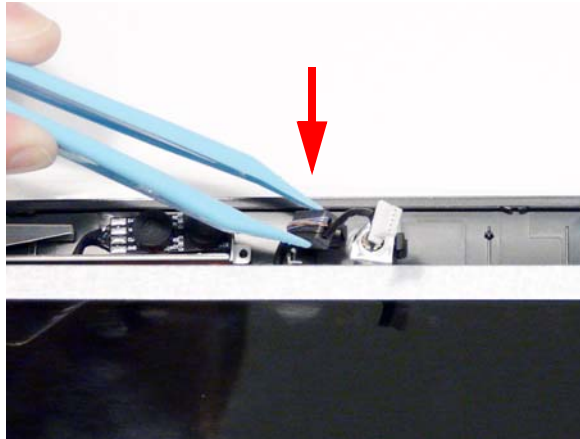
3. Turn the panel over. Insert the LCD Panel cable into the LCD Panel as shown (1). Secure the cable by replacing the securing strip (2).
4. Run the LCD cable as shown and press down along the length of the cable to secure it in place.



5. Insert the LCD panel into the casing back edge first as shown.
6. Ensure that the four locating pins are properly seated before continuing.



7. Replace the Camera Module cable bundle in the casing as shown.



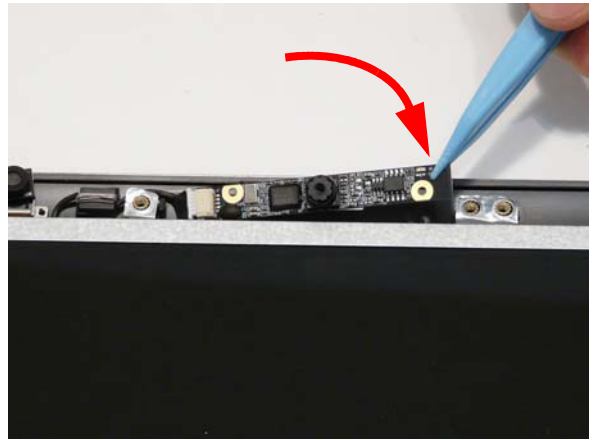
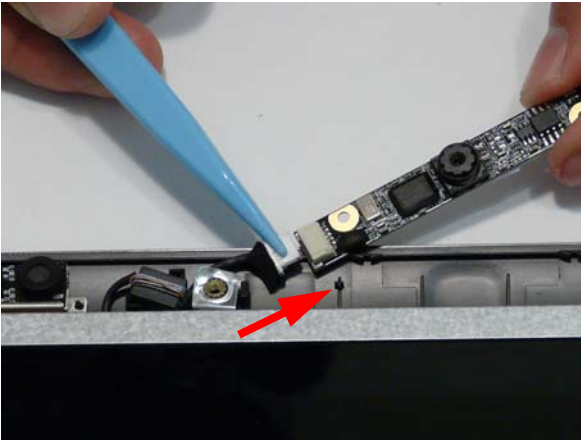
8. Replace the three screws to secure the panel and grounding within the LCD module.

IMPORTANT: When replacing the screws in the LCD brackets (red callout) do not use the screw holes marked with 'X'. These slots are reserved for the Bezel securing screws.



Replacing the Camera Module

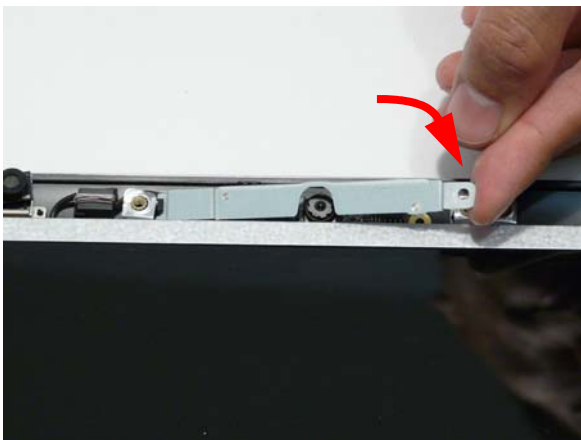
1. Reconnect the LCD cable to the Camera Module.
2. Place the Camera Module in the casing as shown.



3. Ensure that the locating pins are correctly seated.
4. Insert the Camera Bracket left side first to engage the securing clip.



5. Lower the bracket into place as shown
6. Replace the single securing screw.



Replacing the LCD Bezel

1. Place the Bezel on the casing bottom edge first and press in the areas marked to snap it into place.
2. Press down the sides of the bezel, working toward the top edge.



3. Press down the top edge to complete the process.

IMPORTANT: Ensure there are no gaps between the casing and the Bezel.



4. Replace the six securing screws and screw caps on the LCD bezel.

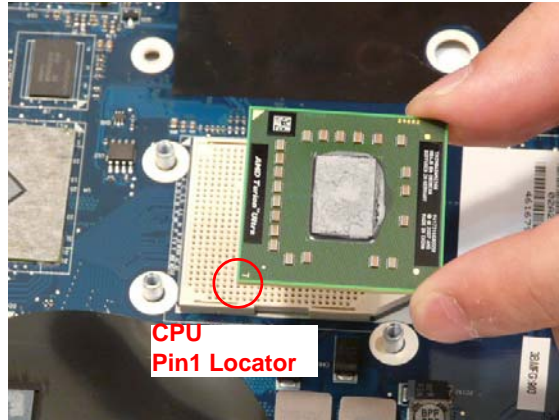


Main Module Reassembly Procedure

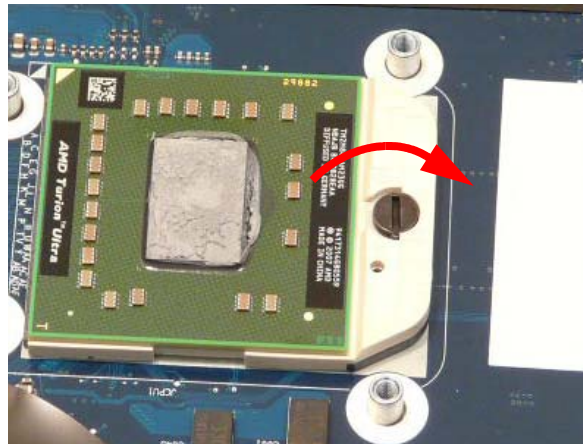
Replacing the CPU

IMPORTANT: The CPU has a Pin1 locator that must be positioned corresponding to the marker on the CPU socket.

1. Place the CPU into the CPU socket as shown, taking note of the Pin1 locator.



2. Using a flat-bladed screw driver, rotate the CPU locking screw 180° clockwise to secure the CPU in place.



Replacing the Thermal Module

WARNING: To prevent damage to the Thermal Module or the CPU, hold the Thermal Module by both ends at the same time.

IMPORTANT: Ensure all heat pads / thermal compound are in place before replacing the Thermal Module.

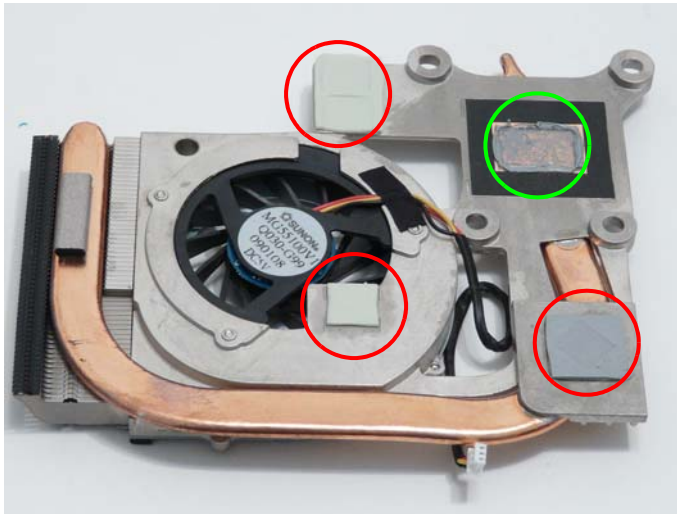
The following thermal pads are approved for use:

- Silmore GP50
- Honeywell
- Jet Motor 7762

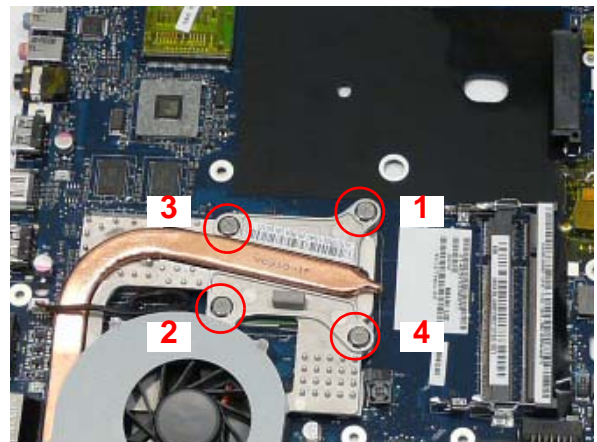
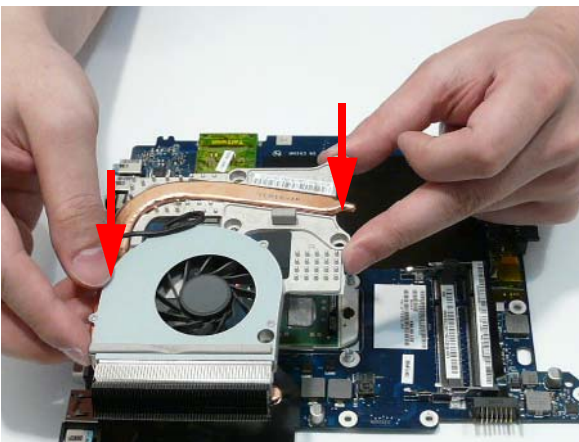
The following thermal compounds are approved for use:

- Eapus XR-PE

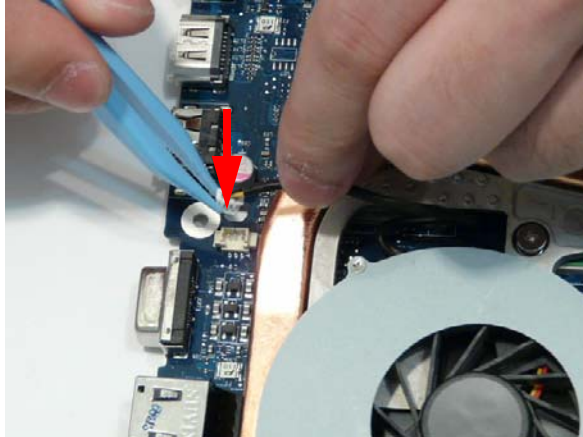
1. Remove all traces of thermal grease or pads from the CPU using a lint-free cloth or cotton swab and Isopropyl Alcohol, Acetone, or other approved cleaning agent.
2. Apply thermal grease (green callout) and thermal pads (red callout) to the indicated locations.




1. Align and place the Thermal Module in the on the mainboard as shown.
2. Remove the four screws from the Thermal Module numerically, from 1 to 4.



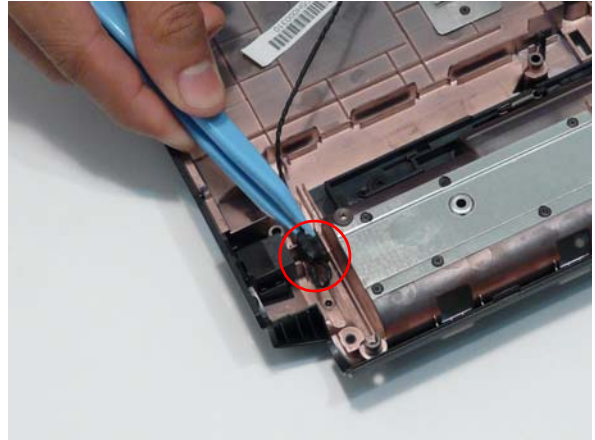
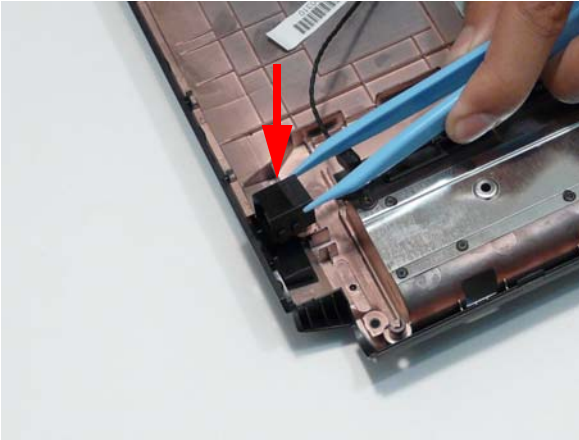
3. Connect fan cable to the mainboard as shown.



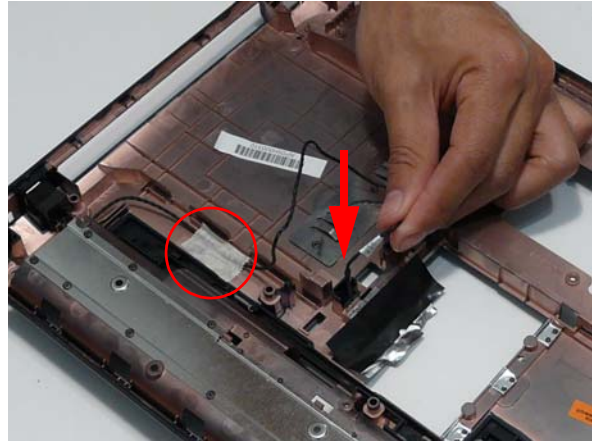
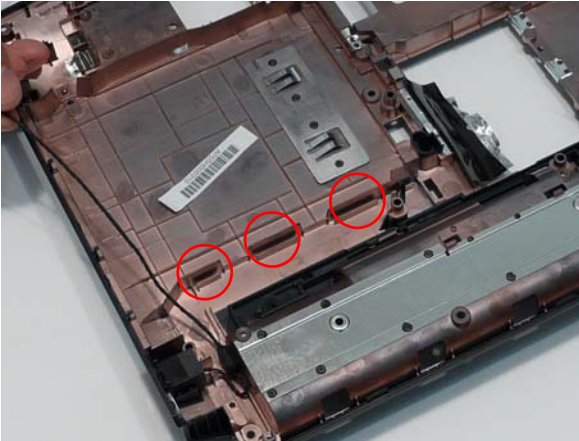
Step	Size	Quantity	Screw Type
Thermal Module	M 2.5*3.2	4	

Replacing the RJ-11 Port

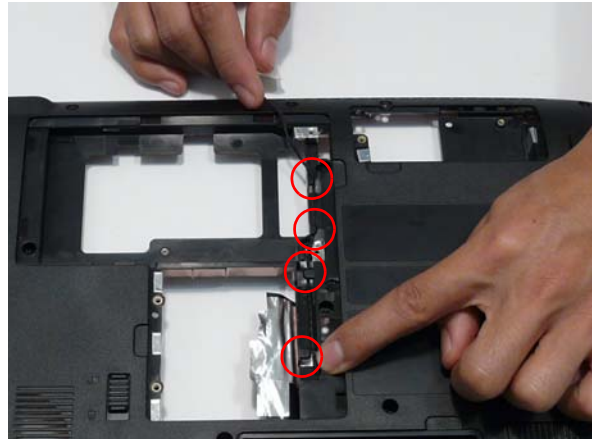
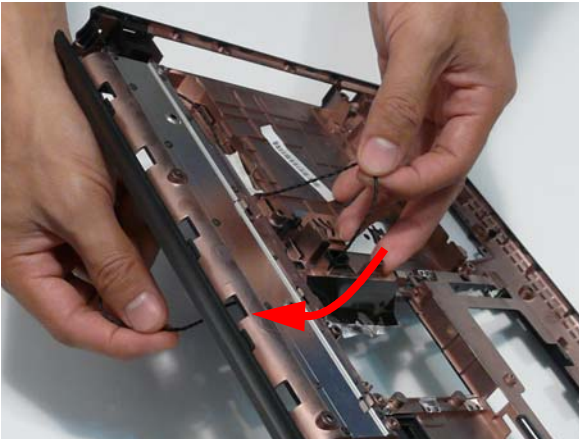
1. Replace the RJ-11 Port in the casing as shown.
2. Place the cable bundle in the casing and apply pressure to secure the adhesive in place.



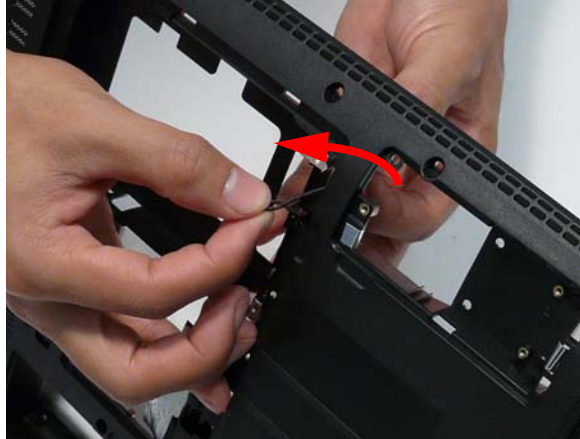
3. Run the cable along the cable channel using all available cable clips.
4. Replace the adhesive tape and insert the cable through the casing as shown.



5. Pull the cable through the casing completely.
6. Turn the computer over and run the cable along the cable channel using all available cable clips.

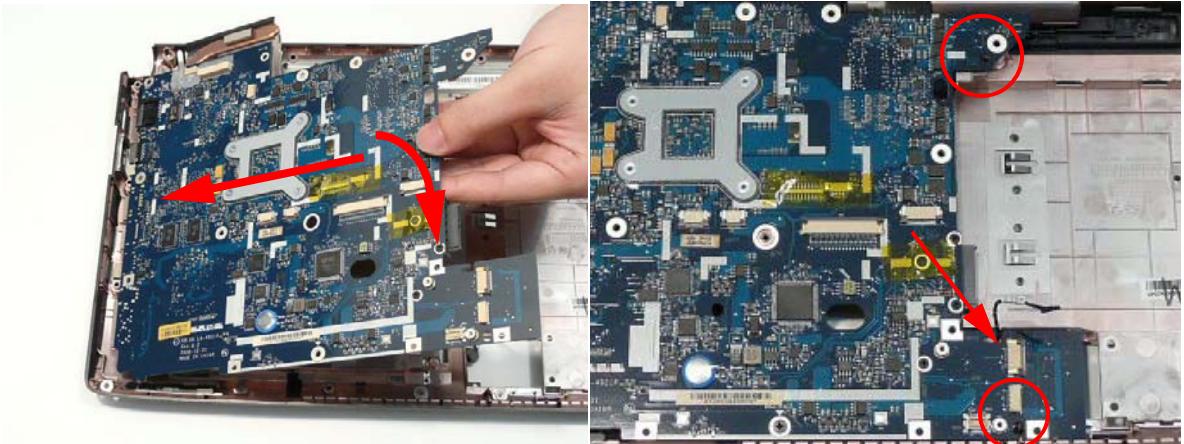


7. Insert the cable through the casing to the top side as shown.




Replacing the Mainboard

1. Ensure that the Mainboard is face up. Place the Mainboard in the chassis, left hand edge first to allow the I/O Ports through the casing, then lower it into place. Be sure to align the securing pins and slide the RJ-11 cable through the groove in the main board as shown



2. Insert the single securing screw.



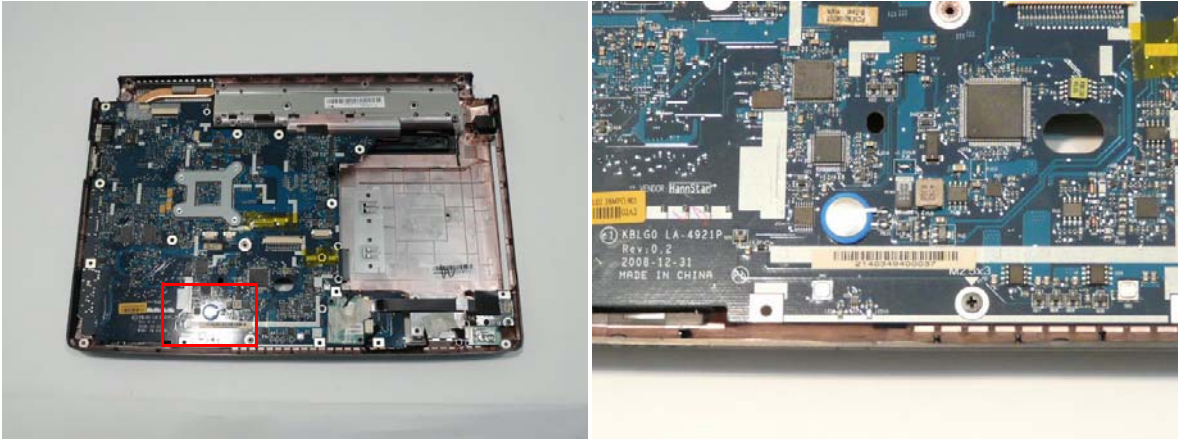
Step	Size	Quantity	Screw Type
Mainboard	M2.5*3	1	

NOTE: Make sure the I/O ports are positioned correctly through the lower cover, and the screw sockets are visible through the mainboard.

Removing the RTC Battery

IMPORTANT: Follow local regulations for disposal of all batteries.

The RTC Battery is soldered to the Mainboard. To replace the battery, solder the new battery to the connections shown.

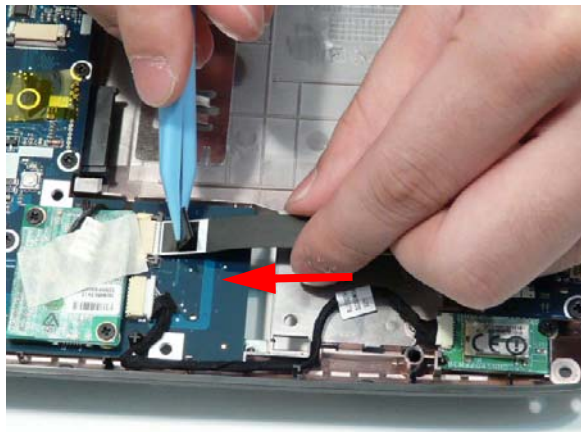


Replacing the USB Board

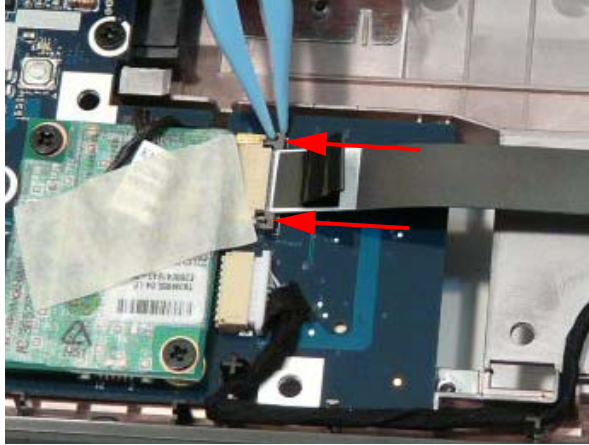
1. Insert the USB Board into the casing, ensuring that the USB Port is accessible through the case.



2. Run the cable along the casing and insert it into the FFC connector.




3. Lock the connector and press down on the FFC securing latches to secure it on the casing.



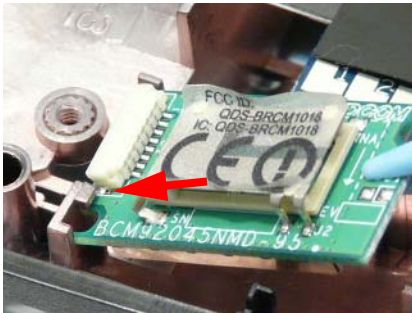
4. Ensure the locating pins is correctly seated and replace the single securing screw.



Step	Size	Quantity	Screw Type
USB Board	M2.5*3	1	


Replacing the Bluetooth Board

1. Insert the Bluetooth Module left side first so the board slides under the securing flange and lower it into place.

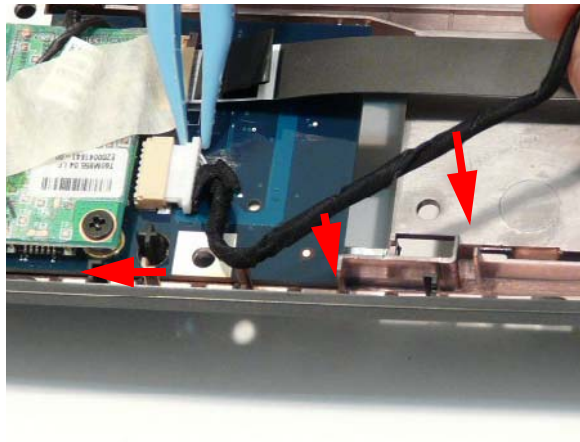


2. Replace the single securing screw.

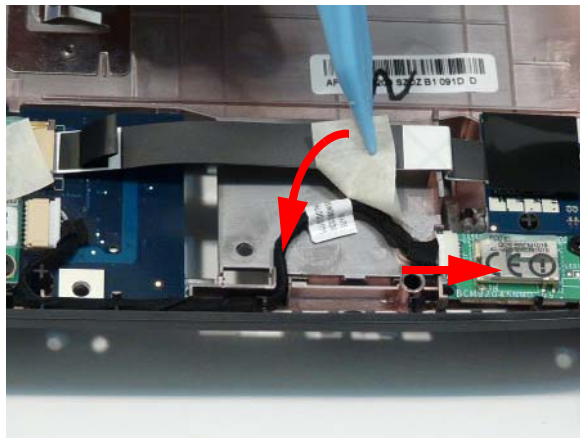


Step	Size	Quantity	Screw Type
Bluetooth Module	M2*3	1	

3. Reconnect the Bluetooth cable to the Mainboard and insert the cable into the cable channel on the Front Cover.

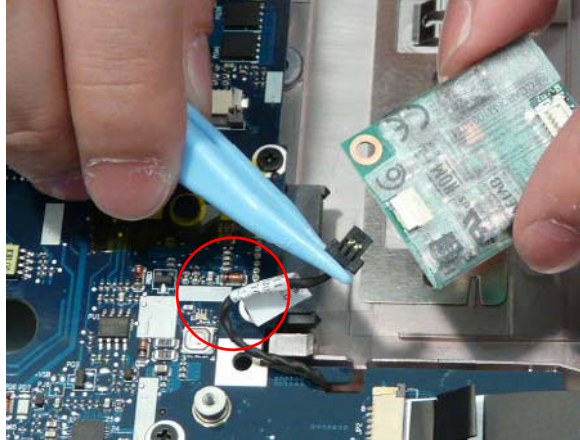


4. Reconnect the Bluetooth cable to the Bluetooth Module and secure the cable in place with the tape.

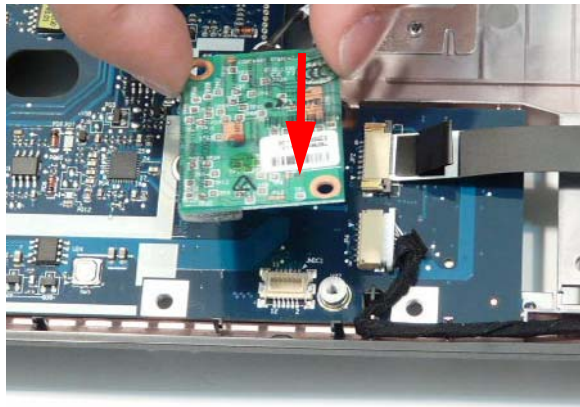


Replacing the Modem Module

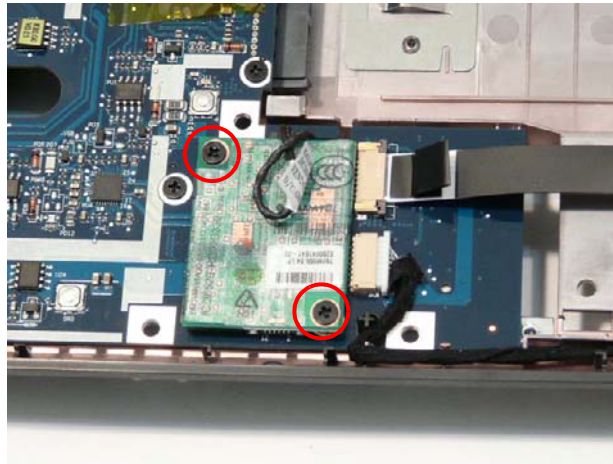
1. Connect the modem cable as shown.




2. Flip the modem board over and Replace the Modem Module on the Mainboard.

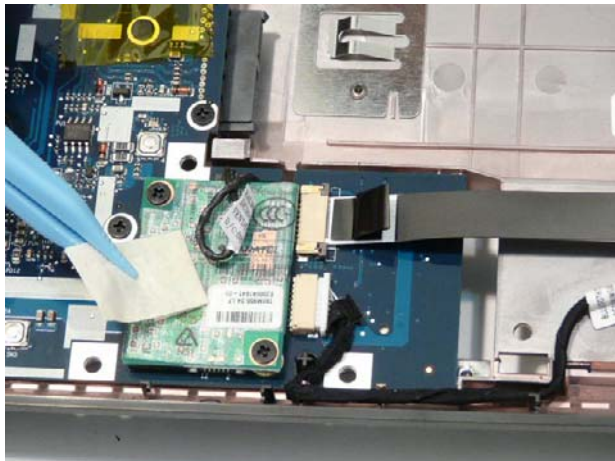


3. Align the screw sockets and replace the two screws.



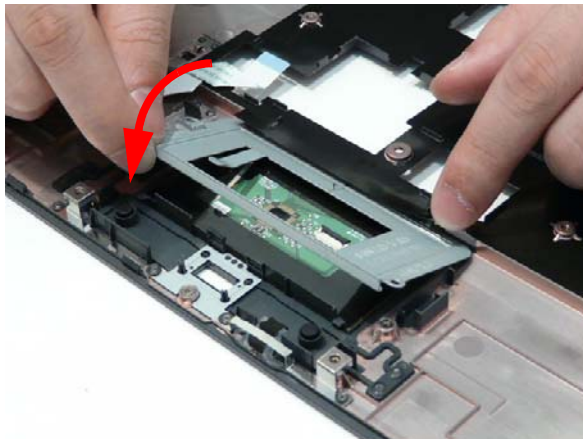
Step	Size	Quantity	Screw Type
Modem Module	M2*3	2	

-
- Secure the Modem cable in place with the adhesive tape.

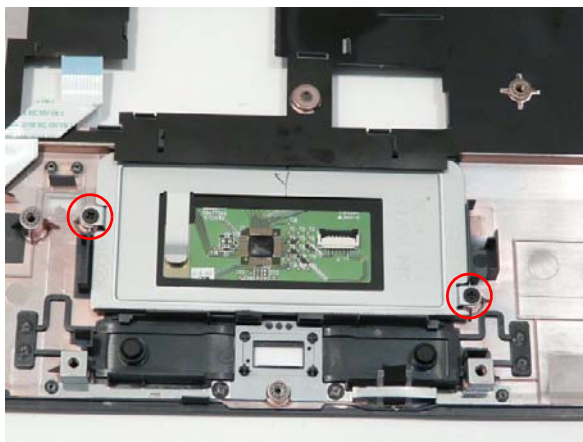


Replacing the TouchPad Bracket

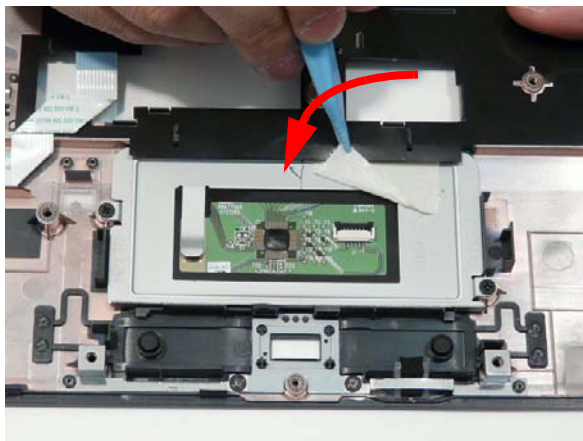
- Place the TouchPad in the casing.



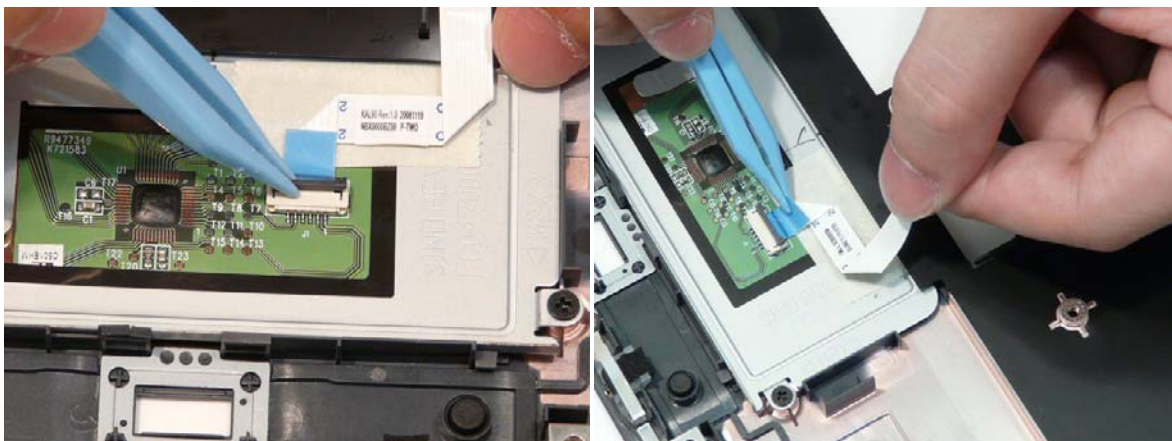
- Replace the two securing screws.



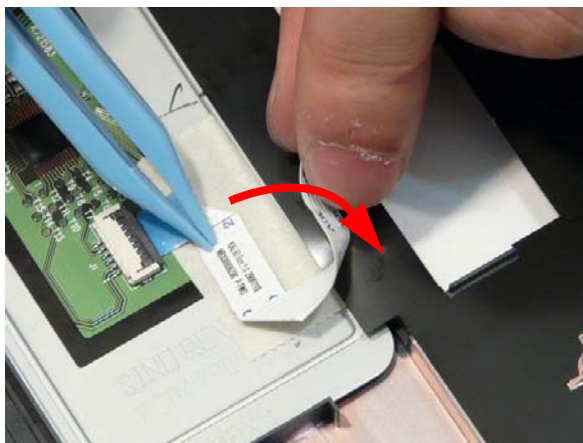
3. Replace the adhesive strip for the TouchPad Bracket.



4. Replace the FFC and close the locking latch.

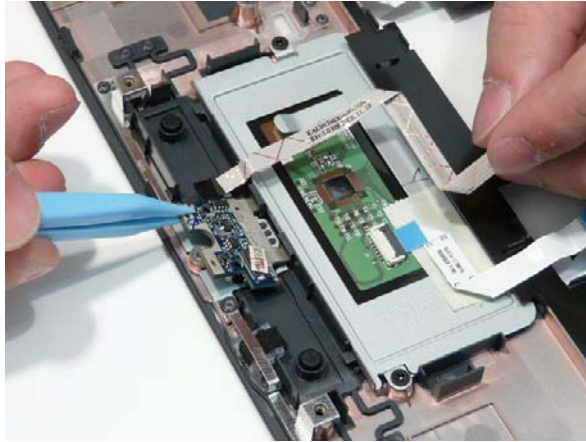


5. Run the cable along the Bracket and press down to secure it in place.

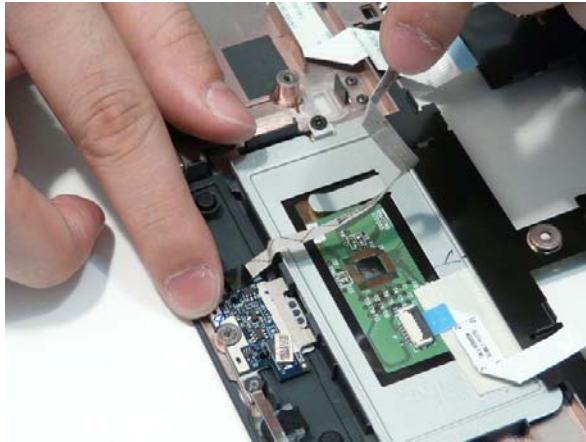


Replacing the Finger Print Reader

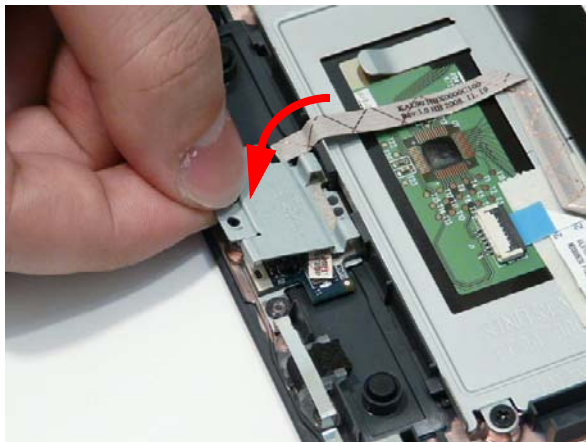
1. Replace the Finger Print Reader in the Upper Cover in the direction of the arrow.



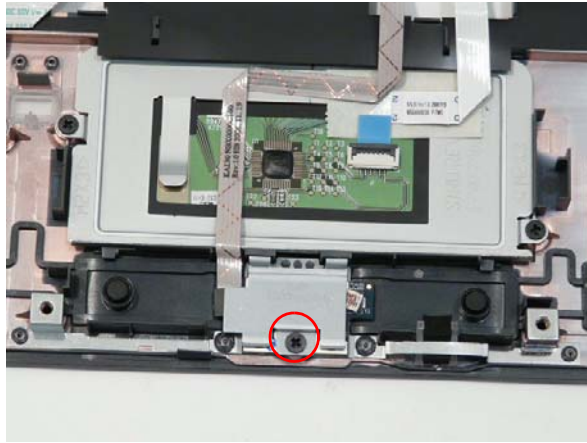
2. Run the FFC along the TouchPad bracket, as shown, and press down to secure it in place.



3. Replace the Finger Print Reader Bracket rear edge first and lower it into place.



4. Replace the single securing screw.



Replacing the Upper Cover

WARNING:Care must be taken when replacing the Upper Cover to prevent damage or stress to the surface.

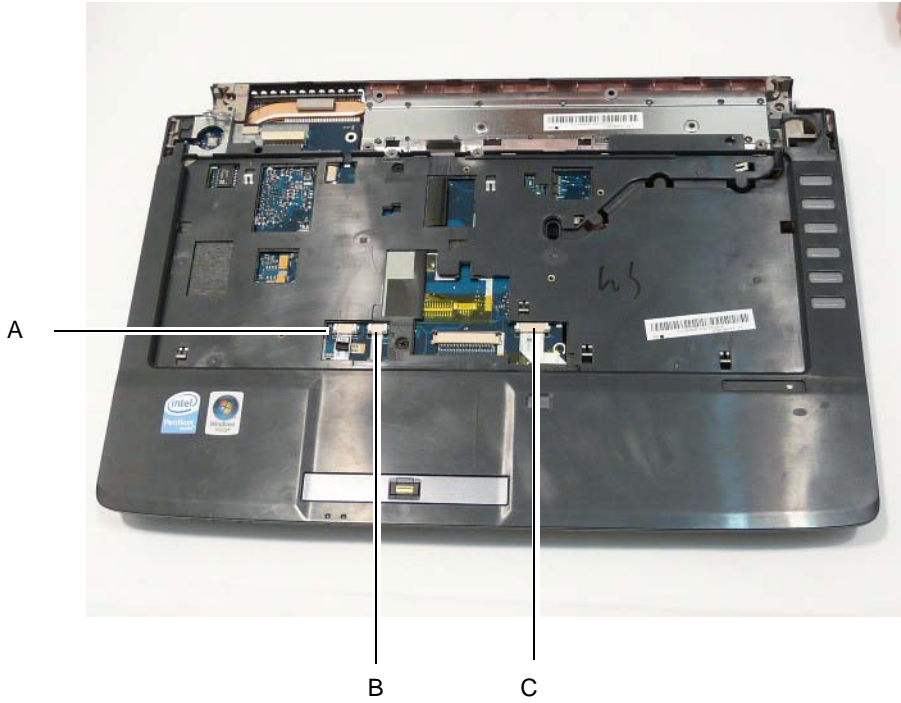
1. Place the Upper Cover on the Lower Cover, top right side first, and lower it into place.



2. Starting with the sides, press down all around the perimeter of the cover to secure it in place.

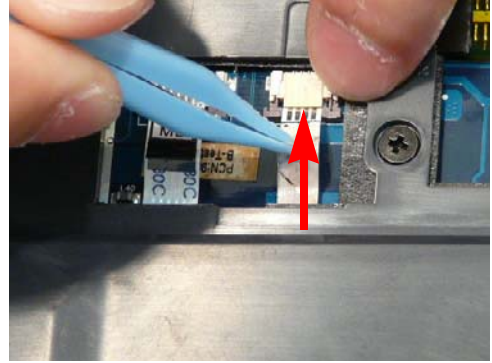
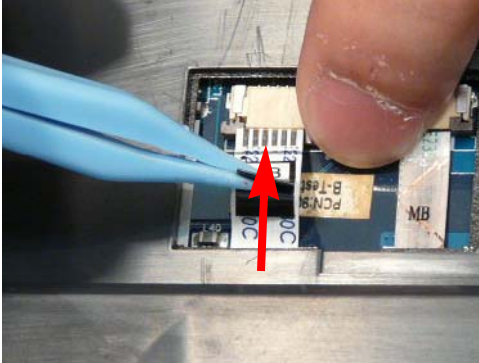


3. Reconnect the three FFC cables to the mainboard.

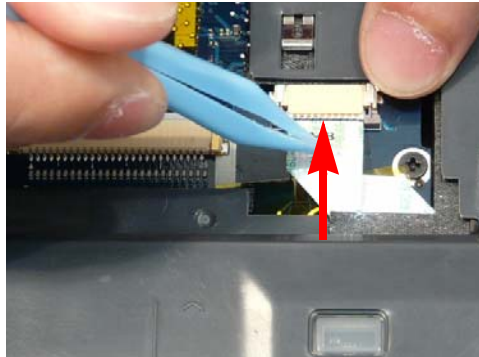


4. Connect A as shown and lock the connector.

5. Connect B as shown and lock the connector.





6. Connect C as shown and lock the connector.

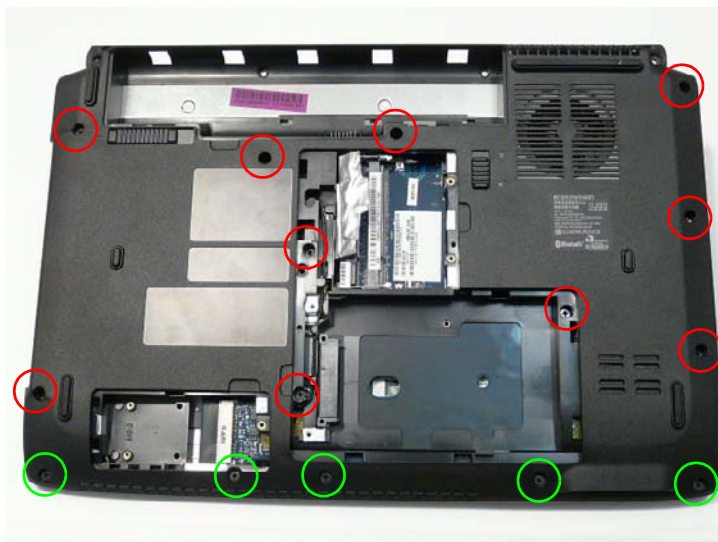




7. Replace the two securing screws in the Upper Cover.



Step	Size	Quantity	Screw Type
Upper Cover (red callout)	M2.5*5	1	
Upper Cover (green callout)	M2.5*3	1	

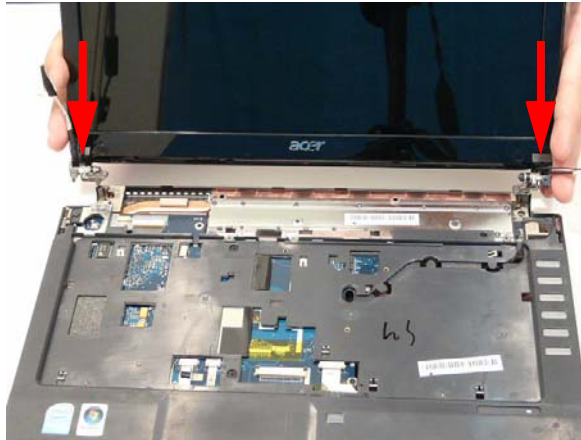
8. Turn the computer over. Replace the fifteen screws on the bottom panel.



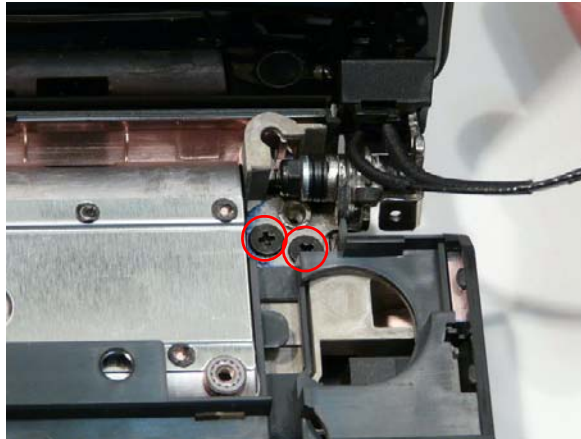
Step	Size	Quantity	Screw Type
Upper Cover (red call out)	M2.5*10	10	
Upper Cover (green callout)	M2.5*5	5	


Replacing the LCD Module

1. Carefully align the LCD module over the hinge sockets and lower the module into the chassis, taking care not to trap the LCD cables.

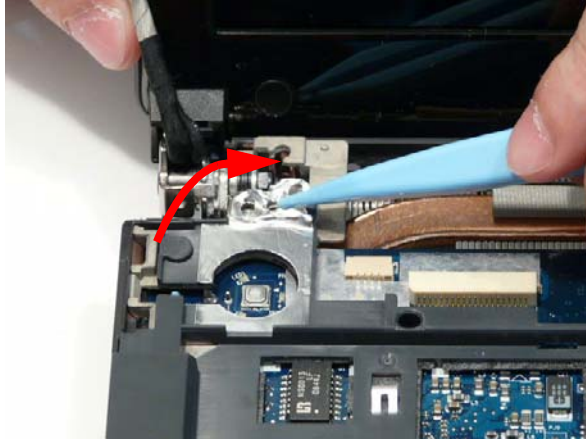


2. Replace the two securing screws on the right hinge as shown.

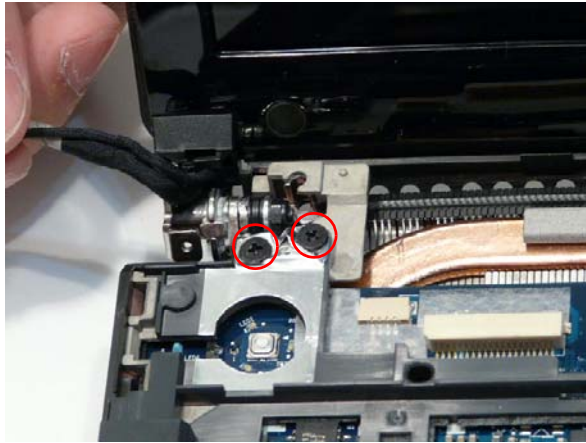



Step	Size	Quantity	Screw Type
LCD Module	M2.5*5	2	

3. Replace the adhesive strip on the left hinge.

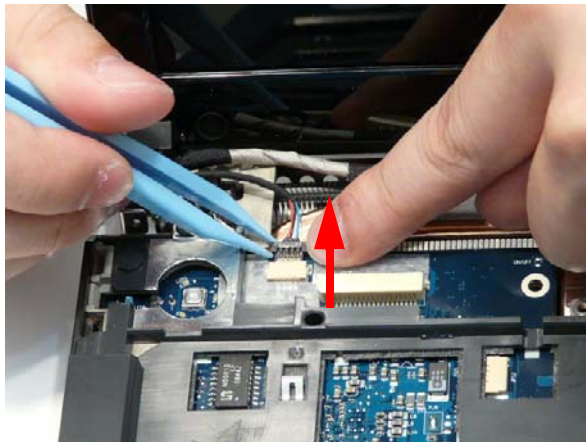


4. Replace the two securing screws on the left hinge as shown.

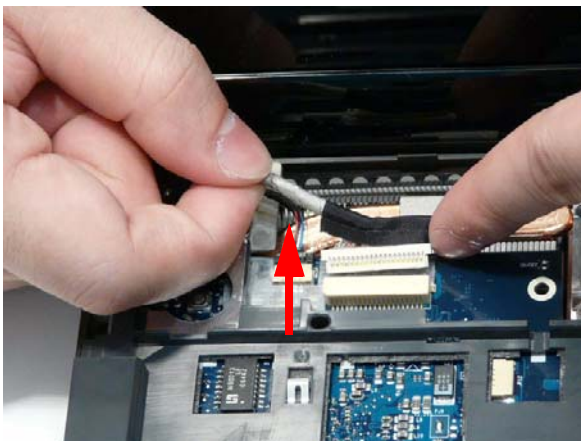


Step	Size	Quantity	Screw Type
LCD Module	M2.5*5	2	

5. Reconnect the Microphone cable to the Mainboard as shown.



6. Reconnect the LVDS cable to the Mainboard as shown.

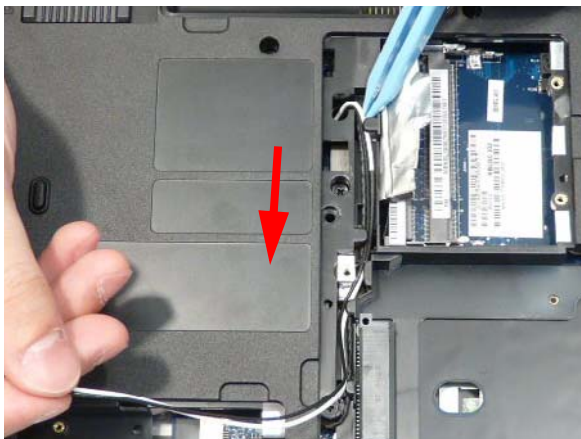


7. Insert the Antenna cables through the casing, as shown, and pull through from the underside.



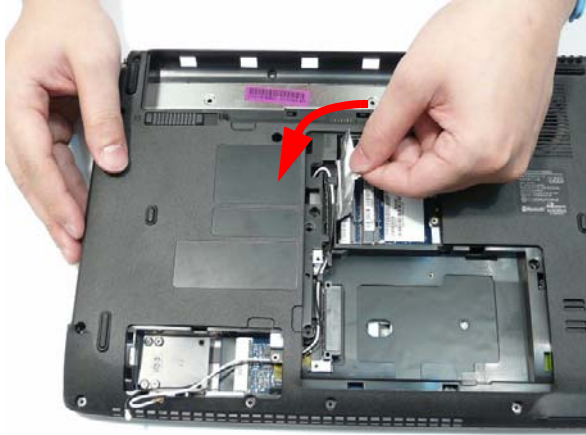
NOTE: Ensure the cable is pulled completely through the casing.

8. Run the Antenna cables along the cable channel as shown, using all available cable clips.

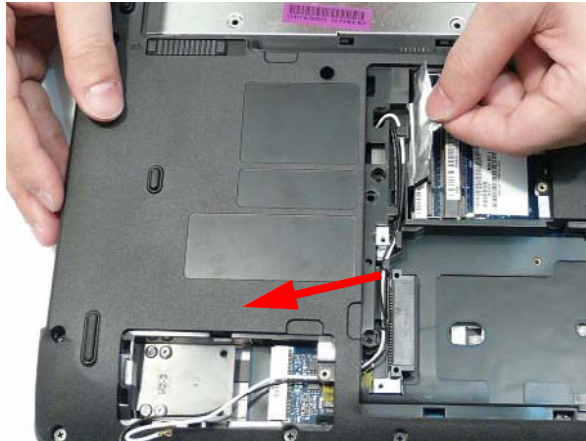


IMPORTANT: Run the cables as shown to avoid trapping when the Switch Cover is replaced.

9. Replace the adhesive strip to secure the cables in place.




10. Pull the Antenna through the casing into the WLAN bay as shown.

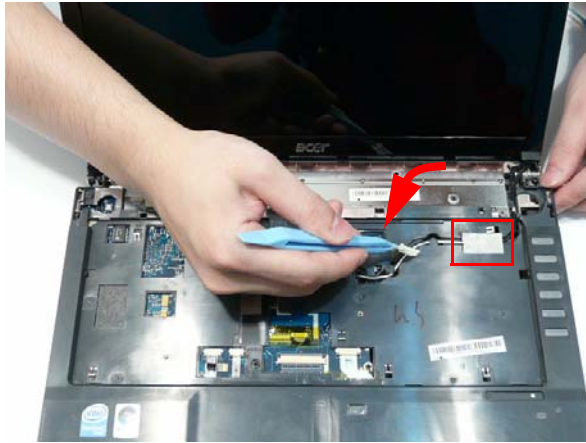


11. Turn the computer over. Replace the two securing screws.



Step	Size	Quantity	Screw Type
LCD Module	M2.5*5	2	

12. Replace the two pieces of adhesive tape securing the Antenna cables to the Upper Cover.

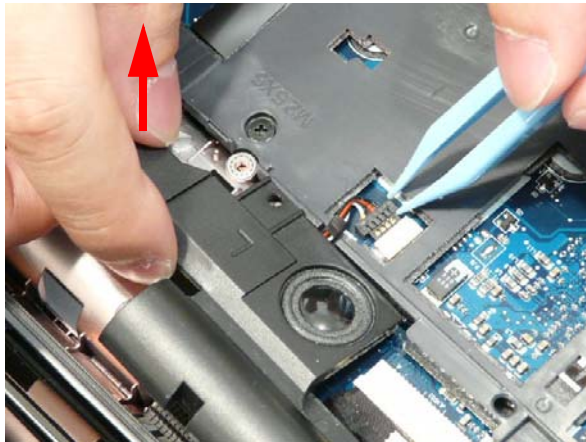


Replacing the Speaker Module

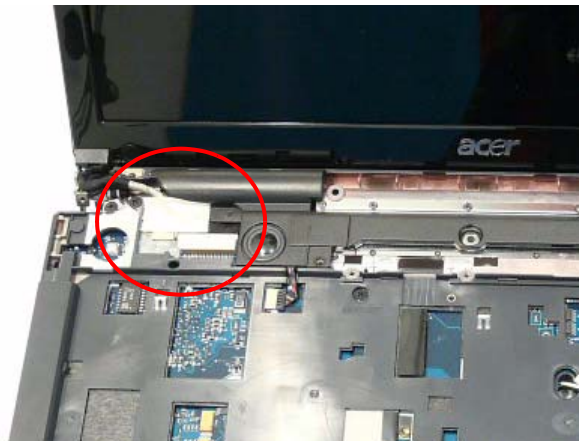
1. Align and replace the Speaker Module in the lower case.

IMPORTANT: Be sure the LVDS and microphone cables pass over the Speaker Module.

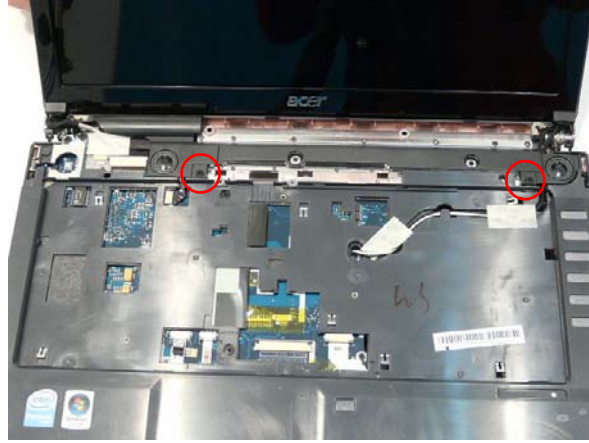
2. Reconnect the Speaker cable.




3. Replace the adhesive tape to secure the LCD cables in place.



4. Replace the two securing screws as shown.



Step	Size	Quantity	Screw Type
Speaker Module	M2.5*3	2	

Replacing the Keyboard

1. Place the Keyboard on the Upper Cover, face up and reconnect the FFC cable to the Mainboard, making sure to lock it in place.



-
2. Insert the Keyboard, bottom edge first, into the Upper Cover as shown. Ensure that the five tabs are correctly seated.



3. Press down both sides of the keyboard to secure it in place.



Replacing the Switch Cover

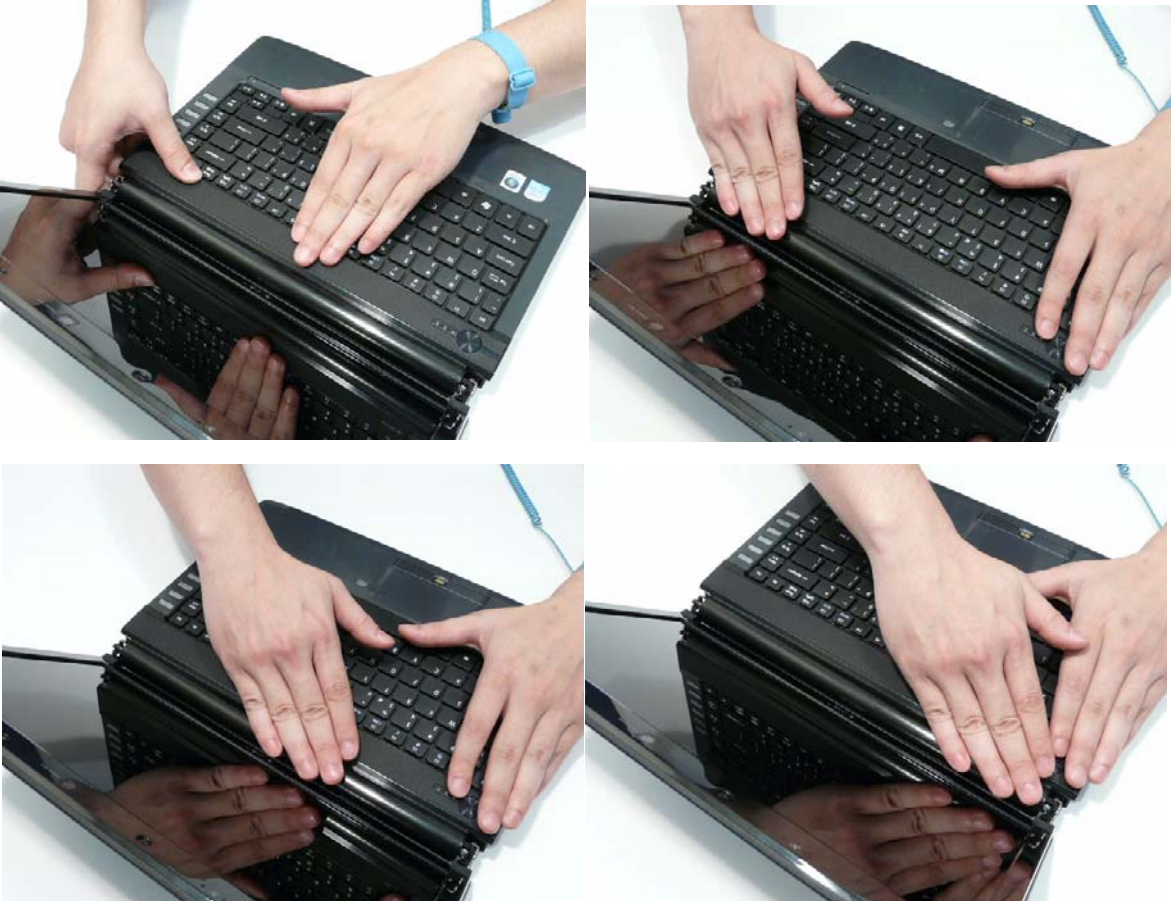
1. Place the Switch Cover on the Upper Case as shown.



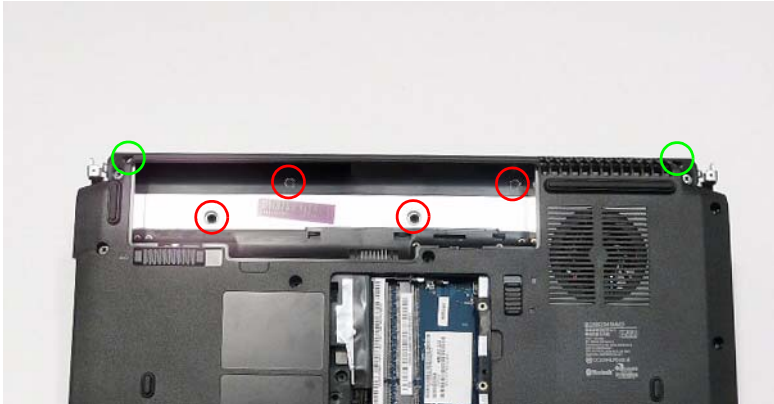
2. Press down both sides of the Switch Cover to snap it into place.





3. Continue to press down as shown to correctly seat the Switch Cover on the Upper Cover.



4. Turn the computer over and replace the six securing screws as shown.

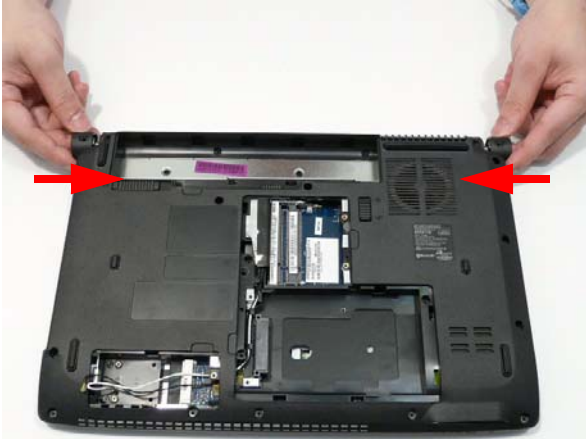


Step	Size	Quantity	Screw Type
Switch Cover (red callout)	M2.5*3	4	
Switch Cover (green callout)	M2.5*10	2	

Replacing the Hinge Covers


IMPORTANT: The left and right Hinge Covers are shaped differently and marked **L** and **R** on the inside. Ensure that the correct cover is used during reassembly.

- 1. Align the Hinge Covers screw hole side up and slide them on to the hinge assemblies.



- 2. Replace the two securing screws and caps.

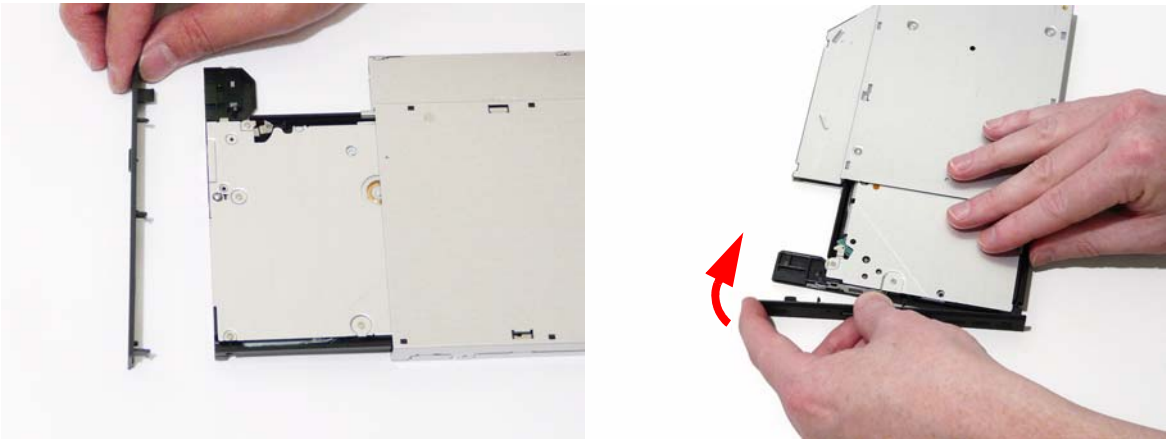


Step	Size	Quantity	Screw Type
Hinge Covers	M2*3	2	

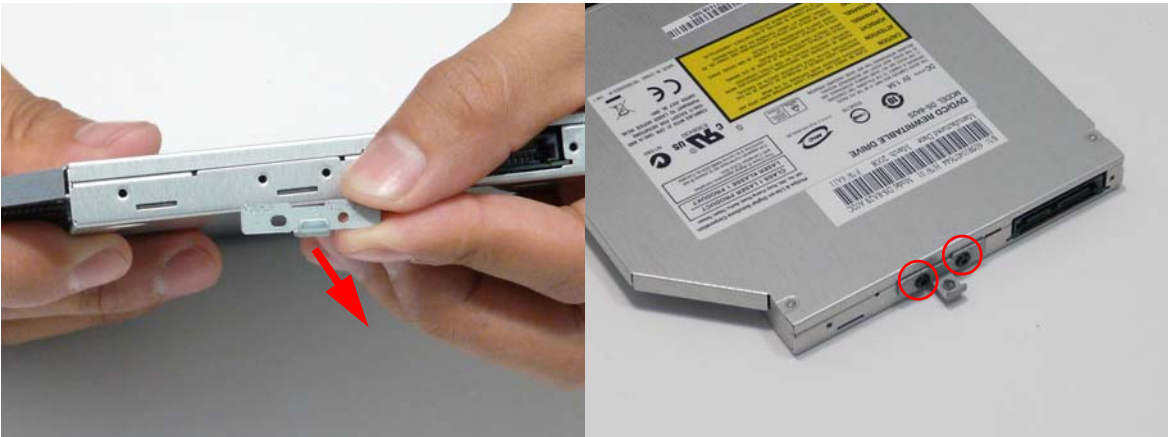
External Module Reassembly Process

Replacing the ODD Module

1. Align the ODD Bezel as shown and press it into place. Close the ODD drawer.



2. Align the ODD Bracket as shown and replace the securing screws.




3. Push the ODD Module into the chassis as shown until the bezel is flush with the casing.



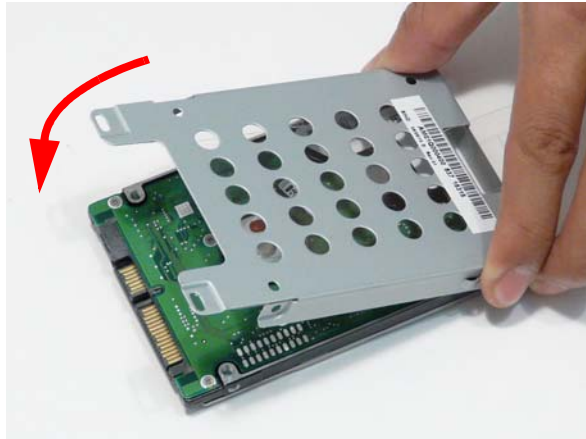
4. Replace the securing screw.



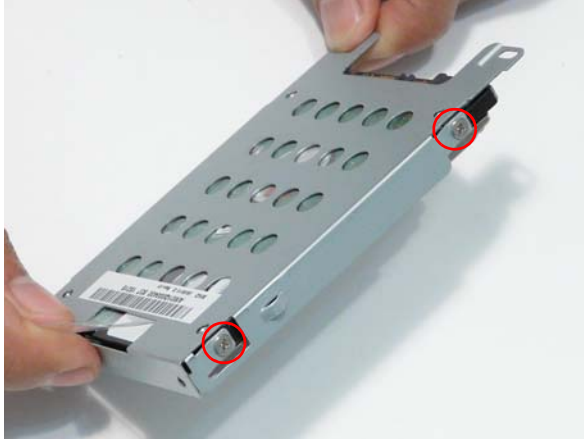
Step	Size	Quantity	Screw Type
ODD Module	M2.5*5	1	


Replacing the Hard Disk Drive Module

1. Place the HDD carrier on the HDD.

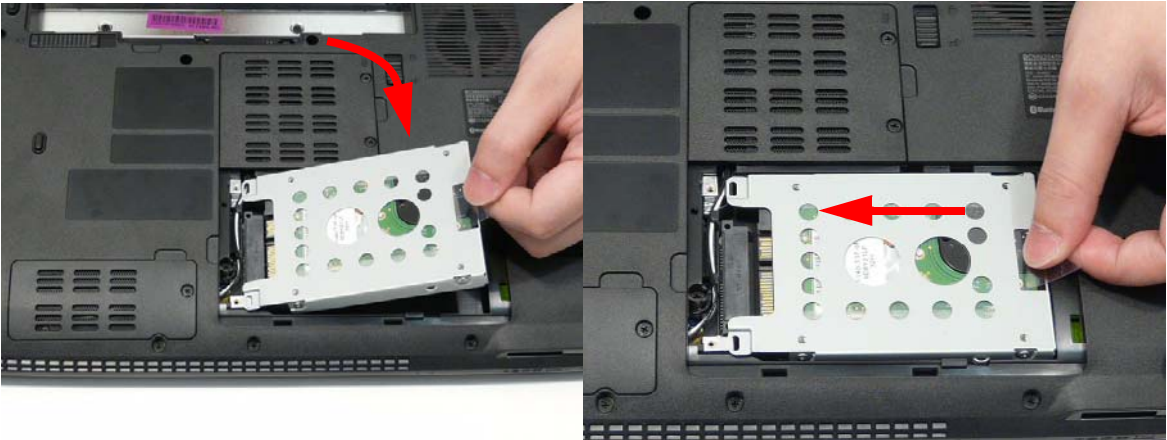


2. Replace the four securing screws (two each side).



Step	Size	Quantity	Screw Type
HDD Carrier	M3*3	4	

3. Place the HDD Module in the HDD bay as shown and slide it in the direction of the arrow to connect the interface.



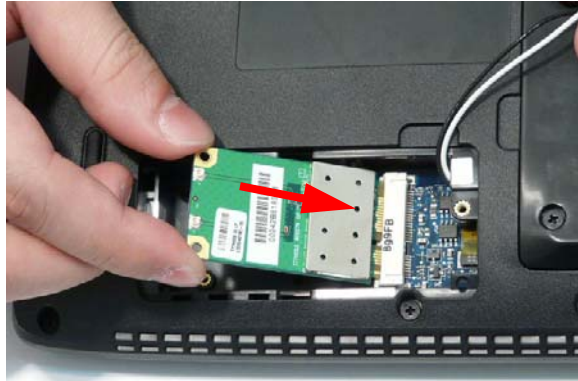
Replacing the DIMM Modules

1. Insert the DIMM Module flush with the connector and press down to lock in place.




Replacing the WLAN Module

1. Insert the WLAN board into the WLAN socket.



2. Replace the two screws to secure the module.

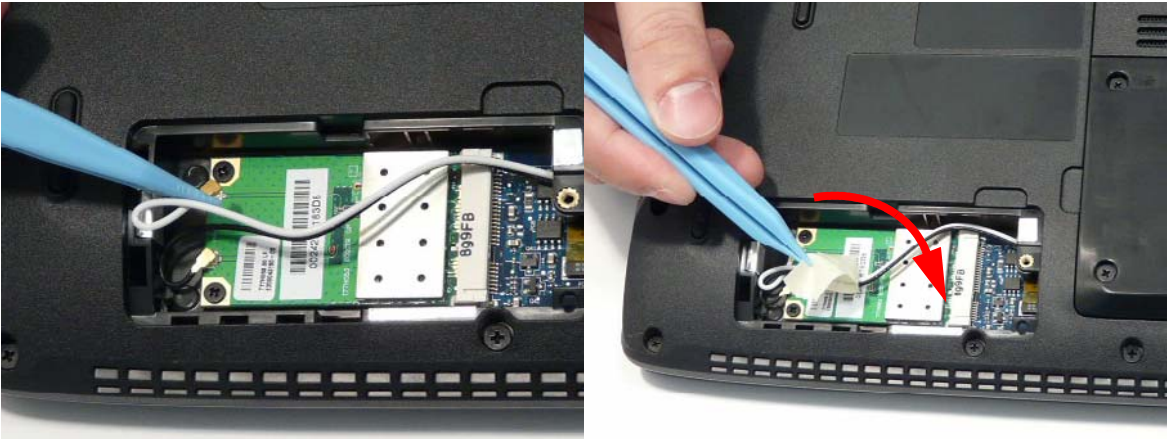


Step	Size	Quantity	Screw Type
WLAN Module	M2*3	2	

3. Connect the two antenna cables to the module.

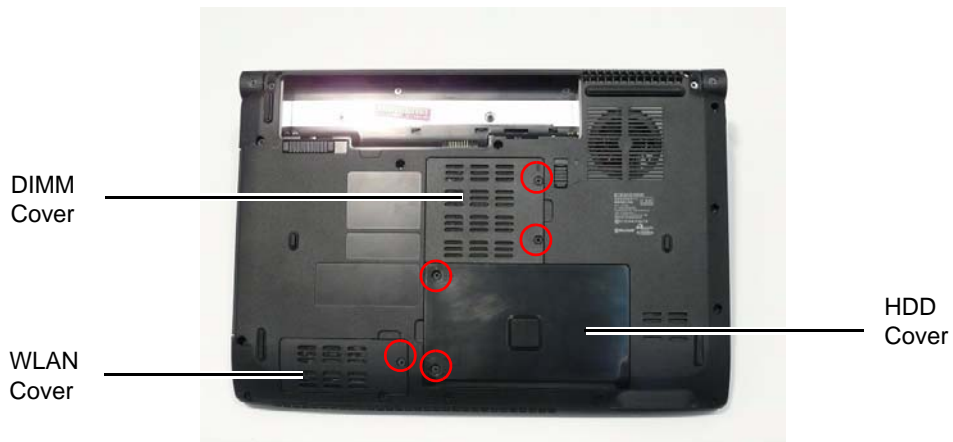
NOTE: The White cable goes to the upper terminal and the black cable to the lower terminal.

IMPORTANT: Ensure that the cabling is replaced as shown to avoid trapping when the covers are replaced.



Replacing the Lower Covers

1. Replace the Lower Covers and secure the captive screws.



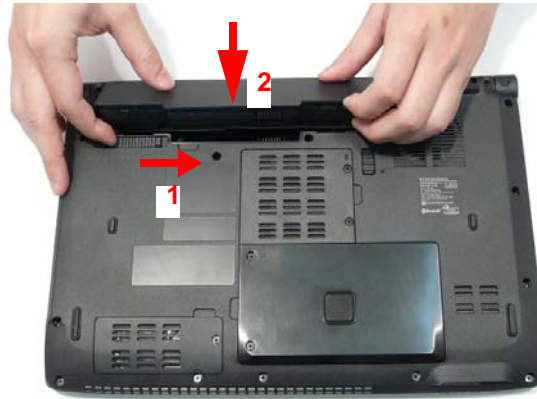
Replacing the SD Dummy Card

2. Insert the SD Card and push into the slot until flush with the chassis cover.



Replacing the Battery

1. Slide and hold the battery release latch to the release position (1), then insert the battery and press down (2).



2. Slide the battery lock/unlock latch to the lock position.



Troubleshooting

Common Problems

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.

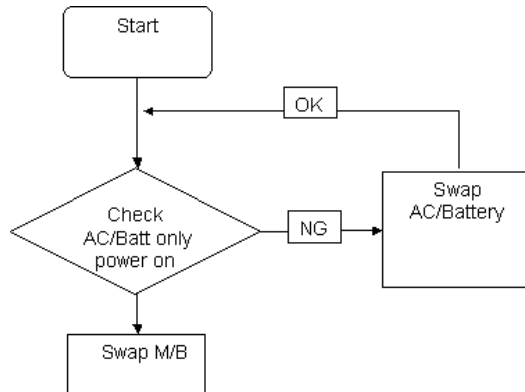
1. Obtain the failing symptoms in as much detail as possible.
2. Verify the symptoms by attempting to re-create the failure by running the diagnostic test or by repeating the same operation.
3. Use the following table with the verified symptom to determine which page to go to.

Symptoms (Verified)	Go To
Power On Issue	Page 138
No Display Issue	Page 139
LCD Failure	Page 141
Internal Keyboard Failure	Page 141
Touchpad Failure	Page 142
Internal Speaker Failure	Page 142
Internal Microphone Failure	Page 144
ODD Failure	Page 146
Rightside USB Failure	Page 149
Modem Failure	Page 149
WLAN/WiMAX Failure	Page 150
Bluetooth Failure	Page 150
EasyTouch Button Failure	Page 151
Media Board Failure	Page 151
Finger Print Reader Failure	Page 152
Thermal Unit Failure	Page 152
Other Functions Failure	Page 153
Intermittent Failures	Page 154
Undetermined Failures	Page 154

4. If the Issue is still not resolved, see "Online Support Information" on page 211.

Power On Issue

If the system doesn't power on, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



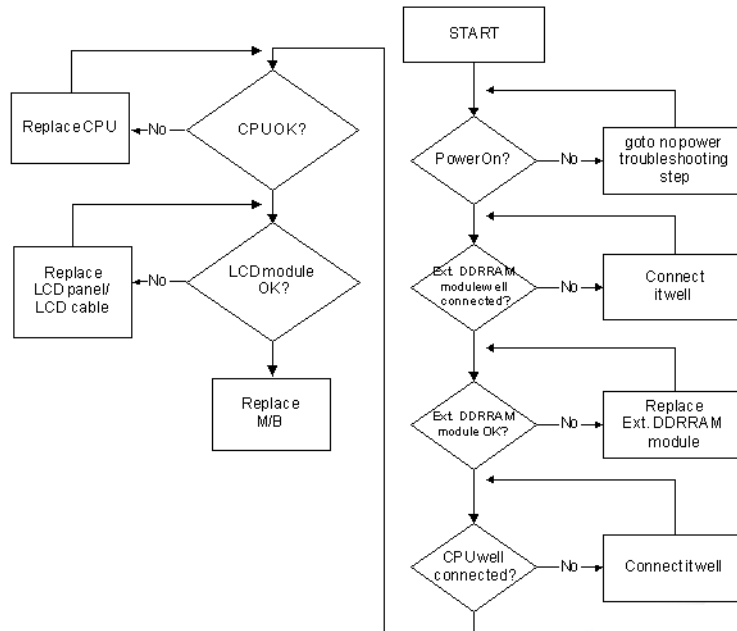
Computer Shutdown Intermittently

If the system powers off at intervals, perform the following actions one at a time to correct the problem.

1. Check the power cable is properly connected to the computer and the electrical outlet.
2. Remove any extension cables between the computer and the outlet.
3. Remove any surge protectors between the computer and the electrical outlet. Plug the computer directly into a known good electrical outlet.
4. Disconnect the power and open the casing to check the Thermal Unit and fan airways are free of obstructions.
5. Remove all external and non-essential hardware connected to the computer that are not necessary to boot the computer to the failure point.
6. Remove any recently installed software.
7. If the Issue is still not resolved, see "Online Support Information" on page 211.

No Display Issue

If the **Display** doesn't work, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



No POST or Video

If the POST or video doesn't display, perform the following actions one at a time to correct the problem.

1. Make sure that the internal display is selected. On this notebook model, switching between the internal display and the external display is done by pressing **Fn+F5**. Reference Product pages for specific model procedures.
2. Make sure the computer has power by checking at least one of the following occurs:
 - Fans start up
 - Status LEDs light up

If there is no power, see "Power On Issue" on page 138.

3. Drain any stored power by removing the power cable and battery and holding down the power button for 10 seconds. Reconnect the power and reboot the computer.
4. Connect an external monitor to the computer and switch between the internal display and the external display is by pressing **Fn+F5** (on this model).

If the POST or video appears on the external display, see "LCD Failure" on page 141.

5. Disconnect power and all external devices including port replicators or docking stations. Remove any memory cards and CD/DVD discs. Restart the computer.

If the computer boots correctly, add the devices one by one until the failure point is discovered.

6. Reseat the memory modules.
7. Remove the drives (see "Disassembly Process" on page 42).
8. If the Issue is still not resolved, see "Online Support Information" on page 211.

Abnormal Video Display

If video displays abnormally, perform the following actions one at a time to correct the problem.

1. Reboot the computer.
2. If permanent vertical/horizontal lines or dark spots display in the same location, the LCD is faulty and should be replaced. See “Disassembly Process” on page 42.
3. If extensive pixel damage is present (different colored spots in the same locations on the screen), the LCD is faulty and should be replaced. See “Disassembly Process” on page 42.
4. Adjust the brightness to its highest level. See the User Manual for instructions on adjusting settings.
NOTE: Ensure that the computer is not running on battery alone as this may reduce display brightness.
If the display is too dim at the highest brightness setting, the LCD is faulty and should be replaced. See “Disassembly Process” on page 42.
5. Check the display resolution is correctly configured:
 - a. Minimize or close all Windows.
 - b. If display size is only abnormal in an application, check the view settings and control/mouse wheel zoom feature in the application.
 - c. If desktop display resolution is not normal, right-click on the desktop and select **Personalize**→ **Display Settings**.
 - d. Click and drag the Resolution slider to the desired resolution.
 - e. Click **Apply** and check the display. Readjust if necessary.
6. Roll back the video driver to the previous version if updated.
7. Remove and reinstall the video driver.
8. Check the Device Manager to determine that:
 - The device is properly installed. There are no red Xs or yellow exclamation marks.
 - There are no device conflicts.
 - No hardware is listed under Other Devices.
9. If the Issue is still not resolved, see “Online Support Information” on page 211.
10. Run the Windows Memory Diagnostic from the operating system DVD and follow the onscreen prompts.
11. If the Issue is still not resolved, see “Online Support Information” on page 211.

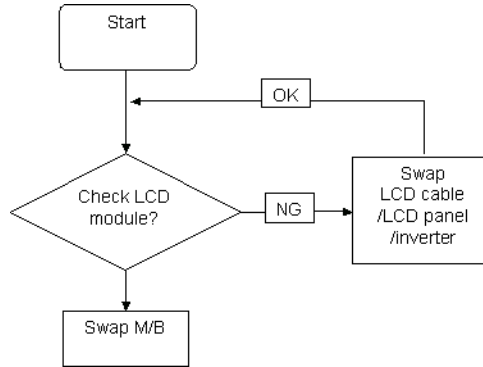
Random Loss of BIOS Settings

If the computer is experiencing intermittent loss of BIOS information, perform the following actions one at a time to correct the problem.

1. If the computer is more than one year old, replace the CMOS battery.
2. Run a complete virus scan using up-to-date software to ensure the computer is virus free.
3. If the computer is experiencing HDD or ODD BIOS information loss, disconnect and reconnect the power and data cables between devices.
If the BIOS settings are still lost, replace the cables.
4. If HDD information is missing from the BIOS, the drive may be defective and should be replaced.
5. Replace the Motherboard.
6. If the Issue is still not resolved, see “Online Support Information” on page 211.

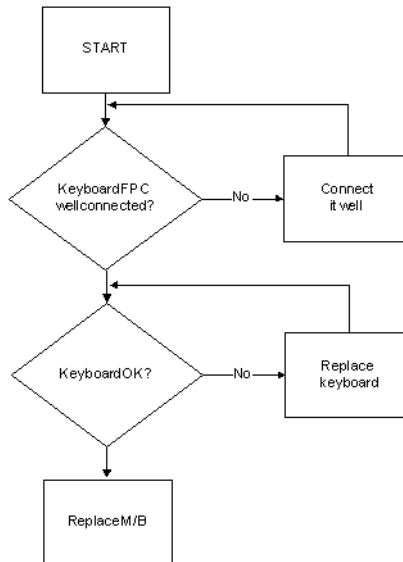
LCD Failure

If the **LCD** fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



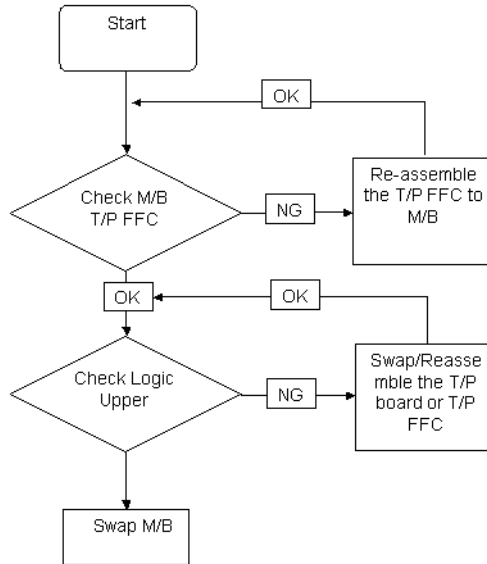
Built-In Keyboard Failure

If the built-in **Keyboard** fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



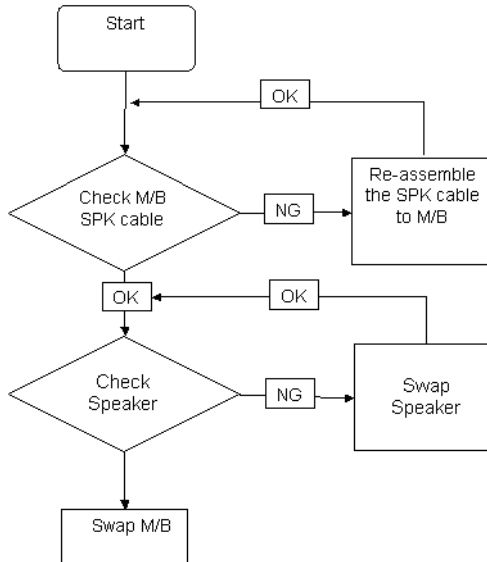
Touchpad Failure

If the **Touchpad** doesn't work, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



Internal Speaker Failure

If the internal **Speakers** fail, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



Sound Problems

If sound problems are experienced, perform the following actions one at a time to correct the problem.

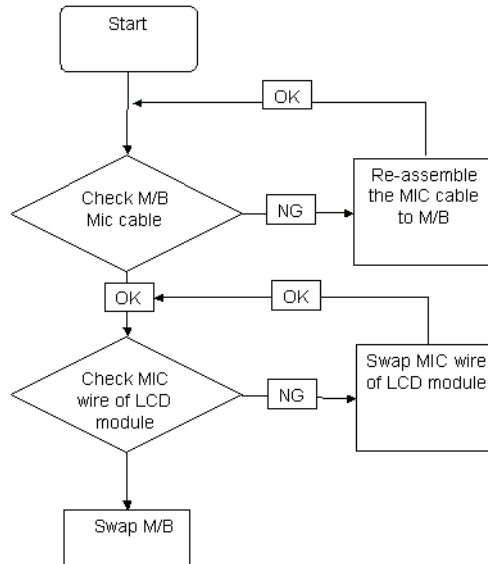
1. Reboot the computer.
2. Navigate to **Start** → **Control Panel** → **System and Maintenance** → **System** → **Device Manager**. Check the Device Manager to determine that:
 - The device is properly installed.
 - There are no red Xs or yellow exclamation marks.
 - There are no device conflicts.
 - No hardware is listed under Other Devices.
3. Roll back the audio driver to the previous version, if updated recently.
4. Remove and reinstall the audio driver.
5. Ensure that all volume controls are set mid range:
 - a. Click the volume icon on the taskbar and drag the slider to 50. Ensure that the volume is not muted.
 - b. Click Mixer to verify that other audio applications are set to 50 and not muted.
6. Navigate to **Start** → **Control Panel** → **Hardware and Sound** → **Sound**. Ensure that Speakers are selected as the default audio device (green check mark).

NOTE: If Speakers does not show, right-click on the **Playback** tab and select **Show Disabled Devices** (clear by default).
7. Select Speakers and click **Configure** to start **Speaker Setup**. Follow the onscreen prompts to configure the speakers.
8. Remove and recently installed hardware or software.
9. Restore system and file settings from a known good date using **System Restore**.

If the issue is not fixed, repeat the preceding steps and select an earlier time and date.
10. Reinstall the Operating System.
11. If the Issue is still not resolved, see “Online Support Information” on page 211.

Internal Microphone Failure

If the internal **Microphone** fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



Microphone Problems

If internal or external **Microphones** do not operate correctly, perform the following actions one at a time to correct the problem.

1. Check that the microphone is enabled. Navigate to **Start** → **Control Panel** → **Hardware and Sound** → **Sound** and select the **Recording** tab.
2. Right-click on the **Recording** tab and select **Show Disabled Devices** (clear by default).
3. The microphone appears on the **Recording** tab.
4. Right-click on the microphone and select **Enable**.
5. Select the microphone then click **Properties**. Select the **Levels** tab.
6. Increase the volume to the maximum setting and click **OK**.
7. Test the microphone hardware:
 - a. Select the microphone and click **Configure**.
 - b. Select **Set up microphone**.
 - c. Select the microphone type from the list and click **Next**.
 - d. Follow the onscreen prompts to complete the test.
8. If the Issue is still not resolved, see "Online Support Information" on page 211.

HDD Not Operating Correctly

If the **HDD** does not operate correctly, perform the following actions one at a time to correct the problem.

1. Disconnect all external devices.
2. Run a complete virus scan using up-to-date software to ensure the computer is virus free.
3. Run the Windows 7 Startup Repair Utility:
 - a. insert the Windows 7 Operating System DVD in the ODD and restart the computer.
 - b. When prompted, press any key to start to the operating system DVD.
 - c. The **Install Windows** screen displays. Click **Next**.
 - d. Select **Repair your computer**.
 - e. The **System Recovery Options** screen displays. Click **Next**.
 - f. Select the appropriate operating system, and click **Next**.

NOTE: Click **Load Drivers** if controller drives are required.

- g. Select **Startup Repair**.
- h. Startup Repair attempts to locate and resolve issues with the computer.
- i. When complete, click **Finish**.

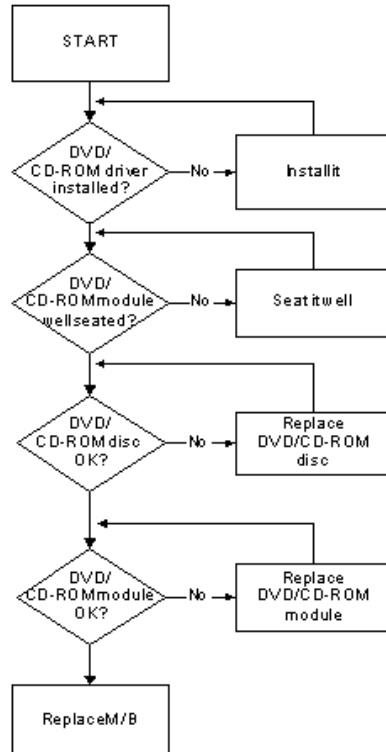
If an issue is discovered, follow the onscreen information to resolve the problem.

4. Run the Windows Memory Diagnostic Tool. For more information see Windows Help and Support.
5. Restart the computer and press F2 to enter the BIOS Utility. Check the BIOS settings are correct and that CD/DVD drive is set as the first boot device on the Boot menu.
6. Ensure all cables and jumpers on the HDD and ODD are set correctly.
7. Remove any recently added hardware and associated software.
8. Run the Windows Disk Defragmenter. For more information see Windows Help and Support.
9. Run Windows Check Disk by entering **chkdsk /r** from a command prompt. For more information see Windows Help and Support.
10. Restore system and file settings from a known good date using **System Restore**.

If the issue is not fixed, repeat the preceding steps and select an earlier time and date.
11. Replace the HDD. See "Disassembly Process" on page 42.

ODD Failure

If the **ODD** fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



ODD Not Operating Correctly

If the **ODD** exhibits any of the following symptoms it may be faulty:

- Audio CDs do not play when loaded
- DVDs do not play when loaded
- Blank discs do not burn correctly
- DVD or CD play breaks up or jumps
- Optical drive not found or not active:
 - Not shown in My Computer or the BIOS setup
 - LED does not flash when the computer starts up
 - The tray does not eject
- Access failure screen displays
- The ODD is noisy

Perform the following general solutions one at a time to correct the problem.

1. Reboot the computer and retry the operation.
2. Try an alternate disc.
3. Navigate to **Start** → **Computer**. Check that the ODD device is displayed in the **Devices with Removable Storage** panel.
4. Navigate to **Start** → **Control Panel** → **System and Maintenance** → **System** → **Device Manager**.

-
- a. Double-click **IDE ATA/ATAPI controllers**. If a device displays a down arrow, right-click on the device and click **Enable**.
 - b. Double-click **DVD/CD-ROM drives**. If the device displays a down arrow, right-click on the device and click **Enable**.
 - c. Check that there are no yellow exclamation marks against the items in **IDE ATA/ATAPI controllers**. If a device has an exclamation mark, right-click on the device and uninstall and reinstall the driver.
 - d. Check that there are no yellow exclamation marks against the items in **DVD/CD-ROM drives**. If a device has an exclamation mark, right-click on the device and uninstall and reinstall the driver.
 - e. If the exclamation marker is not removed from the item in the lists, try removing any recently installed software and retrying the operation.

Discs Do Not Play

If discs do not play when inserted in the drive, perform the following actions one at a time to correct the problem.

1. Check that the disc is correctly seated in the drive tray and that the label on the disc is visible.
2. Check that the media is clean and scratch free.
3. Try an alternate disc in the drive.
4. Ensure that **AutoPlay** is enabled:
 - a. Navigate to **Start** → **Control Panel** → **Hardware and Sound** → **AutoPlay**.
 - b. Select **Use AutoPlay for all media and devices**.
 - c. In the Audio CD and DVD Movie fields, select the desired player from the drop down menu.
5. Check that the Regional Code is correct for the selected media:

IMPORTANT:Region can only be changed a limited number of times. After Changes remaining reaches zero, the region cannot be changed even Windows is reinstalled or the drive is moved to another computer.

- a. Navigate to **Start** → **Control Panel** → **System and Maintenance** → **System** → **Device Manager**.
- b. Double-click **DVD/CD-ROM drives**.
- c. Right-click **DVD drive** and click **Properties**, then click the **DVD Region** tab.
- d. Select the region suitable for the media inserted in the drive.

Discs Do Not Burn Properly

If discs can not be burned, perform the following actions one at a time to correct the problem.

1. Ensure that the default drive is record enabled:
 - a. Navigate to **Start** → **Computer** and right-click the writable ODD icon. Click **Properties**.
 - b. Select the **Recording** tab. In the **Desktop disc recording** panel, select the writable ODD from the drop down list.
 - c. Click **OK**.
2. Ensure that the software used for burning discs is the factory default. If using different software, refer to the software's user manual.

Playback is Choppy

If playback is choppy or jumps, perform the following actions one at a time to correct the problem.

1. Check that system resources are not running low:
 - a. Try closing some applications.
 - b. Reboot and try the operation again.
2. Check that the ODD controller transfer mode is set to DMA:
 - a. Navigate to **Start** → **Control Panel** → **System and Maintenance** → **System** → **Device Manager**.

-
- b. Double-click **IDE ATA/ATAPI controllers**, then right-click ATA Device 0.
 - c. Click **Properties** and select the **Advanced Settings** tab. Ensure that the **Enable DMA** box is checked and click **OK**.
 - d. Repeat for the other ATA Devices shown if applicable.

Drive Not Detected

If Windows cannot detect the drive, perform the following actions one at a time to correct the problem.

1. Restart the computer and press F2 to enter the BIOS Utility.
2. Check that the drive is detected in the **ATAPI Model Name** field on the Information page.
NOTE: Check that the entry is identical to one of the ODDs specified in “Hardware Specifications and Configurations” on page 15.
3. Turn off the power and remove the cover to inspect the connections to the ODD. See “Disassembly Process” on page 42.
 - a. Check for broken connectors on the drive, motherboard, and cables.
 - b. Check for bent or broken pins on the drive, motherboard, and cable connections.
 - c. Try an alternate cable, if available. If the drive works with the new cable, the original cable should be replaced.
4. Reseat the drive ensuring and all cables are connected correctly.
5. Replace the ODD. See “Disassembly Process” on page 42.

Drive Read Failure

If discs cannot be read when inserted in the drive, perform the following actions one at a time to correct the problem.

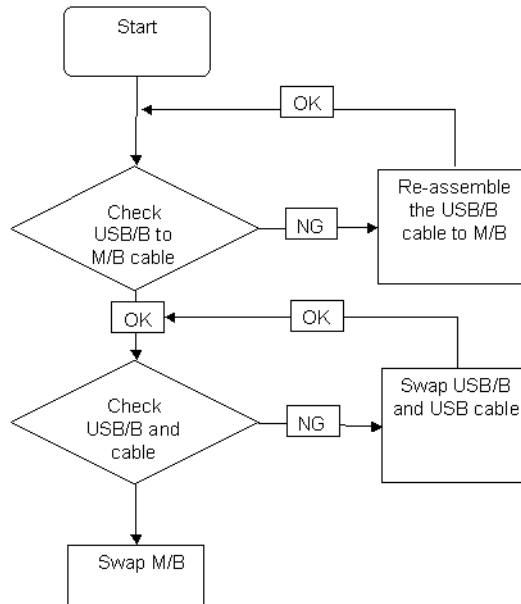
1. Remove and clean the failed disc.
2. Retry reading the CD or DVD.
 - d. Test the drive using other discs.
 - e. Play a DVD movie
 - f. Listen to a music CD

If the ODD works properly with alternate discs, the original disc is probably defective and should be replaced.

3. Turn off the power and remove the cover to inspect the connections to the ODD. See “Disassembly Process” on page 42.
 - a. Check for broken connectors on the drive, motherboard, and cables.
 - b. Check for bent or broken pins on the drive, motherboard, and cable connections.
 - c. Try an alternate cable, if available. If the drive works with the new cable, the original cable should be replaced.
4. Replace the ODD. See “Disassembly Process” on page 42.

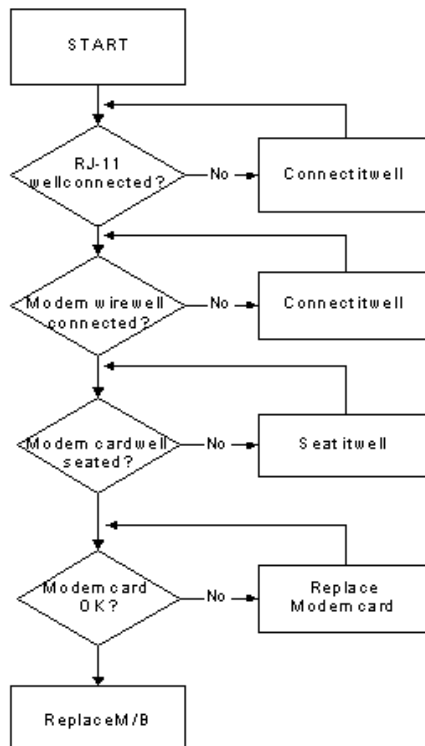
USB Failure (Rightside)

If the rightside **USB** port fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



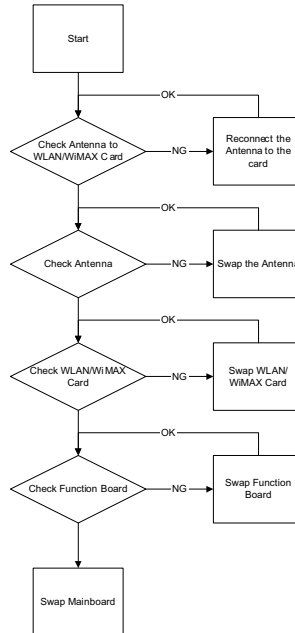
Modem Function Failure

If the internal **Modem** fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



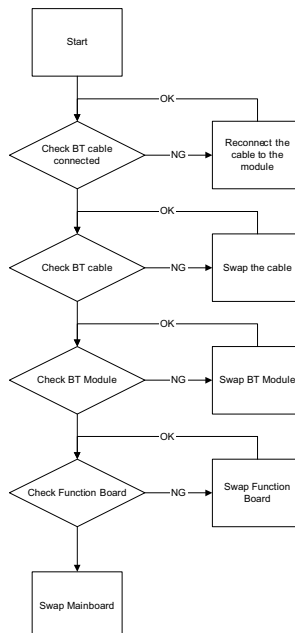
Wireless Function Failure

If the **WLAN/WiMAX** fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



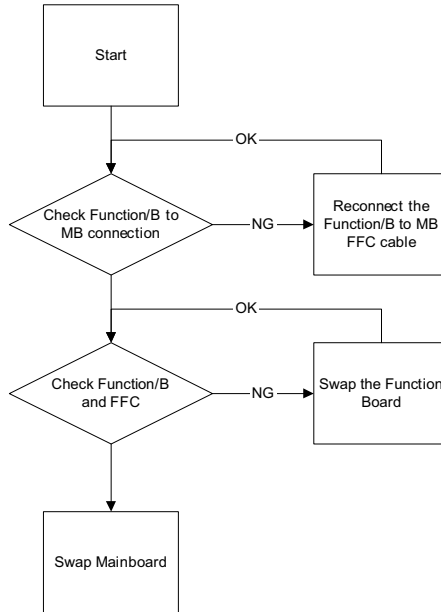
Bluetooth Function Failure

If the **Bluetooth** fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



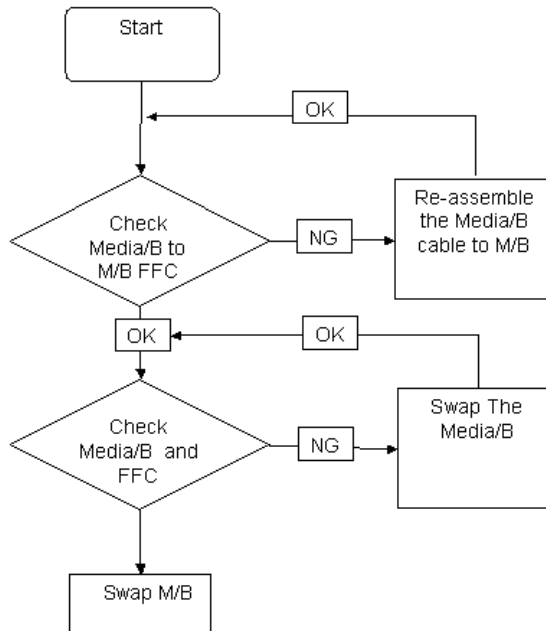
EasyTouch Button Failure

If the **Acer EasyTouch** buttons fail, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



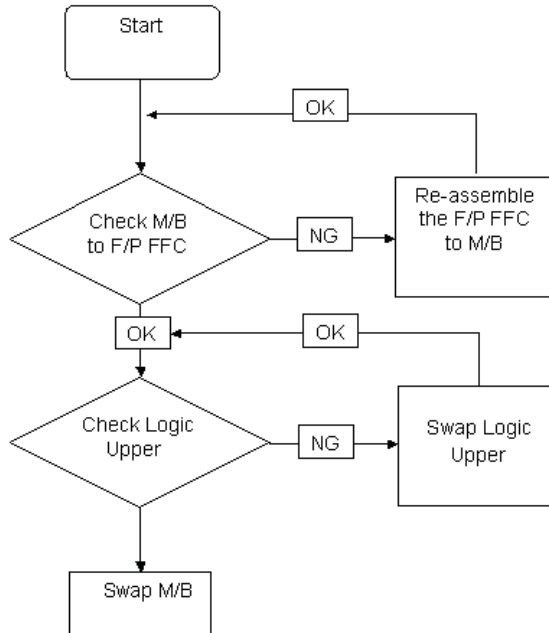
Media Board Failure

If the **Media Board** fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



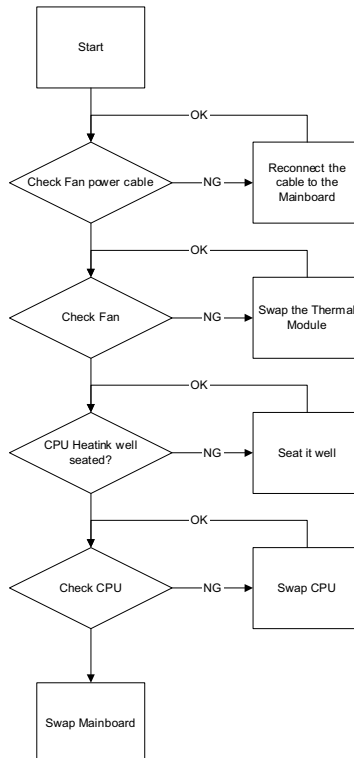
Fingerprint Reader Failure

If the **Fingerprint Reader** fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



Thermal Unit Failure

If the **Thermal Unit** fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



External Mouse Failure

If an external **Mouse** fails, perform the following actions one at a time to correct the problem.

1. Try an alternative mouse.
2. If the mouse uses a wireless connection, insert new batteries and confirm there is a good connection. See the mouse user manual.
3. If the mouse uses a USB connection, try an alternate USB port.
4. Try an alternative program to verify mouse operation. Reinstall the program experiencing mouse failure.
5. Restart the computer.
6. Remove any recently added hardware and associated software.
7. Remove any recently added software and reboot.
8. Restore system and file settings from a known good date using **System Restore**.

If the issue is not fixed, repeat the preceding steps and select an earlier time and date.

9. Run the Event Viewer to check the events log for errors. For more information see Windows Help and Support.
10. Roll back the mouse driver to the previous version if updated recently.
11. Remove and reinstall the mouse driver.
12. Check the Device Manager to determine that:
 - The device is properly installed. There are no red Xs or yellow exclamation marks.
 - There are no device conflicts.
 - No hardware is listed under Other Devices.
13. If the Issue is still not resolved, see "Online Support Information" on page 211.

Other Failures

If the CRT Switch, Dock, LAN Port, external MIC or Speakers, PCI Express Card, 5-in-1 Card Reader or Volume Wheel fail, perform the following general steps to correct the problem. Do not replace a non-defective FRUs:

1. Check Drive whether is OK.
2. Check Test Fixture is ok.
3. Swap M/B to Try.

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 On Issue” on page 138.):

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

POST Codes Tables

These tables describe the POST codes and descriptions during the POST.

Sec:

NO_EVICTION_MODE_DEBUG EQU 1 (CommonPlatform\sec\ia32\SecCore.inc)

Code	Description
0xC2	MTRR setup
0xC3	Enable cache
0xC4	Establish cache tags
0xC5	Enter NEM, Place the BSP in No Fill mode, set CR0.CD = 1, CR0.NW = 0
0xCF	Cache Init Finished

Memory:

DEBUG_BIOS equ 1 (Chipset\Alviso\MemoryInitAsm\IA32\IMEMORY.INC)

Code	Description
0xA0	First memory check point
0x01	Enable MCHBAR
0x02	Check for DRAM initialization interrupt and reset fail
0x03	Verify all DIMMs are DDR3 and unbuffered
0x04	Detect an improper warm reset and handle
0x05	Detect if ECC SO-DIMMs are present in the system
0x06	Verify all DIMMs are single or double sided and not asymmetric
0x07	Verify all DIMMs are x8 or x16 width
0x08	Find a common CAS latency between the DIMMS and the MCH
0x09	Determine the memory frequency and CAS latency to program
0x10	Determine the smallest common TRAS for all DIMMs
0x11	Determine the smallest common TRP for all DIMMs
0x12	Determine the smallest common TRCD for all DIMMs
0x13	Determine the smallest refresh period for all DIMMs
0x14	Verify burst length of 8 is supported by all DIMMs
0x15	Determine the smallest tWR supported by all DIMMs
0x16	Determine DIMM size parameters
0x17	Program the correct system memory frequency
0x18	Determine and set the mode of operation for the memory channels
0x19	Program clock crossing registers
0x20	Disable Fast Dispatch
0x21	Program the DRAM Row Attributes and DRAM Row Boundary registers
0x22	Program the DRAM Bank Architecture register
0x23	Program the DRAM Timing & and DRAM Control registers
0x24	Program ODT
0x25	Perform steps required before memory init
0x26	Program the receive enable reference timing control register Program the DLL Timing Control Registers, RCOMP settings

Code	Description
0x27	Enable DRAM Channel I/O Buffers
0x28	Enable all clocks on populated rows
0x29	Perform JEDEC memory initialization for all memory rows
0x30	Perform steps required after memory init
0x31	Program DRAM throttling and throttling event registers
0x32	Setup DRAM control register for normal operation and enable
0x33	Enable RCOMP
0x34	Clear DRAM initialization bit in the SB
0x35	Initialization Sequence Completed, program graphic clocks
0x43	Program Thermal Throttling

BDS & Specific action:

Code	Description
0x00	Report the legacy boot is happening
0x12	Wake up the Aps
0x13	Initialize SMM Private Data and relocate BSP SMBASE
0x21	PC init begin at the stage1
0x27	Report every memory range do the hard ware ECC init
0x28	Report status code of every memory range
0x50	Get the root bridge handle
0x51	Notify pci bus driver starts to program the resource
0x58	Reset the host controller
0x5A	IdeBus begin initialization
0x79	Report that the remote terminal is being disabled
0x7A	Report that the remote terminal is being enabled
0x90	Keyboard reset
0x91	USB Keyboard disable
0x92	Keyboard detection
0x93	Report that the usb keyboard is being enabled
0x94	Clear the keyboard buffer
0x95	Init Keyboard
0x98	Mouse reset
0x99	Mouse disable
0x9A	Detect PS2 mouse
0x9B	Report that the mouse is being enabled
0xB8	Peripheral removable media reset (ex: IsaFloppy, USB device)
0xB9	Peripheral removable media disable
0xBB	Peripheral removable media enable
0xE4	Report Status Code here for DXE_ENTRY_POINT once it is available
0xF8	Report that ExitBootServices() has been called
0xF9	Runtime driver set virtual address map

Each PEIM entry point used in 80_PORT

Code	Description
0x00	
0x01	PEI_EVENT_LOG
0xA1	PEI_OEM_SERVICE
0xA2	PEI_SIO_INIT
0xA3	PEI_MONO_STATUS_CODE
0xA4	PEI_CPU_IO_PCI_CFG
0x06	PEI_CPU_IO
0x07	PEI_PCI_CFG
0xA5	PEI_CPU_PEIM
0xA6	PEI_PLATFORM_STAGE1
0xA7	PEI_VARIABLE
0xA8	PEI_SB_INIT
0x0C	PEI_CAPSULE
0xAA	PEI_PLATFORM_STAGE2
0xAC	PEI_SB_SMBUS_ARP_DISABLED
0x0F	PEI_HOST_TO_SYSTEM
0x40	PEI_MEMORY_INIT
0x41	PEI_S3_RESUME
0xAD	PEI_CLOCK_GEN
0xAB	PEI_OP_PRESENCE
0xAE	PEI_FIND_FV
0x16	PEI_H2O_DEBUG_IO
0x17	PEI_H2O_DEBUG_COMM
0x16~0x1F	PEI_RESERVED
0x20~0x2E	PEI_OEM_DEFINED
0xAF	PEI_DXE_IPL

Each Driver entry point used in 80_PORT

Code	Description
0x30	RESERVED
0xB6	DXE_CRC32_SECTION_EXTRACT
0xB8	SCRIPT_SAVE
0xB9	ACPI_S3_SAVE
0xBA	SMART_TIMER
0xBB	JPEG_DECODER
0xBC	PCX_DECODER
0xBE	HT_CPU / MP_CPU
0xBF	LEGACY_METRONOME
0xC0	FTWLITE
0xC1	RUN_RIME
0xC2	MONOTONIC_COUNTER
0xC3	WATCH_DOG_TIMER

Code	Description
0xC4	SECURITY_STUB
0xC5	DXE_CPU_IO
0xC6	CF9_RESET
0xC7	PC_RTC
0xC8	STATUS_CODE
0xC9	VARIABLE EMU_VARIABLE
0xD9	DXE_CHIPSET_INIT
0x45	DXE_ALERT_FORMAT
0xD6	PCI_HOST_BRIDGE
0xD7	PCI_EXPRESS
0xD5	DXE_SB_INIT
0xDA	IDE_CONTROLLER
0xDB	SATA_CONTROLLER
0xDD	SB_SM_BUS
0xE7	ISA_ACPI_DRIVER
0xE8	ISA_BUS
0xE9	ISA_SERIAL
0xED	BUS_PCI_UNDI
0xEC	PCI_BUS
0xF6	BOOT_PRIORITY
0xF7	FVB_SERVICE
0xF8	ACPI_PLATFORM
0xFB	PCI_HOT_PLUG
0xFC	DXE_PLATFORM
0xFD	PLATFORM_IDE
0x97	SMBIOS
0x98	MEMORY_SUB_CLASS
0x99	MISC_SUB_CLASS
0x82	CON_PLATFORM
0x83	SAVE_MEMORY_CONFIG
0x84	ACPI_SUPPORT
0x85	CON_SPLITTER_UGA_VGA / CON_SPLITTER
0x88	VGA_CLASS
0x89	DATA_HUB
0x60	DISK_IO
0x8B	MEMORY_TEST
0x62	CRISIS_RECOVERY
0x8D	LEGACY_8259
0x8E	LEGACY_REGION
0x8F	LEGACY_INTERRUPT
0x70	BIOS_KEYBOARD
0x71	BIOS_VEDIO

Code	Description
0x72	MONITER_KEY
0x73	LEGACY_BIOS
0x75	LEGACY_BIOS_PLATFORM
0x76	PCI_PLATFORM
0x6C	ISA_FLOOPY
0x6D	PS2_MOUSE
0x6E	USB_BOT
0x6F	USB_CBIO
0x74	USB_MOUSE
0xFA	SETUP_UTILITY
0x90	FW_BLOCK_SERVICE
0x78	SMM_USB_LEGACY
0x86	GRAPHICS_CONSOLE
0x87	TERMINAL
0x8A	DATA_HUB_STD_ERR
0x7C	FAT
0x7D	PARTITION
0x7E	ENGLISH
0x7F	FRENCH
0x9E	HII_DATABASE
0x9F	OEM_SETUP_BROWSER
0x8C	OEM_BADGING_SUPPORT
0xF9	SETUP_MOUSE
0x72	MONITOR_KEY
0xBD	PLATFORM_BDS
0x8D	RESERVED
0x8E	RESERVED
0x8F	RESERVED
0xA0	DXE_H2O_DEBUG_IO
0xB3	DXE_TPM_TCG
0xB4	DXE_TPM_PHYSICAL_PRESENCE
0xB7	DXE_OEM_SERVICE
0x9B	DXE_SECURITY_HDD_PASSWORD_SERVICE
0xA9	DXE_LAN_IDER_CONTROLLER
0x9C	DXE_SECURITY_SYSTEM_PASSWORD_SERVICE
0x9D	DXE_SECURITY_PASSWORD_CONSOLE
0xCB	DXE_DATA_HUB_RECORD_POLICY
0xB5	DXE_TPM_DRIVER
0x11	CHINESE
0xB0	JAPANESE
0xB1	DXE_UNICODE_COLLATION

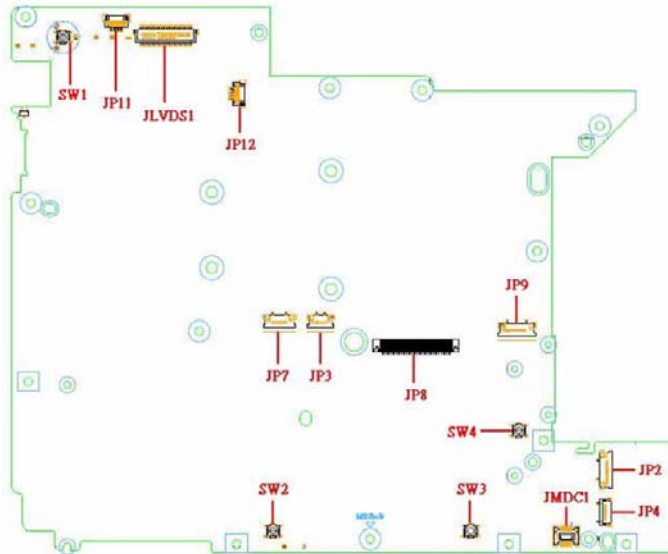
Each SmmDriver entry point used in 80_PORT

Code	Description
0xD4	SMM_ACCESS
0xDE	SMM_CONTROL
0xCC	SMM_BASE
0xD2	SMM_RUNTIME
0xDF	SB_SMM_DISPATCH
0xD0	SMM_THUNK
0xCA	SMM_ACPI_SW_CHILD
0xFE	SMM_PLATFORM
0xD8	SMM_GMCH_MBI
0x90	SMM_FW_BLOCK_SERVICE
0x91	SMM_VARIABLE
0x92	SMM_IHISI
0x93	SMM_INT15_MICROCODE
0x94	SMM_PNP
0x95	SMM_INIT_PPM
0xD3	SMM_OEM_SERVICE

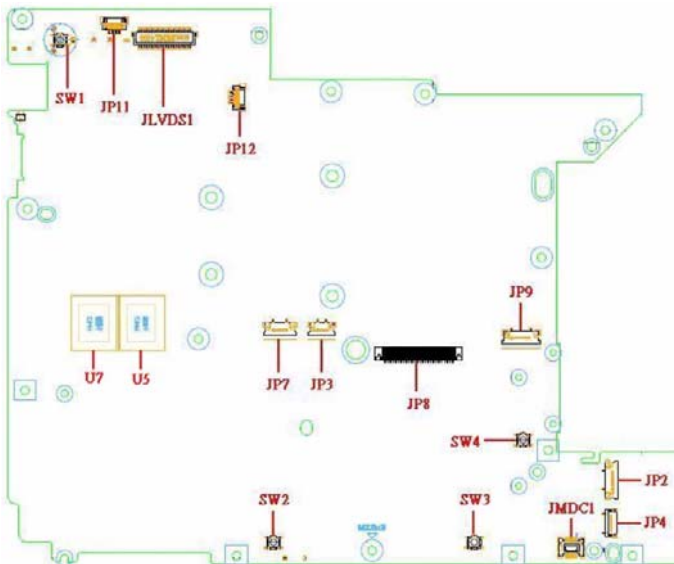
Jumper and Connector Locations

Top View

VGA UMA



Discrete

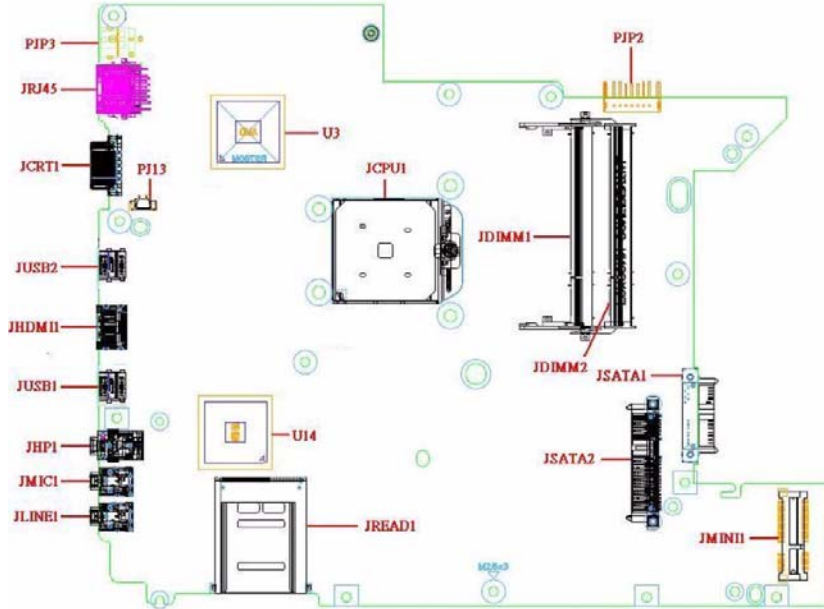


Item	Description	Item	Description
SW1	ON/OFF Button	U7	VRAM
JP11	Camera Connector	U5	VRAM
JLVDS1	LCD Connector	SW4	Touch Pad Lock Button
JP12	Speaker Connector	SW 2	Touch Pad (left) Button
JP4	Bluetooth Connector	SW 3	Touch Pad (right) Button

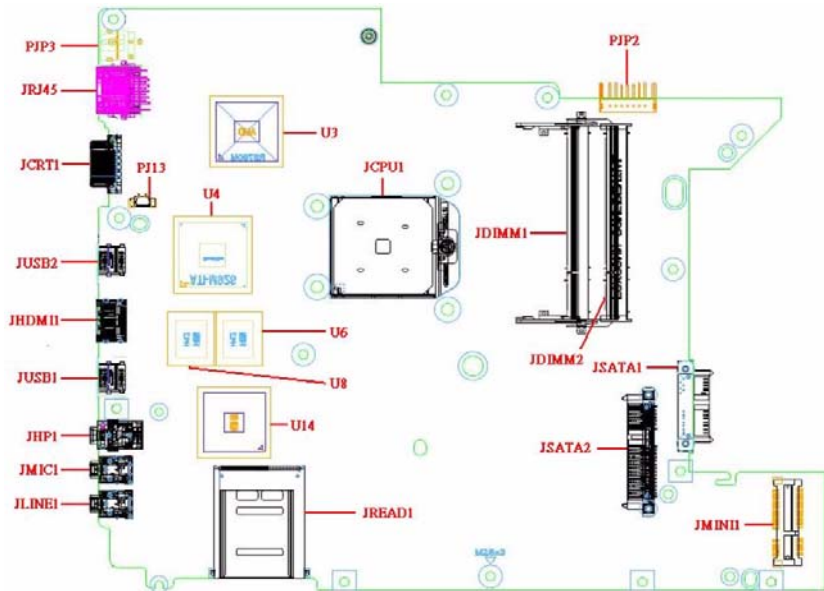
Item	Description	Item	Description
JP7	Touch Pad Connector	JMDCI	USB Connector
JP3	FP/B Connector	JP8	Keyboard Connector
JP9	Fun/B Connector	JP2	USB/B Connector

Bottom View

VGA UMA



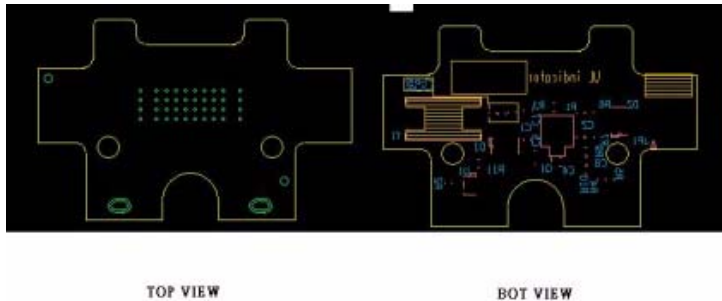
Discrete VGA



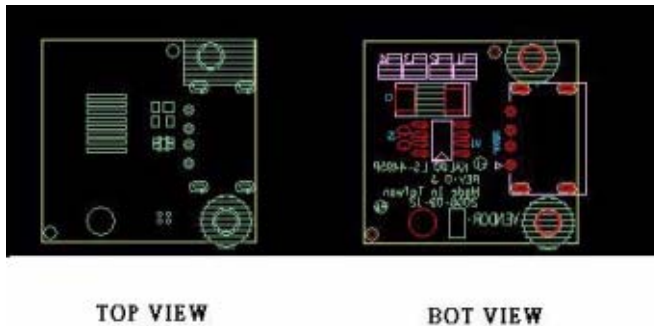
Item	Description	Item	Description
PJP3	AC-IN Connector	JRJ45	RJ45 Connector
JCRT1	CRT Connector	PJ13	TBD
JUSB2	USB Connector	JHDMI1	HDMI Connector

Item	Description	Item	Description
JUSB1	USB Connector	JHP1	Head-Phone Jack
U6	VRAM	JMIC1	MIC-In Jack
JPLINE1	Line-In Jack	U4	GPU
U8	VRAM	U14	South Bridge
JREAD1	Card Reader Connector	JDIMM1	MemoryDIMM1 Connector
JDIMM2	MemoryDIMM2 Connector	JSATA1	ODD Connector
JSATA2	HDD Connector	JMINI1	Wireless Card Connector
PJP2	Battery Connector	JCPU1	CPU Socket
U3	North Bridge		

LS-4494P Fingerprint Board



LS-4495P USB Board



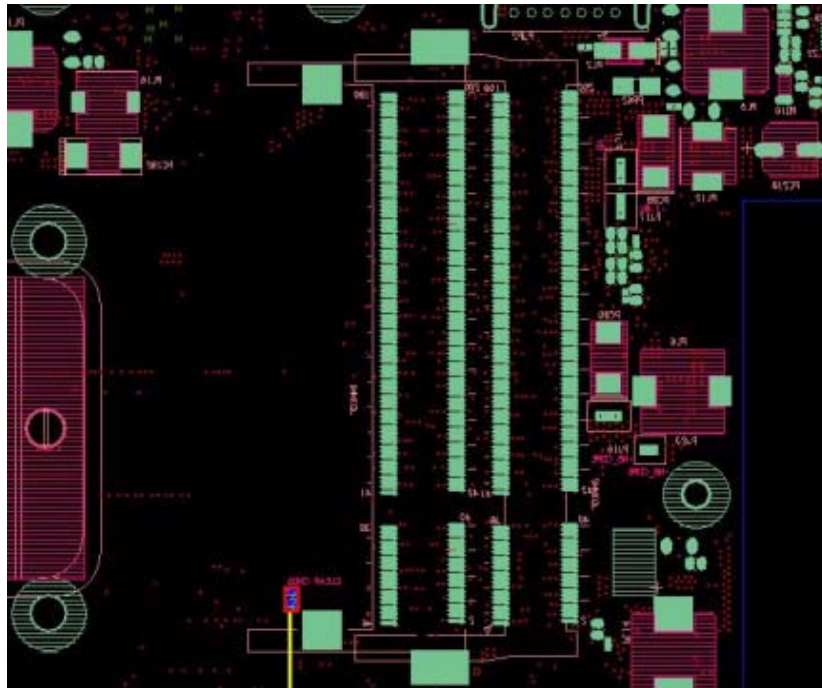
Clearing Password Check and BIOS Recovery

This section provide you the standard operating procedures of clearing password and BIOS recovery for Aspire 4540/4240. Aspire 4540/4240 provides 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

Description	Location
Clear CMOS Jumper	Memory bay



Short here to Clear CMOS

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:

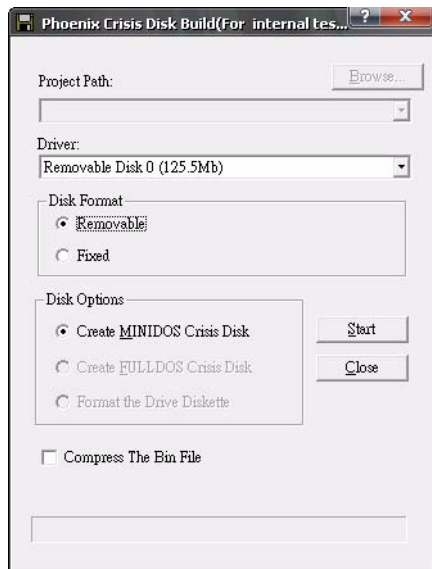
The system provides a function hotkey: **Fn+Esc**, for enable BIOS Recovery process when system is powered on during BIOS POST. To use this function, it is strongly recommended to have the AC adapter and Battery present. If this function is enabled, the system will force the BIOS to enter a special BIOS 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. Plug in the USB Floppy Disk.
2. Copy **kb1g009.wph** to the tool's folder and rename it as **BIOS.wph**. Execute **wincris.exe**.
3. Select the **Removable** option for Disk Format and click **Start**. Follow the instructions on the screen.



4. Click **Format** to format and create the disk.
5. A message on the screen shows when the crisis recovery disk has been created.



To use the crisis recovery disk, do the following:

1. Plug in the USB Flash Disk without AC plug.
2. Press **Fn + Esc** and then plug in AC power while holding down the keys. Power button flashes orange.
3. Press **Power** button and system will enter crisis mode to flash the BIOS.
4. Update to the latest version BIOS for the system using the regular BIOS flashing process.

FRU (Field Replaceable Unit) List

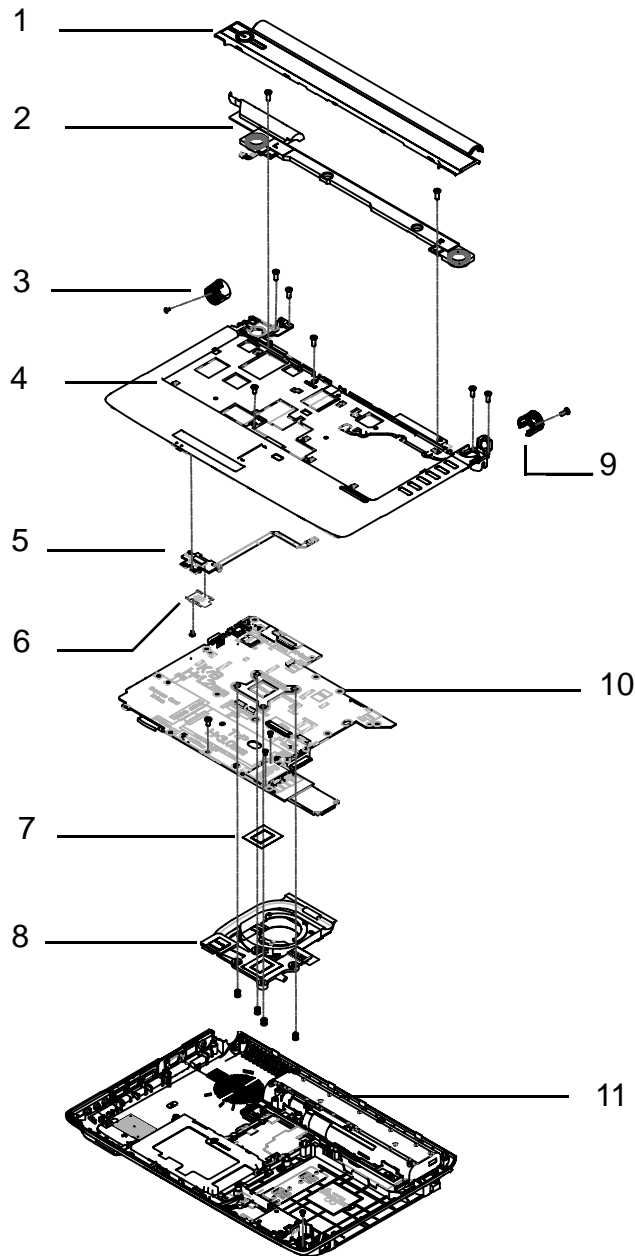
This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of Aspire 4540/4240. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

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.

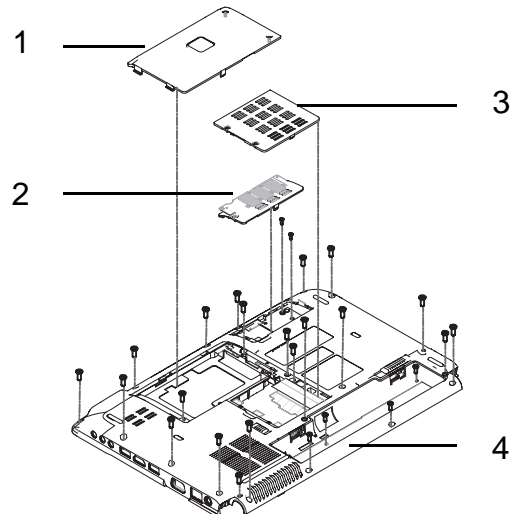
Aspire 4540/4240 Exploded Diagrams

Main Module



Item	Description	Part No.	Item	Description	Part No.
1	Middle Cover	60.PAA02.004	7	CPU	KC.AM002.300
2	Speaker	23.PAA02.002	8	Thermal Module	60.PFM02.001
3	Hinge Cover_L	42.PAA02.004	9	Hinge Cover_R	42.PAA02.005
4	Upper Cover	60.PBP02.001	10	Mainboard	MB.PFP02.001
5	Finger Print Reader	55.PAA02.002	11	Lower Cover	60.PBP02.005
6	F/P Reader Bracket	33.PAA02.005			

Base








Item	Description	Part No.	Item	Description	Part No.
1	HDD Door	42.PAA02.003	3	Memory Cover	42.PAA02.002
2	MiniPCI Door	42.PAA02.001	4	Lower Cover	60.PBP02.005








Aspire 4540/4240 FRU List

Category	Description	Acer PN
Battery		
	BATTERY SANYO AS-2007A LI-ION 3S2P SANYO 6 CELL 4400MAH MAIN COMMON NORMAL TYPE	BT.00603.041
	BATTERY SONY AS-2007A LI-ION 3S2P SONY 6 CELL 4400MAH MAIN COMMON NORMAL TYPE	BT.00604.024
	BATTERY PANASONIC AS-2007A LI-ION 3S2P PANASONIC 6 CELL 4400MAH MAIN COMMON PSS	BT.00605.020
	BATTERY SIMPLO AS-2007A LI-ION 3S2P PANASONIC 6 CELL 4400MAH MAIN COMMON PSS	BT.00607.015
	BATTERY SIMPLO AS-2007A LI-ION 3S2P LGC 6 CELL 4400MAH 2ND COMMON	BT.00607.019
	BATTERY SIMPLO AS-2007A LI-ION 3S2P SAMSUNG 6 CELL 4400MAH MAIN COMMON SDI 2.2MAH F TYPE	BT.00607.034
Board		
	Foxconn Bluetooth BRM 2046 BT2.1 (T60H928.33) f/w:861	BH.21100.004
	FOXCONN CONEXANT -UNIZION 1.5_3.3V AUS T60M955.0X	FX.22500.025
	FUNCTION BOARD W/FFC	55.PBP02.001
	FINGER PRINT BOARD W/FFC	55.PAA02.002
	USB BOARD W/FFC	55.PAA02.003
	FOXCONN WIRELESS LAN ATHEROS AR5B91 1X2 BGN	NI.23600.030
	QMI WIRELESS LAN ATHEROS AR5B91 1X2 BGN (EM303)	NI.23600.033
	FOXCONN WIRELESS LAN WIRELESS LAN RALINK RT2700E 1X2 BGN	NI.23600.031
	FOXCONN WIRELESS LAN ATHEROS HB93 1X2 BGN (HM)	NI.23600.046
	QMI WIRELESS LAN ATHEROS HB93 1X2 BGN (HM) EM306	NI.23600.054
Cable		
	BLUE TOOTH CABLE	50.PAA02.001




Category	Description	Acer PN
	TP FFC	50.PAA02.002
	RJ11 CABLE	50.PAA02.003
	POWER CORD US 3 PIN	27.TAVV5.001
	POWER CORD EU 3 PIN	27.TAVV5.002
	POWER CORD AUS 3 PIN	27.TAVV5.003
	POWER CORD UK 3 PIN	27.TAVV5.004
	POWER CORD CHINA 3 PIN	27.TAVV5.005
	POWER CORD SWISS 3 PIN	27.TAVV5.006
	POWER CORD ITALIAN 3 PIN	27.TAVV5.007
	POWER CORD DENMARK 3 PIN	27.TAVV5.008
	POWER CORD JP 3 PIN	27.TAVV5.009
	POWER CORD SOUTH AFRICA 3 PIN	27.TAVV5.010
	POWER CORD KOERA 3 PIN	27.TAVV5.011
	POWER CORD ISRAEL 3 PIN	27.TAVV5.012
	POWER CORD INDIA 3 PIN	27.TAVV5.013
	POWER CORD TWN 3 PIN	27.TAVV5.014
POWER CORD ARGENTINA 3 PIN	27.APV02.001	
Case/Cover/Bracket Assembly		
	UPPER CASE ASSY W/FP, INCL.TP / TP MYLAR	60.PBP02.001
	UPPER CASE ASSY W/O FP, INCL.TP / TP MYLAR	60.PBP02.002
	LOWER CASE	60.PBP02.005
	MINI DOOR	42.PAA02.001
	RAM DOOR W/E-RING & SCREW	42.PAA02.002
	HDD DOOR W/RUBBER FOOT	42.PBP02.001











Category	Description	Acer PN
	HINGE CAP L	42.PAA02.004
	HINGE CAP R	42.PAA02.005
	HDD BRACKET	33.PBP02.001
	MINI CARD BRACKET	33.PAA02.003
	MIDDLE COVER	60.PAA02.004
	TP BRACKET	33.PAA02.004
	FP BRACKET	33.PAA02.005
HDD		
	HDD TOSHIBA 2.5" 5400RPM 160GB MK1655GSX LIBRA SATA LF F/W: FG011J	KH.16004.006
	HDD HGST 2.5" 5400RPM 160GB HTS545016B9A300 PANTHER B SATA LF F/W:C60F	KH.16007.024
	HDD WD 2.5" 5400RPM 160GB WD1600BEVT-22ZCT0 ML160 SATA LF F/W:11.01A11	KH.16008.022
	HDD TOSHIBA 2.5" 5400RPM 250GB MK2555GSX LIBRA SATA LF F/W:FG001J	KH.25004.003
	HDD HGST 2.5" 5400RPM 250GB HTS545025B9A300 PANTHER B SATA LF F/W:C60F	KH.25007.015
	HDD WD 2.5" 5400RPM 250GB WD2500BEVT-22ZCT0 ML160 SATA LF F/W:11.01A11	KH.25008.021
	HDD TOSHIBA 2.5" 5400RPM 320GB MK3255GSX LIBRA SATA LF F/W:FG011J	KH.32004.002
	HDD HGST 2.5" 5400RPM 320GB HTS545032B9A300 PANTHER B SATA LF F/W: C60F	KH.32007.007
	HDD WD 2.5" 5400RPM 320GB WD3200BEVT-22ZCT0 ML160 SATA LF F/W:11.01A11	KH.32008.013
	HDD SEAGATE 2.5" 5400rpm 320GB ST9320325AS Wyatt SATA LF F/W:0001SDM1	KH.32001.017
	HDD SEAGATE 2.5" 5400RPM 500GB ST9500325AS WYATT SATA LF F/W:0001SDM1	KH.50001.011
	HDD TOSHIBA 2.5" 5400RPM 500GB MK5055GSX LIBRA SATA LF F/W:FG001J	KH.50004.001

Category	Description	Acer PN
	HDD WD 2.5" 5400RPM 500GB WD5000BEVT-22ZAT0 ML250 SATA LF F/W:01.01A01	KH.50008.013
Keyboard		
	KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 86KS BLACK US INTERNATIONAL TEXTURE	KB.I140A.058
	KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 86KS BLACK GREEK TEXTURE	KB.I140A.043
	KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 86KS BLACK ARABIC TEXTURE	KB.I140A.034
	KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 86KS BLACK CHINESE TEXTURE	KB.I140A.038
	KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 86KS BLACK RUSSIAN TEXTURE	KB.I140A.050
	KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 86KS BLACK THAILAND TEXTURE	KB.I140A.055
	KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 86KS BLACK US INTERNATIONAL W/ HEBREW TEXTURE	KB.I140A.059
	KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 87KS BLACK UK TEXTURE	KB.I140A.057
	KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 87KS BLACK GERMAN TEXTURE	KB.I140A.042
	KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 87KS BLACK SWISS/G TEXTURE	KB.I140A.054
	KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 87KS BLACK BELGIUM TEXTURE	KB.I140A.035
	KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 87KS BLACK DANISH TEXTURE	KB.I140A.039
	KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 87KS BLACK ITALIAN TEXTURE	KB.I140A.045
	KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 87KS BLACK FRENCH TEXTURE	KB.I140A.041
	KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 87KS BLACK HUNGARIAN TEXTURE	KB.I140A.044
	KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 87KS BLACK NORWEGIAN TEXTURE	KB.I140A.048
	KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 87KS BLACK PORTUGUESE TEXTURE	KB.I140A.049
	KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 87KS BLACK SPANISH TEXTURE	KB.I140A.052
	KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 87KS BLACK TURKISH TEXTURE	KB.I140A.056
	KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 87KS BLACK SWEDEN TEXTURE	KB.I140A.053
KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 87KS BLACK SLO/CRO TEXTURE	KB.I140A.051	
	KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 87KS BLACK NORDIC TEXTURE	KB.I140A.047

Category	Description	Acer PN
	KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 87KS BLACK FR/ARABIC TEXTURE	KB.I140A.040
	KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 87KS BLACK US W/ CANADIAN FRENCH TEXTURE	KB.I140A.060
	KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 87KS BLACK BRAZILIAN PORTUGUESE TEXTURE	KB.I140A.036
	KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 87KS BLACK CZ/SK TEXTURE	KB.I140A.037
	KEYBOARD ACER AC4T JV40 INTERNAL 14 STANDARD 91KS BLACK JAPANESE TEXTURE	KB.I140A.046
CPU		
	CPU AMD AthlonII M300 2.0G 1M 35W Caspian	KC.AM002.300
	CPU AMD AthlonII M320 2.1G 1M 35W Caspian	KC.AM002.320
	CPU AMD TurionII M500 2.2G 1M 35W	KC.TM002.500
	CPU AMD TurionII M520 2.3G 1M 35W	KC.TM002.520
	CPU AMD Turion M600 2.4G 2M 35W Caspian	KC.TM002.600
	CPU AMD Turion M620 2.5G 2M 35W Caspian	KC.TM002.620
	CPU AMD Turion M640 2.6G 2M 35W Caspian	KC.TM002.640
Super Multidrive		
	ODD SUPER-MULTI DRIVE MODULE	6M.PJE02.001
	ODD TOSHIBA Super-Multi DRIVE 12.7mm Tray DL 8X TS-L633B LF W/O bezel AC02 SATA (Windows 7)	KU.00801.036
	ODD SONY Super-Multi DRIVE 12.7mm Tray DL 8X AD-7580S LF W/O bezel FW FX20 SATA (Windows 7)	KU.0080E.030
	ODD PLDS Super-Multi DRIVE 12.7mm Tray DL 8X DS-8A3S LF W/O bezel HA18 SATA (Windows 7)	KU.0080F.008
	ODD HLDS Super-Multi DRIVE 12.7mm Tray DL 8X GT30N LF W/O bezel SATA (HF + Windows 7)	KU.0080D.048
	ODD BEZEL-SULPER MULTI	42.PAA02.006
	ODD BRACKET	33.PAA02.002
Combo Drive		
	ODD BD COMBO MODULE	6M.PJE02.002
	ODD PLDS BD COMBO 12.7mm Tray DL 4X DS-4E1S LF W/O bezel SATA (Windows 7)	KO.0040F.003
	ODD BEZEL-BD COMBO	42.PAA02.007
	ODD BRACKET	33.PAA02.002
LCD		

Category	Description	Acer PN
	ASSY LCD MODULE 14" WXGA GLARE W/ ANTENNA *2, CAMERA, IMR	6M.PBP02.003
	LED LCD AUO 14" WXGA GLARE B140XW01 V0 0A LF 220NIT 8MS 500:1	LK.14005.006
	LED LCD AUO 14" WXGA GLARE B140XW01 V0 1A LF 200NIT 8MS 500:1	LK.14005.008
	LED LCD SAMSUNG 14" WXGA GLARE LTN140AT01-G01 LF 220NIT 8MS 500:1	LK.14006.009
	LED LCD LPL 14" WXGA GLARE LP140WH1-TLA1 LF 220NIT 8MS 500:1	LK.14008.001
	LED LCD CMO 14" WXGA GLARE N140B6-L02 LF 220NIT 8MS 400:1	LK.1400D.004
	LCD COVER IMR	60.PAA02.005
	ANTENNA MAIN (R -1X2)	50.PAA02.004
	ANTENNA AUX (L)	50.PAA02.005
	LCD BEZEL W/CMOS	60.PAA02.006
	CAMERA BRACKET	33.PAA02.006
	LVDS CABLE	50.PAA02.007
	LCD BRACKET R&L	33.PAA02.007
	CAMERA 0.3M	57.PAA02.001
	ASSY LCD MODULE 14" WXGA GLARE W/ ANTENNA *3, CAMERA, IMR	6M.PBP02.005

Category	Description	Acer PN
	LED LCD AUO 14" WXGA GLARE B140XW01 V0 0A LF 220NIT 8MS 500:1	LK.14005.006
	LED LCD AUO 14" WXGA GLARE B140XW01 V0 1A LF 200NIT 8MS 500:1	LK.14005.008
	LED LCD SAMSUNG 14" WXGA GLARE LTN140AT01-G01 LF 220NIT 8MS 500:1	LK.14006.009
	LED LCD LPL 14" WXGA GLARE LP140WH1-TLA1 LF 220NIT 8MS 500:1	LK.14008.001
	LED LCD CMO 14" WXGA GLARE N140B6-L02 LF 220NIT 8MS 400:1	LK.1400D.004
	LCD COVER IMR	60.PAA02.005
	ANTENNA AUX (L)	50.PAA02.005
	ANTENNA MIMO (R-3X3)	50.PAA02.006
	LCD BEZEL W/CMOS	60.PAA02.006
	CAMERA BRACKET	33.PAA02.006
	LVDS CABLE	50.PAA02.007
	LCD BRACKET R&L	33.PAA02.007
	CAMERA 0.3M	57.PAA02.001
	ASSY LCD MODULE 14" WXGA GLARE W/ ANTENNA *2, IMR, W/O CCD	6M.PBP02.004
	LED LCD AUO 14" WXGA GLARE B140XW01 V0 0A LF 220NIT 8MS 500:1	LK.14005.006
	LED LCD AUO 14" WXGA GLARE B140XW01 V0 1A LF 200NIT 8MS 500:1	LK.14005.008
	LED LCD SAMSUNG 14" WXGA GLARE LTN140AT01-G01 LF 220NIT 8MS 500:1	LK.14006.009
	LED LCD LPL 14" WXGA GLARE LP140WH1-TLA1 LF 220NIT 8MS 500:1	LK.14008.001
	LED LCD CMO 14" WXGA GLARE N140B6-L02 LF 220NIT 8MS 400:1	LK.1400D.004

Category	Description	Acer PN
	LCD COVER IMR	60.PAA02.005
	ANTENNA MAIN (R -1X2)	50.PAA02.004
	ANTENNA AUX (L)	50.PAA02.005
	LCD BEZEL W/O CMOS	60.PAA02.007
	LVDS CABLE W/O CMOS	50.PBC02.001
	LCD BRACKET R&L	33.PAA02.007
	ASSY LCD MODULE 14" WXGA GLARE W/ ANTENNA *3, IMR, W/O CCD	6M.PBP02.006
	LED LCD AUO 14" WXGA GLARE B140XW01 V0 0A LF 220NIT 8MS 500:1	LK.14005.006
	LED LCD AUO 14" WXGA GLARE B140XW01 V0 1A LF 200NIT 8MS 500:1	LK.14005.008
	LED LCD SAMSUNG 14" WXGA GLARE LTN140AT01-G01 LF 220NIT 8MS 500:1	LK.14006.009
	LED LCD LPL 14" WXGA GLARE LP140WH1-TLA1 LF 220NIT 8MS 500:1	LK.14008.001
	LED LCD CMO 14" WXGA GLARE N140B6-L02 LF 220NIT 8MS 400:1	LK.1400D.004
	LCD COVER IMR	60.PAA02.005
	ANTENNA AUX (L)	50.PAA02.005
	ANTENNA MIMO (R-3X3)	50.PAA02.006
	LCD BEZEL W/O CMOS	60.PAA02.007

Category	Description	Acer PN
	CAMERA BRACKET	33.PAA02.006
	LVDS CABLE W/O CMOS	50.PBC02.001
	LCD BRACKET R&L	33.PAA02.007
Mainboard		
	MAINBOARD AS4540/AS4240 ATI SB710 LF (FOR UMA)	MB.PFP02.001
	MAINBOARD AS4540G ATI SB710 LF (FOR DISCRETE-M92)	MB.PFL02.001
Thermal Module		
	CPU THERMAL MODULE-DIS	60.PFM02.001
	CPU THERMAL MODULE-UMA	60.PJE02.001
Speaker		
	MIC SET W/CABLE	23.PAA02.001
	SPEAKER	23.PAA02.002
Miscellaneous		
	NAME PLATE-AS4535	40.PBP02.001
	NAME PLATE-AS4535G	40.P4402.001
	NAME PLATE-AS4235	40.PBP02.002
	HINGE CAP RUBBER	47.PAA02.001
	LCD SCREW MYLAR	47.PAA02.002
	LCD SCREW RUBBER	47.PAA02.003
	LCD SCREW RUBBER-MIDDLE	47.PAA02.004

Screw List

Category	Description	Acer PN
Screw		
	SCREW M1.98D 3.0L K 4.6D 0.8T ZK	86.PAA02.001
	SCREW M2.46D 3.0L K 5.5D 0.8T ZK	86.PAA02.002
	SCREW M2.5D 5L K 5.5D ZK NL CR3	86.PAA02.003
	SCREW M2.5D 10.0L K 5.5D ZK NL CR3	86.PAA02.004
	SCREW M2.5 3.9 ZK	86.PAA02.005
	SCREW M3.0D 3.0L K 4.9D NI	86.PAA02.006
	SCREW M2.5D 3.2L K 6D NI	86.PAA02.007

Model Definition and Configuration

Aspire 4540/4240 Series

Model	RO	Country	Acer Part No	Description
AS4240-122G25Mn	WW	WW	S2.PJE02.001	AS4240-122G25Mn W7HP64AWW1 MC UMACbk 2*1G/250/BT/6L2.2/5R/ CB_bgn_0.3D_HG_ES62
AS4240-121G32Mn	AAP	Thailand	LX.PJE0C.001	AS4240-121G32Mn LINPUSATH1 UMACbk 1*1G/320/BT/6L2.2/5R/ CB_bgn_0.3D_HG_TH51
AS4240-101G32Mn	AAP	Thailand	LX.PJE0C.002	AS4240-101G32Mn LINPUSATH1 UMACbk 1*1G/320/BT/6L2.2/5R/ CB_bgn_0.3D_HG_TH51
AS4240-121G25Mn	AAP	Thailand	LX.PJE0C.003	AS4240-121G25Mn LINPUSATH1 UMACbk 1*1G/250/BT/6L2.2/5R/ CB_bgn_0.3D_HG_TH51
AS4240-101G25Mn	AAP	Thailand	LX.PJE0C.004	AS4240-101G25Mn LINPUSATH1 UMACbk 1*1G/250/BT/6L2.2/5R/ CB_bgn_0.3D_HG_TH51
AS4540-322G32Mn	AAP	Singapore	LX.PFP0X.003	AS4540-322G32Mn VHP32ATSG1 MC UMACFbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_FP_0.3D_HG_EN12
AS4540-302G32Mn	AAP	India	LX.PFP0X.001	AS4540-302G32Mn VHP32ATIN1 MC UMACFbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_FP_0.3D_HG_EN12
AS4540-302G32Mn	AAP	Singapore	LX.PFP0X.002	AS4540-302G32Mn VHP32ATSG1 MC UMACFbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_FP_0.3D_HG_EN12
AS4540-302G32Mn	AAP	India	LX.PFP0Y.001	AS4540-302G32Mn VHB32ATIN1 MC UMACFbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_FP_0.3D_HG_EN12
AS4540-302G32Mn	AAP	Thailand	LX.PFP0C.025	AS4540-302G32Mn LINPUSATH1 UMACFbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_FP_0.3D_HG_TH51
AS4540-302G32Mn	AAP	India	LX.PFP0C.024	AS4540-302G32Mn LINPUSAIN1 UMACFbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_FP_0.3D_HG_EN11
AS4540-301G32Mn	AAP	Thailand	LX.PFP0C.023	AS4540-301G32Mn LINPUSATH1 UMACFbk 1*1G/320/BT/6L2.2/5R/ CB_bgn_FP_0.3D_HG_TH51
AS4540-322G32Mn	AAP	Singapore	LX.PFP02.012	AS4540-322G32Mn W7HP64ATSG1 MC UMACFbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_FP_0.3D_HG_ES61
AS4540-302G32Mn	AAP	Singapore	LX.PFP02.011	AS4540-302G32Mn W7HP64ATSG1 MC UMACFbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_FP_0.3D_HG_ES61

Model	RO	Country	Acer Part No	Description
AS4540-604G32Mn	AAP	Singapore	LX.PFP02.010	AS4540-604G32Mn W7HP64ATSG1 MC UMACFbk 2*2G/320/BT/6L2.2/5R/ CB_bgn_FP_0.3D_HG_ES61
AS4540-524G32Mn	AAP	Singapore	LX.PFP02.009	AS4540-524G32Mn W7HP64ATSG1 MC UMACFbk 2*2G/320/BT/6L2.2/5R/ CB_bgn_FP_0.3D_HG_ES61
AS4540-504G32Mn	AAP	Singapore	LX.PFP02.008	AS4540-504G32Mn W7HP64ATSG1 MC UMACFbk 2*2G/320/BT/6L2.2/5R/ CB_bgn_FP_0.3D_HG_ES61
AS4540-642G50Mn	AAP	Singapore	LX.PFP02.007	AS4540-642G50Mn W7HP64ATSG1 MC UMACFbk 1*2G/500_L/BT/6L2.2/ 5R/CB_bgn_FP_0.3D_HG_ES61
AS4540-622G50Mn	AAP	Singapore	LX.PFP02.006	AS4540-622G50Mn W7HP64ATSG1 MC UMACFbk 1*2G/500_L/BT/6L2.2/ 5R/CB_bgn_FP_0.3D_HG_ES61
AS4540-602G50Mn	AAP	Singapore	LX.PFP02.005	AS4540-602G50Mn W7HP64ATSG1 MC UMACFbk 1*2G/500_L/BT/6L2.2/ 5R/CB_bgn_FP_0.3D_HG_ES61
AS4540-522G50Mn	AAP	Singapore	LX.PFP02.004	AS4540-522G50Mn W7HP64ATSG1 MC UMACFbk 1*2G/500_L/BT/6L2.2/ 5R/CB_bgn_FP_0.3D_HG_ES61
AS4540-502G50Mn	AAP	Singapore	LX.PFP02.003	AS4540-502G50Mn W7HP64ATSG1 MC UMACFbk 1*2G/500_L/BT/6L2.2/ 5R/CB_bgn_FP_0.3D_HG_ES61
AS4540-342G32Mn	AAP	Singapore	LX.PFP02.002	AS4540-342G32Mn W7HP64ATSG1 MC UMACFbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_FP_0.3D_HG_ES61
AS4540-321G32Mn	AAP	Thailand	LX.PFP0C.022	AS4540-321G32Mn LINPUSATH1 UMACFbk 1*1G/320/BT/6L2.2/5R/ CB_bgn_FP_0.3D_HG_TH51
AS4540-622G50Mn	AAP	Thailand	LX.PFP0C.021	AS4540-622G50Mn LINPUSATH1 UMACFbk 1*2G/500_L/BT/6L2.2/5R/ CB_bgn_FP_0.3D_HG_TH51
AS4540-602G50Mn	AAP	Thailand	LX.PFP0C.020	AS4540-602G50Mn LINPUSATH1 UMACFbk 1*2G/500_L/BT/6L2.2/5R/ CB_bgn_FP_0.3D_HG_TH51
AS4540-642G32Mn	AAP	Thailand	LX.PFP0C.019	AS4540-642G32Mn LINPUSATH1 UMACFbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_FP_0.3D_HG_TH51
AS4540-622G32Mn	AAP	Thailand	LX.PFP0C.018	AS4540-622G32Mn LINPUSATH1 UMACFbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_FP_0.3D_HG_TH51
AS4540-602G32Mn	AAP	Thailand	LX.PFP0C.017	AS4540-602G32Mn LINPUSATH1 UMACFbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_FP_0.3D_HG_TH51
AS4540-301G25Mn	AAP	Thailand	LX.PFP0C.016	AS4540-301G25Mn LINPUSATH1 UMACFbk 1*1G/250/BT/6L2.2/5R/ CB_bgn_FP_0.3D_HG_TH51
AS4540-342G25Mn	AAP	Thailand	LX.PFP0C.015	AS4540-342G25Mn LINPUSATH1 UMACFbk 1*2G/250/BT/6L2.2/5R/ CB_bgn_FP_0.3D_HG_TH51

Model	RO	Country	Acer Part No	Description
AS4540-322G25Mn	AAP	Thailand	LX.PFP0C.014	AS4540-322G25Mn LINPUSATH1 UMACFbk 1*2G/250/BT/6L2.2/5R/CB_bgn_FP_0.3D_HG_TH51
AS4540-642G50Mn	AAP	Thailand	LX.PFP0C.013	AS4540-642G50Mn LINPUSATH1 UMACFbk 1*2G/500_L/BT/6L2.2/5R/CB_bgn_FP_0.3D_HG_TH51
AS4540-502G32Mn	AAP	Thailand	LX.PFP0C.011	AS4540-502G32Mn LINPUSATH1 UMACFbk 1*2G/320/BT/6L2.2/5R/CB_bgn_FP_0.3D_HG_TH51
AS4540-522G32Mn	AAP	Thailand	LX.PFP0C.012	AS4540-522G32Mn LINPUSATH1 UMACFbk 1*2G/320/BT/6L2.2/5R/CB_bgn_FP_0.3D_HG_TH51
AS4540-341G25Mn	AAP	Thailand	LX.PFP0C.010	AS4540-341G25Mn LINPUSATH1 UMACFbk 1*1G/250/BT/6L2.2/5R/CB_bgn_FP_0.3D_HG_TH51
AS4540-321G25Mn	AAP	Thailand	LX.PFP0C.009	AS4540-321G25Mn LINPUSATH1 UMACFbk 1*1G/250/BT/6L2.2/5R/CB_bgn_FP_0.3D_HG_TH51
AS4540-302G25Mn	AAP	Thailand	LX.PFP0C.008	AS4540-302G25Mn LINPUSATH1 UMACFbk 1*2G/250/BT/6L2.2/5R/CB_bgn_FP_0.3D_HG_TH51
AS4540-303G32Mn	AAP	India	LX.PFP02.001	AS4540-303G32Mn W7HP64INATIN1 MC UMACFbk 2G+1G/320/BT/6L2.2/5R/CB_bgn_FP_0.3D_HG_ES61
AS4540-303G32Mn	AAP	India	LX.PFP0C.007	AS4540-303G32Mn LINPUSAIN1 UMACFbk 2G+1G/320/BT/6L2.2/5R/CB_bgn_FP_0.3D_HG_EN11
AS4540-523G25Mn	WW	WW	S2.PFP02.001	AS4540-523G25Mn W7HP64AWW1 MC UMACFbk 2G+1G/250/BT/6L2.2/5R/CB_bgn_FP_0.3D_HG_ES62
AS4540-503G25Mn	WW	WW	S2.PFP02.002	AS4540-503G25Mn W7HP64AWW1 MC UMACFbk 2G+1G/250/BT/6L2.2/5R/CB_bgn_FP_0.3D_HG_ES62
AS4540-501G16Mn	AAP	Vietnam	LX.PFP0C.006	AS4540-501G16Mn LINPUSAVN1 UMACFbk 1*1G/160/BT/6L2.2/5R/CB_bgn_FP_0.3D_HG_EN11
AS4540-502G25Mn	AAP	Thailand	LX.PFP0C.005	AS4540-502G25Mn LINPUSATH1 UMACFbk 1*2G/250/BT/6L2.2/5R/CB_bgn_FP_0.3D_HG_TH51
AS4540-542G25Mn	AAP	Thailand	LX.PFP0C.003	AS4540-542G25Mn LINPUSATH1 UMACFbk 1*2G/250/BT/6L2.2/5R/CB_bgn_FP_0.3D_HG_TH51
AS4540-522G25Mn	AAP	Thailand	LX.PFP0C.004	AS4540-522G25Mn LINPUSATH1 UMACFbk 1*2G/250/BT/6L2.2/5R/CB_bgn_FP_0.3D_HG_TH51
AS4540-521G16Mn	AAP	Philippines	LX.PFP0C.002	AS4540-521G16Mn LINPUSAPH1 UMACFbk 1*1G/160/6L2.2/5R/CB_bgn_FP_0.3D_HG_EN11
AS4540-521G25Mn	AAP	Philippines	LX.PFP0C.001	AS4540-521G25Mn LINPUSAPH1 UMACFbk 1*1G/250/6L2.2/5R/CB_bgn_FP_0.3D_HG_EN11

Model	RO	Country	Acer Part No	Description
AS4540-503G32Mn	PA	ACLA-Portuguese	LX.PFN0C.027	AS4540-503G32Mn LINPUSAXC2 UMACbk 2G+1G/320/6L2.2/5R/ CB_bgn_0.3D_HG_EN62
AS4540-503G32Mn	PA	ACLA-Portuguese	LX.PFN0C.026	AS4540-503G32Mn LINPUSAXC3 UMACbk 2G+1G/320/6L2.2/5R/ CB_bgn_0.3D_HG_EN61
AS4540-504G50Bn	PA	ACLA-Portuguese	LX.PFN0C.025	AS4540-504G50Bn LINPUSAXC2 UMACbk 2*2G/500_L/6L2.2/5R/ CB_bgn_0.3D_HG_EN62
AS4540-504G50Bn	PA	ACLA-Portuguese	LX.PFN0C.024	AS4540-504G50Bn LINPUSAXC3 UMACbk 2*2G/500_L/6L2.2/5R/ CB_bgn_0.3D_HG_EN61
AS4540-521G32Mn	AAP	Malaysia	LX.PFN0C.021	AS4540-521G32Mn LINPUSAMY1 UMACbk 1*1G/320/BT/6L2.2/5R/ CB_bgn_0.3D_HG_EN11
AS4540-303G25Mn	AAP	India	LX.PFN0C.023	AS4540-303G25Mn LINPUSAIN1 UMACbk 2G+1G/250/BT/6L2.2/5R/ CB_bgn_0.3D_HG_EN11
AS4540-302G25Mn	CHI NA	China	LX.PFN0C.012	AS4540-302G25Mn LINPUSACN1 MC UMACbk 1*2G/250/6L2.2/5R/ CB_bgn_0.3D_HG_EN91
AS4540-503G32Mn	PA	USA	LX.PFN02.048	AS4540-503G32Mn W7HP64ATUS1 MC UMACbk 2G+1G/320/6L2.2/5R/ CB_bgn_0.3D_HG_FRB5
AS4540-503G32Mn	PA	USA	LX.PFN02.047	AS4540-503G32Mn W7HP64ATUS1 MC UMACbk 2G+1G/320/6L2.2/5R/ CB_bgn_0.3D_HG_FRB2
AS4540-503G32Mn	PA	USA	LX.PFN02.046	AS4540-503G32Mn W7HP64ATUS1 MC UMACbk 2G+1G/320/6L2.2/5R/ CB_bgn_0.3D_HG_FRB1
AS4540-503G32Mn	PA	Canada	LX.PFN02.045	AS4540-503G32Mn W7HP64ATCA2 MC UMACbk 2G+1G/320/6L2.2/5R/ CB_bgn_0.3D_HG_FR84
AS4540-503G32Mn	PA	Canada	LX.PFN02.044	AS4540-503G32Mn W7HP64ATCA2 MC UMACbk 2G+1G/320/6L2.2/5R/ CB_bgn_0.3D_HG_FR81
AS4540-503G32Mn	PA	Canada	LX.PFN02.043	AS4540-503G32Mn W7HP64ATCA2 MC UMACbk 2G+1G/320/6L2.2/5R/ CB_bgn_0.3D_HG_FR82
AS4540-521G25Mn	AAP	Malaysia	LX.PFN0C.022	AS4540-521G25Mn LINPUSAMY1 UMACbk 1*1G/250/BT/6L2.2/5R/ CB_bgn_0.3D_HG_EN11
AS4540-522G32Mn	AAP	Malaysia	LX.PFN02.042	AS4540-522G32Mn EM W7HP64EMATMY1 MC UMACbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_0.3D_HG_ES61
AS4540-302G25Mn	PA	ACLA-Portuguese	LX.PFN02.041	AS4540-302G25Mn EM W7HP64EMATXC2 MC UMACbk 2*1G/250/6L2.2/5R/ CB_bgn_0.3D_HG_XC21
AS4540-302G25Mn	PA	Chile	LX.PFN0C.020	AS4540-302G25Mn LINPUSACL3 UMACbk 2*1G/250/6L2.2/5R/ CB_bgn_0.3D_HG_EN61

Model	RO	Country	Acer Part No	Description
AS4540-302G25Mn	PA	ACLA-Spanish	LX.PFN0C.019	AS4540-302G25Mn LINPUSAEA4 UMACbk 2*1G/250/6L2.2/5R/ CB_bgn_0.3D_HG_EN62
AS4540-302G25Mn	PA	ACLA-Spanish	LX.PFN0C.018	AS4540-302G25Mn LINPUSAEA1 UMACbk 2*1G/250/6L2.2/5R/ CB_bgn_0.3D_HG_EN62
AS4540-302G25Mn	PA	ACLA-Spanish	LX.PFN0C.017	AS4540-302G25Mn LINPUSAEA3 UMACbk 2*1G/250/6L2.2/5R/ CB_bgn_0.3D_HG_EN61
AS4540-302G25Mn	PA	ACLA-Portuguese	LX.PFN0C.016	AS4540-302G25Mn LINPUSAXC2 UMACbk 2*1G/250/6L2.2/5R/ CB_bgn_0.3D_HG_EN62
AS4540-302G25Mn	PA	ACLA-Portuguese	LX.PFN0C.015	AS4540-302G25Mn LINPUSAXC3 UMACbk 2*1G/250/6L2.2/5R/ CB_bgn_0.3D_HG_EN61
AS4540-303G25Mn	PA	Chile	LX.PFN02.040	AS4540-303G25Mn EM W7HP64EMATCL3 MC UMACbk 2G+1G/250/6L2.2/5R/ CB_bgn_0.3D_HG_ES51
AS4540-303G25Mn	PA	ACLA-Spanish	LX.PFN02.039	AS4540-303G25Mn EM W7HP64EMATEA4 MC UMACbk 2G+1G/250/6L2.2/5R/ CB_bgn_0.3D_HG_EN31
AS4540-303G25Mn	PA	ACLA-Spanish	LX.PFN02.038	AS4540-303G25Mn EM W7HP64EMATEA1 MC UMACbk 2G+1G/250/6L2.2/5R/ CB_bgn_0.3D_HG_ES51
AS4540-303G25Mn	PA	ACLA-Spanish	LX.PFN02.037	AS4540-303G25Mn EM W7HP64EMATEA3 MC UMACbk 2G+1G/250/6L2.2/5R/ CB_bgn_0.3D_HG_ES51
AS4540-303G25Mn	PA	ACLA-Portuguese	LX.PFN02.036	AS4540-303G25Mn EM W7HP64EMATXC3 MC UMACbk 2G+1G/250/6L2.2/5R/ CB_bgn_0.3D_HG_EN61
AS4540-303G25Mn	PA	ACLA-Portuguese	LX.PFN02.035	AS4540-303G25Mn EM W7HP64EMATXC2 MC UMACbk 2G+1G/250/6L2.2/5R/ CB_bgn_0.3D_HG_XC21
AS4540-302G25Mn	PA	ACLA-Spanish	LX.PFN02.033	AS4540-302G25Mn EM W7HP64EMATEA4 MC UMACbk 2*1G/250/6L2.2/5R/ CB_bgn_0.3D_HG_EN31
AS4540-302G25Mn	PA	Chile	LX.PFN02.034	AS4540-302G25Mn EM W7HP64EMATCL3 MC UMACbk 2*1G/250/6L2.2/5R/ CB_bgn_0.3D_HG_ES51
AS4540-302G25Mn	PA	ACLA-Spanish	LX.PFN02.032	AS4540-302G25Mn EM W7HP64EMATEA1 MC UMACbk 2*1G/250/6L2.2/5R/ CB_bgn_0.3D_HG_ES51

Model	RO	Country	Acer Part No	Description
AS4540-302G25Mn	PA	ACLA-Spanish	LX.PFN02.031	AS4540-302G25Mn EM W7HP64EMATEA3 MC UMACbk 2*1G/250/6L2.2/5R/ CB_bgn_0.3D_HG_ES51
AS4540-302G25Mn	PA	ACLA-Portuguese	LX.PFN02.030	AS4540-302G25Mn EM W7HP64EMATXC3 MC UMACbk 2*1G/250/6L2.2/5R/ CB_bgn_0.3D_HG_EN61
AS4540-303G25Mn	PA	ACLA-Portuguese	LX.PFN01.001	AS4540-303G25Mn EM W7HB64EMATXC2 MC UMACbk 2G+1G/250/6L2.2/5R/ CB_bgn_0.3D_HG_XC21
AS4540-501G25Mn	AAP	Indonesia	LX.PFN0C.009	AS4540-501G25Mn LINPUSAID1 UMACbk 1*1G/250/BT/6L2.2/5R/ CB_bgn_0.3D_HG_ID22
AS4540-504G50Mn	PA	USA	LX.PFN0C.014	AS4540-504G50Mn LINPUSAUS1 UMACbk 2*2G/500_L/6L2.2/5R/ CB_bgn_0.3D_HG_EN31
AS4540-503G32Mn	PA	ACLA-Portuguese	LX.PFN02.022	AS4540-503G32Mn EM W7HP64EMATXC2 MC UMACbk 2G+1G/320/6L2.2/5R/ CB_bgn_0.3D_HG_XC21
AS4540-504G32Mn	PA	ACLA-Portuguese	LX.PFN02.028	AS4540-504G32Mn EM W7HP64EMATXC2 MC UMACbk 2*2G/320/6L2.2/5R/ CB_bgn_0.3D_HG_XC21
AS4540-501G25Mn	AAP	Indonesia	LX.PFN02.029	AS4540-501G25Mn EM W7HP64EMATID1 MC UMACbk 1*1G/ 250/BT/6L2.2/5R/ CB_bgn_0.3D_HG_ID21
AS4540-503G32Mn	PA	ACLA-Spanish	LX.PFN02.025	AS4540-503G32Mn EM W7HP64EMATEA1 MC UMACbk 2G+1G/320/6L2.2/5R/ CB_bgn_0.3D_HG_ES51
AS4540-322G32Mn	CHI NA	China	LX.PFN0C.013	AS4540-322G32Mn LINPUSACN1 MC UMACbk 1*2G/320/6L2.2/5R/ CB_bgn_0.3D_HG_EN91
AS4540-502G32Mn	AAP	Thailand	LX.PFN02.013	AS4540-502G32Mn EM W7HP64EMATTH1 MC UMACbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_0.3D_HG_TH41
AS4540-302G32Mn	AAP	Thailand	LX.PFN02.008	AS4540-302G32Mn EM W7HP64EMATTH1 MC UMACbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_0.3D_HG_TH41
AS4540-502G25Mn	AAP	Thailand	LX.PFN02.018	AS4540-502G25Mn EM W7HP64EMATTH1 MC UMACbk 1*2G/250/BT/6L2.2/5R/ CB_bgn_0.3D_HG_TH41
AS4540-503G32Mn	PA	Chile	LX.PFN02.027	AS4540-503G32Mn EM W7HP64EMATCL3 MC UMACbk 2G+1G/320/6L2.2/5R/ CB_bgn_0.3D_HG_ES51

Model	RO	Country	Acer Part No	Description
AS4540-503G32Mn	PA	ACLA-Spanish	LX.PFN02.024	AS4540-503G32Mn EM W7HP64EMATEA3 MC UMACbk 2G+1G/320/6L2.2/5R/ CB_bgn_0.3D_HG_ES51
AS4540-503G32Mn	PA	ACLA-Portuguese	LX.PFN02.023	AS4540-503G32Mn EM W7HP64EMATXC3 MC UMACbk 2G+1G/320/6L2.2/5R/ CB_bgn_0.3D_HG_EN61
AS4540-503G32Mn	PA	ACLA-Spanish	LX.PFN02.026	AS4540-503G32Mn EM W7HP64EMATEA4 MC UMACbk 2G+1G/320/6L2.2/5R/ CB_bgn_0.3D_HG_EN31
AS4540-502G32Mn	AAP	Singapore	LX.PFN02.002	AS4540-502G32Mn W7HP64ATSG1 MC UMACbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_0.3D_HG_ES61
AS4540-502G32Mn	AAP	India	LX.PFN02.001	AS4540-502G32Mn W7HP64INATIN1 MC UMACbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_0.3D_HG_ES61
AS4540-502G32Mn	AAP	Australia/New Zealand	LX.PFN02.003	AS4540-502G32Mn W7HP64ATAU1 MC UMACbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_0.3D_HG_ES61
AS4540-302G32Mn	AAP	Australia/New Zealand	LX.PFN02.006	AS4540-302G32Mn W7HP64ATAU1 MC UMACbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_0.3D_HG_ES61
AS4540-302G32Mn	AAP	Singapore	LX.PFN02.005	AS4540-302G32Mn W7HP64ATSG1 MC UMACbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_0.3D_HG_ES61
AS4540-302G32Mn	AAP	India	LX.PFN02.004	AS4540-302G32Mn W7HP64INATIN1 MC UMACbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_0.3D_HG_ES61
AS4540-302G32Mn	AAP	Indonesia	LX.PFN02.011	AS4540-302G32Mn EM W7HP64EMATID1 MC UMACbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_0.3D_HG_ID21
AS4540-302G32Mn	AAP	Malaysia	LX.PFN02.009	AS4540-302G32Mn EM W7HP64EMATMY1 MC UMACbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_0.3D_HG_ES61
AS4540-302G32Mn	AAP	Vietnam	LX.PFN02.007	AS4540-302G32Mn EM W7HP64EMATVN1 MC UMACbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_0.3D_HG_ES61
AS4540-302G32Mn	AAP	Philippines	LX.PFN02.010	AS4540-302G32Mn EM W7HP64EMATPH1 MC UMACbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_0.3D_HG_ES61
AS4540-502G32Mn	AAP	Malaysia	LX.PFN02.014	AS4540-502G32Mn EM W7HP64EMATMY1 MC UMACbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_0.3D_HG_ES61
AS4540-502G32Mn	AAP	Vietnam	LX.PFN02.012	AS4540-502G32Mn EM W7HP64EMATVN1 MC UMACbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_0.3D_HG_ES61

Model	RO	Country	Acer Part No	Description
AS4540-502G25Mn	AAP	Vietnam	LX.PFN02.017	AS4540-502G25Mn EM W7HP64EMATVN1 MC UMACbk 1*2G/250/BT/6L2.2/5R/ CB_bgn_0.3D_HG_ES61
AS4540-502G32Mn	AAP	Indonesia	LX.PFN02.016	AS4540-502G32Mn EM W7HP64EMATID1 MC UMACbk 1*2G/ 320/BT/6L2.2/5R/ CB_bgn_0.3D_HG_ID21
AS4540-502G32Mn	AAP	Philippines	LX.PFN02.015	AS4540-502G32Mn EM W7HP64EMATPH1 MC UMACbk 1*2G/320/BT/6L2.2/5R/ CB_bgn_0.3D_HG_ES61
AS4540-502G25Mn	AAP	Malaysia	LX.PFN02.019	AS4540-502G25Mn EM W7HP64EMATMY1 MC UMACbk 1*2G/250/BT/6L2.2/5R/ CB_bgn_0.3D_HG_ES61
AS4540-502G25Mn	AAP	Indonesia	LX.PFN02.021	AS4540-502G25Mn EM W7HP64EMATID1 MC UMACbk 1*2G/ 250/BT/6L2.2/5R/ CB_bgn_0.3D_HG_ID21
AS4540-502G25Mn	AAP	Philippines	LX.PFN02.020	AS4540-502G25Mn EM W7HP64EMATPH1 MC UMACbk 1*2G/250/BT/6L2.2/5R/ CB_bgn_0.3D_HG_ES61
AS4540-501G16Mn	AAP	Vietnam	LX.PFN0C.011	AS4540-501G16Mn LINPUSAVN1 UMACbk 1*1G/160/BT/6L2.2/5R/ CB_bgn_0.3D_HG_EN11
AS4540-521G16Mn	AAP	Philippines	LX.PFN0C.010	AS4540-521G16Mn LINPUSAPH1 UMACbk 1*1G/160/BT/6L2.2/5R/ CB_bgn_0.3D_HG_EN11
AS4540-501G16Mn	AAP	Philippines	LX.PFN0C.008	AS4540-501G16Mn LINPUSAPH1 UMACbk 1*1G/160/BT/6L2.2/5R/ CB_bgn_0.3D_HG_EN11
AS4540-602G25Mn	AAP	Philippines	LX.PFN0C.004	AS4540-602G25Mn LINPUSAPH1 UMACbk 1*2G/250/BT/6L2.2/5R/ CB_bgn_0.3D_HG_EN11
AS4540-542G25Mn	AAP	Philippines	LX.PFN0C.007	AS4540-542G25Mn LINPUSAPH1 UMACbk 1*2G/250/BT/6L2.2/5R/ CB_bgn_0.3D_HG_EN11
AS4540-541G16Mn	AAP	Philippines	LX.PFN0C.006	AS4540-541G16Mn LINPUSAPH1 UMACbk 1*1G/160/BT/6L2.2/5R/ CB_bgn_0.3D_HG_EN11
AS4540-601G16Mn	AAP	Philippines	LX.PFN0C.005	AS4540-601G16Mn LINPUSAPH1 UMACbk 1*1G/160/BT/6L2.2/5R/ CB_bgn_0.3D_HG_EN11
AS4540-521G25Mn	AAP	Indonesia	LX.PFN0C.003	AS4540-521G25Mn LINPUSAID1 UMACbk 1*1G/250/BT/6L2.2/5R/ CB_bgn_0.3D_HG_ID22
AS4540-621G16Mn	AAP	Philippines	LX.PFN0C.001	AS4540-621G16Mn LINPUSAPH1 UMACbk 1*1G/160/6L2.2/5R/ CB_bgn_0.3D_HG_EN11

Model	RO	Country	Acer Part No	Description
AS4540-522G25Mn	AAP	Philippines	LX.PFN0C.002	AS4540-522G25Mn LINPUSAPH1 UMACbk 1*2G/250/6L2.2/5R/ CB_bgn_0.3D_HG_EN11
AS4540-323G25Mn	WW	WW	S2.PFN0C.001	AS4540-323G25Mn LINPUSAWW1 UMACbk 2G+1G/250/BT/6L2.2/5R/ CB_bgn_0.3D_HG_EN11

Model	CPU	LCD	VGA Chip	VRA M 1	Memory 1	Memory 2
AS4240-122G25Mn	SMPM120	NLED14WXGAG	UMA	N	SO1GBII6	SO1GBII6
AS4240-121G32Mn	SMPM120	NLED14WXGAG	UMA	N	SO1GBII6	N
AS4240-101G32Mn	SMPM100	NLED14WXGAG	UMA	N	SO1GBII6	N
AS4240-121G25Mn	SMPM120	NLED14WXGAG	UMA	N	SO1GBII6	N
AS4240-101G25Mn	SMPM100	NLED14WXGAG	UMA	N	SO1GBII6	N
AS4540-322G32Mn	AAM320	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-302G32Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-302G32Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-302G32Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-302G32Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-302G32Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-301G32Mn	AAM300	NLED14WXGAG	UMA	N	SO1GBII6	N
AS4540-322G32Mn	AAM320	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-302G32Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-604G32Mn	ATUM600	NLED14WXGAG	UMA	N	SO2GBII6	SO2GBII6
AS4540-524G32Mn	ATM520	NLED14WXGAG	UMA	N	SO2GBII6	SO2GBII6
AS4540-504G32Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	SO2GBII6
AS4540-642G50Mn	ATUM640	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-622G50Mn	ATUM620	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-602G50Mn	ATUM600	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-522G50Mn	ATM520	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-502G50Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-342G32Mn	AAM340	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-321G32Mn	AAM320	NLED14WXGAG	UMA	N	SO1GBII6	N
AS4540-622G50Mn	ATUM620	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-602G50Mn	ATUM600	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-642G32Mn	ATUM640	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-622G32Mn	ATUM620	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-602G32Mn	ATUM600	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-301G25Mn	AAM300	NLED14WXGAG	UMA	N	SO1GBII6	N
AS4540-342G25Mn	AAM340	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-322G25Mn	AAM320	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-642G50Mn	ATUM640	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-502G32Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-522G32Mn	ATM520	NLED14WXGAG	UMA	N	SO2GBII6	N

Model	CPU	LCD	VGA Chip	VRA M 1	Memory 1	Memory 2
AS4540-341G25Mn	AAM340	NLED14WXGAG	UMA	N	SO1GBII6	N
AS4540-321G25Mn	AAM320	NLED14WXGAG	UMA	N	SO1GBII6	N
AS4540-302G25Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-303G32Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-303G32Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-523G25Mn	ATM520	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-503G25Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-501G16Mn	ATM500	NLED14WXGAG	UMA	N	SO1GBII6	N
AS4540-502G25Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-542G25Mn	ATM540	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-522G25Mn	ATM520	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-521G16Mn	ATM520	NLED14WXGAG	UMA	N	SO1GBII6	N
AS4540-521G25Mn	ATM520	NLED14WXGAG	UMA	N	SO1GBII6	N
AS4540-503G32Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-503G32Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-504G50Bn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	SO2GBII6
AS4540-504G50Bn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	SO2GBII6
AS4540-521G32Mn	ATM520	NLED14WXGAG	UMA	N	SO1GBII6	N
AS4540-303G25Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-302G25Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-503G32Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-503G32Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-503G32Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-503G32Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-503G32Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-503G32Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-503G32Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-521G25Mn	ATM520	NLED14WXGAG	UMA	N	SO1GBII6	N
AS4540-522G32Mn	ATM520	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-302G25Mn	AAM300	NLED14WXGAG	UMA	N	SO1GBII6	SO1GBII6
AS4540-302G25Mn	AAM300	NLED14WXGAG	UMA	N	SO1GBII6	SO1GBII6
AS4540-302G25Mn	AAM300	NLED14WXGAG	UMA	N	SO1GBII6	SO1GBII6
AS4540-302G25Mn	AAM300	NLED14WXGAG	UMA	N	SO1GBII6	SO1GBII6
AS4540-302G25Mn	AAM300	NLED14WXGAG	UMA	N	SO1GBII6	SO1GBII6
AS4540-302G25Mn	AAM300	NLED14WXGAG	UMA	N	SO1GBII6	SO1GBII6
AS4540-302G25Mn	AAM300	NLED14WXGAG	UMA	N	SO1GBII6	SO1GBII6
AS4540-302G25Mn	AAM300	NLED14WXGAG	UMA	N	SO1GBII6	SO1GBII6
AS4540-302G25Mn	AAM300	NLED14WXGAG	UMA	N	SO1GBII6	SO1GBII6
AS4540-303G25Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-303G25Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-303G25Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-303G25Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-303G25Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-303G25Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-303G25Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-302G25Mn	AAM300	NLED14WXGAG	UMA	N	SO1GBII6	SO1GBII6

Model	CPU	LCD	VGA Chip	VRA M 1	Memory 1	Memory 2
AS4540-302G25Mn	AAM300	NLED14WXGAG	UMA	N	SO1GBII6	SO1GBII6
AS4540-302G25Mn	AAM300	NLED14WXGAG	UMA	N	SO1GBII6	SO1GBII6
AS4540-302G25Mn	AAM300	NLED14WXGAG	UMA	N	SO1GBII6	SO1GBII6
AS4540-302G25Mn	AAM300	NLED14WXGAG	UMA	N	SO1GBII6	SO1GBII6
AS4540-303G25Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-501G25Mn	ATM500	NLED14WXGAG	UMA	N	SO1GBII6	N
AS4540-504G50Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	SO2GBII6
AS4540-503G32Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-504G32Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	SO2GBII6
AS4540-501G25Mn	ATM500	NLED14WXGAG	UMA	N	SO1GBII6	N
AS4540-503G32Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-322G32Mn	AAM320	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-502G32Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-302G32Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-502G25Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-503G32Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-503G32Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-503G32Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-503G32Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6
AS4540-502G32Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-502G32Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-502G32Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-302G32Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-302G32Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-302G32Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-302G32Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-302G32Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-302G32Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-302G32Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-302G32Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-302G32Mn	AAM300	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-502G32Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-502G32Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-502G25Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-502G32Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-502G32Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-502G25Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-502G25Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-502G25Mn	ATM500	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-501G16Mn	ATM500	NLED14WXGAG	UMA	N	SO1GBII6	N
AS4540-521G16Mn	ATM520	NLED14WXGAG	UMA	N	SO1GBII6	N
AS4540-501G16Mn	ATM500	NLED14WXGAG	UMA	N	SO1GBII6	N
AS4540-602G25Mn	ATUM600	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-542G25Mn	ATM540	NLED14WXGAG	UMA	N	SO2GBII6	N

Model	CPU	LCD	VGA Chip	VRA M 1	Memory 1	Memory 2
AS4540-541G16Mn	ATM540	NLED14WXGAG	UMA	N	SO1GBII6	N
AS4540-601G16Mn	ATUM600	NLED14WXGAG	UMA	N	SO1GBII6	N
AS4540-521G25Mn	ATM520	NLED14WXGAG	UMA	N	SO1GBII6	N
AS4540-621G16Mn	ATUM620	NLED14WXGAG	UMA	N	SO1GBII6	N
AS4540-522G25Mn	ATM520	NLED14WXGAG	UMA	N	SO2GBII6	N
AS4540-323G25Mn	AAM320	NLED14WXGAG	UMA	N	SO2GBII6	SO1GBII6

Model	HDD 1(GB)	HDD 2(GB)	ODD	Media Processor	Extra SW1
AS4240-122G25Mn	N250GB5.4KS	N	NSM8XS	N	McAfee
AS4240-121G32Mn	N320GB5.4KS	N	NSM8XS	N	N
AS4240-101G32Mn	N320GB5.4KS	N	NSM8XS	N	N
AS4240-121G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4240-101G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4540-322G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-302G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-302G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-302G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-302G32Mn	N320GB5.4KS	N	NSM8XS	N	N
AS4540-302G32Mn	N320GB5.4KS	N	NSM8XS	N	N
AS4540-301G32Mn	N320GB5.4KS	N	NSM8XS	N	N
AS4540-322G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-302G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-604G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-524G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-504G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-642G50Mn	N500GB5.4KS	N	NSM8XS	N	McAfee
AS4540-622G50Mn	N500GB5.4KS	N	NSM8XS	N	McAfee
AS4540-602G50Mn	N500GB5.4KS	N	NSM8XS	N	McAfee
AS4540-522G50Mn	N500GB5.4KS	N	NSM8XS	N	McAfee
AS4540-502G50Mn	N500GB5.4KS	N	NSM8XS	N	McAfee
AS4540-342G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-321G32Mn	N320GB5.4KS	N	NSM8XS	N	N
AS4540-622G50Mn	N500GB5.4KS	N	NSM8XS	N	N
AS4540-602G50Mn	N500GB5.4KS	N	NSM8XS	N	N
AS4540-642G32Mn	N320GB5.4KS	N	NSM8XS	N	N
AS4540-622G32Mn	N320GB5.4KS	N	NSM8XS	N	N
AS4540-602G32Mn	N320GB5.4KS	N	NSM8XS	N	N
AS4540-301G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4540-342G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4540-322G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4540-642G50Mn	N500GB5.4KS	N	NSM8XS	N	N
AS4540-502G32Mn	N320GB5.4KS	N	NSM8XS	N	N

Model	HDD 1(GB)	HDD 2(GB)	ODD	Media Processor	Extra SW1
AS4540-522G32Mn	N320GB5.4KS	N	NSM8XS	N	N
AS4540-341G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4540-321G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4540-302G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4540-303G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-303G32Mn	N320GB5.4KS	N	NSM8XS	N	N
AS4540-523G25Mn	N250GB5.4KS	N	NSM8XS	N	McAfee
AS4540-503G25Mn	N250GB5.4KS	N	NSM8XS	N	McAfee
AS4540-501G16Mn	N160GB5.4KS	N	NSM8XS	N	N
AS4540-502G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4540-542G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4540-522G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4540-521G16Mn	N160GB5.4KS	N	NSM8XS	N	N
AS4540-521G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4540-503G32Mn	N320GB5.4KS	N	NSM8XS	N	N
AS4540-503G32Mn	N320GB5.4KS	N	NSM8XS	N	N
AS4540-504G50Bn	N500GB5.4KS	N	NBDCB4XS	N	N
AS4540-504G50Bn	N500GB5.4KS	N	NBDCB4XS	N	N
AS4540-521G32Mn	N320GB5.4KS	N	NSM8XS	N	N
AS4540-303G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4540-302G25Mn	N250GB5.4KS	N	NSM8XS	N	McAfee
AS4540-503G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-503G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-503G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-503G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-503G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-503G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-503G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-521G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4540-522G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-302G25Mn	N250GB5.4KS	N	NSM8XS	N	McAfee
AS4540-302G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4540-302G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4540-302G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4540-302G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4540-302G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4540-302G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4540-302G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4540-302G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4540-303G25Mn	N250GB5.4KS	N	NSM8XS	N	McAfee
AS4540-303G25Mn	N250GB5.4KS	N	NSM8XS	N	McAfee
AS4540-303G25Mn	N250GB5.4KS	N	NSM8XS	N	McAfee
AS4540-303G25Mn	N250GB5.4KS	N	NSM8XS	N	McAfee
AS4540-303G25Mn	N250GB5.4KS	N	NSM8XS	N	McAfee
AS4540-303G25Mn	N250GB5.4KS	N	NSM8XS	N	McAfee
AS4540-302G25Mn	N250GB5.4KS	N	NSM8XS	N	McAfee

Model	HDD 1(GB)	HDD 2(GB)	ODD	Media Processor	Extra SW1
AS4540-302G25Mn	N250GB5.4KS	N	NSM8XS	N	McAfee
AS4540-302G25Mn	N250GB5.4KS	N	NSM8XS	N	McAfee
AS4540-302G25Mn	N250GB5.4KS	N	NSM8XS	N	McAfee
AS4540-302G25Mn	N250GB5.4KS	N	NSM8XS	N	McAfee
AS4540-303G25Mn	N250GB5.4KS	N	NSM8XS	N	McAfee
AS4540-501G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4540-504G50Mn	N500GB5.4KS	N	NSM8XS	N	N
AS4540-503G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-504G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-501G25Mn	N250GB5.4KS	N	NSM8XS	N	McAfee
AS4540-503G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-322G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-502G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-302G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-502G25Mn	N250GB5.4KS	N	NSM8XS	N	McAfee
AS4540-503G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-503G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-503G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-503G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-502G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-502G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-502G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-302G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-302G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-302G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-302G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-302G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-302G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-302G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-302G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-302G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-302G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-502G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-502G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-502G25Mn	N250GB5.4KS	N	NSM8XS	N	McAfee
AS4540-502G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-502G32Mn	N320GB5.4KS	N	NSM8XS	N	McAfee
AS4540-502G25Mn	N250GB5.4KS	N	NSM8XS	N	McAfee
AS4540-502G25Mn	N250GB5.4KS	N	NSM8XS	N	McAfee
AS4540-501G16Mn	N160GB5.4KS	N	NSM8XS	N	N
AS4540-521G16Mn	N160GB5.4KS	N	NSM8XS	N	N
AS4540-501G16Mn	N160GB5.4KS	N	NSM8XS	N	N
AS4540-602G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4540-542G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4540-541G16Mn	N160GB5.4KS	N	NSM8XS	N	N

Model	HDD 1(GB)	HDD 2(GB)	ODD	Media Processor	Extra SW1
AS4540-601G16Mn	N160GB5.4KS	N	NSM8XS	N	N
AS4540-521G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4540-621G16Mn	N160GB5.4KS	N	NSM8XS	N	N
AS4540-522G25Mn	N250GB5.4KS	N	NSM8XS	N	N
AS4540-323G25Mn	N250GB5.4KS	N	NSM8XS	N	N

Model	Card Reader	Wireless LAN1	Bluetooth	VOIP Phone
AS4240-122G25Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4240-121G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4240-101G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4240-121G25Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4240-101G25Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-322G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-302G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-302G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-302G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-302G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-302G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-301G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-322G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-302G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-604G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-524G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-504G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-642G50Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-622G50Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-602G50Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-522G50Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-502G50Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-342G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-321G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-622G50Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-602G50Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-642G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-622G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-602G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-301G25Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-342G25Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-322G25Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-642G50Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-502G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-522G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-341G25Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N

Model	Card Reader	Wireless LAN1	Bluetooth	VOIP Phone
AS4540-302G25Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	N	N
AS4540-302G25Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	N	N
AS4540-303G25Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	N	N
AS4540-501G25Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-504G50Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	N	N
AS4540-503G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	N	N
AS4540-504G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	N	N
AS4540-501G25Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-503G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	N	N
AS4540-322G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	N	N
AS4540-502G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-302G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-502G25Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-503G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	N	N
AS4540-503G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	N	N
AS4540-503G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	N	N
AS4540-503G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	N	N
AS4540-502G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-502G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-502G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-302G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-302G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-302G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-302G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-302G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-302G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-302G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-502G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-502G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-502G25Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-502G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-502G32Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-502G25Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-502G25Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-501G16Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-521G16Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-501G16Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-602G25Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-542G25Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-541G16Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-601G16Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N
AS4540-521G25Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N

Model	Card Reader	Wireless LAN1	Bluetooth	VOIP Phone
AS4540-621G16Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	N	N
AS4540-522G25Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	N	N
AS4540-323G25Mn	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1	N

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 the Windows® 7 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 4540/4240 series Compatibility Test Report released by the Acer Mobile System Testing Department.

Microsoft® Windows® 7 Environment Test

BOM_Name	BRAND	Type	Description
Adapter			
AS4540_UMACFbk	Quanta Wistron	Normal wi IMR	Normal wi IMR
AS4240_UMACbk	Quanta Wistron	Normal wi IMR	Normal wi IMR
Audio Codec			
AS4240_UMACbk	Realtek	ALC888S	ALC888S
AS4540_UMACFbk	Realtek	ALC888S	ALC888S
AS4540_UMACbk	Realtek	ALC888S	ALC888S
Battery			
AS4240_UMACbk	SANYO	6CELL2.2	Battery SANYO AS-2007A Li-Ion 3S2P SANYO 6 cell 4400mAh Main COMMON Normal Type
AS4240_UMACbk	SONY	6CELL2.2	Battery SONY AS-2007A Li-Ion 3S2P SONY 6 cell 4400mAh Main COMMON Normal Type
AS4240_UMACbk	PANASONIC	6CELL2.2	Battery PANASONIC AS-2007A Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON PSS
AS4240_UMACbk	SIMPLO	6CELL2.2	Battery SIMPLO AS-2007A Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON PSS
AS4240_UMACbk	SIMPLO	6CELL2.2	Battery SIMPLO AS-2007A Li-Ion 3S2P LGC 6 cell 4400mAh 2nd COMMON
AS4240_UMACbk	SIMPLO	6CELL2.2	Battery SIMPLO AS-2007A Li-Ion 3S2P SAMSUNG 6 cell 4400mAh Main COMMON SDI 2.2mAh F type
AS4540_UMACFbk	SANYO	6CELL2.2	Battery SANYO AS-2007A Li-Ion 3S2P SANYO 6 cell 4400mAh Main COMMON Normal Type
AS4540_UMACFbk	SONY	6CELL2.2	Battery SONY AS-2007A Li-Ion 3S2P SONY 6 cell 4400mAh Main COMMON Normal Type
AS4540_UMACFbk	PANASONIC	6CELL2.2	Battery PANASONIC AS-2007A Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON PSS
AS4540_UMACFbk	SIMPLO	6CELL2.2	Battery SIMPLO AS-2007A Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON PSS
AS4540_UMACFbk	SIMPLO	6CELL2.2	Battery SIMPLO AS-2007A Li-Ion 3S2P LGC 6 cell 4400mAh 2nd COMMON
AS4540_UMACFbk	SIMPLO	6CELL2.2	Battery SIMPLO AS-2007A Li-Ion 3S2P SAMSUNG 6 cell 4400mAh Main COMMON SDI 2.2mAh F type
AS4540_UMACbk	SANYO	6CELL2.2	Battery SANYO AS-2007A Li-Ion 3S2P SANYO 6 cell 4400mAh Main COMMON Normal Type
AS4540_UMACbk	SONY	6CELL2.2	Battery SONY AS-2007A Li-Ion 3S2P SONY 6 cell 4400mAh Main COMMON Normal Type

BOM_Name	BRAND	Type	Description
AS4540_UMACbk	PANASONIC	6CELL2.2	Battery PANASONIC AS-2007A Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON PSS
AS4540_UMACbk	SIMPLO	6CELL2.2	Battery SIMPLO AS-2007A Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON PSS
AS4540_UMACbk	SIMPLO	6CELL2.2	Battery SIMPLO AS-2007A Li-Ion 3S2P LGC 6 cell 4400mAh 2nd COMMON
AS4540_UMACbk	SIMPLO	6CELL2.2	Battery SIMPLO AS-2007A Li-Ion 3S2P SAMSUNG 6 cell 4400mAh Main COMMON SDI 2.2mAh F type
Bluetooth			
AS4240_UMACbk	Foxconn	BT 2.1	Foxconn Bluetooth BRM 2046 BT2.1 (T60H928.33) f/w:861
AS4540_UMACFbk	Foxconn	BT 2.1	Foxconn Bluetooth BRM 2046 BT2.1 (T60H928.33) f/w:861
AS4540_UMACbk	Foxconn	BT 2.1	Foxconn Bluetooth BRM 2046 BT2.1 (T60H928.33) f/w:861
Camera			
AS4240_UMACbk	Suyin	0.3M DV	Suyin 0.3M DV Camellia_2G
AS4240_UMACbk	Chicony	0.3M DV	Chicony 0.3M DV Calla_2G
AS4540_UMACFbk	Suyin	0.3M DV	Suyin 0.3M DV Camellia_2G
AS4540_UMACFbk	Chicony	0.3M DV	Chicony 0.3M DV Calla_2G
AS4540_UMACbk	Suyin	0.3M DV	Suyin 0.3M DV Camellia_2G
AS4540_UMACbk	Chicony	0.3M DV	Chicony 0.3M DV Calla_2G
Card Bus1			
AS4540_UMACFbk	Realtek	RTS5159-GR	Realtek Cardbus RTS5159-GR
AS4540_UMACbk	Realtek	RTS5159-GR	Realtek Cardbus RTS5159-GR
Card Reader			
AS4240_UMACbk		5 in 1-Build in	5 in 1-Build in MS, MS Pro, SD, SC, XD
AS4540_UMACFbk		5 in 1-Build in	5 in 1-Build in MS, MS Pro, SD, SC, XD
AS4540_UMACbk		5 in 1-Build in	5 in 1-Build in MS, MS Pro, SD, SC, XD
CPU			
AS4240_UMACbk	AMD	SMPM100	CPU AMD SempronM M100 2.0G 512K 25W Caspian
AS4240_UMACbk	AMD	SMPM120	CPU AMD SempronM M120 2.1G 512K 25W
AS4540_UMACFbk	AMD	AAM300	CPU AMD AthlonII M300 2.0G 1M 35W Caspian
AS4540_UMACFbk	AMD	AAM320	CPU AMD AthlonII M320 2.1G 1M 35W Caspian
AS4540_UMACFbk	AMD	AAM340	CPU AMD AthlonII M340 2.2G 1M 35W
AS4540_UMACFbk	AMD	ATM500	CPU AMD TurionII M500 2.2G 1M 35W
AS4540_UMACFbk	AMD	ATM520	CPU AMD TurionII M520 2.3G 1M 35W
AS4540_UMACFbk	AMD	ATM540	CPU AMD TurionII M540 2.4G 1M 35W
AS4540_UMACFbk	AMD	ATUM600	CPU AMD Turion M600 2.4G 2M 35W Caspian

BOM_Name	BRAND	Type	Description
AS4540_UMACFbk	AMD	ATUM620	CPU AMD Turion M620 2.5G 2M 35W Caspian
AS4540_UMACFbk	AMD	ATUM640	CPU AMD Turion M640 2.6G 2M 35W Caspian
AS4540_UMACbk	AMD	AAM300	CPU AMD AthlonII M300 2.0G 1M 35W Caspian
AS4540_UMACbk	AMD	AAM320	CPU AMD AthlonII M320 2.1G 1M 35W Caspian
AS4540_UMACbk	AMD	AAM340	CPU AMD AthlonII M340 2.2G 1M 35W
AS4540_UMACbk	AMD	ATM500	CPU AMD TurionII M500 2.2G 1M 35W
AS4540_UMACbk	AMD	ATM520	CPU AMD TurionII M520 2.3G 1M 35W
AS4540_UMACbk	AMD	ATM540	CPU AMD TurionII M540 2.4G 1M 35W
AS4540_UMACbk	AMD	ATUM600	CPU AMD Turion M600 2.4G 2M 35W Caspian
AS4540_UMACbk	AMD	ATUM620	CPU AMD Turion M620 2.5G 2M 35W Caspian
AS4540_UMACbk	AMD	ATUM640	CPU AMD Turion M640 2.6G 2M 35W Caspian
Finger Print Reader			
AS4540G_M92XT51 2CFbk	Authentec	AES1610	Authentec AES1610
AS4540_UMACFbk	Authentec	AES1610	Authentec AES1610
HDD			
AS4240_UMACbk	SEAGATE	N160GB5.4KS	HDD SEAGATE 2.5" 5400rpm 160GB ST9160314AS Wyatt SATA LF F/ W:0001SDM1
AS4240_UMACbk	TOSHIBA	N160GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 160GB MK1655GSX Libra SATA LF F/W: FG011J
AS4240_UMACbk	HGST	N160GB5.4KS	HDD HGST 2.5" 5400rpm 160GB HTS545016B9A300 Panther B SATA LF F/ W:C60F
AS4240_UMACbk	WD	N160GB5.4KS	HDD WD 2.5" 5400rpm 160GB WD1600BEVT-22ZCTO ML160 SATA LF F/ W:11.01A11
AS4240_UMACbk	SEAGATE	N250GB5.4KS	HDD SEAGATE 2.5" 5400rpm 250GB ST9250315AS Wyatt SATA LF F/ W:0001SDM1
AS4240_UMACbk	TOSHIBA	N250GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 250GB MK2555GSX Libra SATA LF F/W:FG001J
AS4240_UMACbk	HGST	N250GB5.4KS	HDD HGST 2.5" 5400rpm 250GB HTS545025B9A300 Panther B SATA LF F/ W:C60F
AS4240_UMACbk	WD	N250GB5.4KS	HDD WD 2.5" 5400rpm 250GB WD2500BEVT-22ZCT0 ML160 SATA LF F/ W:11.01A11
AS4240_UMACbk	SEAGATE	N320GB5.4KS	HDD SEAGATE 2.5" 5400rpm 320GB ST9320325AS Wyatt SATA LF F/ W:0001SDM1
AS4240_UMACbk	TOSHIBA	N320GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 320GB MK3255GSX Libra SATA LF F/W:FG011J

BOM_Name	BRAND	Type	Description
AS4240_UMACbk	HGST	N320GB5.4KS	HDD HGST 2.5" 5400rpm 320GB HTS545032B9A300 Panther B SATA LF F/W: C60F
AS4240_UMACbk	WD	N320GB5.4KS	HDD WD 2.5" 5400rpm 320GB WD3200BEVT-22ZCT0 ML160 SATA LF F/ W:11.01A11
AS4240_UMACbk	SEAGATE	N500GB5.4KS	HDD SEAGATE 2.5" 5400rpm 500GB ST9500325AS Wyatt SATA LF F/ W:0001SDM1
AS4240_UMACbk	TOSHIBA	N500GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 500GB MK5055GSX Libra SATA LF F/W:FG001J
AS4240_UMACbk	HGST	N500GB5.4KS	HDD HGST 2.5" 5400rpm 500GB HTS545050B9A300 Panther B SATA LF F/ W:C60F
AS4240_UMACbk	WD	N500GB5.4KS	HDD WD 2.5" 5400rpm 500GB WD5000BEVT-22ZAT0 ML250 SATA LF F/ W:01.01A01
AS4540_UMACFbk	SEAGATE	N160GB5.4KS	HDD SEAGATE 2.5" 5400rpm 160GB ST9160314AS Wyatt SATA LF F/ W:0001SDM1
AS4540_UMACFbk	TOSHIBA	N160GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 160GB MK1655GSX Libra SATA LF F/W: FG011J
AS4540_UMACFbk	HGST	N160GB5.4KS	HDD HGST 2.5" 5400rpm 160GB HTS545016B9A300 Panther B SATA LF F/ W:C60F
AS4540_UMACFbk	WD	N160GB5.4KS	HDD WD 2.5" 5400rpm 160GB WD1600BEVT-22ZCT0 ML160 SATA LF F/ W:11.01A11
AS4540_UMACFbk	SEAGATE	N250GB5.4KS	HDD SEAGATE 2.5" 5400rpm 250GB ST9250315AS Wyatt SATA LF F/ W:0001SDM1
AS4540_UMACFbk	TOSHIBA	N250GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 250GB MK2555GSX Libra SATA LF F/W:FG001J
AS4540_UMACFbk	HGST	N250GB5.4KS	HDD HGST 2.5" 5400rpm 250GB HTS545025B9A300 Panther B SATA LF F/ W:C60F
AS4540_UMACFbk	WD	N250GB5.4KS	HDD WD 2.5" 5400rpm 250GB WD2500BEVT-22ZCT0 ML160 SATA LF F/ W:11.01A11
AS4540_UMACFbk	SEAGATE	N320GB5.4KS	HDD SEAGATE 2.5" 5400rpm 320GB ST9320325AS Wyatt SATA LF F/ W:0001SDM1
AS4540_UMACFbk	TOSHIBA	N320GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 320GB MK3255GSX Libra SATA LF F/W:FG011J
AS4540_UMACFbk	HGST	N320GB5.4KS	HDD HGST 2.5" 5400rpm 320GB HTS545032B9A300 Panther B SATA LF F/W: C60F
AS4540_UMACFbk	WD	N320GB5.4KS	HDD WD 2.5" 5400rpm 320GB WD3200BEVT-22ZCT0 ML160 SATA LF F/ W:11.01A11

BOM_Name	BRAND	Type	Description
AS4540_UMACFbk	SEAGATE	N500GB5.4KS	HDD SEAGATE 2.5" 5400rpm 500GB ST9500325AS Wyatt SATA LF F/ W:0001SDM1
AS4540_UMACFbk	TOSHIBA	N500GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 500GB MK5055GSX Libra SATA LF F/W:FG001J
AS4540_UMACFbk	HGST	N500GB5.4KS	HDD HGST 2.5" 5400rpm 500GB HTS545050B9A300 Panther B SATA LF F/ W:C60F
AS4540_UMACFbk	WD	N500GB5.4KS	HDD WD 2.5" 5400rpm 500GB WD5000BEVT-22ZAT0 ML250 SATA LF F/ W:01.01A01
AS4540_UMACbk	SEAGATE	N160GB5.4KS	HDD SEAGATE 2.5" 5400rpm 160GB ST9160314AS Wyatt SATA LF F/ W:0001SDM1
AS4540_UMACbk	TOSHIBA	N160GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 160GB MK1655GSX Libra SATA LF F/W: FG011J
AS4540_UMACbk	HGST	N160GB5.4KS	HDD HGST 2.5" 5400rpm 160GB HTS545016B9A300 Panther B SATA LF F/ W:C60F
AS4540_UMACbk	WD	N160GB5.4KS	HDD WD 2.5" 5400rpm 160GB WD1600BEVT-22ZCT0 ML160 SATA LF F/ W:11.01A11
AS4540_UMACbk	SEAGATE	N250GB5.4KS	HDD SEAGATE 2.5" 5400rpm 250GB ST9250315AS Wyatt SATA LF F/ W:0001SDM1
AS4540_UMACbk	TOSHIBA	N250GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 250GB MK2555GSX Libra SATA LF F/W:FG001J
AS4540_UMACbk	HGST	N250GB5.4KS	HDD HGST 2.5" 5400rpm 250GB HTS545025B9A300 Panther B SATA LF F/ W:C60F
AS4540_UMACbk	WD	N250GB5.4KS	HDD WD 2.5" 5400rpm 250GB WD2500BEVT-22ZCT0 ML160 SATA LF F/ W:11.01A11
AS4540_UMACbk	SEAGATE	N320GB5.4KS	HDD SEAGATE 2.5" 5400rpm 320GB ST9320325AS Wyatt SATA LF F/ W:0001SDM1
AS4540_UMACbk	TOSHIBA	N320GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 320GB MK3255GSX Libra SATA LF F/W:FG011J
AS4540_UMACbk	HGST	N320GB5.4KS	HDD HGST 2.5" 5400rpm 320GB HTS545032B9A300 Panther B SATA LF F/W: C60F
AS4540_UMACbk	WD	N320GB5.4KS	HDD WD 2.5" 5400rpm 320GB WD3200BEVT-22ZCT0 ML160 SATA LF F/ W:11.01A11
AS4540_UMACbk	SEAGATE	N500GB5.4KS	HDD SEAGATE 2.5" 5400rpm 500GB ST9500325AS Wyatt SATA LF F/ W:0001SDM1
AS4540_UMACbk	TOSHIBA	N500GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 500GB MK5055GSX Libra SATA LF F/W:FG001J
AS4540_UMACbk	HGST	N500GB5.4KS	HDD HGST 2.5" 5400rpm 500GB HTS545050B9A300 Panther B SATA LF F/ W:C60F

BOM_Name	BRAND	Type	Description
AS4540_UMACbk	WD	N500GB5.4KS	HDD WD 2.5" 5400rpm 500GB WD5000BEVT-22ZAT0 ML250 SATA LF F/ W:01.01A01
Keyboard			
AS4240_UMACbk	ACER	AC4T	Keyboard ACER AC4T JV40 Internal 14 Standard Black Texture
AS4540_UMACFbk	ACER	AC4T	Keyboard ACER AC4T JV40 Internal 14 Standard Black Texture
AS4540_UMACbk	ACER	AC4T	Keyboard ACER AC4T JV40 Internal 14 Standard Black Texture
LAN			
AS4240_UMACbk	Atheros	AR8131L	Atheros AR8131L
AS4540_UMACFbk	Atheros	AR8131L	Atheros AR8131L
AS4540_UMACbk	Atheros	AR8131L	Atheros AR8131L
LCD			
AS4240_UMACbk	AUO	NLED14WXGAG	LED LCD AUO 14" WXGA Glare B140XW01 V0 0A LF 220nit 8ms 500:1
AS4240_UMACbk	AUO	NLED14WXGAG	LED LCD AUO 14" WXGA Glare B140XW01 V0 1A LF 200nit 8ms 500:1
AS4240_UMACbk	SAMSUNG	NLED14WXGAG	LED LCD SAMSUNG 14" WXGA Glare LTN140AT01-G01 LF 220nit 8ms 500:1
AS4240_UMACbk	LPL	NLED14WXGAG	LED LCD LPL 14" WXGA Glare LP140WH1- TLA1 LF 220nit 8ms 500:1
AS4240_UMACbk	CMO	NLED14WXGAG	LED LCD CMO 14" WXGA Glare N140B6- L02 LF 220nit 8ms 400:1
AS4240_UMACbk	CMO	NLED14WXGAG	LED LCD CMO 14" WXGA Glare N140B6- L02 C2 LF 220nit 8ms 400:1
AS4540_UMACFbk	AUO	NLED14WXGAG	LED LCD AUO 14" WXGA Glare B140XW01 V0 0A LF 220nit 8ms 500:1
AS4540_UMACFbk	AUO	NLED14WXGAG	LED LCD AUO 14" WXGA Glare B140XW01 V0 1A LF 200nit 8ms 500:1
AS4540_UMACFbk	SAMSUNG	NLED14WXGAG	LED LCD SAMSUNG 14" WXGA Glare LTN140AT01-G01 LF 220nit 8ms 500:1
AS4540_UMACFbk	LPL	NLED14WXGAG	LED LCD LPL 14" WXGA Glare LP140WH1- TLA1 LF 220nit 8ms 500:1
AS4540_UMACFbk	CMO	NLED14WXGAG	LED LCD CMO 14" WXGA Glare N140B6- L02 LF 220nit 8ms 400:1
AS4540_UMACFbk	CMO	NLED14WXGAG	LED LCD CMO 14" WXGA Glare N140B6- L02 C2 LF 220nit 8ms 400:1
AS4540_UMACbk	AUO	NLED14WXGAG	LED LCD AUO 14" WXGA Glare B140XW01 V0 0A LF 220nit 8ms 500:1
AS4540_UMACbk	AUO	NLED14WXGAG	LED LCD AUO 14" WXGA Glare B140XW01 V0 1A LF 200nit 8ms 500:1
AS4540_UMACbk	SAMSUNG	NLED14WXGAG	LED LCD SAMSUNG 14" WXGA Glare LTN140AT01-G01 LF 220nit 8ms 500:1
AS4540_UMACbk	LPL	NLED14WXGAG	LED LCD LPL 14" WXGA Glare LP140WH1- TLA1 LF 220nit 8ms 500:1
AS4540_UMACbk	CMO	NLED14WXGAG	LED LCD CMO 14" WXGA Glare N140B6- L02 LF 220nit 8ms 400:1

BOM_Name	BRAND	Type	Description
AS4540_UMACbk	CMO	NLED14WXGAG	LED LCD CMO 14" WXGA Glare N140B6-L02 C2 LF 220nit 8ms 400:1
Memory			
AS4240_UMACbk	NANYA	SO1GBII6	Memory NANYA SO-DIMM DDRII 667 1GB NT1GT64UH8D0FN-3C LF 64*16 0.07um
AS4240_UMACbk	MICRON	SO1GBII6	Memory MICRON SO-DIMM DDRII 667 1GB MT8HTF12864HDY-667G1 LF 64*16 0.065um
AS4240_UMACbk	SAMSUNG	SO1GBII6	Memory SAMSUNG SO-DIMM DDRII 667 1GB M470T2864EH3-CE6 LF 64*16 0.055um
AS4240_UMACbk	HYNIX	SO1GBII6	Memory HYNIX SO-DIMM DDRII 667 1GB HYMP112S64CP6-Y5 LF
AS4240_UMACbk	NANYA	SO2GBII6	Memory NANYA SO-DIMM DDRII 667 2GB NT2GT64U8HD0BN-3C LF 128*8 0.07um
AS4240_UMACbk	MICRON	SO2GBII6	Memory MICRON SO-DIMM DDRII 667 2GB MT16HTF25664HY-667G1 LF 128*8 0.065um
AS4240_UMACbk	SAMSUNG	SO2GBII6	Memory SAMSUNG SO-DIMM DDRII 667 2GB M470T5663EH3-CE6 LF 128*8 0.055um
AS4240_UMACbk	HYNIX	SO2GBII6	Memory HYNIX SO-DIMM DDRII 667 2GB HYMP125S64CP8-Y5 LF
AS4540_UMACFbk	NANYA	SO1GBII6	Memory NANYA SO-DIMM DDRII 667 1GB NT1GT64UH8D0FN-3C LF 64*16 0.07um
AS4540_UMACFbk	MICRON	SO1GBII6	Memory MICRON SO-DIMM DDRII 667 1GB MT8HTF12864HDY-667G1 LF 64*16 0.065um
AS4540_UMACFbk	SAMSUNG	SO1GBII6	Memory SAMSUNG SO-DIMM DDRII 667 1GB M470T2864EH3-CE6 LF 64*16 0.055um
AS4540_UMACFbk	HYNIX	SO1GBII6	Memory HYNIX SO-DIMM DDRII 667 1GB HYMP112S64CP6-Y5 LF
AS4540_UMACFbk	NANYA	SO2GBII6	Memory NANYA SO-DIMM DDRII 667 2GB NT2GT64U8HD0BN-3C LF 128*8 0.07um
AS4540_UMACFbk	MICRON	SO2GBII6	Memory MICRON SO-DIMM DDRII 667 2GB MT16HTF25664HY-667G1 LF 128*8 0.065um
AS4540_UMACFbk	SAMSUNG	SO2GBII6	Memory SAMSUNG SO-DIMM DDRII 667 2GB M470T5663EH3-CE6 LF 128*8 0.055um
AS4540_UMACFbk	HYNIX	SO2GBII6	Memory HYNIX SO-DIMM DDRII 667 2GB HYMP125S64CP8-Y5 LF
AS4540_UMACbk	NANYA	SO1GBII6	Memory NANYA SO-DIMM DDRII 667 1GB NT1GT64UH8D0FN-3C LF 64*16 0.07um
AS4540_UMACbk	MICRON	SO1GBII6	Memory MICRON SO-DIMM DDRII 667 1GB MT8HTF12864HDY-667G1 LF 64*16 0.065um
AS4540_UMACbk	SAMSUNG	SO1GBII6	Memory SAMSUNG SO-DIMM DDRII 667 1GB M470T2864EH3-CE6 LF 64*16 0.055um
AS4540_UMACbk	HYNIX	SO1GBII6	Memory HYNIX SO-DIMM DDRII 667 1GB HYMP112S64CP6-Y5 LF
AS4540_UMACbk	NANYA	SO2GBII6	Memory NANYA SO-DIMM DDRII 667 2GB NT2GT64U8HD0BN-3C LF 128*8 0.07um
AS4540_UMACbk	MICRON	SO2GBII6	Memory MICRON SO-DIMM DDRII 667 2GB MT16HTF25664HY-667G1 LF 128*8 0.065um

BOM_Name	BRAND	Type	Description
AS4540_UMACbk	SAMSUNG	SO2GBII6	Memory SAMSUNG SO-DIMM DDRII 667 2GB M470T5663EH3-CE6 LF 128*8 0.055um
AS4540_UMACbk	HYNIX	SO2GBII6	Memory HYNIX SO-DIMM DDRII 667 2GB HYMP125S64CP8-Y5 LF
Modem			
AS4240_UMACbk	Foxconn	Fox+Con MC4Z 1.5_3.3V Aus	Foxconn Conexant -Unizion 1.5_3.3v AUS T60M955.0x
AS4540_UMACFbk	Foxconn	Fox+Con MC4Z 1.5_3.3V Aus	Foxconn Conexant -Unizion 1.5_3.3v AUS T60M955.0x
AS4540_UMACbk	Foxconn	Fox+Con MC4Z 1.5_3.3V Aus	Foxconn Conexant -Unizion 1.5_3.3v AUS T60M955.0x
Northbridge Chipset			
AS4240_UMACbk	AMD	AMDRS880M	AMD RS880M w/ HDCP EEPROM
AS4540_UMACFbk	AMD	AMDRS880M	AMD RS880M w/ HDCP EEPROM
AS4540_UMACbk	AMD	AMDRS880M	AMD RS880M w/ HDCP EEPROM
ODD			
AS4240_UMACbk	TOSHIBA	NSM8XS	ODD TOSHIBA Super-Multi DRIVE 12.7mm Tray DL 8X TS-L633B LF W/O bezel SATA
AS4240_UMACbk	TOSHIBA	NSM8XS	ODD TOSHIBA Super-Multi DRIVE 12.7mm Tray DL 8X TS-L633B LF W/O bezel AC02 SATA (Windows 7)
AS4240_UMACbk	PANASONIC	NSM8XS	ODD PANASONIC Super-Multi DRIVE 12.7mm Tray DL 8X UJ880A LF W/O bezel SATA
AS4240_UMACbk	HLDS	NSM8XS	ODD HLDS Super-Multi DRIVE 12.7mm Tray DL 8X GT20N LF W/O bezel SATA
AS4240_UMACbk	HLDS	NSM8XS	ODD HLDS Super-Multi DRIVE 12.7mm Tray DL 8X GT20N LF W/O bezel CP03 SATA (Windows 7)
AS4240_UMACbk	SONY	NSM8XS	ODD SONY Super-Multi DRIVE 12.7mm Tray DL 8X AD-7580S LF W/O bezel SATA
AS4240_UMACbk	SONY	NSM8XS	ODD SONY Super-Multi DRIVE 12.7mm Tray DL 8X AD-7580S LF W/O bezel FW FX20 SATA (Windows 7)
AS4240_UMACbk	PLDS	NSM8XS	ODD PLDS Super-Multi DRIVE 12.7mm Tray DL 8X DS-8A3S LF W/O bezel HA18 SATA (Windows 7)
AS4540_UMACFbk	PANASONIC	NBDCB4XS	ODD PANASONIC BD COMBO 12.7mm Tray DL 4X UJ-130A LF W/O bezel SATA 2X Single Layer, 4X Double Layer
AS4540_UMACFbk	HLDS	NBDCB4XS	ODD HLDS BD COMBO 12.7mm Tray DL 4X CT10 LF W/O bezel SATA
AS4540_UMACFbk	PLDS	NBDCB4XS	ODD PLDS BD COMBO 12.7mm Tray DL 4X DS-4E1S LF W/O bezel SATA
AS4540_UMACFbk	TOSHIBA	NSM8XS	ODD TOSHIBA Super-Multi DRIVE 12.7mm Tray DL 8X TS-L633B LF W/O bezel SATA
AS4540_UMACFbk	TOSHIBA	NSM8XS	ODD TOSHIBA Super-Multi DRIVE 12.7mm Tray DL 8X TS-L633B LF W/O bezel AC02 SATA (Windows 7)

BOM_Name	BRAND	Type	Description
AS4540_UMACFbk	PANASONIC	NSM8XS	ODD PANASONIC Super-Multi DRIVE 12.7mm Tray DL 8X UJ880A LF W/O bezel SATA
AS4540_UMACFbk	HLDS	NSM8XS	ODD HLDS Super-Multi DRIVE 12.7mm Tray DL 8X GT20N LF W/O bezel SATA
AS4540_UMACFbk	HLDS	NSM8XS	ODD HLDS Super-Multi DRIVE 12.7mm Tray DL 8X GT20N LF W/O bezel CP03 SATA (Windows 7)
AS4540_UMACFbk	SONY	NSM8XS	ODD SONY Super-Multi DRIVE 12.7mm Tray DL 8X AD-7580S LF W/O bezel SATA
AS4540_UMACFbk	SONY	NSM8XS	ODD SONY Super-Multi DRIVE 12.7mm Tray DL 8X AD-7580S LF W/O bezel FW FX20 SATA (Windows 7)
AS4540_UMACFbk	PLDS	NSM8XS	ODD PLDS Super-Multi DRIVE 12.7mm Tray DL 8X DS-8A3S LF W/O bezel HA18 SATA (Windows 7)
AS4540_UMACbk	PANASONIC	NBDCB4XS	ODD PANASONIC BD COMBO 12.7mm Tray DL 4X UJ-130A LF W/O bezel SATA 2X Single Layer, 4X Double Layer
AS4540_UMACbk	HLDS	NBDCB4XS	ODD HLDS BD COMBO 12.7mm Tray DL 4X CT10 LF W/O bezel SATA
AS4540_UMACbk	PLDS	NBDCB4XS	ODD PLDS BD COMBO 12.7mm Tray DL 4X DS-4E1S LF W/O bezel SATA
AS4540_UMACbk	TOSHIBA	NSM8XS	ODD TOSHIBA Super-Multi DRIVE 12.7mm Tray DL 8X TS-L633B LF W/O bezel SATA
AS4540_UMACbk	TOSHIBA	NSM8XS	ODD TOSHIBA Super-Multi DRIVE 12.7mm Tray DL 8X TS-L633B LF W/O bezel AC02 SATA (Windows 7)
AS4540_UMACbk	PANASONIC	NSM8XS	ODD PANASONIC Super-Multi DRIVE 12.7mm Tray DL 8X UJ880A LF W/O bezel SATA
AS4540_UMACbk	HLDS	NSM8XS	ODD HLDS Super-Multi DRIVE 12.7mm Tray DL 8X GT20N LF W/O bezel SATA
AS4540_UMACbk	HLDS	NSM8XS	ODD HLDS Super-Multi DRIVE 12.7mm Tray DL 8X GT20N LF W/O bezel CP03 SATA (Windows 7)
AS4540_UMACbk	SONY	NSM8XS	ODD SONY Super-Multi DRIVE 12.7mm Tray DL 8X AD-7580S LF W/O bezel SATA
AS4540_UMACbk	SONY	NSM8XS	ODD SONY Super-Multi DRIVE 12.7mm Tray DL 8X AD-7580S LF W/O bezel FW FX20 SATA (Windows 7)
AS4540_UMACbk	PLDS	NSM8XS	ODD PLDS Super-Multi DRIVE 12.7mm Tray DL 8X DS-8A3S LF W/O bezel HA18 SATA (Windows 7)
Southbridge Chipset			
AS4240_UMACbk	AMD	AMDSB710	AMD SB710
AS4540_UMACFbk	AMD	AMDSB710	AMD SB710
AS4540_UMACbk	AMD	AMDSB710	AMD SB710
Software			
AS4240_UMACbk		McAfee	Antivirus application McAfee

BOM_Name	BRAND	Type	Description
AS4540_UMACFbk		McAfee	Antivirus application McAfee
AS4540_UMACbk		McAfee	Antivirus application McAfee
VGA Chip			
AS4240_UMACbk	None	UMA	UMA (AMD)
AS4540_UMACFbk	None	UMA	UMA (AMD)
AS4540_UMACbk	None	UMA	UMA (AMD)
WiFi Antenna			
AS4240_UMACbk	WNC	PIFA	PIFA
AS4540_UMACFbk	WNC	PIFA	PIFA
AS4540_UMACbk	WNC	PIFA	PIFA
WLAN			
AS4240_UMACbk	Foxconn	3rd WiFi 1x2 BGN	Foxconn Wireless LAN Atheros AR5B91 1x2 BGN
AS4240_UMACbk	Foxconn	3rd WiFi 1x2 BGN	Foxconn Wireless LAN Wireless LAN Ralink RT2700E 1x2 BGN
AS4240_UMACbk	QMI	3rd WiFi 1x2 BGN	QMI Wireless LAN Atheros AR5B91 1x2 BGN (EM303)
AS4240_UMACbk	Foxconn	3rd WiFi 1x2 BGN	Foxconn Wireless LAN Atheros HB93 1x2 BGN (HM)
AS4540_UMACFbk	Foxconn	3rd WiFi 1x2 BGN	Foxconn Wireless LAN Atheros AR5B91 1x2 BGN
AS4540_UMACFbk	Foxconn	3rd WiFi 1x2 BGN	Foxconn Wireless LAN Wireless LAN Ralink RT2700E 1x2 BGN
AS4540_UMACFbk	QMI	3rd WiFi 1x2 BGN	QMI Wireless LAN Atheros AR5B91 1x2 BGN (EM303)
AS4540_UMACFbk	Foxconn	3rd WiFi 1x2 BGN	Foxconn Wireless LAN Atheros HB93 1x2 BGN (HM)
AS4540_UMACbk	Foxconn	3rd WiFi 1x2 BGN	Foxconn Wireless LAN Atheros AR5B91 1x2 BGN
AS4540_UMACbk	Foxconn	3rd WiFi 1x2 BGN	Foxconn Wireless LAN Wireless LAN Ralink RT2700E 1x2 BGN
AS4540_UMACbk	QMI	3rd WiFi 1x2 BGN	QMI Wireless LAN Atheros AR5B91 1x2 BGN (EM303)
AS4540_UMACbk	Foxconn	3rd WiFi 1x2 BGN	Foxconn Wireless LAN Atheros HB93 1x2 BGN (HM)

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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