Aspire 4740/4740G 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

Revision History

Please refer to the table below for the updates made to this 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:

Operating System

- Genuine Windows® 7™

Platform

- Intel® Core™ i7 processor*
- Intel® Core™ i5 processor*
- Intel® Core™ i3 processor*
- Mobile Intel® HM55 Express Chipset

System Memory

- Dual-Channel SDRAM support
- Up to 4 GB of DDR3 1066 MHz memory, upgradeable to 8 GB using two soDIMM modules

Display and graphics

- 16:9 aspect ratio
- 14" HD 1366 x 768
- NVIDIA® GeForce® 310M (Aspire 4740G)
- Integrated Intel® GMA HD graphics (Aspire 4740)

Storage subsystem

- 2.5" hard disk drive
- Optical drive option:
    - Blu-ray Disc™ /DVD-Super Multi double-layer drive*
    - DVD-Super Multi double-layer drive*
- Multi-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:
    - Intel® Centrino® Advanced-N 6200 802.11a/g/n*
    - Acer InviLink™ Nplify™ 802.11b/g/n*
    - Acer InviLink™ 802.11b/g*
- WPAN: Bluetooth® 2.1+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)
- 2.3Kg (5.07lbs) with 6-cell battery

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*
- ENERGY STAR®*

Special keys and controls

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

I/O interface

- Multi-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

Clock Generator
IDT: 9LRS3199AKLFT
SILEGO: SLG8SP587
133/120/100/96/14.318MHZ to PCH
48MHZ to CardReader   page 12

Fan Control page 41

Nvidia N11MGE1
page 22,23,24,25,26,27

HDMI(DIS)

PEG(DIS)   100MHz   PCI-E 2.0x16   5GT/s PER LANE   133MHz

Intel
Auburndale / Clarksfield
(UMA/DIS)   (DIS)
Processor
rPGA988A
page 4,5,6,7,8,9

Memory BUS(DDRIII)
Dual Channel

1.5V DDRIII 800/1066/1333
6.4G/8.5G/10.6G
100M/133M/166M(CFD)

204pin DDRIII-SO-DIMM X2
BANK 0, 1, 2, 3   page 10,11

LVDS(DIS)
CRT(DIS)

HDMI Conn.
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CRT Conn.
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CRT SW
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LVDS Conn.
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LVDS SW
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FDI x8 (UMA)
100MHz
2.7GT/s

DMI x4
100MHz
1GB/s x4

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USB port 8 HS
USB Port 2 (eSATA)
USB port 0 (sub board) page 35

Bluetooth Conn
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CMOS Camera
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Finger Printer
USB port 11
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Card Reader
USB port 6
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Level Shift
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LVDS(UMA)

CRT(UMA)

HDMI(UMA)

USBx14   3.3V 48MHz

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Ibex Peak-M
PCH
page 13,14,15,16,17
18,19,20,21

HD Audio   3.3V 24MHz

SATA x 6 (GEN1 1.5GT/S ,GEN2 3GT/S)   100MHz

HDA Codec
ALC888
page 40

MDC
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PCI-Express x 8 (ABD PCIE1 2.5GT/S CKD PCIE1/2 2.5/5GT/S)   100MHz

port 2,4   port 1

SPI

MINI Card x2
WLAN, TV
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LAN(GbE)
BCM57780
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SPI ROM x2
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port 0

SATA HDD Conn.
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port 1

SATA ODD Conn.
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port 4

eSATA Conn.
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APA2051
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RJ45
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LPC BUS

33MHz

ENE KB926
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Int. Speaker
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RTC CKT.
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NAL90 Sub-board

LS-5682P
USB/B
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NALG0 Sub-board

LS-5682P
USB/B
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Touch Pad
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Int.KBD
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Power On/Off CKT.
page 8

LS-4493P
Media/B
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BIOS ROM
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DC/DC Interface CKT.
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LS-5683P
Function/B
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LS-5683P
Function/B
page 38

Power Circuit DC/DC
page

LS-5681P
Finger Printer/B
page 35

LS-5681P
Finger Printer/B
page 35

Your Acer Notebook tour

Front View
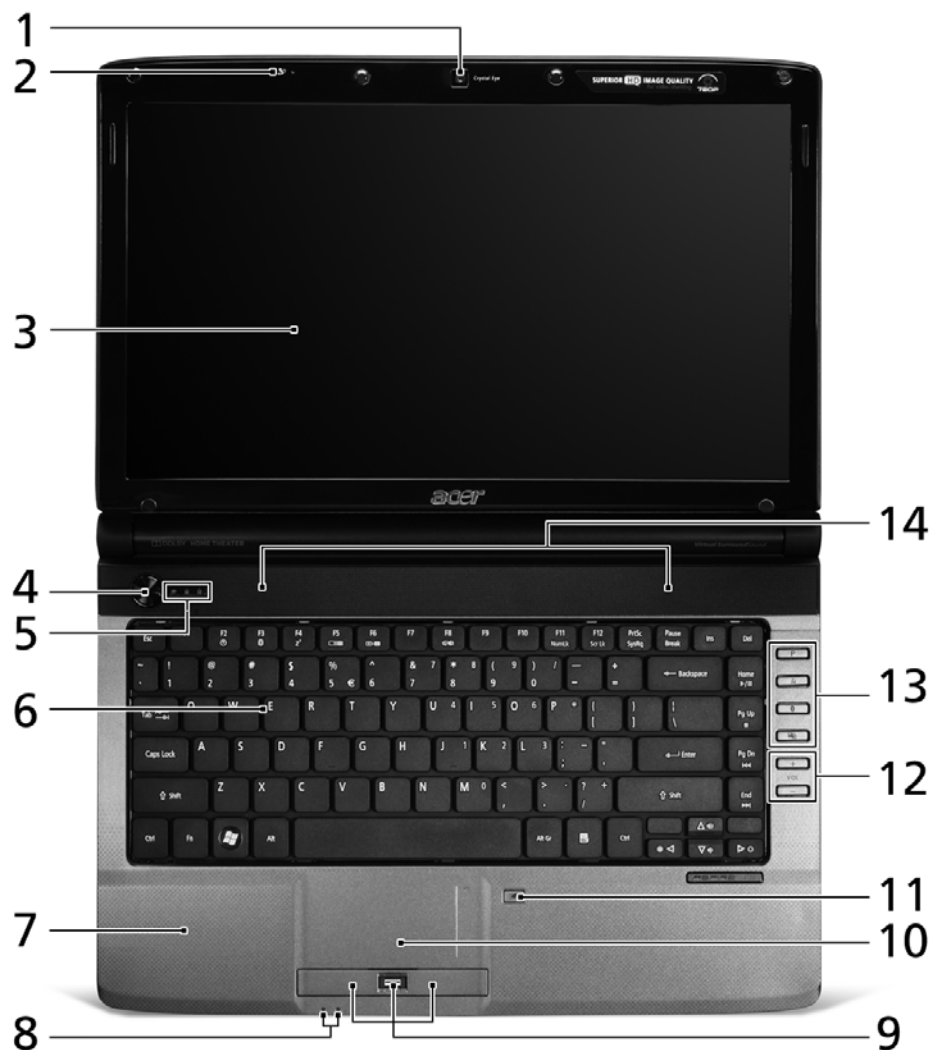
No.	Icon	Item	Description
1		Acer Crystal Eye webcam	Web camera for video communication (only for certain models).
2	✎	Microphone	Internal microphone for sound recording.
3		Display screen	Also called Liquid-Crystal Display (LCD), displays computer output (Configuration may vary by models).
4	⏻	Power button	Turns the computer on and off.
5		Status indicators	Light-Emitting Diodes (LEDs) that light up to show the status of the computer's functions and components.
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		Status indicators	Light-Emitting Diodes (LEDs) that light up to show the status of the computer's functions and components.
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		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.

Left View

No.	Icon	Item	Description
1	▬▬	DC in jack	Connects to an AC adapter
2	몸	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).
4	•⟵⁺⟶	USB 2.0	Connects to USB 2.0 devices.
5	**HDMI**	HDMI port	Supports high definition digital video connections.
6	((↭))	Line-in jack	Accepts audio line-in devices (e.g., audio CD player, stereo walkman, mp3 player).
	⟍ʾ	Microphone jack	Accepts inputs from external microphones.
	⌒ SPDIF	Headphones/ speaker/line-out jack with S/PDIF support	Connects to audio line-out devices (e.g., speakers, headphones).
7	SD M PRO xD	Multi-in-1 card reader	Accepts Secure Digital (SD), MultiMediaCard (MMC), 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.

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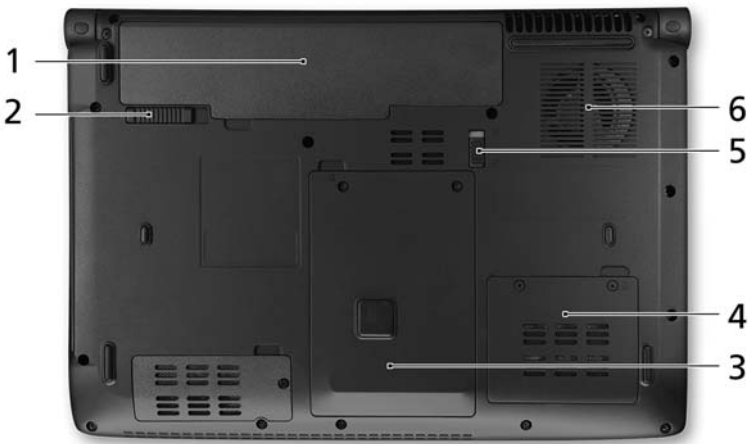
No.	Icon	Item	Description
1		Battery bay	Houses the computer's battery pack.
2		Battery release latch	Releases the battery for removal.
3		Hard disk bay	Houses the computer's hard disk (secured with screws).
4		Memory compartment	Houses the computer's main memory.
5		Battery lock	Locks the battery in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

Indicators

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

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

Icon	Function	Description
☀	Power	Indicates the computer's power status.
🔋	Battery	Indicates the computer's battery status.

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

Easy-Launch Buttons

Located beside the keyboard are application buttons. These buttons are called easy-launch buttons. They are: Programmable, Backup, Wireless LAN, and Bluetooth.

To set the programmable key, run the Acer Launch Manager.

Icon	Function	Description
P	Programmable key	User-Programmable.
✉	Backup key	Launches Acer Backup Management for three-step data backup.
◌	Wireless communication switch	Enables/disables the wireless function.
❊	Bluetooth communication switch	Enables/disables the Bluetooth function.

Touchpad Basics (with fingerprint reader)

The following items show you how to use the touchpad with Acer Bio-Protection fingerprint reader:
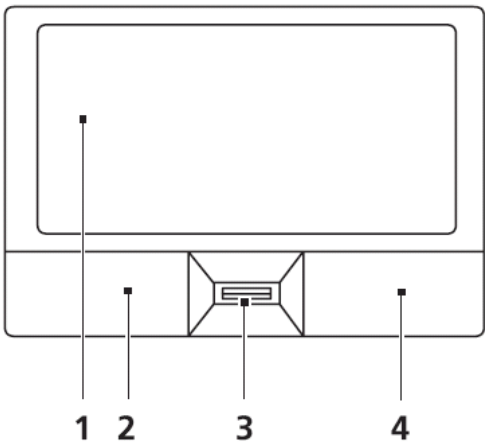
- Move your finger across the touchpad (1) to move the cursor.

- 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	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: **< >:** 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 **Note:** Depending on your edition of Windows 7, some shortcuts may not function as described.
Application key	This key has the same effect as clicking the right mouse button; it opens the application's context menu.

Hot Keys

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

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

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

Special Key

You can locate the Euro symbol and 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.
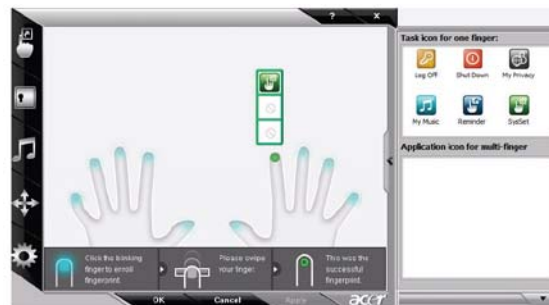
Hardware Specifications and Configurations

Processor

Item	Specification
CPU Type	Intel® Mobile Calpella Arrandale CPU
Core Logic	• Two execution cores • A 32-KB instruction and 32-KB data first-level cache (L1) for each core • A 256-KB shared instruction/data second-level cache (L2) for each core • Up to 4-MB shared instruction/data third-level cache (L3), shared among all cores
CPU Package	mPGA-989
CPU Core Voltage	Refer to table below

Processor Specifications

Processor #	CPU Speed	Cores	Bus Speed GT/s	Cache Size	Package	Core Voltage	Acer P/N
Ci3330M	2.13 GHz	2	1.6	3 MB	mPGA-989	35 W	KC.33001.DMP
Ci3350M	2.26 GHz	2	2.5	3 MB	mPGA-989	35 W	KC.35001.DMP
Ci5430M	2.26 GHz	2-4	2.5	3 MB	mPGA-989	35 W	KC.43001.DMP
Ci5520M	2.4 GHz	2-4	2.5	3 MB	mPGA-989	35 W	KC.52001.DMP
Ci5540M	2.53 GHz	2-4	2.5	3 MB	mPGA-989	35 W	KC.54001.DMP
Ci7620M	2.66 GHz	4	N/A	4 MB	mPGA-989	35 W	KC.62001.DMP

System Board Major Chips

Item	Specifications
Core logic	Intel Ibex Peak-M (HM55)
Keyboard Controller	ENE KB926 for Keyboard Controller, Battery management Unit, and RTC
LAN	Broadcom BCM57780A1KMLG for Giga LAN
Media Card Reader	Realtek RTS5159 for Card Reader, 7 in 1 controller
Audio Codec	Realtek ALC888S-VC for High Definition Audio Codec with Dolby Digital Live

CPU Fan True Value Table (DIS)

CPU Temperature (°C)				Fan Speed (rpm)	SPL Spec (dBA)
Core 0	Core 1	Core 2	Core 3		
45	45	45	45	2900	28
55	55	55	55	3200	31
60	60	60	60	3500	34
68	68	68	68	3900	37
85	85	85	85	4200	40
99	99	99	99	4200	40

- Throttling 50%: On =99°C; Off=89°C
- OS Shut down: 104°C
- H/W Shut down: 92°C

CPU Fan True Value Table (UMA)

CPU Temperature (°C)				Fan Speed (rpm)	SPL Spec (dBA)
Core 0	Core 1	Core 2	Core 3		
40	40	40	40	2900	28
45	45	45	45	3200	31
50	50	50	50	3500	34
60	60	60	60	3900	37
80	80	80	80	4200	40
99	99	99	99	4200	40

- Throttling 50%: On =99°C; Off=89°C
- OS Shut down: 104°C
- H/W Shut down: 92°C

BIOS ROM

Item	Specification
BIOS Vendor	Insyde H20
BIOS Version	V0.09
BIOS ROM Type	Flash ROM
BIOS ROM Size	4 MB
Supported Protocols	• Support ISIPP • Support Acer UI • Support multi-boot • Suspend to RAM (S3)/Disk (S4) • Various hot-keys for system control • Support SMBIOS 2.3 ,PCI2.2. • Refer to Acer BIOS specification. • DMI utility for BIOS serial number configurable/asset tag • Support PXE • Support WinFlash • Wake on LAN from S3 • Wake on LAN form S4 in AC mode
BIOS Password control	Supervisor, User, and HDD

System Memory

Item	Specifications
Memory Controller	Onboard
Memory Size	0MB (No on-board Memory)
DIMM socket number	2 sockets
Supports Memory size per socket	4 GB
Support maximum memory size	8 GB for 64bit OS (with two 2GB SO-DIMM)
Support DIMM type	DDR III Synchronous DRAM
Support DIMM Speed	800/1066 MHz
Support DIMM voltage	1.5V
Support DIMM package	204-pin DDR III-800/1066 SO-DIMM
Cache	6MB L2 on CPU
VGA Memory	512 MB with optional adjustable 128MB UMA VGA memory share from North Bridge
Memory module combinations	You can install memory modules in any combination 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
4096MB	4096MB	8192MB

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	Seagate ST9250827AS	Seagate ST9320320AS ST9160310AS	Seagate ST9500325AS	Toshiba MK3252GSX MK2552GSX MK1652GSX	WD WD5000BEVT WD3200BEVT WD2500BEVT WD1600BEVT
Capacity (MB)	250	320, 160	500	320, 250, 160	500, 320, 250, 160
Bytes per sector	512	512	512	512	512
Data heads	4	4, 2	4	4, 4, 2	4, 3, 2, 2
Drive Format					
Disks	2	2 or 1, 1	2	2, 2, 1	2, 2, 1, 1
Spindle speed (RPM)	5400	5400	5400	5400	5400
Performance Specifications					
Buffer size	8 MB	8 MB	8 MB	8 MB	8 MB
Interface	SATA	SATA	SATA	SATA	SATA
Internal transfer rate (Mbits/sec, max)	778	352	1,175	400 ~ 794 typical	106 Mbits/s maximum
I/O data transfer rate (Mbytes/sec max)	300	150	300	300	300 maximum
DC Power Requirements					
Voltage	5V ±5%	5V ±5%	5V ±5%	5V ±5%	5V ±5%

Super-Multi Combo Module

Item	Specification	
Vendor & model name	Philips DS-8A2S, Toshiba Digi/TS-L633A	
Performance Specification	With CD Diskette	With DVD Diskette
Transfer rate (MB/sec)	Sustained: Max 3.5 Mbytes/sec	Sustained: Max 10 Mbytes/sec
Buffer Memory	2MB	
Interface	SATA	
Applicable disc format	Applicable media types: Writing: Confirms to DVD+R Version 1.2 and DVD+RW Version 1.3 / DVD+R DL Version 1.0 /DVD-R Version 2.0 / DVD-RW Version 1.2 / DVD-R DL Version 3.0. Reading: DVD single/dual layer (PTP, OTP), DVD-R single/dual layer DVD+R single/double layer DVD-RW DVD+RW CD-DA CD-ROM CD-ROM/XA Photo-CD, Multi-session, Video CD CD-I FMV, CD Extra, CD Plus, CD-R, and CD-RW	
Loading mechanism	Drawer (Solenoid Open) Tact SW (Open) Emergency Release (draw open hole)	
Power Requirement		
Input Voltage	DC 5 V +/- 5%	

Super-Multi Combo Module (continued)

Item	Specification			
Vendor & model name	HLDS GT10N		Sony AD7580S	
Performance Specification	With CD Diskette	With DVD Diskette	With CD Diskette	With DVD Diskette
Transfer rate (MB/sec)	Sustained: 3,600 KB/s (24x) max.	Sustained: 11.08 Mbytes/s (8x) max.	Sustained: 1,571 (typical)	Sustained: 10,993 (typical)
Buffer Memory	2 MB			
Interface	SATA			
Applicable disc formats	- DVD-ROM: 4.7GB (Single Layer) 8.5GB (Dual Layer) - DVD-R: 3.95GB (Ver. 1.0: read only) 4.7GB (Ver. 2.0 for Authoring: read only) 4.7GB (Ver. 2.1 for General: read & write) (DL) 8.5GB (Ver. 3.0) - DVD-RW: 4.7GB (Ver. 1.2/ Rev 1.0, 2.0, 3.0) - DVD-RAM: 1.46GB/side, 4.7GB/side (Ver. 2.2) - DVD+R: 4.7GB (Ver. 1.3) (DL) 8.5GB (Ver. 1.1) - DVD+RW: 4.7GB (Vol.1 Ver.1.3) - CD-ROM Mode-1 data disc - CD-ROM Mode-2 data disc - CD-ROM XA, CD-I, Photo-CD Multi-Session, Video CD - CD-Audio Disc - Mixed mode CD-ROM disc (data and audio) - CD-Extra - CD-Text - CD-R (Conforming to "Orange Book Part 2": read & write) - CD-RW (Conforming to "Orange Book Part 3": read & write)		DVD Read: DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD-Video, DVD-Audio, SACD (Hybrid), UDF DVD, DVD-R, DVD-R DL, DVD-R 3.95 GB, DVD-R Authoring, DVD-R Multi-Border, DVD-RW, DVD+R, DVD+R DL, DVD+R Multi-Session, DVD+RW, DVD-RAM V1.0, DVDRAM V2.0 & 2.1 &2.2. CD Read: CD-DA, CD-ROM Mode-1, CD-ROM/XA Mode-2 Form-1 and Mode-2 Form-2, CD-i, CD-i Bridge, Video-CD (MPEG-1), Karaoke CD, Photo-CD, Enhanced CD, CD Plus, CD Extra, itrax CD, CD-Text, UDF CD, CD-R, and CD-RW DVD Write: DVD Data & Video CD Read: CD-DA, CD-ROM Mode-1, CD-ROM/XA Mode-2 Form-1 and Mode-2 Form-2, CD-i, Video-CD, CD-Text	
Loading mechanism	Drawer (Solenoid Open) Tact SW (Open) Emergency Release (draw open hole)			
Power Requirement				
Input Voltage	DC 5 V +/- 5%			

Blueray Combo Drive

Item	Specification
Manufacturer and Model	Sony NEC Optiarc BC-5500S-AR
Type	Drawer loading
Interface	SATA
Data Transfer Modes	• PIO mode • DMA • Ultra DMA33
Buffer Memory Size	4.5 MB
Maximum Write Speed	11 Mbytes/sec
Maximum Read Speed	9 Mbytes/sec
Formats Supported	Read • BD-Video (12cm, Single and Dual Layer), BD-ROM (12cm, Single and Dual Layer) • DVD-Video (8cm/12cm, Single and Dual Layer), DVD-ROM (8cm/12cm, Single and Dual Layer), Multi-Boarder, Multi-Session CD Write • CD-R Media (48x/40x/32x/24x/16x/8x) Mitsubishi (Verbatim), Taiyo-Yuden, Mitsui, Ricoh, Fuji film, Sony, Hitachi Maxell, Memorex, RITEK, CMC, P.V.C, JVC, SKC, ACER, Prime Disc, TDK • CD-RW Media (10x/4x) Ricoh, Mitsubishi (Verbatim), ACER, OPTROM, Memorex, P.V.C, RITEK, CMC, LEADDATA, GigaStorage, Prodisc, Fornex, Samsung, Philips DVD Write • DVD+R Media (16x/8x/4x/2.4x) Taiyo-Yuden, Mitsubishi (Verbatim), Ricoh, TDK • DVD+R Double Layer Media (8x/2.4x) Mitsubishi (Verbatim) • DVD+RW Media (8x/4x/2.4x) Mitsubishi (Verbatim), Ricoh, TDK • DVD-R Media (16x/8x/4x/2x) Mitsubishi (Verbatim), TDK, Taiyo-Yuden, PVC, Fuji Film, Ritek • DVD-R DL Media (8x/4x) Mitsubishi (Verbatim) • DVD-RW Media (6x/4x/2x/1x) JVC, PVC, Mitsubishi (Verbatim), TDK • DVD-RAM Ver2.2 Media (5x/3x/2x) Panasonic, Hitachi Maxell
Power Supply	+5V (DC)
Voltage Allowance	+5V (DC) ±5%

LCD 14"

Item	Specification			
Vendor/model name	• 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) Operating Storage (shipping)	 0 to 50°C -20 to 60°C			

VGA Graphic Controller

Item	Specification
Type	Intel built in VGA chip (Aspire 4740)
	Nvidia (Aspire 4740G)
Processor Cores	128
Graphics Clock	1836 MHz
Texture Fill Rate	47.2 (billion/sec)
Memory Interface Width	256-bit
Memory Bandwidth	64 (GB/sec)
Maximum VGA Resolution	2048x1536

Keyboard

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

Media Card Reader

Item	Specification
Type	Realtek RTS5159

Item	Specification
Features	• Compliant with Universal Serial Bus Specification Revision 2.0
	• Compliant with USB Mass Storage Class Bulk only Transport Specification Rev. 1.0
	• Support High-speed (480Mbps) and Full-speed (12Mbps) Data Transfer
	• USB bus power operation
	• Support Control, Bulk IN / OUT data pipes
	• Support the following memory card interfaces:
	• Secure Digital TM (SD), MultiMediaCard TM (MMC), Mini-SD, Micro-SD (T-flash), RS-MMC,
	• Mobile-MMC and MMC-micro
	• Memory Stick TM (MS), Memory Stick PROTM (MS-PRO), MS Duo, MS-PRO Duo and Micro-MS (M2)
	• MSPRO-HG Duo 8-bit mode
	• xD-Picture Card TM (xD) including Type M and Type H
	• Support hardware ECC (Error Correction Code) function
	• Support hardware CRC (Cyclic Redundancy Check) function
	• Programmable clock rate for flash memory card interfaces
	• Support MS-PRO v1.02
	• Support MS v1.43
	• Support MS PRO-HG Duo v1.01
	• Support SD version 2.0
	• Support MMC version 4.2
	• Support xD v1.2
	• Integrated Fast 8051 microprocessor
	• External serial EEPROM interface
	• 12MHz crystal oscillator with integrated PLL
	• Support 48Mhz directly input from clock generator
	• On chip 3.3V to 1.8V regulator
	• On chip MOSFET with 250mA capability for direct power control of all types memory cards
	• Support Spread Spectrum Clock for SD/MMC and MS/MSPRO/HG to reduce EMI effect
	• Support USB remote wake-up ability with memory card inserted and removal operation
	• Automatically controls USB online / offline to reduce power consumption
	• 48-pin LQFP package

Audio Interface

Item	Specification
Audio Controller	REALTEK ALC888S-VC
Audio onboard or option	Onboard
Mono or Stereo	Stereo
Internal Microphone	AC-coupled input,100mV_{P-P} maximum
Internal speaker/ Quantity	2 * 4 Ohm 2W Main Speakers

LAN

Item	Specification
Type	Broadcom BCM57780A1KMLG for Giga LAN
Features	• Integrated 10/100/10000BASE-T transceiver
	• Automatic MDI crossover function
	• PCIe V1.1 compliant
	• 10/100/10000BASE-T full -duplex/half -duplex MAC
	• Receive side scaling(RSS) for multicore processors
	• Complies with IEEE 802.3, 802.3u, 802.3ab, and 802.1p
	• Wake on LAN (WOL) support meeting the ACPI requirements
	• Statistics for SNMP MIB II, Ethernet-like MIB, and Ethernet MIB (IEEE 802.3z, Clause 30)
	• Self-boot feature, utilizing smaller EEPROM size with ability to use on-chip memory
	• Supports iSCSI boott
	• PCI Express CLKREQ support
	• Integrated switching regulator for improved power consumption
	• IPv4 and IPv6 large send offload and checksum offload(LSO/TCO)

CIR

Item	Specification
Type	ENE KB926
Features	• Several protocols decoded/encoded by hardware.
	• Interrupt for CIR application.
	• Support wide/narrow band receiver.
	• Transmit/Receive simultaneously.
	• Remote power-on support.

Finger Print Reader

Item	Specification
Type	AES1610
Detection	128 x 8 pixels @ 500 ppi
Package	• 40 Ball Grid Array (BGA)
	• 12mm x 5 mm

Battery

Item	Specifications (3S2P)
Vendor & model name	• 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, Power, 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.

```
                    InsydeH20 Setup Utility                    Rev. 3.5
 Information    Main    Security   Boot   Exit


   CPU Type:                Intel(R) Core(TM) i7  CPU  M620    @ 2.67GHz
   CPU Speed:               2.67GHz

   HDD Model Name:          Hitachi HTS545050B9A300
   HDD Serial Number:       090730PB4400Q7HJ00LJG
   ATAPI Model Name:        TSSTcorp CDDVDW TSL633C

   System BIOS Version:     V0.09T6
   KBC BIOS Version:        V0.09
   VGA BIOS Version:        Intel V1869
   Serial Number:           123456789
   Asset Tag Number:
   Product Name:            Aspire 4740/4740G
   Manufacturer Name:       Acer
   UUID:                    B044702E41CE67BEE6C68002622668350



 F1  Help      ↑↓  Select  Item     F5/F6  Change  Values      F9   Setup  Default
 ESC Exit      ←→  Select  Menu     Enter  Select ► SubMenu     F10  Save  and  Exit
```

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 displays the model name of the installed ODD drive.
System BIOS Version	Displays system BIOS version.
KBC BIOS Version	This field displays the KBC 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.

```
                   InsydeH20 Setup Utility                    Rev. 3.5
    Information    Main    Security   Boot   Exit

                                                    Item  Specific  Help

    System Time:           [21:32:55]
    System Date:           [09/18/2009]
                                            This is the help for the
                                            hour field. Valid range
    Total Memory:          4096 MB          is from 0 to 23. REDUCE
    Video Memory:          [64 MB]          /INCREASE: F5/F6

    Quick Boot             [Enabled]
    Network Boot           [Enabled]
    F12 Boot Menu          [Disabled]
    D2D Recovery           [Enabled]
    SATA Mode              [AHCI Mode]
    Display Mode           [Hybrid]




    F1   Help    ↑↓ Select  Item   F5/F6  Change  Values   F9    Setup  Default
    ESC Exit     ↔  Select  Menu   Enter  Select ► SubMenu  F10   Save  and  Exit
```
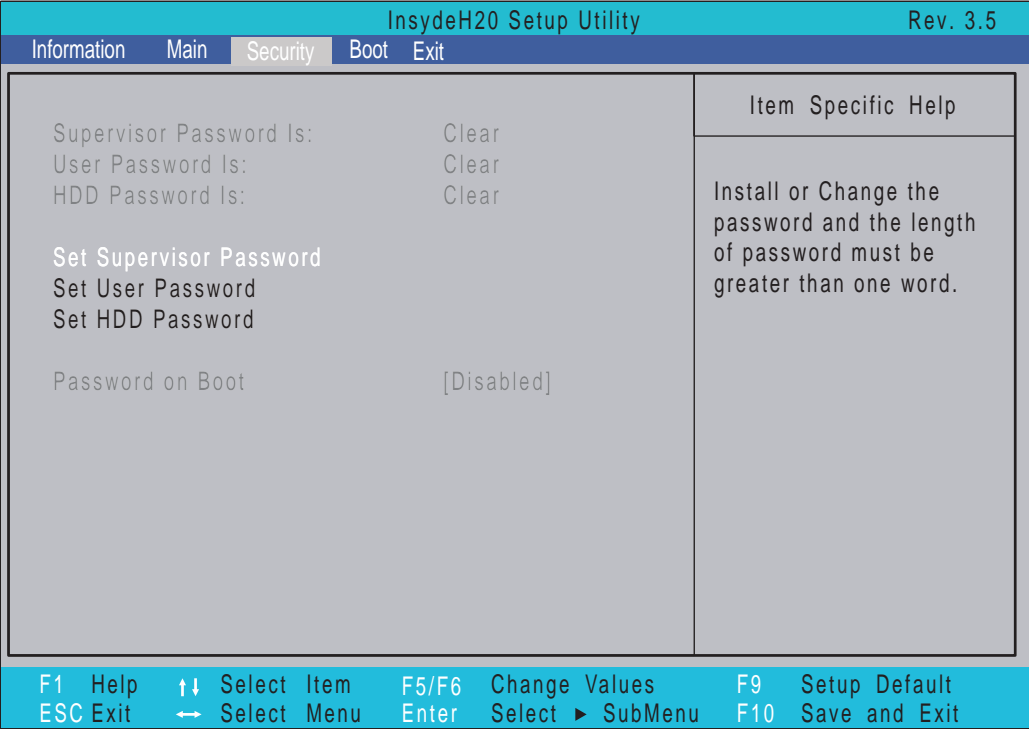
NOTE: The screen above is for your reference only. Actual values may differ.

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

Parameter	Description	Format/Option
System Time	Sets the system time. The hours are displayed with 24-hour format.	Format: HH:MM:SS (hour:minute:second)
System Date	Sets the system date.	Format MM/DD/YYYY (month/day/year)
Total Memory	This field reports the memory size of the system. Memory size is fixed to 3017 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 Enabled
D2D Recovery	Enables, disables D2D Recovery function. The function allows the user to create a hidden partition on hard disc drive to store operation system and restore the system to factory defaults.	Option: **Enabled** or Disabled
SATA Mode	Control the mode in which the SATA controller should operate.	Option: **AHCI** or IDE
Display Mode	Sets the display mode.	**Hybrid**

Security

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

```
                        InsydeH20 Setup Utility                    Rev. 3.5
   Information    Main    Security    Boot   Exit
                                                   ┌─────────────────────┐
                                                   │   Item  Specific Help │
   Supervisor Password Is:         Clear           │                       │
   User Password Is:               Clear           │                       │
   HDD Password Is:                Clear           │ Install or Change the │
                                                   │ password and the length│
   Set Supervisor Password                         │ of password must be   │
   Set User Password                               │ greater than one word.│
   Set HDD Password                                │                       │
                                                   │                       │
   Password on Boot                [Disabled]      │                       │
                                                   │                       │
                                                   │                       │
                                                   │                       │


  F1  Help      ↑↓  Select  Item    F5/F6  Change  Values    F9   Setup  Default
  ESC Exit      ↔   Select  Menu    Enter  Select ► SubMenu   F10  Save  and  Exit
```

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

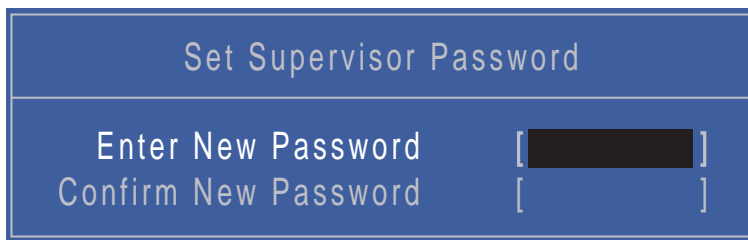| Parameter	Description	Option
Supervisor Password Is	Shows the setting of the Supervisor password	**Clear** or Set
User Password Is	Shows the setting of the user password.	**Clear** or Set
HDD Password Is	Shows the setting of the hard disk password.	Clear, Set, or **Frozen**
Set Supervisor Password	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 does not have right to change the value of 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:

```
        Set Supervisor Password

   Enter New Password      [          ]
   Confirm New Password    [          ]
```

2. Type a password in the "Enter New Password" field. The password length can not exceeds 8 alphanumeric characters (A-Z, a-z, 0-9, not case sensitive). Retype the password in the "Confirm New Password" field.
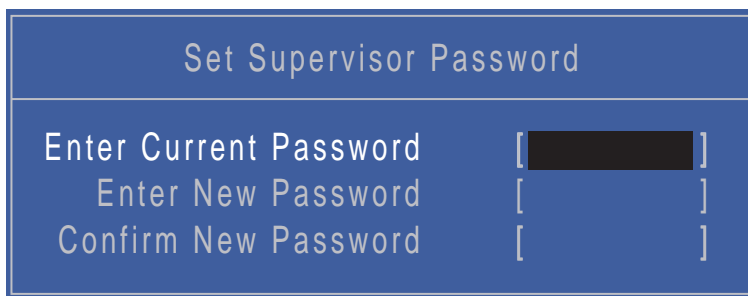
   IMPORTANT: Be very careful when typing your password because the characters do not appear on the screen.

3. Press **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:
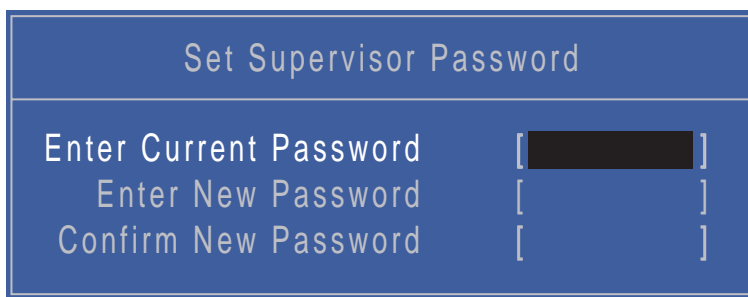
```
         Set Supervisor Password

   Enter Current Password   [          ]
   Enter New Password       [          ]
   Confirm New Password     [          ]
```

2. Type the current password in the Enter Current Password field and press **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.
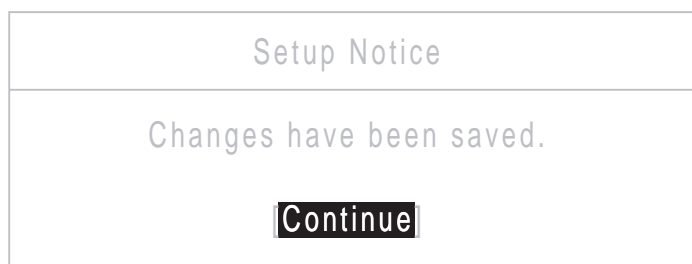
```
┌─────────────────────────────────────────────┐
│         Set Supervisor Password             │
├─────────────────────────────────────────────┤
│                                             │
│  Enter Current Password      [███████]      │
│    Enter New Password        [       ]      │
│  Confirm New Password        [       ]      │
│                                             │
└─────────────────────────────────────────────┘
```

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

```
┌─────────────────────────────────────────────┐
│              Setup Notice                   │
├─────────────────────────────────────────────┤
│                                             │
│        Changes have been saved.             │
│                                             │
│               Continue                      │
│                                             │
└─────────────────────────────────────────────┘
```

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.

```
┌─────────────────────────────────────────────┐
│              Setup Warning                  │
├─────────────────────────────────────────────┤
│                                             │
│             Invalid Password.               │
│                                             │
│               Continue                      │
│                                             │
└─────────────────────────────────────────────┘
```

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

```
┌─────────────────────────────────────────────┐
│              Setup Warning                  │
├─────────────────────────────────────────────┤
│                                             │
│          Passwords do not match.            │
│           Re-enter password.                │
│               Continue                      │
└─────────────────────────────────────────────┘
```

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.

InsydeH20 Setup Utility	Rev. 3.5

Information	Main	Security	Boot	Exit

Boot priority order:

1. Network Boot : LEGACY PCI DEVICE
2. USB FDD :
3. IDE0 : Hitachi HT S545050B9A300
4. USB HDD :
5. USB CDROM:
6. IDE1 : TSSTcorp CDDVDW TS-L633C

Item Specific Help

Use <↑> or <↓> to select a device, then press <F5> to move it down the list, or <F6> to move it up the list. Press <Esc> to escape the menu

F1	Help	↑↓	Select Item	F5/F6	Change Values	F9	Setup Default
ESC	Exit	←→	Select Menu	Enter	Select ► SubMenu	F10	Save and Exit

Exit

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

InsydeH20 Setup Utility	Rev. 3.5

Information   Main   Security   Boot   Exit

```
                                                    Item Specific Help

   Exit Saving Changes
   Exit Discarding Changes
   Load Setup Defaults                   Exit System Setup and
   Discard Changes                       save your changes to
   Save Changes                          CMOS.
```

```
  F1   Help     ↑↓  Select  Item    F5/F6   Change  Values      F9    Setup  Default
  ESC Exit      ↔   Select  Menu    Enter   Select ► SubMenu    F10   Save  and  Exit
```
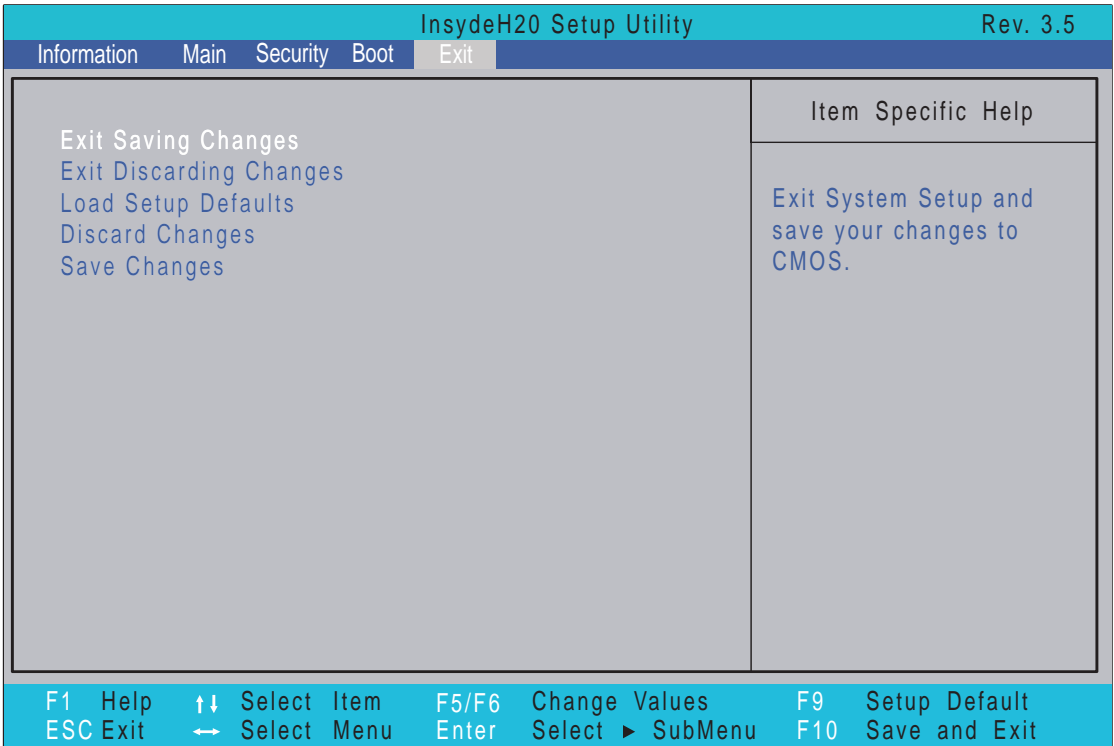
The table below describes the parameters in this screen.

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

BIOS Flash Utility

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

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

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

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

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

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

Fellow the steps below to run the Phlash.

1. Prepare a bootable diskette.

2. Copy the flash utilities to the bootable diskette.

3. Then boot the system from the bootable diskette. The flash utility has auto-execution function.

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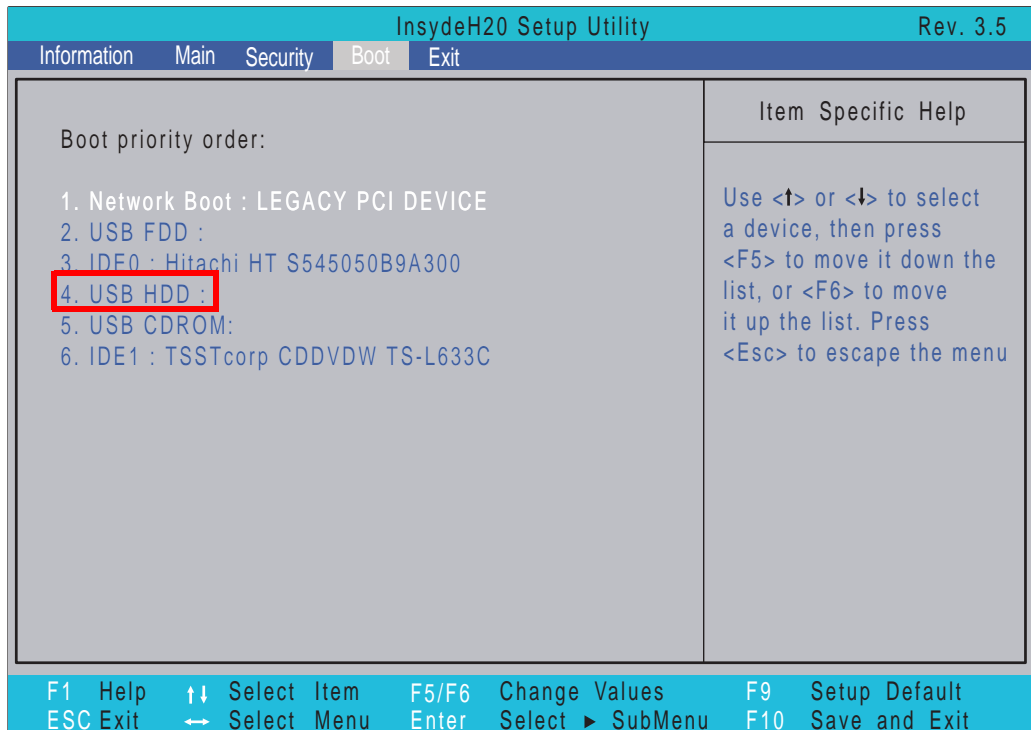
3. Execute the **FLASH.BAT** batch file to update BIOS.

The flash process begins as shown.

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.

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

WinFlash Utility

Perform the following steps to use the WinFlash Utility:

1. Double click the WinFlash executable.

2. Click **OK** to begin the update. A progress screen displays.

3. When the process is complete, close all programs and applications and reboot the system.

Remove HDD/BIOS Password Utilities
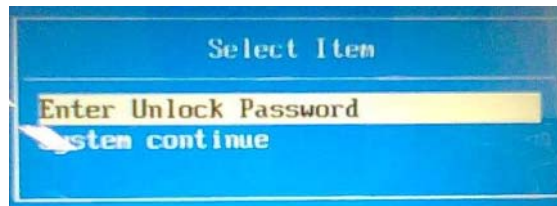
This section provide you with removing HDD/BIOS method:

Remove HDD Password:

When the user keys in the wrong password three times, the system reports the following error code to user.
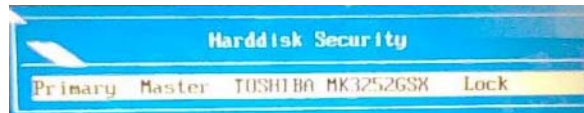
To unlock the HDD password, perform the following steps:

1. Press **Enter** to display the Select Item screen.

2. Select **Enter Unlock Password** and press **Enter**.

An Unlock Password displays.

3. Make a note of the key, **76943488** in the example.

4. Boot up the system to a removable bootable drive containing DOS and the UnlockHD.EXE program and open a DOS prompt. For instructions on changing boot priority see "Boot" on page 35.

5. Enter the **UnlockHD.EXE** command and input the key to create an unlock code. Make a note of the result, for example **46548274**.

6. Reboot and enter the BIOS by pressing F2 when prompted.

7. Go to the Security menu and select Set Hdd Password.

8. Enter the unlock code generated by UnlockHD.EXE as the current password, **46548274** in the example, and complete the **New Password** and **Confirm** fields to create a new HDD password.

9. Save and exit the BIOS to complete the process.

Removing BIOS Passwords:

If you key in the wrong Supervisor Password three times, System Disabled displays on the screen. See the image below.
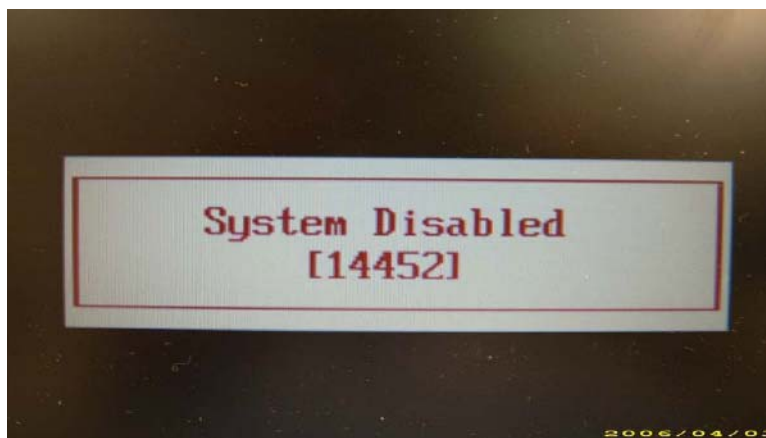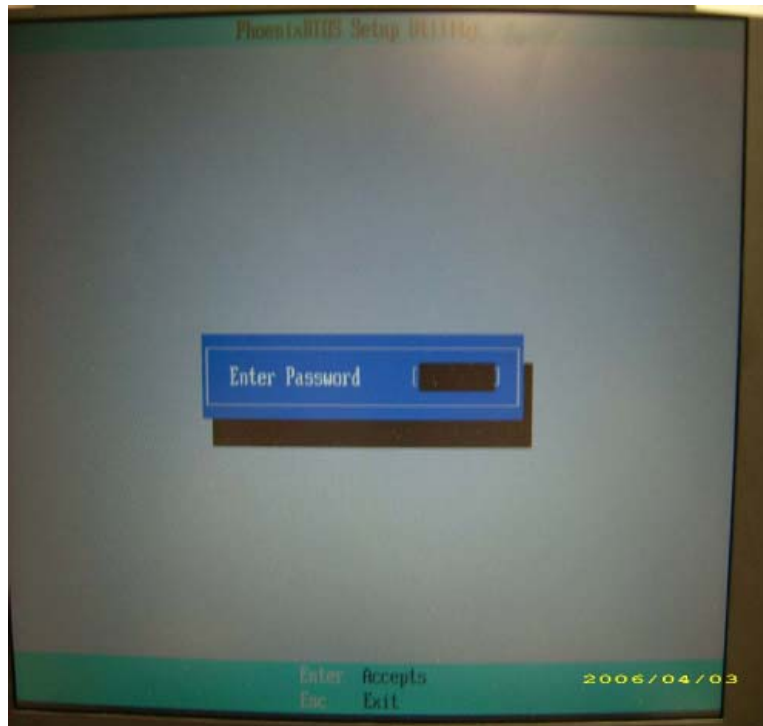

To reset the BIOS password, run BIOS_PW.EXE as follows:

1. Key in **bios_pw 14452 0**

2. Select one string from the list.

3. Reboot the system and key in the selected string (qjjg9vy, 07yqmjd etc.) for the BIOS user password.

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 Selecter 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.exe**. 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): eMachines 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 Acer

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

Machine Disassembly and Replacement

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

Disassembly Requirements

To disassemble the computer, you need the following tools:

- Wrist grounding strap and conductive mat for preventing electrostatic discharge
- Flat screwdriver
- Philips screwdriver
- Plastic flat screwdriver
- Plastic tweezers
- Thin metal pin for ejecting the ODD tray

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.
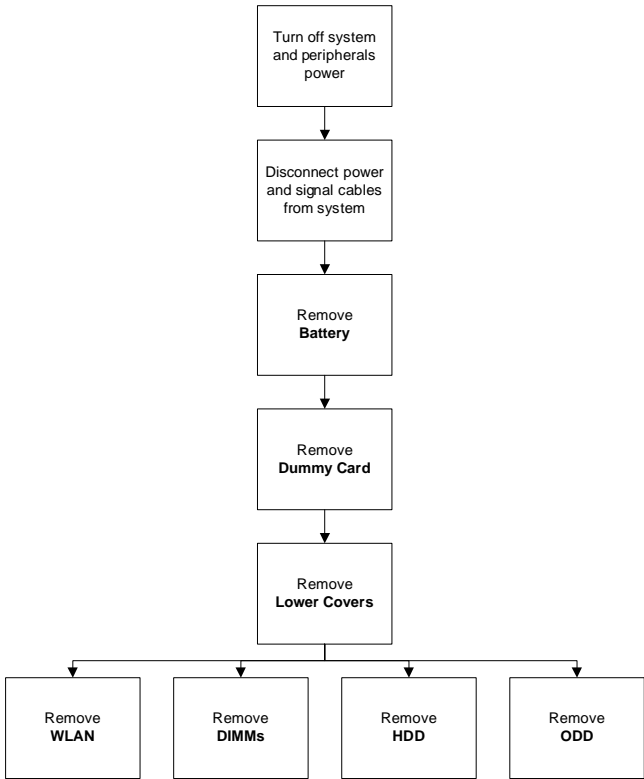
Main Screw List

Description	Quantity	Acer P/N
M2*3 ZK NL+	18	86.PAA02.001
M2.5*3 XK NL+	12	86.PAA02.002
M2.5*5 ZK NL+ CR3+	12	86.PAA02.003
M2.5*10 ZK NL+	12	86.PAA02.004
M2.5*4 ZK	5	86.PAA02.005
M3*3 NI+	4	86.PAA02.006
M2.5*3.2 NI+	4	86.PAA02.007
M2.5*5 NI NL+	8	86.PAA02.001

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.

```
┌─────────────────┐
│ Turn off system │
│ and peripherals │
│      power      │
└─────────────────┘
         │
         ▼
┌─────────────────┐
│ Disconnect power│
│ and signal cables│
│   from system   │
└─────────────────┘
         │
         ▼
┌─────────────────┐
│     Remove      │
│    Battery      │
└─────────────────┘
         │
         ▼
┌─────────────────┐
│     Remove      │
│   Dummy Card    │
└─────────────────┘
         │
         ▼
┌─────────────────┐
│     Remove      │
│  Lower Covers   │
└─────────────────┘
    │     │     │     │
    ▼     ▼     ▼     ▼
┌────────┐ ┌────────┐ ┌────────┐ ┌────────┐
│ Remove │ │ Remove │ │ Remove │ │ Remove │
│  WLAN  │ │ DIMMs  │ │  HDD   │ │  ODD   │
└────────┘ └────────┘ └────────┘ └────────┘
```

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 the computer over.
2. Slide the battery locking 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).
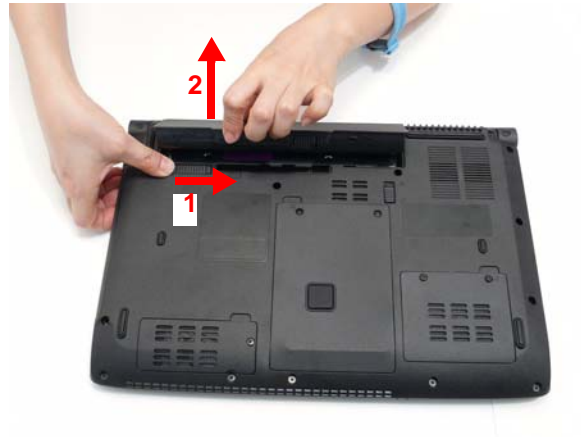
Removing the SD Dummy Card

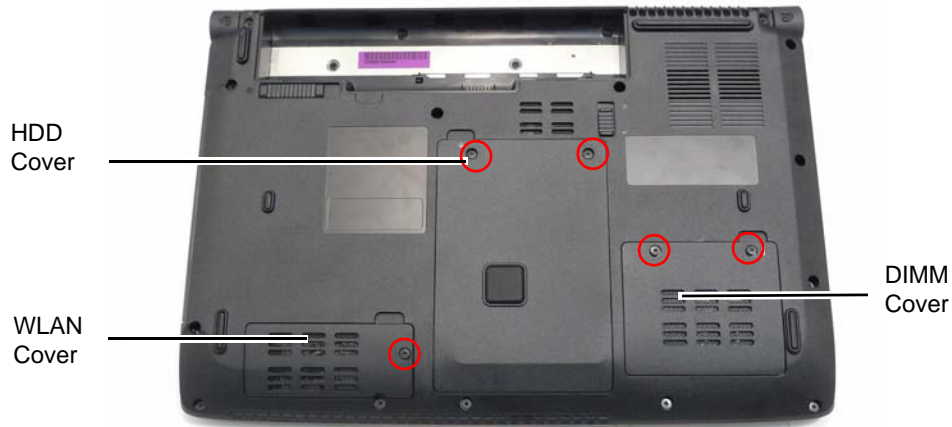**1.** Push the SD dummy card all the way in to eject it.

2. Pull the dummy card out from the slot.

Removing the Lower Covers

1. See "Removing the Battery Pack" on page 50.
2. Loosen the five (5) captive screws in the covers as shown.

HDD
Cover

WLAN
Cover

DIMM
Cover

3. Remove the DIMM Cover.

4. Remove the WLAN Cover as shown.

5. Carefully open the HDD Cover.

Removing the WLAN Module

1. See "Removing the Lower Covers" on page 52.
2. Disconnect the two (2) antenna cables as shown.

3. Remove the two (2) securing screws.

Step	Size	Quantity	Screw Type
WLAN Module	M2*3	2	

4. Pull the WLAN module out of the slot.

5. Remove two (2) screws from the WLAN bracket and lift it clear of the device.
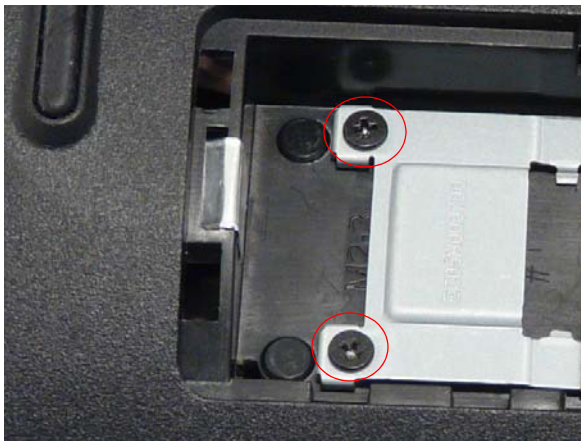
Removing the DIMM Modules

1. See "Removing the Lower Covers" on page 52.
2. Push out the release latches on both sides of the DIMM socket to release the DIMM module.
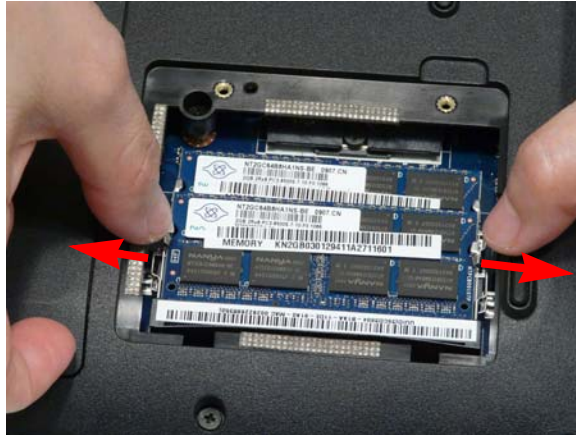
3. Remove the DIMM module.
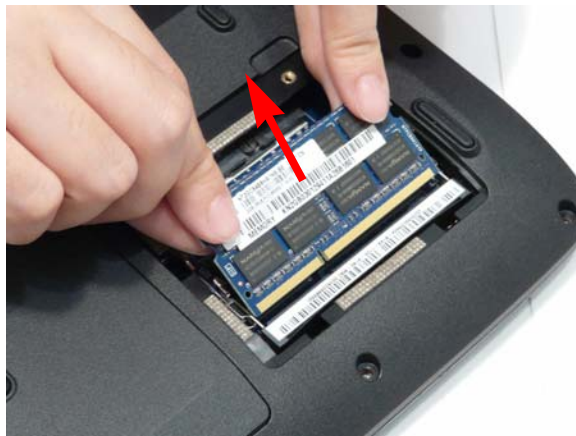
4. Repeat steps 2 and 3 for any remaining DIMM modules.

Removing the Hard Disk Drive Module

1. See "Removing the Lower Covers" on page 52.
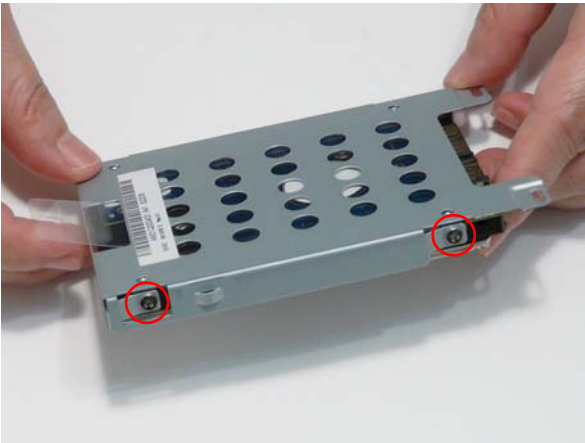2. Grasp the Pull Tab and slide the HDD away from the connector.
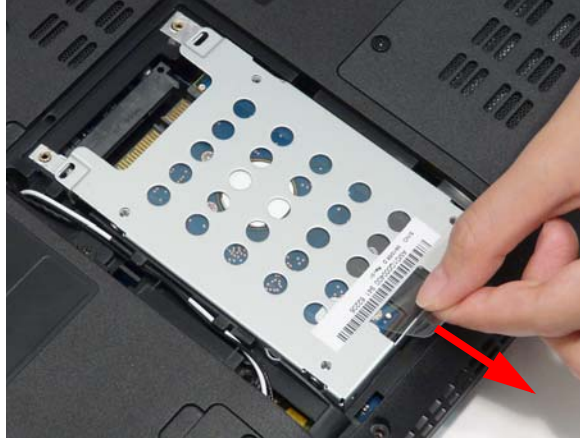
3. Pull the HDD up as shown to remove.

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

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

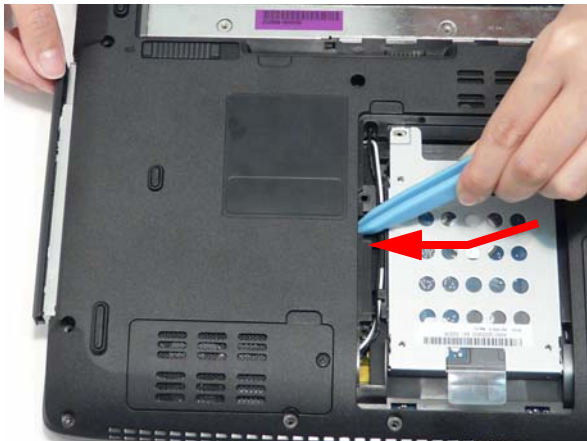| Step	Size	Quantity	Screw Type
HDD Carrier	M3*3	4	

5. Lift the HDD out to remove.

Removing the Optical Disk Drive Module

1. See "Removing the Lower Covers" on page 52.
2. Remove the screw securing the ODD module.

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

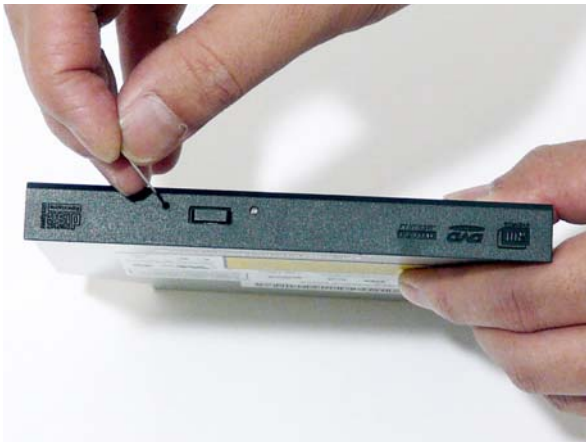3. Insert an implement to push the ODD Module out of the bay.

4. Remove the two (2) 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 manual eject hole of the ODD bezel to eject the ODD tray.

6. Press down on the locking latch to release and remove the ODD bezel.

Main Unit Disassembly Process

Main Unit Disassembly Flowchart

```
        Remove External
        Modules before
          proceeding
               │
          Remove
         Hinge Covers
               │
          Remove
         Switch Cover
               │
          Remove
          Keyboard
               │
      ┌────────┴────────┐
   Remove            Remove
 Function Board    Speaker Module
      └────────┬────────┘
          Remove
         LCD Module
               │
          Remove
         Upper Cover
    ┌──────────┼──────────┐
 Upper                  Lower
 Cover                  Cover
    │                      │
┌───┴───┐        ┌─────────┼─────────┐
Remove   Remove  Remove  Remove    Remove
Finger-  Media   USB     Modem     Bluetooth
print    Board   Board   Module    Module
Reader                 └────┬────┘
   │                     Remove
Remove                  Mainboard
TouchPad          ┌────────┴────────┐
Bracket        Remove            Remove
              RJ-11 Port       Thermal Module
                                     │
                                  Remove
                                   CPU
```

Screw List

Step	Screw	Quantity	Part No.
Hinge Covers	M2.5*5	2	86.PAA02.003
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	5	86.PAA02.003
Finger Print Reader	M2*3	1	86.PAA02.001

Step	Screw	Quantity	Part No.
TouchPad Bracket	M2*3	2	86.PAA02.001
USB Board	M2.5*3	1	86.PAA02.002
Modem Module	M2*3	2	86.PAA02.001
BT Module	M2.5*3	1	86.PAA02.002
Mainboard	M2.5*3	1	86.PAA02.002
Thermal Module	M2.5*3.2	4	86.PAA02.007
Media Board	M2.5*3	2	86.PAA02.002

Removing the Hinge Covers

1. See "Removing the Battery Pack" on page 50.
2. Remove the two (2) 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 tools to remove the Switch Cover may cause damage to the outer casing. It is recommended that only fingers are used to remove the Switch Cover.

1. See "Removing the Battery Pack" on page 50.
2. See "Removing the Hinge Covers" on page 63.
3. Locate and remove the six (6) securing screws on the bottom of the computer.
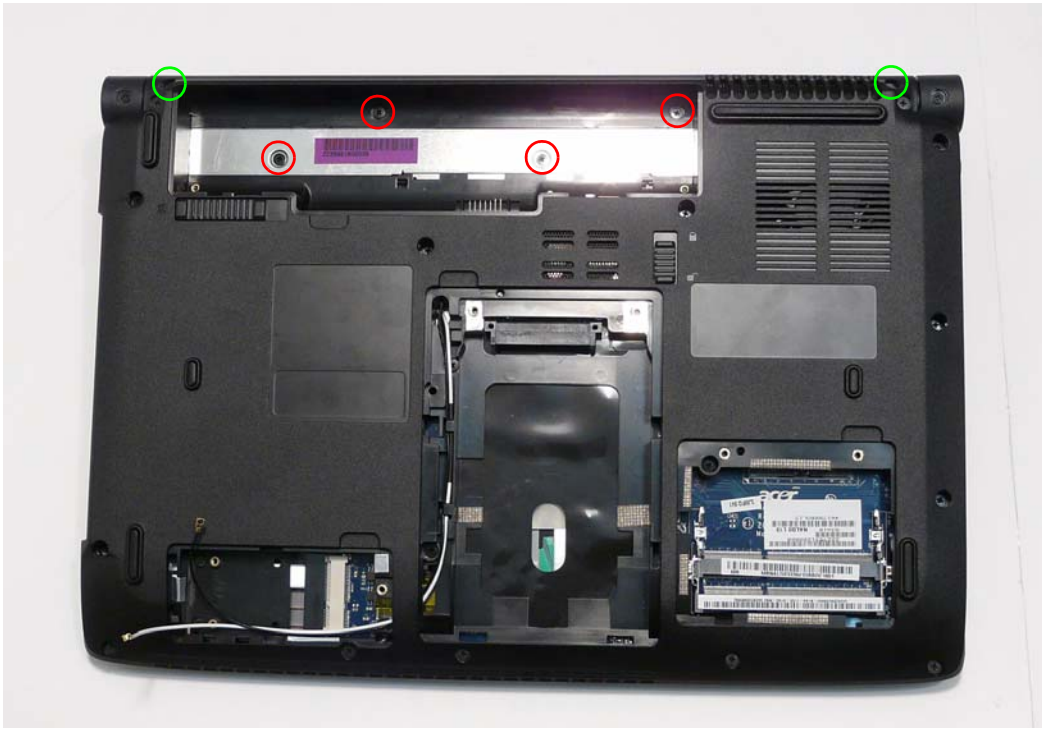
Step	Size	Quantity	Screw Type
Switch Cover (red callout)	M2.5*3	4	
Switch Cover (green callout)	M2.5*10	2	

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. Push the Switch Cover downward (1) and lift the leftside of the cover upward (2) to release the securing pins.
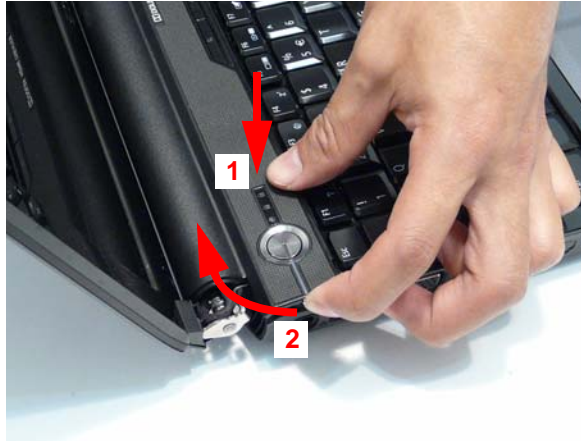
6. Lift the left side of the Switch Cover first and gently rotate it from left to right while lifting the right side clear of the casing.

7. Lift the Switch Cover clear of the chassis.

Removing the Keyboard

1. See "Removing the Switch Cover" on page 64.
2. Lift the keyboard from both sides to clear the securing tabs underneath.

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.
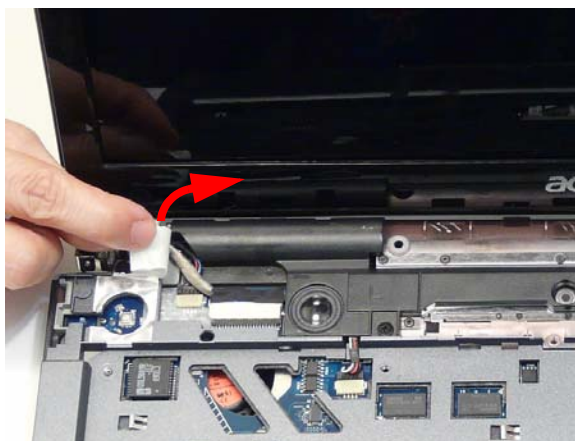

5. Remove the keyboard from the chassis.

Removing the Speaker Module

1. See "Removing the Keyboard" on page 66.
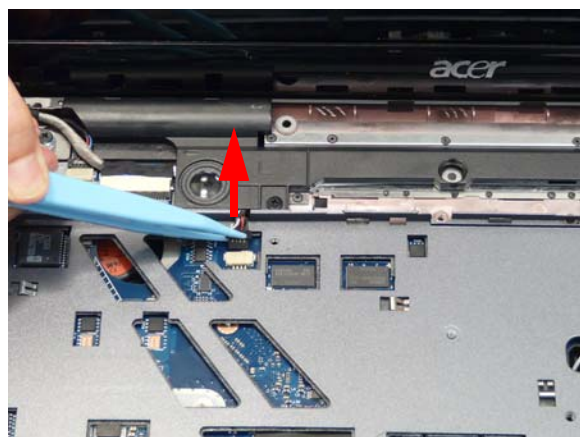2. Remove the two (2) securing screws from the Speaker Module.
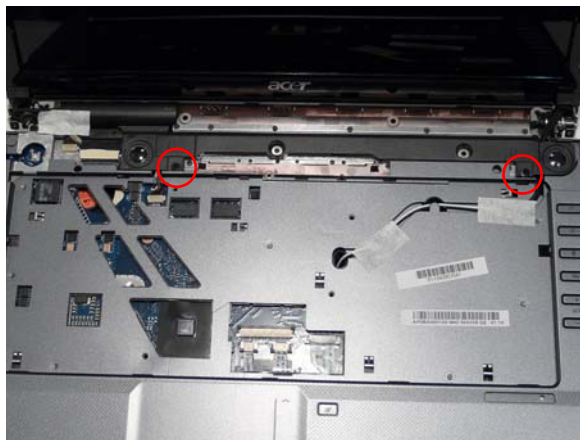
Step	Size	Quantity	Screw Type
Speaker Module	M2.5*3	2	

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

4. Disconnect the speaker cable as shown.

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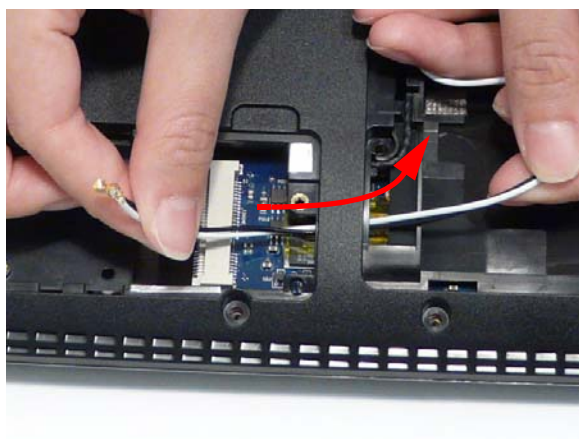
Removing the LCD Module

1. See "Removing the WLAN Module" on page 54.
2. See "Removing the Keyboard" on page 66.
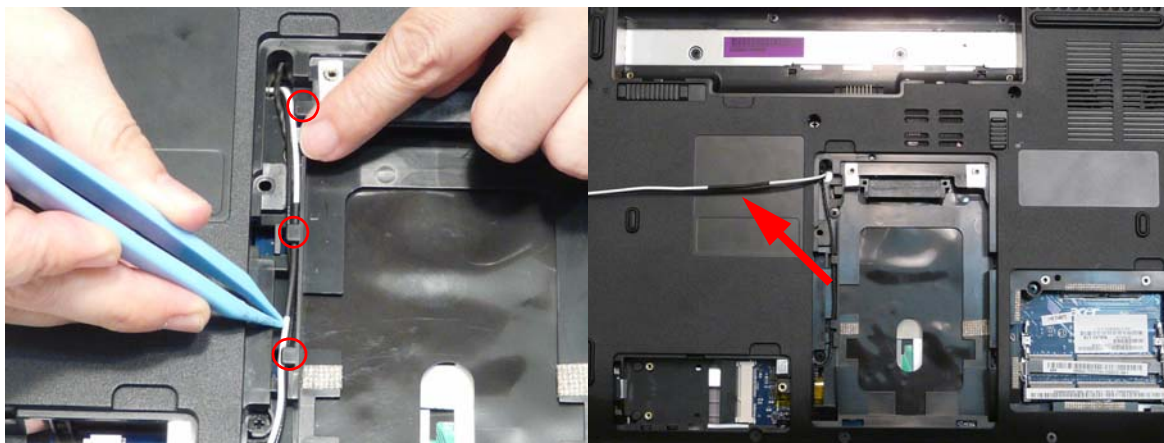3. Turn the computer over. Remove the two (2) securing screws as shown.

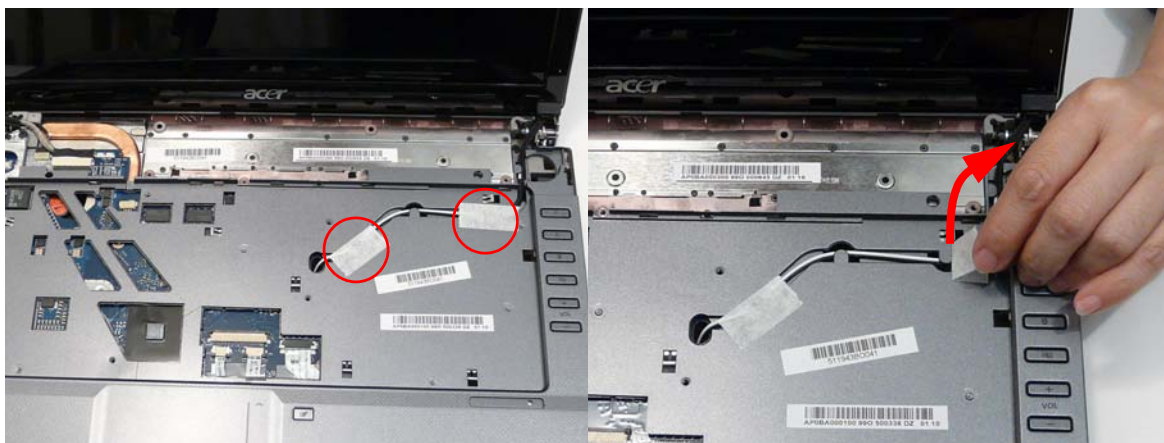| Step	Size	Quantity	Screw Type
LCD Module	M2.5*5	2	

4. Pull the Antenna cables through the casing.

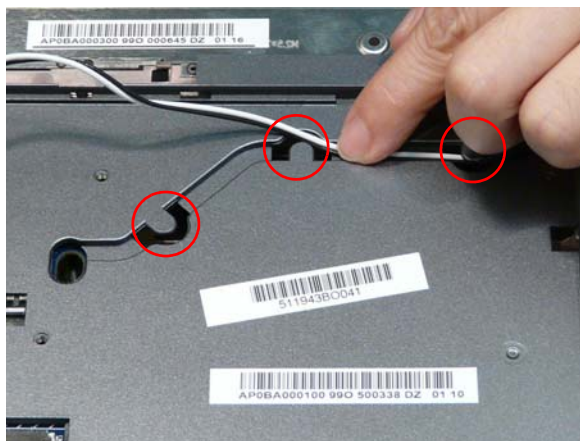**5.** Completely remove the Antenna cable from the cable channel.

6. Turn the computer over. Remove two (2) pieces of adhesive tape from the Antenna cables.
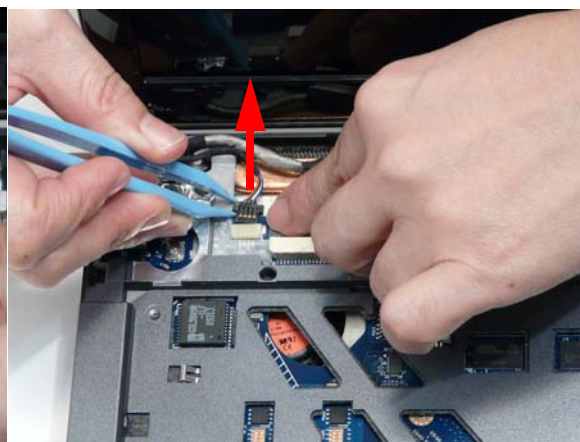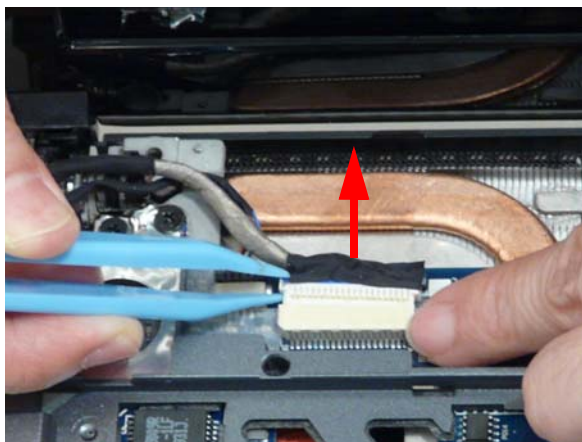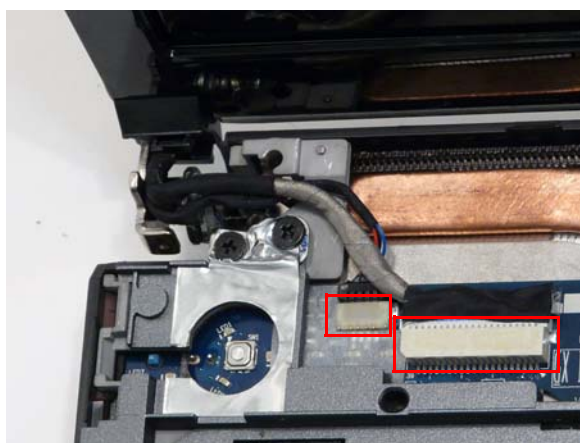

7. Rest the computer on the LCD Module and push the Antenna cable through the chassis as shown.

8. Completely remove the Antenna from the cable channel.

9. Disconnect the LCD cables from the Mainboard as shown.

10. Remove the two (2) securing screws from the left LCD hinge.
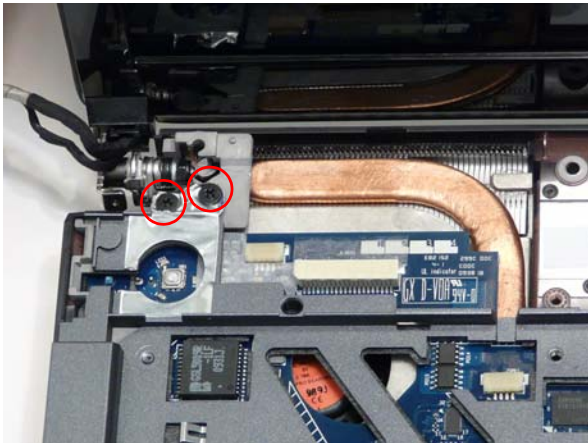
Step	Size	Quantity	Screw Type
LCD Module	M2.5*5	2	

11. Remove the two (2) securing screws from the right LCD hinge.
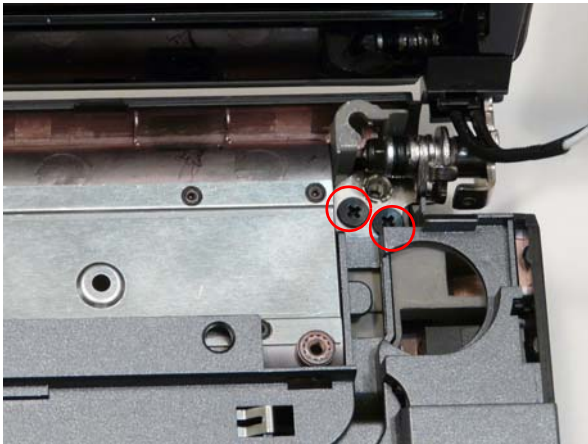
Step	Size	Quantity	Screw Type
LCD Module	M2.5*5	2	

12. Peel back the foil tab from the LCD Hinge as shown.
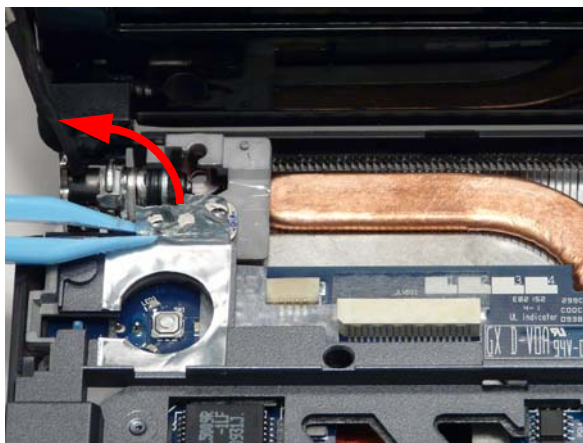
13. Carefully remove the LCD Module from the chassis.
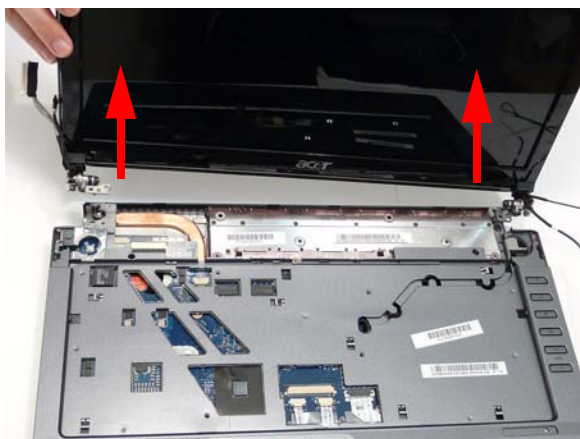
Removing the Upper Cover

1. See "Removing the LCD Module" on page 69.
2. Turn the computer over. Remove the fifteen screws on the bottom panel.
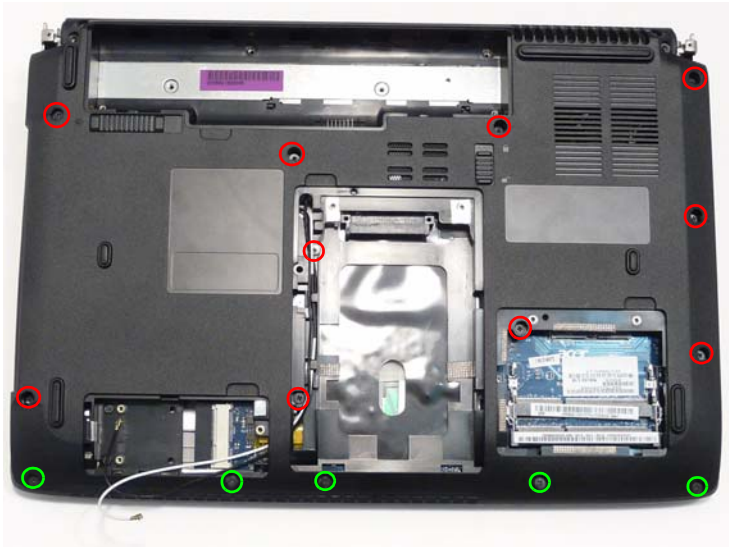
Step	Size	Quantity	Screw Type
Upper Cover (red call out)	M2.5*10	10	
Upper Cover (green callout)	M2.5*5	5	

3. Turn the computer over and disconnect the three (3) FFC cables from the mainboard.

A   B   C
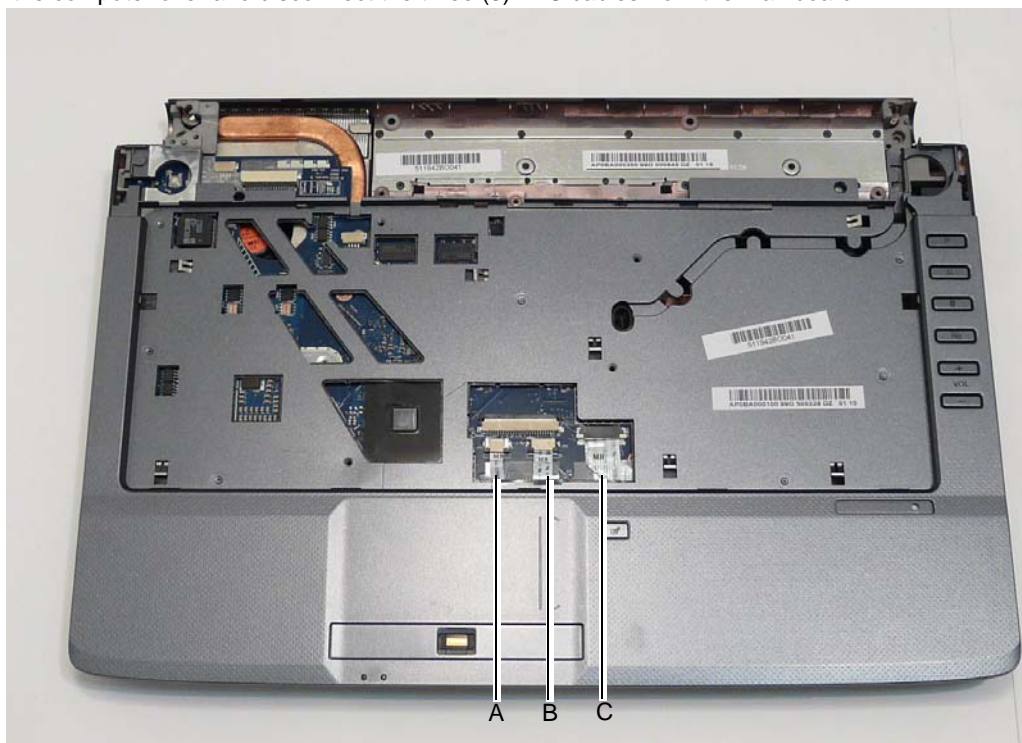
Unlock the connector and disconnect A as shown.   Unlock the connector and disconnect B as shown.
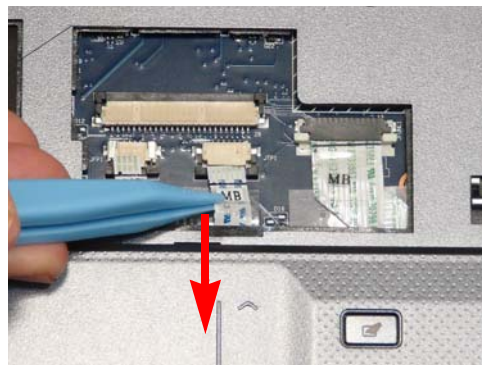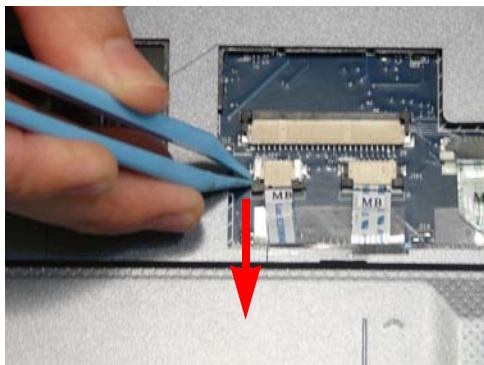
Unlock the connector and disconnect C as shown.

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

4. Pry apart the left side of the Lower Cover as shown, and lift the rear edge of the Upper Cover upward.

5. Ease the lower casing outward to clear the securing clips and pry apart the right side as shown. Lift the rear edge of the Upper Cover upward.

6. Completely remove the Upper Cover from the Lower Cover.
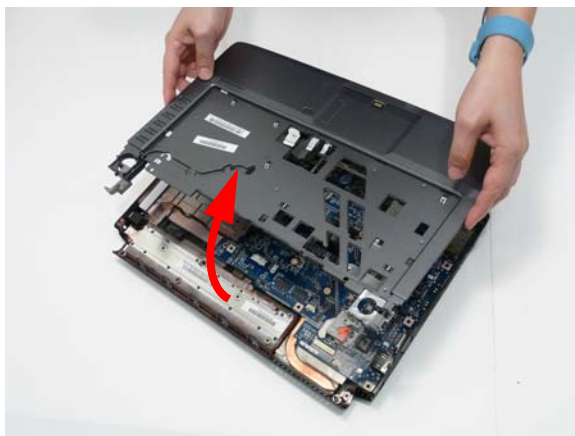
Removing the Finger Print Reader

NOTE: Only the Discrete SKU supports Finger Print Reader technology.

1. See "Removing the Upper Cover" on page 74.
2. Remove the one (1) securing screw on the bracket.
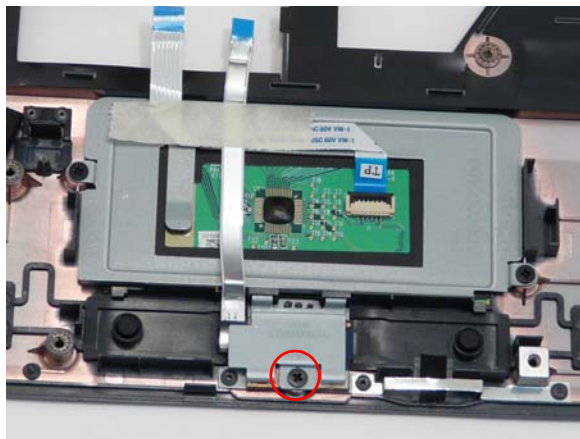
Step	Size	Quantity	Screw Type
Finger Print Reader	M2*3	1	

3. Remove the adhesive tape from the FFC cable as shown.
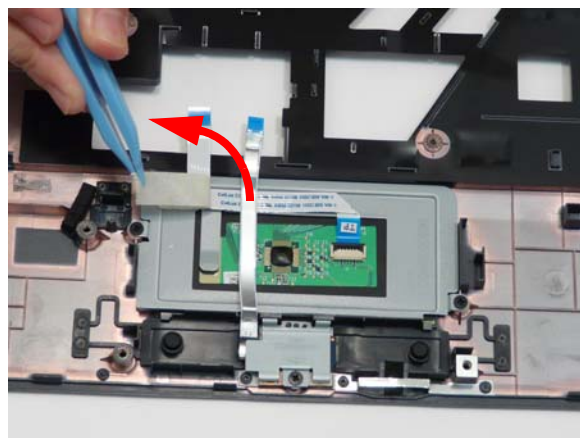
4. Remove the finger print bracket by angling the bracket upward as shown.
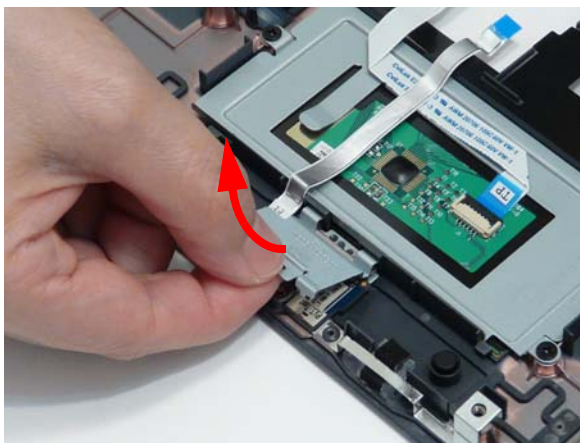
5. Detach the FFC from the Touchpad Bracket cable as shown.
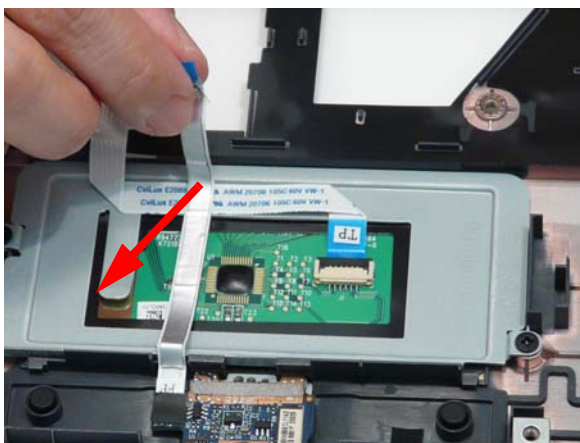
6. Remove the finger print board from the casing.
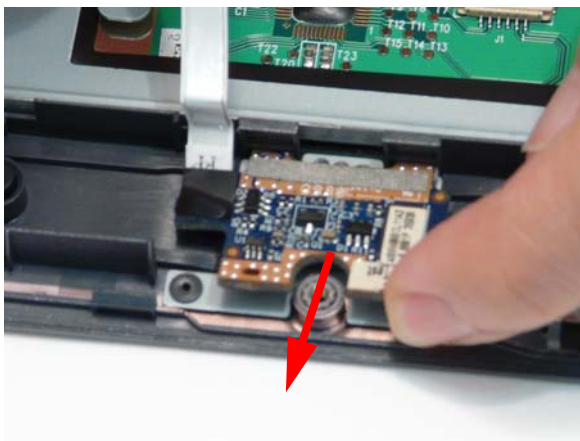
Removing the TouchPad Bracket

1. See "Removing the Upper Cover" on page 74.
2. Lift the FFC to disengage the adhesive.
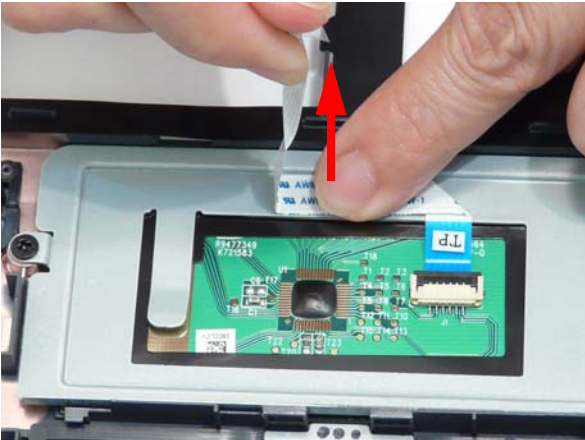
3. Open the FFC locking latch as shown and remove the FFC.
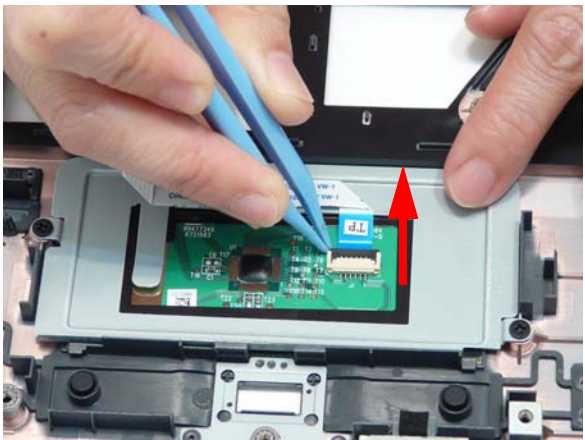
4. Remove the two (2) screws from the TouchPad Bracket.
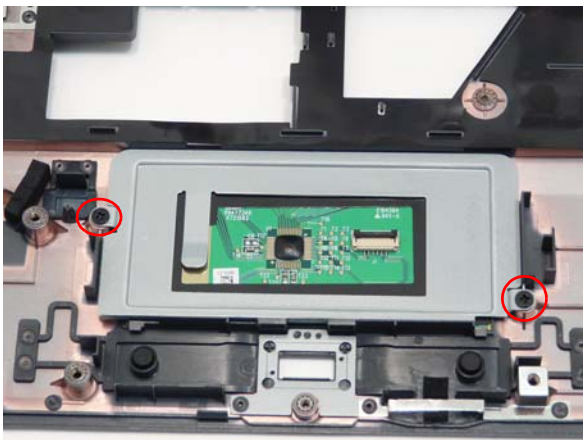
Step	Size	Quantity	Screw Type
TouchPad Bracket	M2*3	2	

5. Remove the TouchPad Bracket from the Upper Cover.
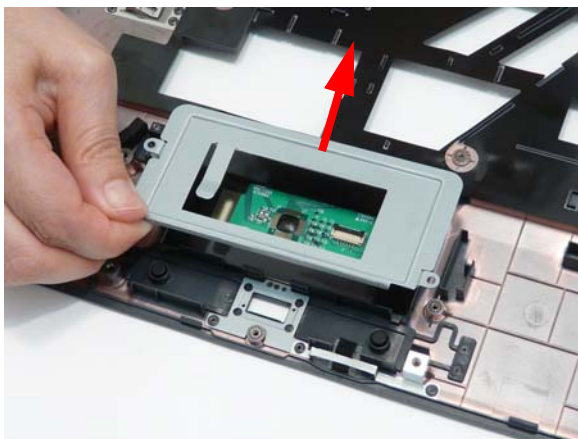
Removing the Media Board

WARNING: Care must be taken when removing the Media Board Cover from the Upper Cover to prevent damage or stress to the surface.

1. See "Removing the Upper Cover" on page 74.
2. Detach the media board FFC from the upper case.
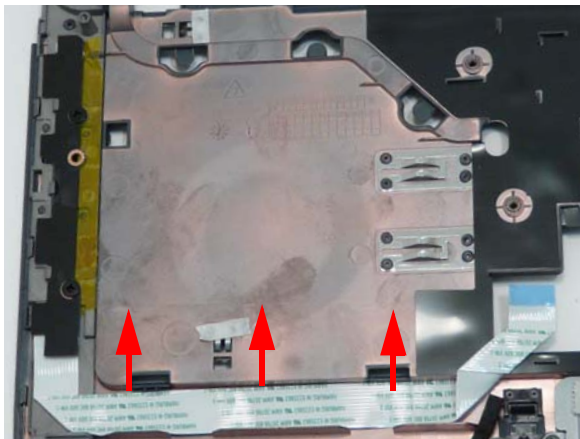
3. Remove the two (2) securing screws as shown.
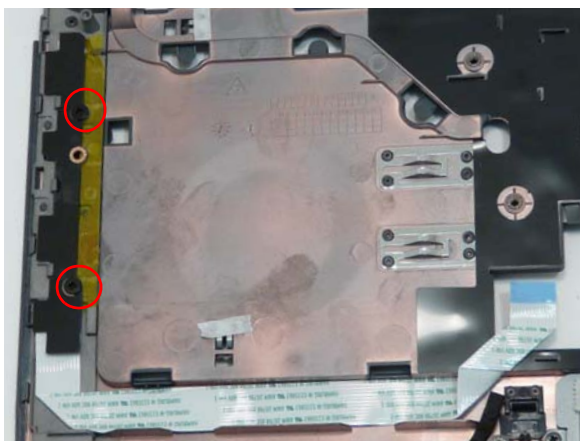
4. Lift the media board clear of the upper case.
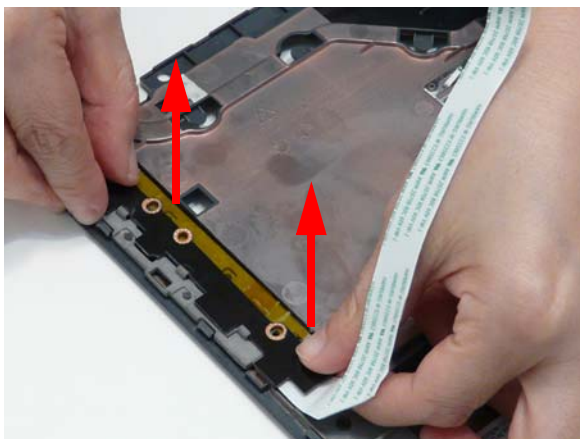
Step	Size	Quantity	Screw Type
Media Board	M2.5*3	2	

Removing the USB Board

1. See "Removing the Upper Cover" on page 74.
2. Remove the one (1) securing screw from the USB board.
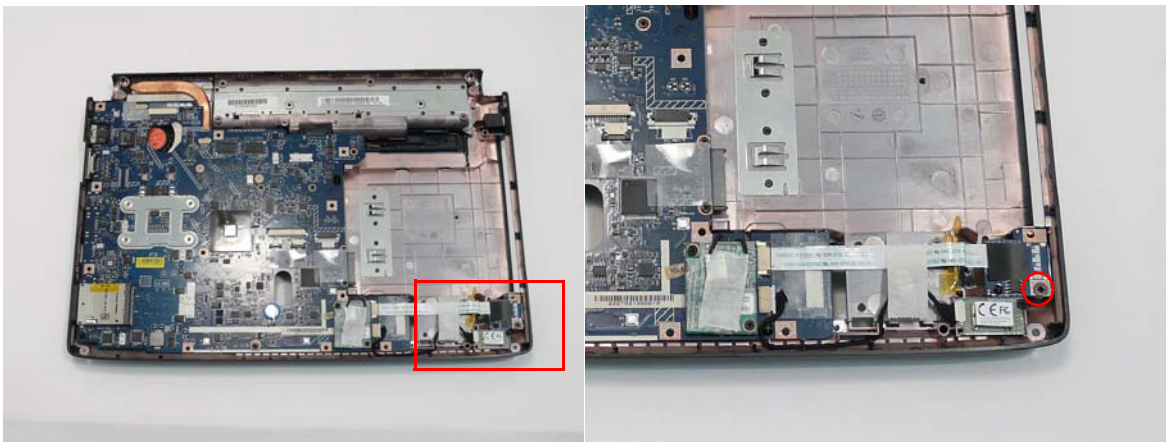
Step	Size	Quantity	Screw Type
USB Board	M2.5*3	1	

3. Remove the adhesive tape as shown.

4. Open the FFC locking latch and remove the FFC from the Mainboard.
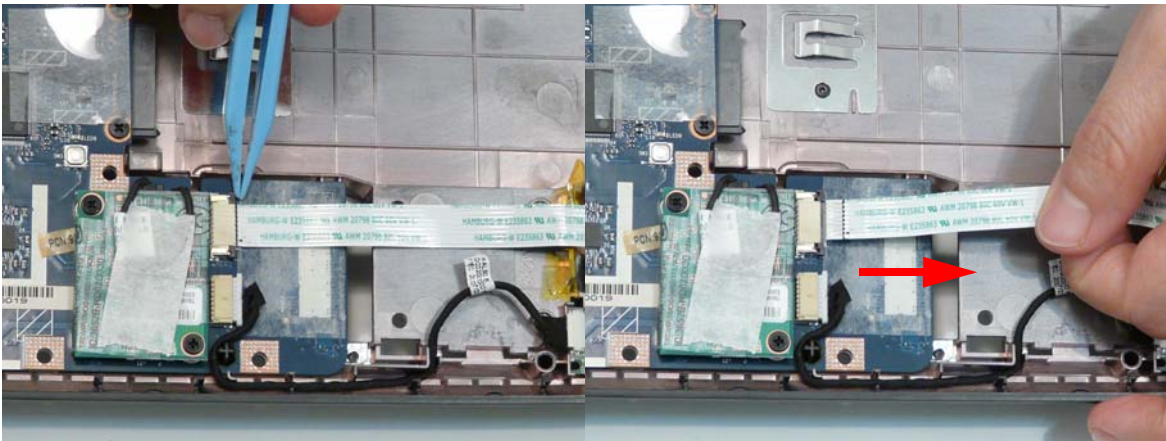
5. Lift the FFC to detach the adhesive from the casing.

6. Lift the USB Board clear of the casing.
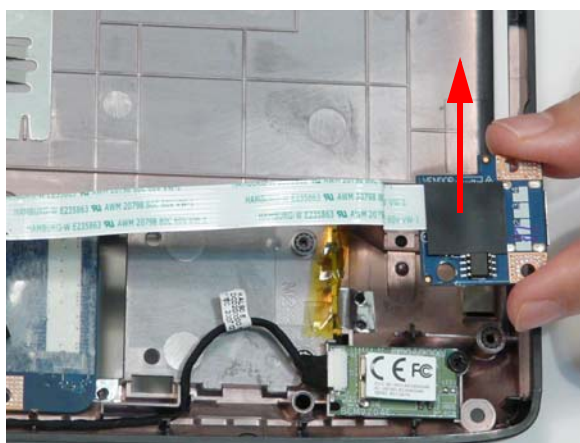
Removing the Modem Module

1. Remove the Upper Cover. See "Removing the Upper Cover" on page 74.
2. Remove the adhesive tape securing the cable to the Modem and remove the two (2) securing screws.
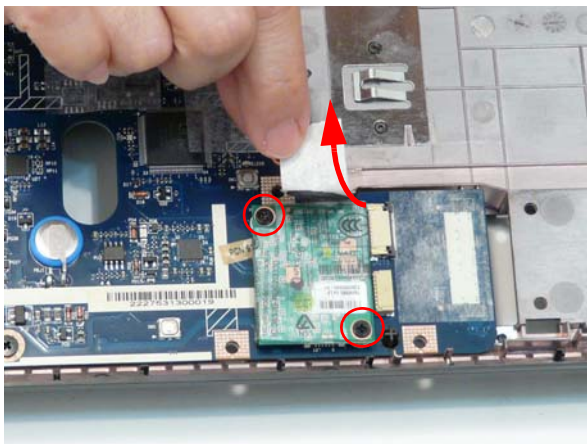
Step	Size	Quantity	Screw Type
Modem Module	M2*3	2	

3. Lift the Modem Module clear of the Mainboard as shown.
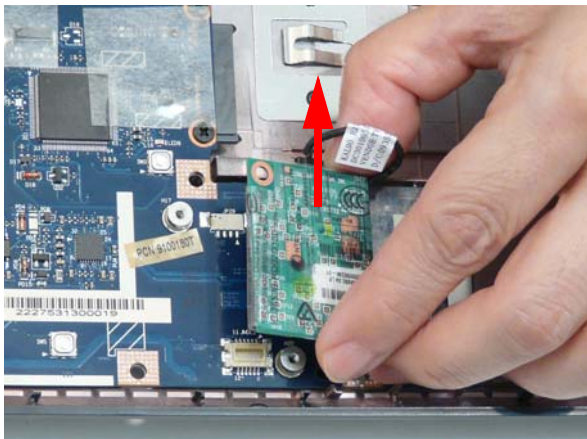
4. Turn the module over and disconnect the Modem cable. Remove the module from the casing.
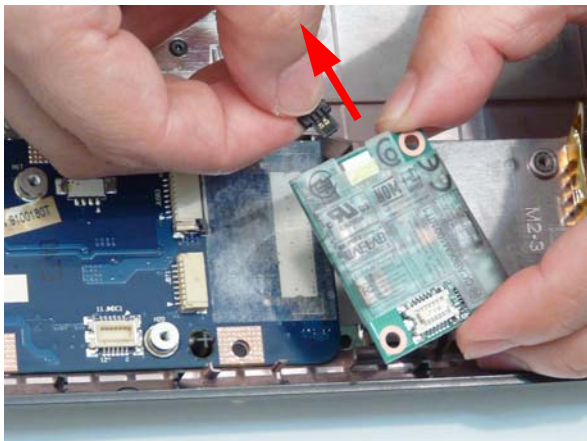
Removing the Bluetooth Module

1. See "Removing the Upper Cover" on page 74.
2. Remove the adhesive tape.
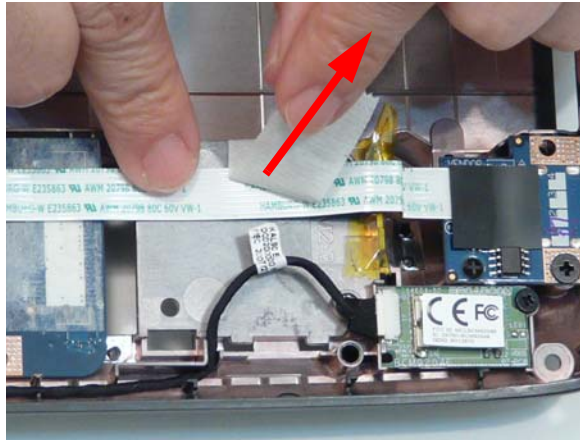
3. Grasp the cable as shown and pull to disconnect from the Bluetooth module.
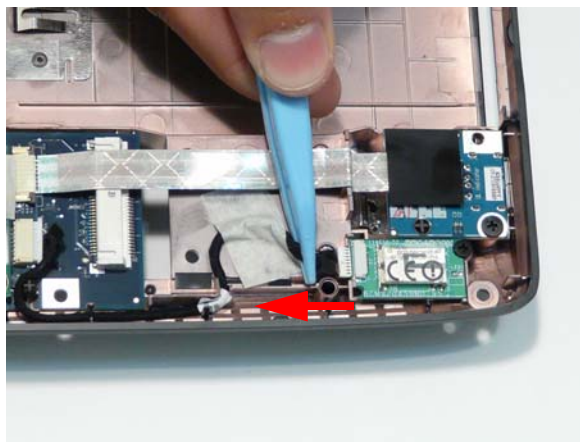
4. Disconnect the cable from the Mainboard and remove it from the cable channel as shown.
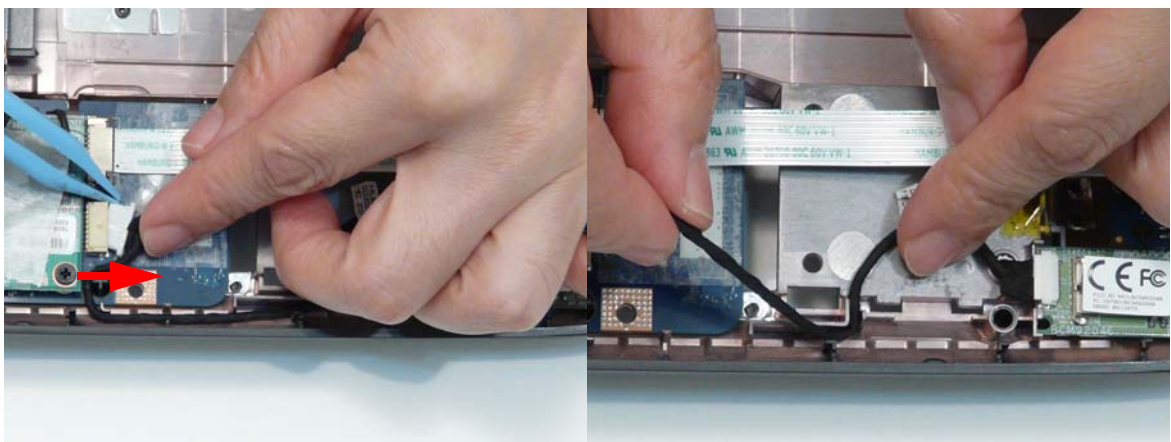
5. Remove the one (1) securing screw and remove the module from the chassis.
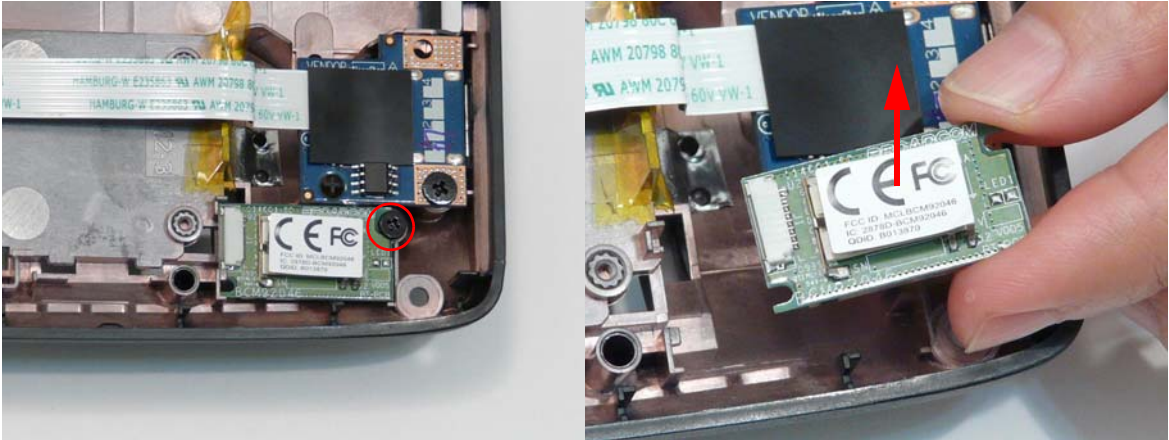
Step	Size	Quantity	Screw Type
Bluetooth Module	M2.5*3	1	

Removing the Mainboard

1. See "Removing the Upper Cover" on page 74.
2. See "Removing the USB Board" on page 83.
3. See "Removing the Modem Module" on page 85.
4. See "Removing the Bluetooth Module" on page 86.
5. Grasp the RJ-11 cable and remove it from the Mainboard as shown.
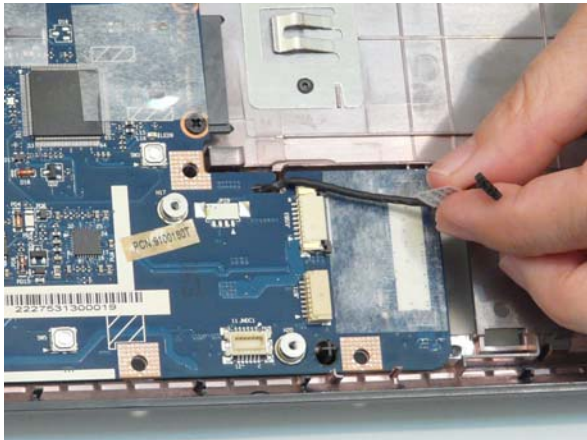
6. Remove the one (1) securing screw.
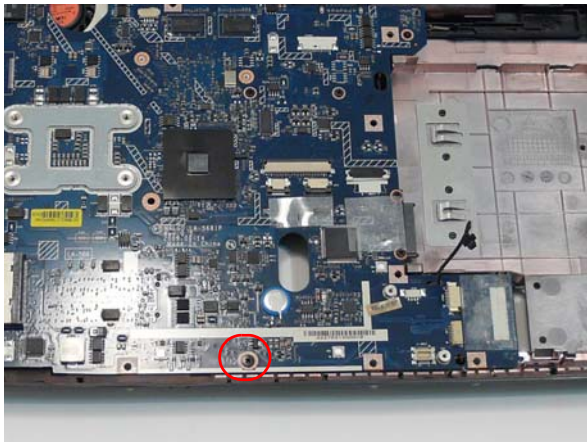
Step	Size	Quantity	Screw Type
Mainboard	M2.5*3	1	

7. Lift one edge of the mainboard as shown to remove it from the base.
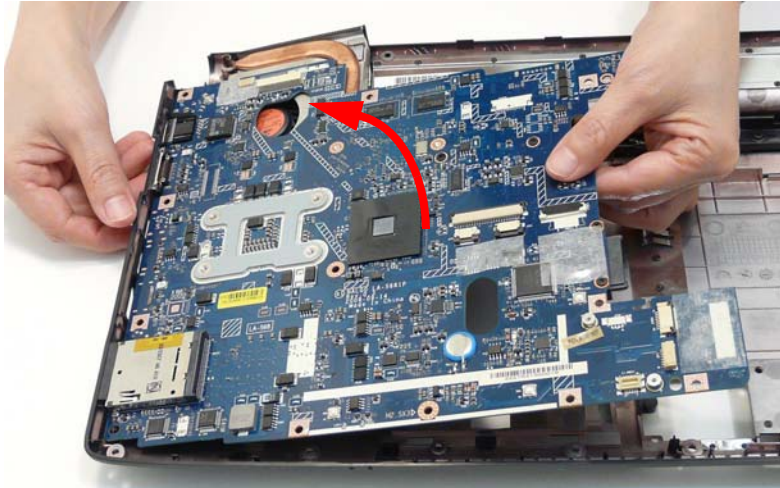
Removing the RJ-11 Port

1. See "Removing the Mainboard" on page 88.
2. Turn the Lower Cover over and pull the Modem cable through the casing as shown.
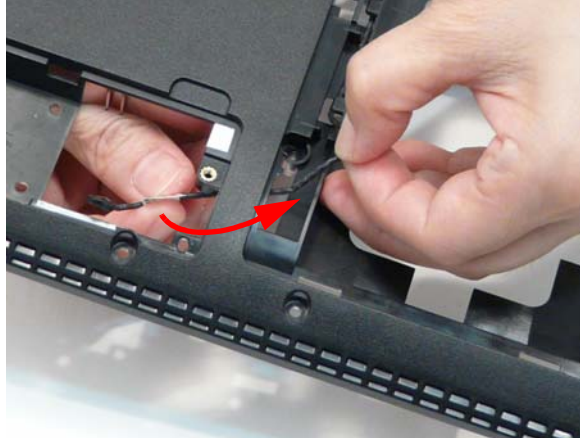
3. Completely remove the Modem cable from the cable channels.
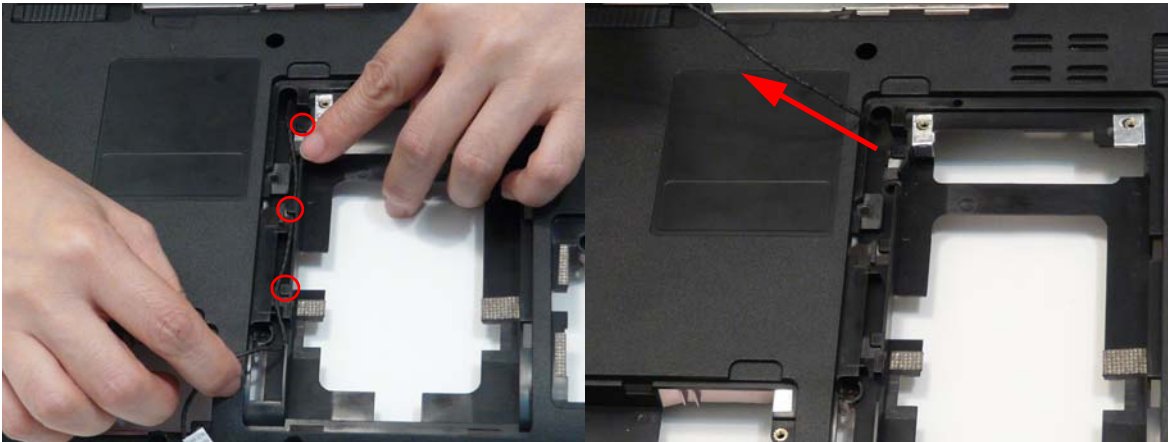
4. Turn the computer over. Pull the Modem cable completely through the casing as shown.
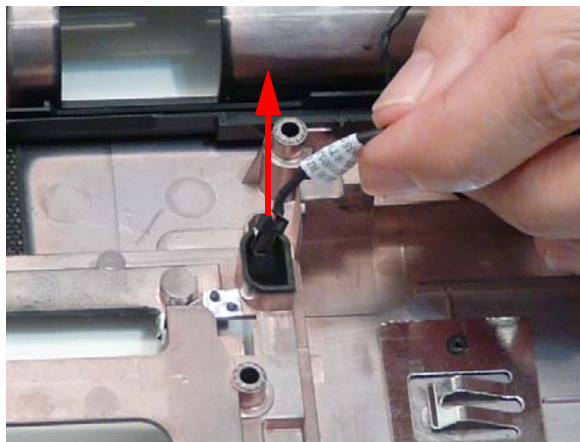
5. Remove the adhesive tape and lift the cable out of the cable channels as shown.
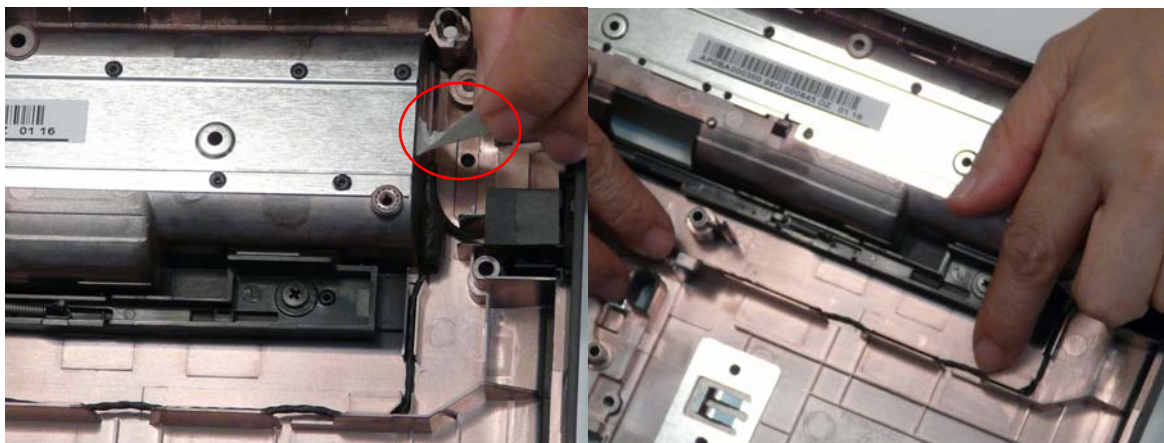
6. Detach the adhesive and lift the cable bundle out of the casing.
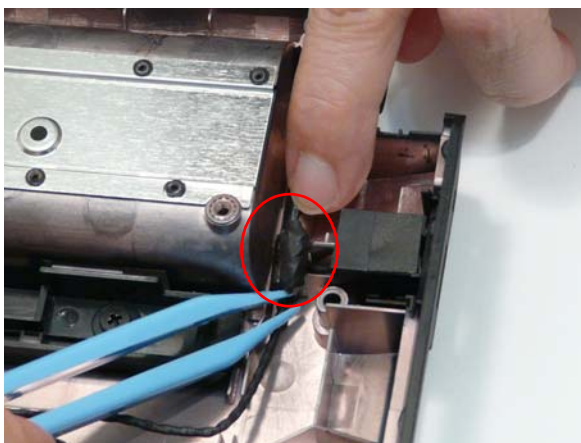
7. Remove the RJ-11 Port from the casing.
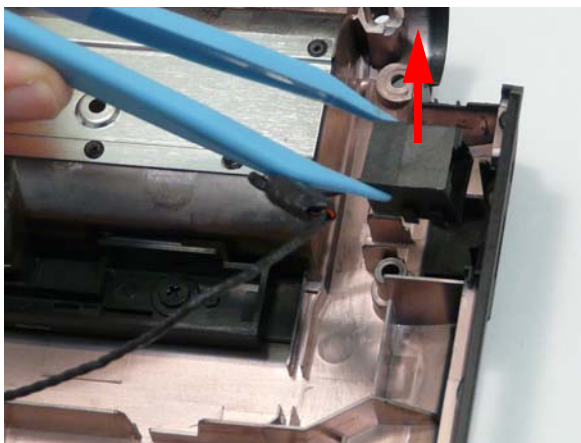
Removing the Thermal Module

1. See "Removing the Mainboard" on page 88.
2. Turn the Mainboard over and place on a clean surface.
3. Hold the fan cable connector and lift to disconnect from the mainboard.
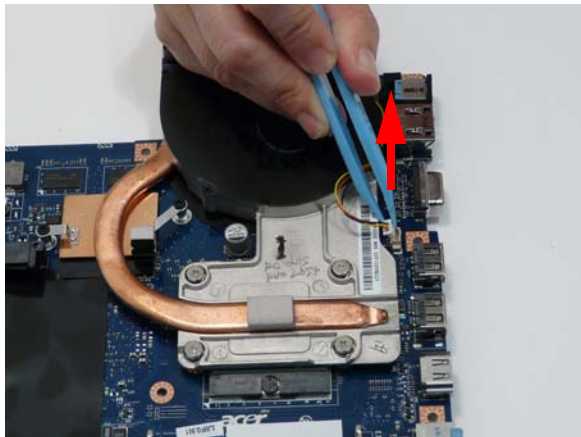
4. Remove the four (4) screws from the Thermal Module in numerical order, from 4 to 1.
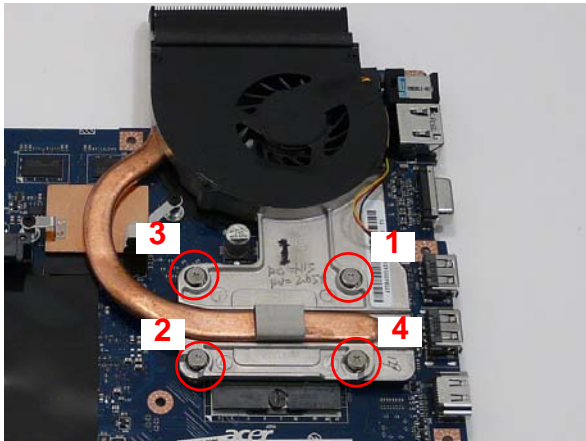
Step	Size	Quantity	Screw Type
CPU Thermal Module	M2.5*3.2	4	

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.
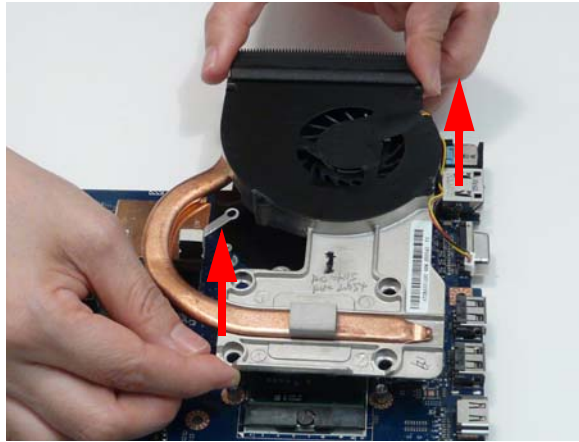
IMPORTANT: If the replacement Thermal Module does not include a thermal protection pad, reuse the original thermal protection pad with the new Thermal Module.

Removing the CPU

1. See "Removing the Thermal Module" on page 92.
2. Using a flat screwdriver, turn the CPU socket latch counter-clockwise 180° to release the CPU.
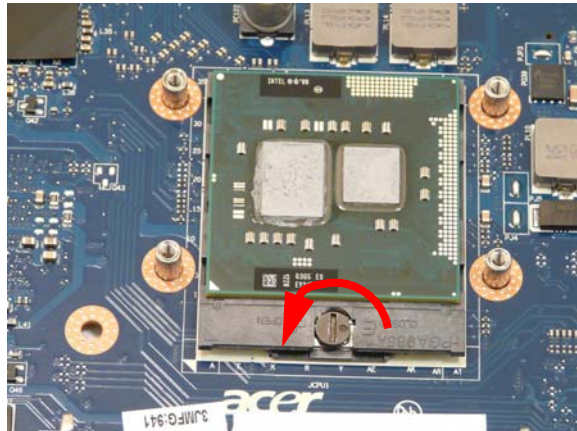
3. Lift the CPU clear of the Mainboard.
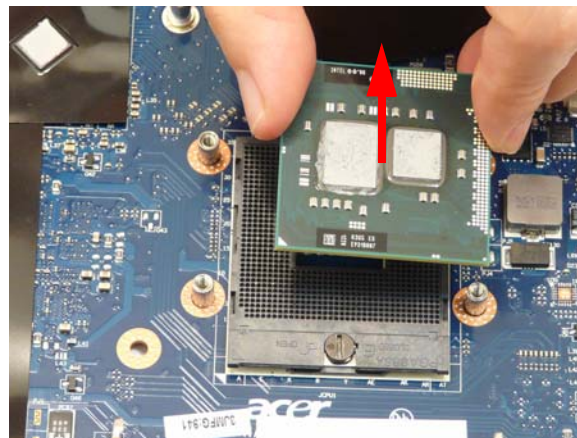
LCD Module Disassembly Process

LCD Module Disassembly Flowchart

```
┌─────────────┐
│ Remove LED  │
│Panel from Main│
│ Unit before │
│ proceeding  │
└─────────────┘
      │
      ▼
┌─────────────┐
│   Remove    │
│  LED Bezel  │
└─────────────┘
      │
      ▼
┌─────────────┐
│   Remove    │
│Camera Module│
└─────────────┘
      │
      ▼
┌─────────────┐
│   Remove    │
│  LED Panel  │
└─────────────┘
      │
  ┌───┼───────────────┐
  ▼   ▼               ▼
┌────────┐ ┌────────┐ ┌────────┐
│ Remove │ │ Remove │ │ Remove │
│LED FPC │ │  LED   │ │Antenna │
│ Cable  │ │Brackets│ │        │
└────────┘ └────────┘ └────────┘
                           │
                           ▼
                      ┌────────┐
                      │ Remove │
                      │  MIC   │
                      │ Module │
                      └────────┘
```
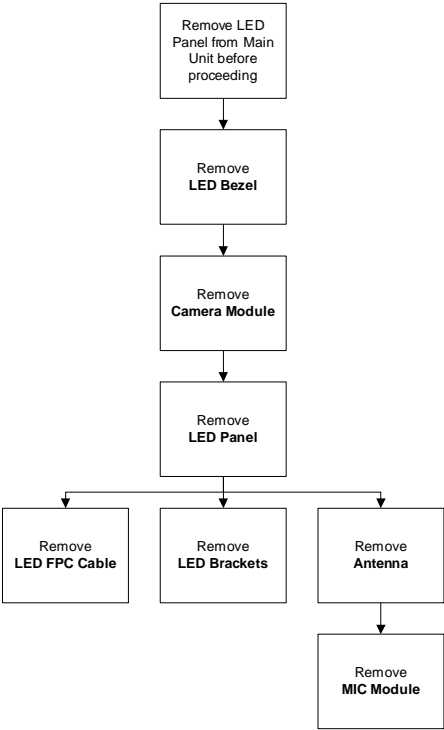
Screw List

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 69.
2. Remove the six (6) screw caps and screws as shown.

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

3. Starting at the center 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 96.
2. Remove the one (1) 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.
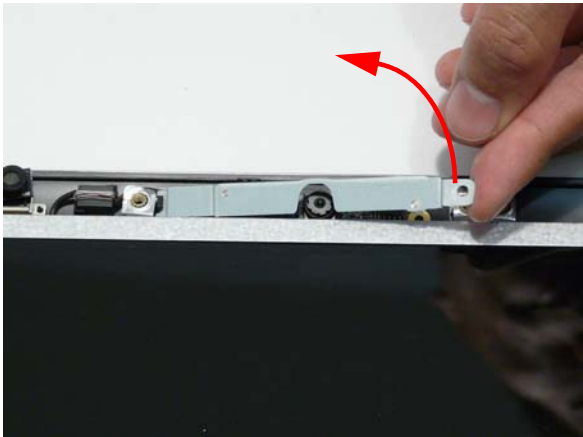
4. Lift the Camera Module clear of the casing and disconnect the cable from the Module.
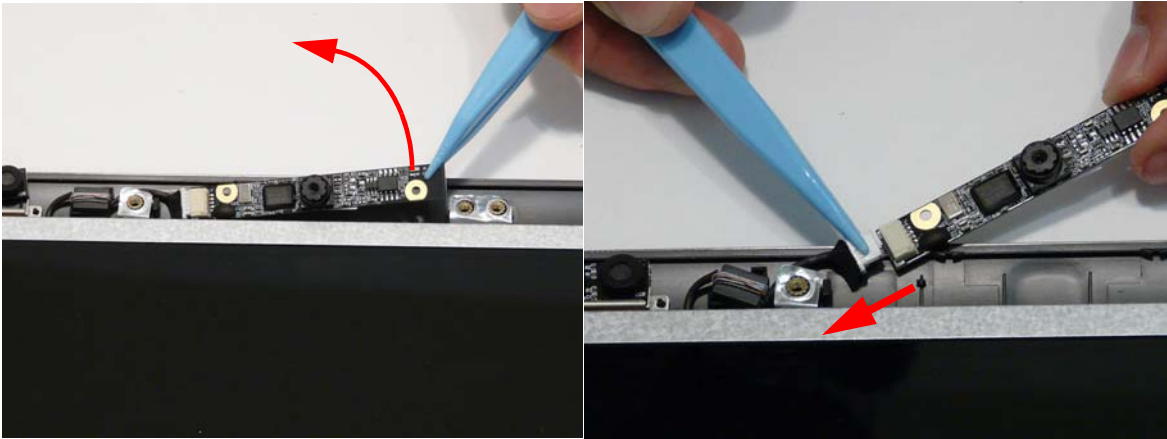
5. Remove the Camera Module.

Removing the LCD Panel

1. See "Removing the Camera Module" on page 98.
2. Remove the two (2) securing screws from the LCD hinges and the one (1) 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.
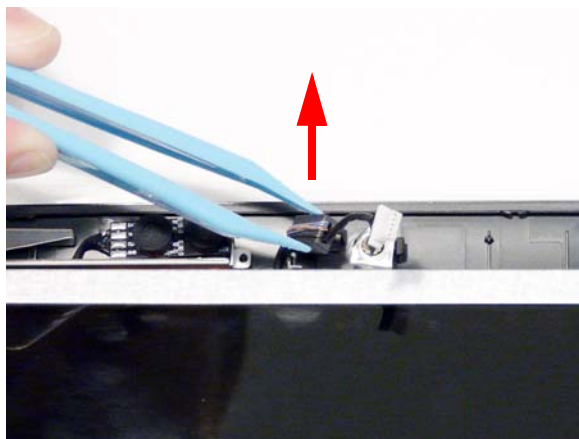
4. Lift the LCD Panel out of the casing as shown.

Removing the LCD Brackets and Cable

1. See "Removing the LCD Panel" on page 99.
2. Turn the LCD Panel over on a clean surface, and lift the cable as shown to detach the adhesive.
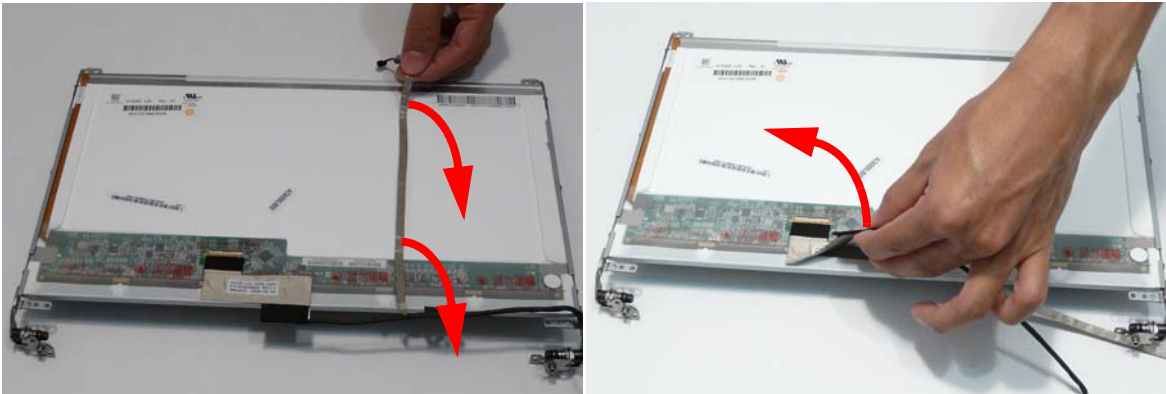
3. Grip the clear protective covering on the LCD cable and pull it back (1).
4. Remove the cable from the panel as shown (2).
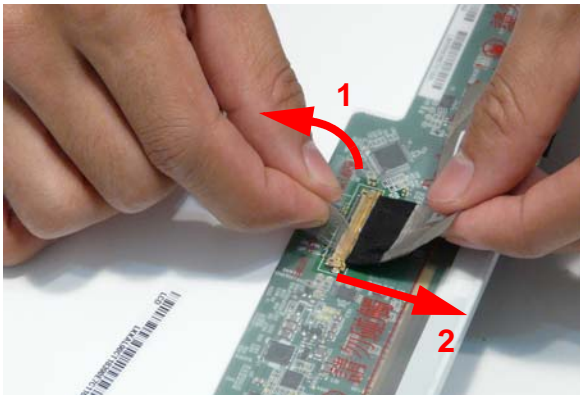
5. Remove the six (6) securing screws (three on each side) from the LCD Panel brackets in numeric order, from 3 to 1.
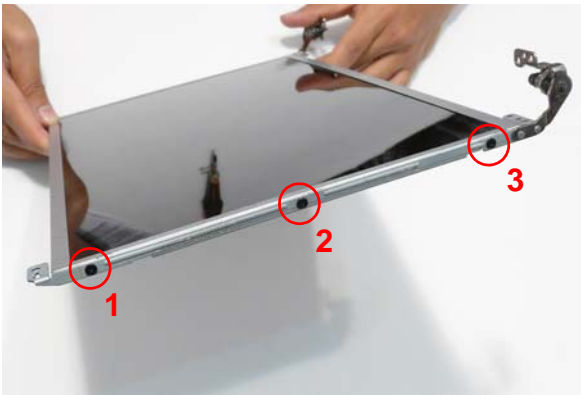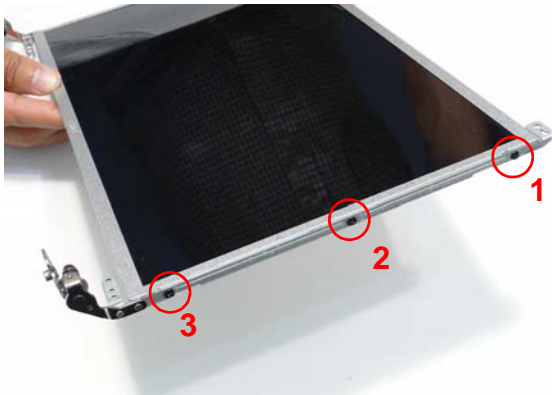
Step	Size	Quantity	Screw Type
LCD Brackets	M2*3	6	

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

Removing the Antennas

1. See "Removing the LCD Panel" on page 99.
2. Remove the foil tabs holding the antenna cables in place. Ensure the cables are free from obstructions.

3. Remove the foil tabs securing the left and right antennas to the LCD module and lift the antennas clear.
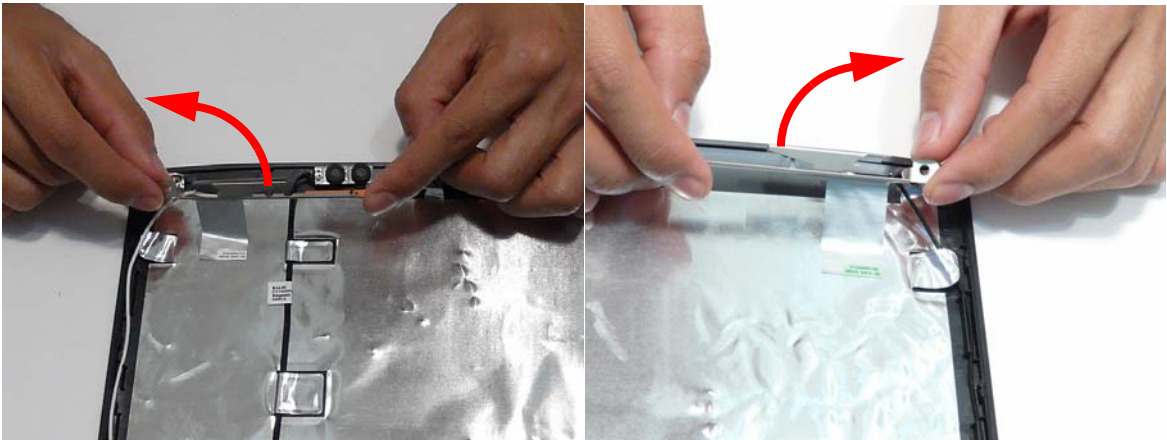
4. Remove the antenna cables and assembly from the LCD module.

Removing the MIC Module

1. See "Removing the Antennas" on page 102.
2. Remove the foil tabs 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.
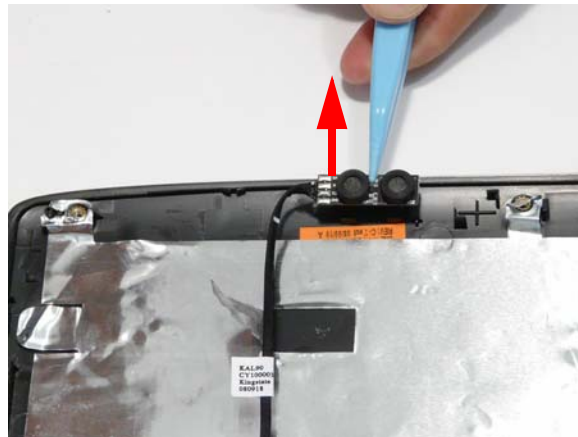
LCD Module Reassembly Procedure

Replacing the MIC Module

1. Replace the MIC Module in the LCD casing.

2. Run the cable as shown and replace the adhesive tape to hold it in place.
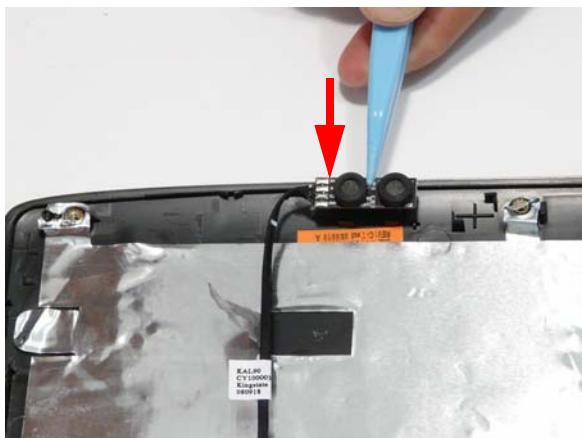
IMPORTANT: Ensure that the cable runs as shown in the hinge well area.

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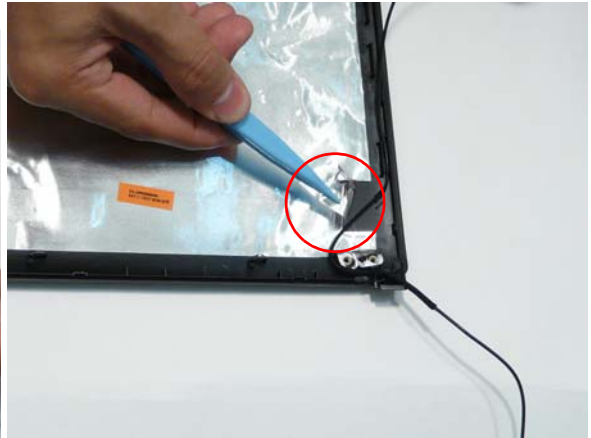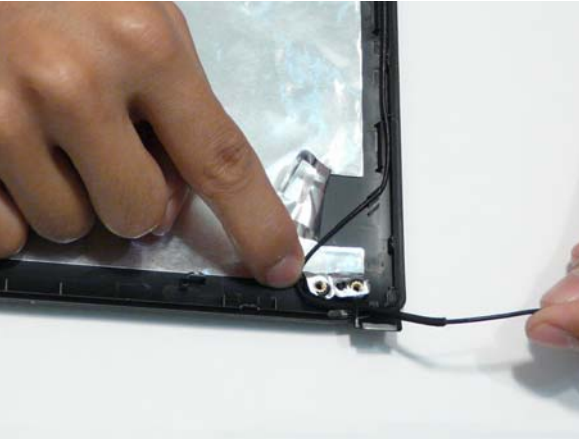
3. Run the cable along the edge of the casing using all available cable clips.

4. Run the cable as shown and replace the foil tab.

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.
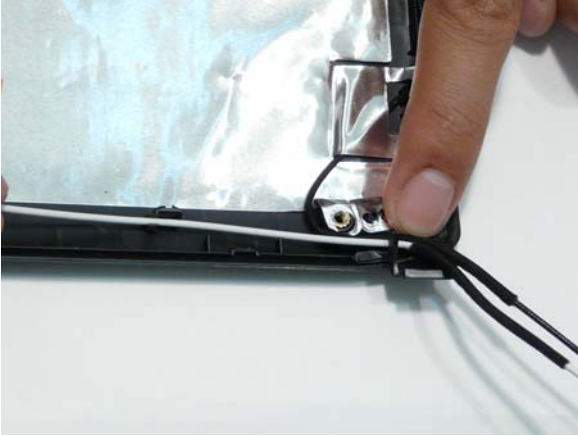
8. Run the cable along the edge of the casing using all available cable clips.
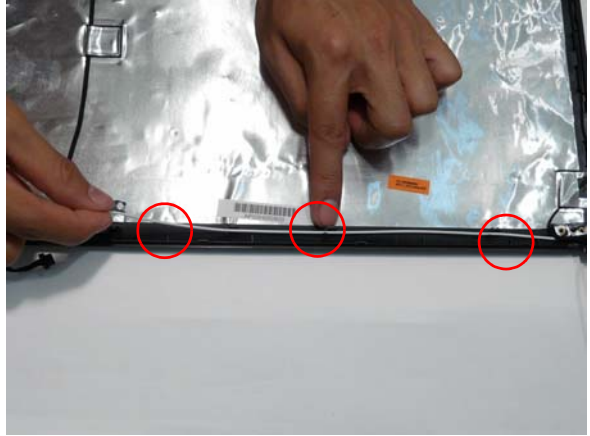
9. Run the cable as shown and replace the foil tab.
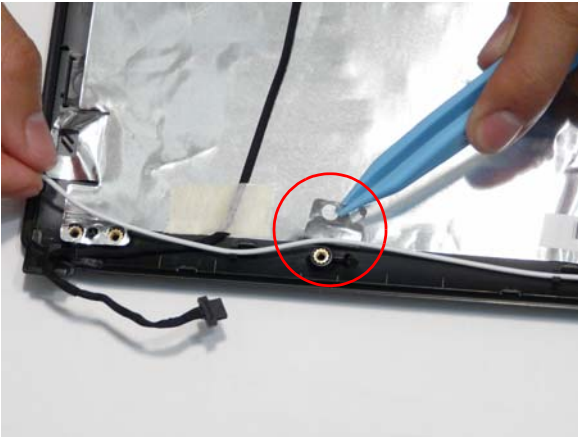
10. Run the cable as shown and replace the foil tab.
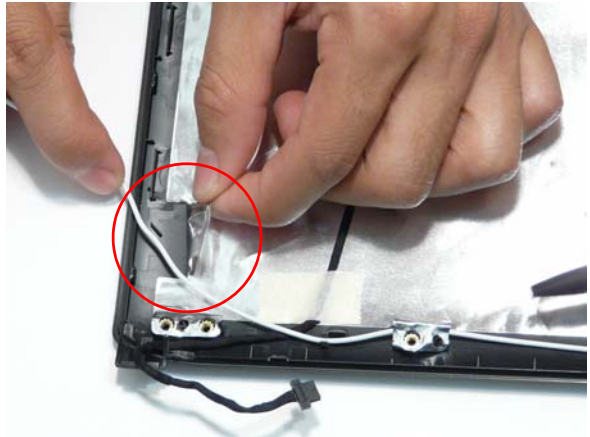
11. Run the cable along the edge of the casing using all available cable clips.
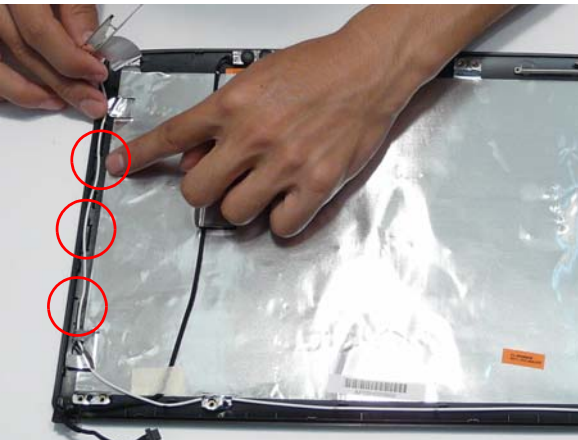
12. Replace the Antenna in the casing as shown and secure it in place with the foil tab.
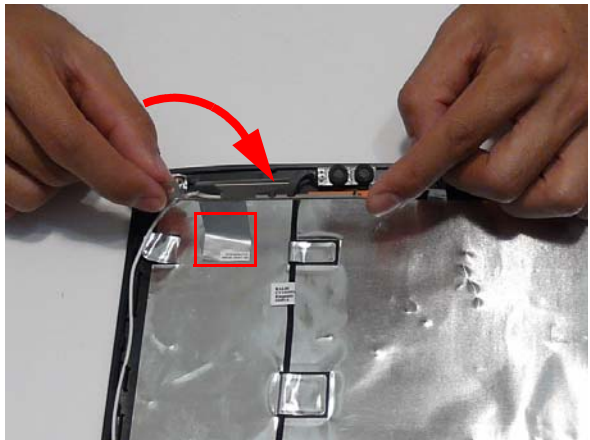
13. Ensure that the securing pin is properly located.
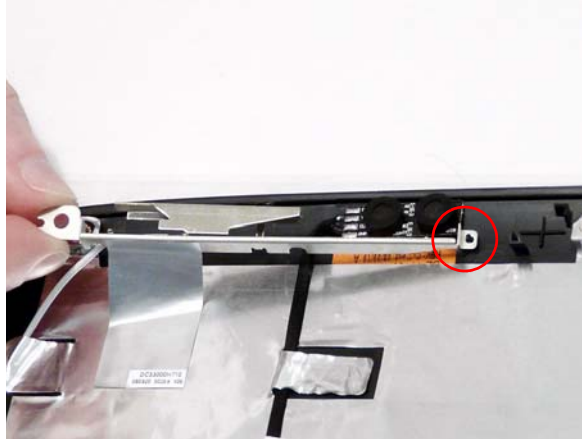
Replacing the LCD Panel

1. Align the LCD brackets with the six (6) screw holes (three on each side) on the LCD Panel as shown.
2. Replace the six (6) securing screws. On each side replace the screws in numeric order, from 1 to 3.
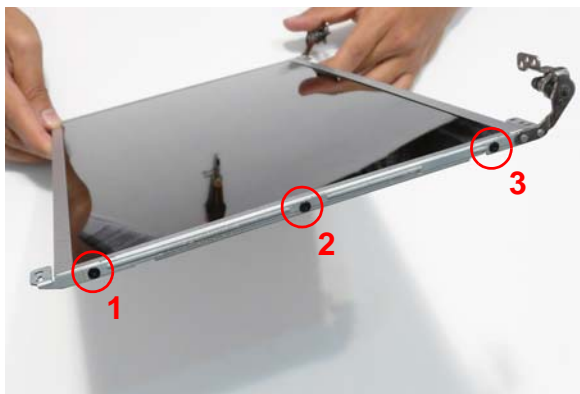
3. Turn the panel over. Insert the LCD Panel cable into the LCD Panel as shown (1). Replace the securing strip (2).
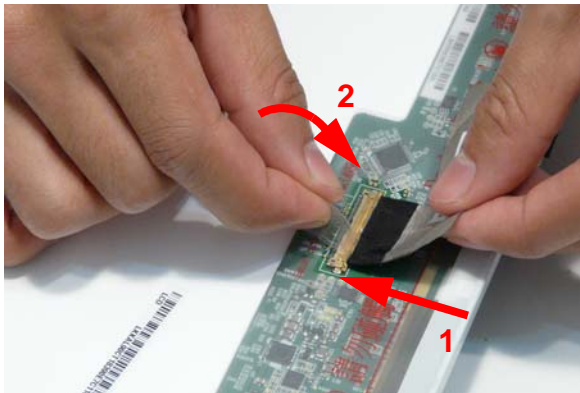
4. Run the LCD cable as shown and press down along the length of the cable to secure it in place.
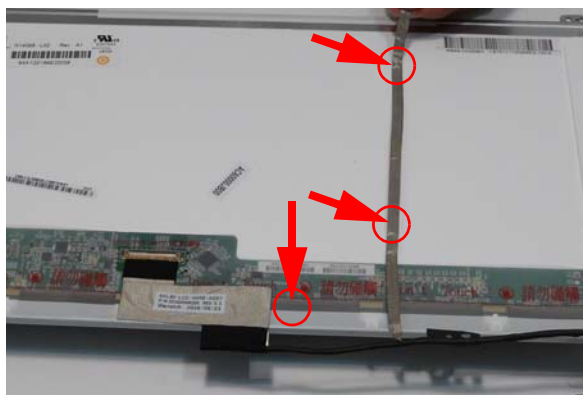
5. Insert the LCD panel into the casing back edge first as shown.

6. Ensure that the four (4) locating pins are properly seated before continuing.

7. Replace the Camera Module cable bundle in the casing as shown.
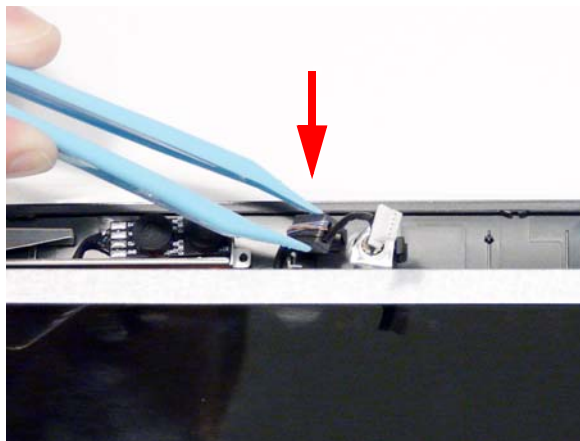
8. Replace the three (3) screws to secure the panel and grounding within the LCD module.

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.
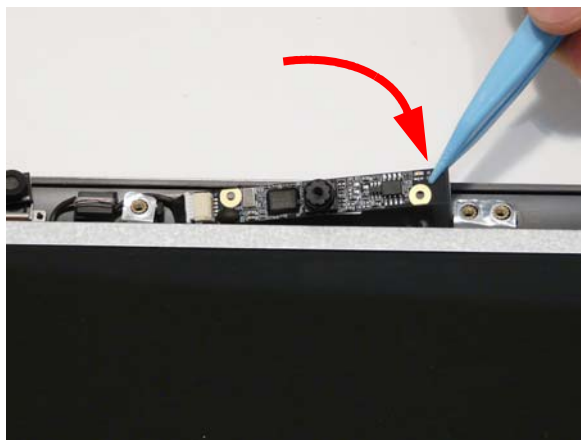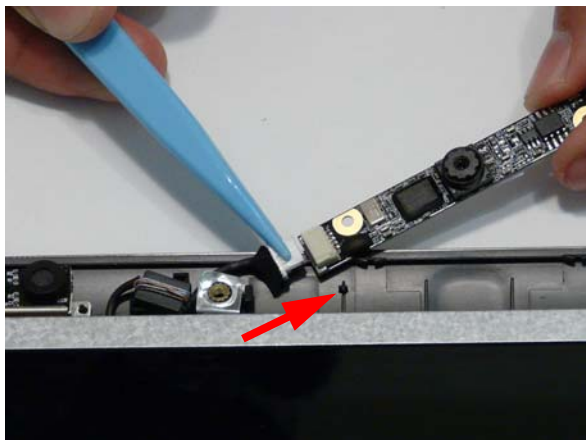
3. Ensure that the locating pins are correctly seated.

4. Insert the Camera Bracket left side first to engage the securing clip.
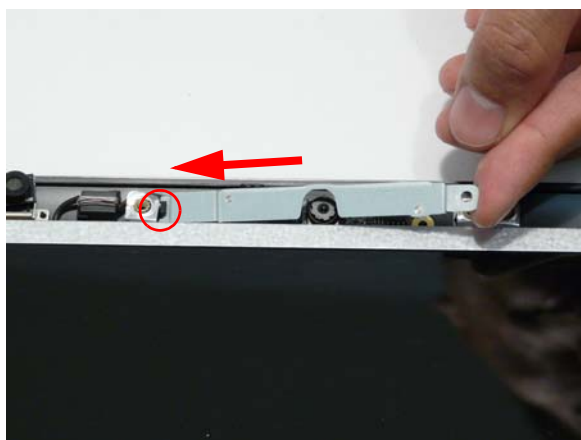
5. Lower the bracket into place as shown

6. Replace the one (1) securing screw.
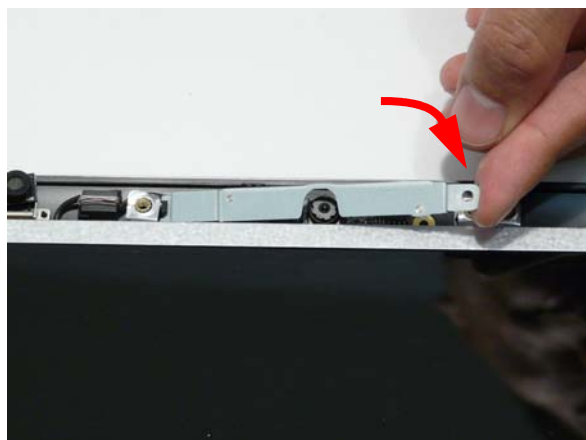
Replacing the LCD Bezel

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 (6) 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.
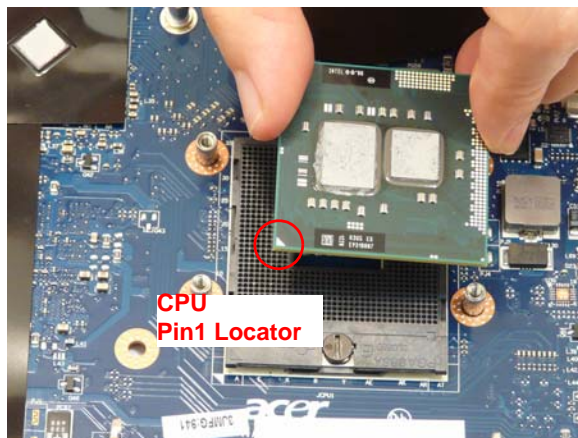
2. Using a flat-bladed screw driver, rotate the CPU locking screw 180° clockwise to secure the CPU in place.
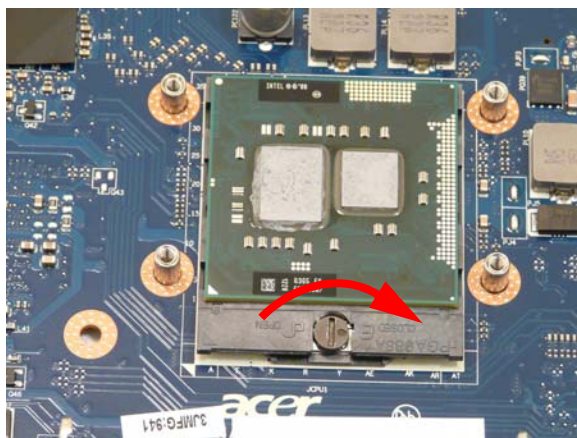
Replacing the Thermal Module

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

> **IMPORTANT:** If the replacement Thermal Module does not include the thermal protection pad shown below, reuse the original thermal protection pad with the new Thermal Module.
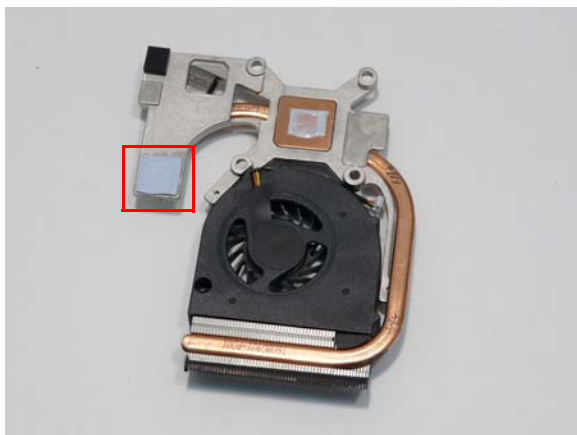
1. Align and place the Thermal Module in the on the mainboard as shown.

2. Replace the four (4) screws from the Thermal Module numerically, from 1 to 4.
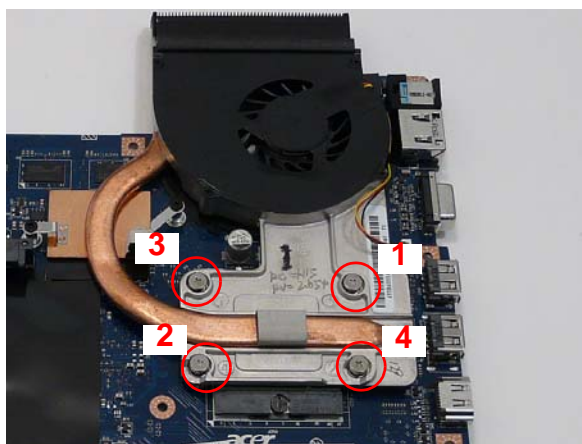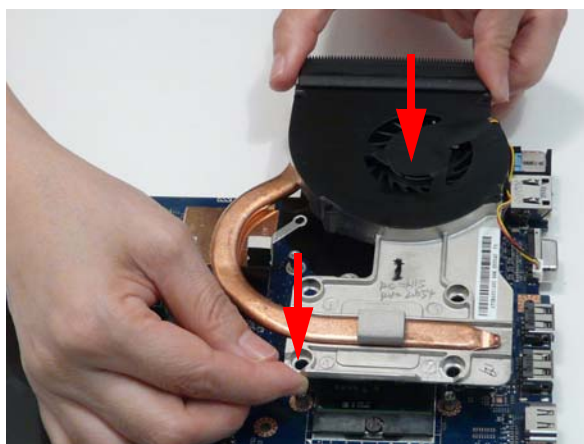
3. Connect the fan cable to the mainboard as shown.
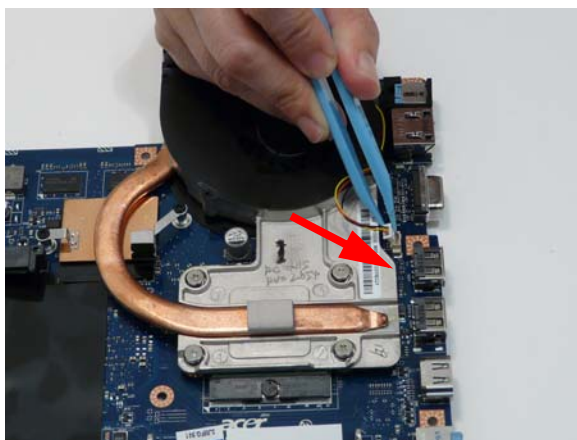
Replacing the RJ-11 Port

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.
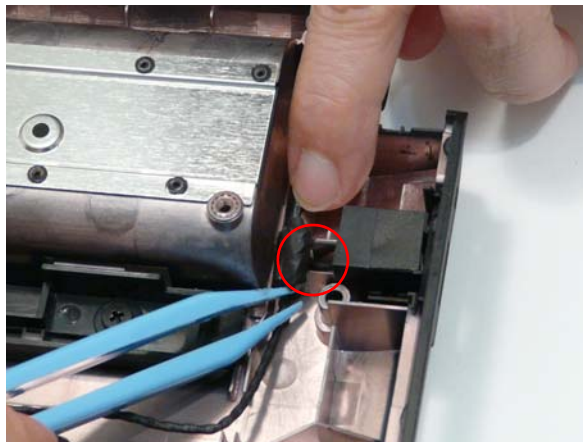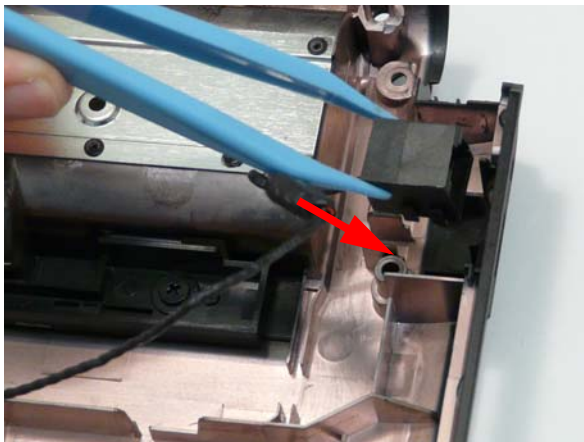
3. Run the cable along the cable channels using all available cable clips.

4. Insert the cable through the casing as shown.
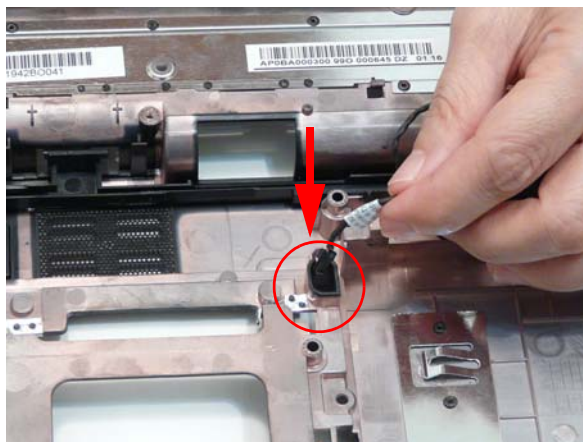
5. Turn the computer over and run the cable along the cable channels using all available cable clips.

6. Insert the cable through the casing as shown.
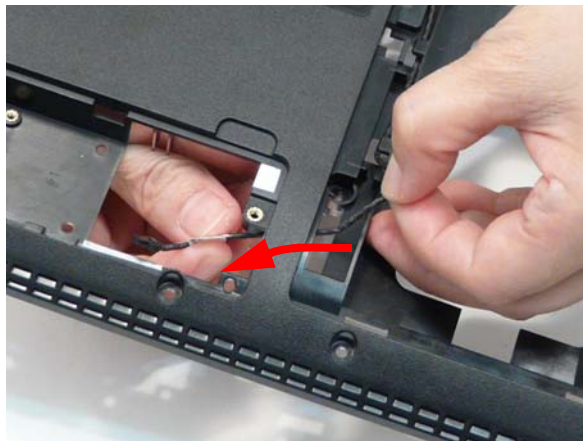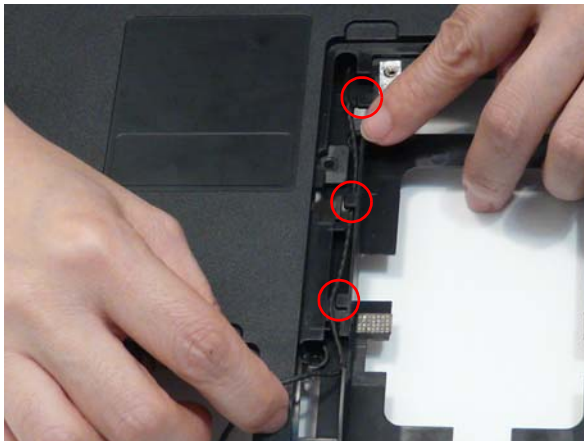
Replacing the Mainboard

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.
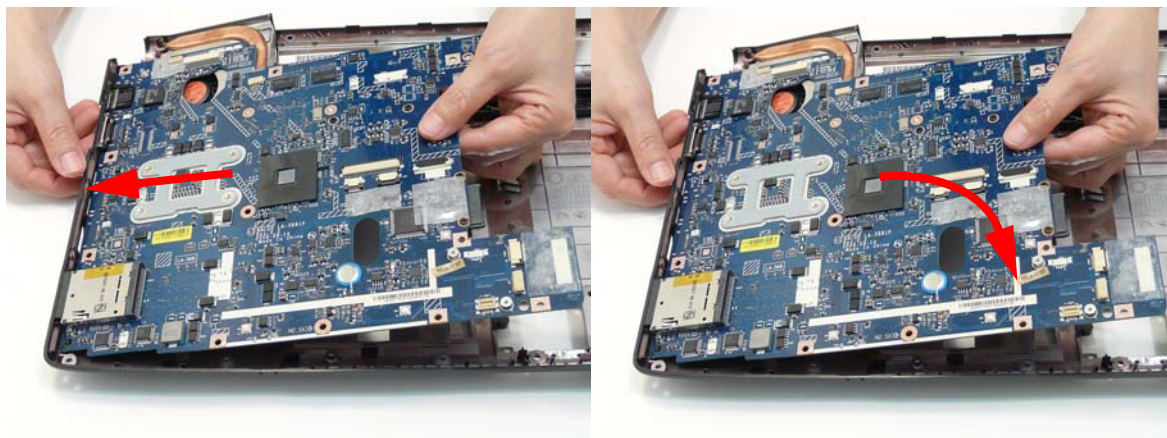
2. Ensure the screw socket is aligned. Replace the one (1) securing screw as shown.
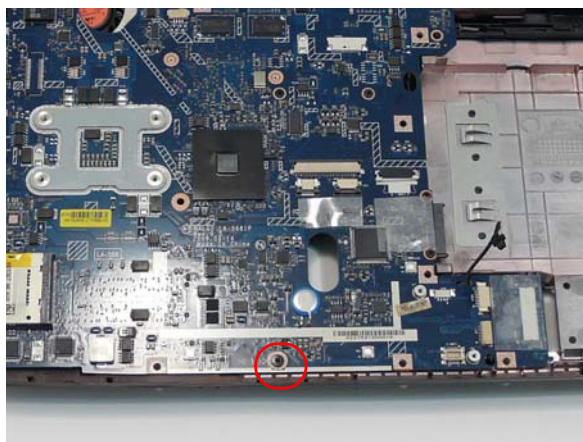
   NOTE: Make sure the I/O ports are positioned correctly through the lower cover, and the screw sockets are visible through the mainboard.

3. Replace the RJ-11 cable in the retaining clip on the Mainboard.
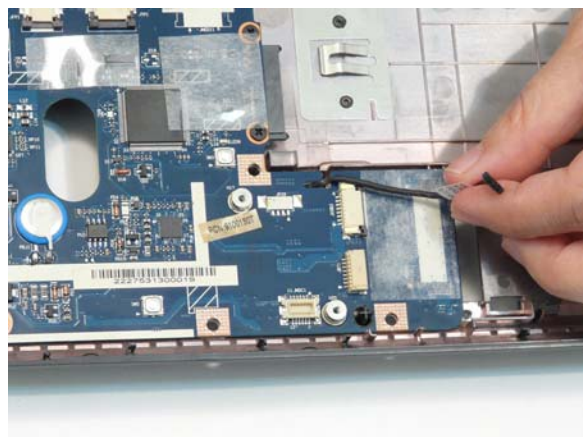
Replacing the Bluetooth Module

1. Insert the Bluetooth Module left side first and lower   **2.** Replace the one (1) securing screw.
it into place.
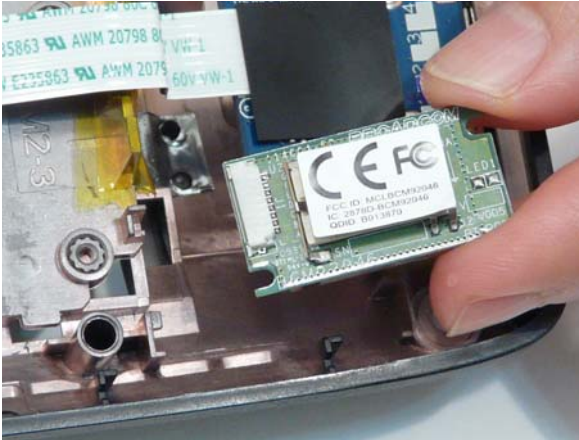
3. Reconnect the Bluetooth cable to the Mainboard.   **4.** Run the cable through the channel as shown.
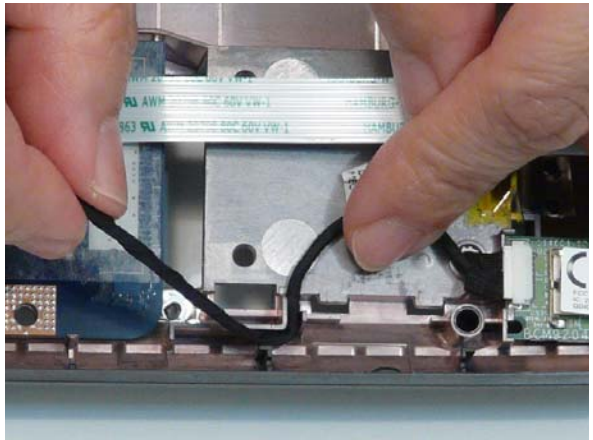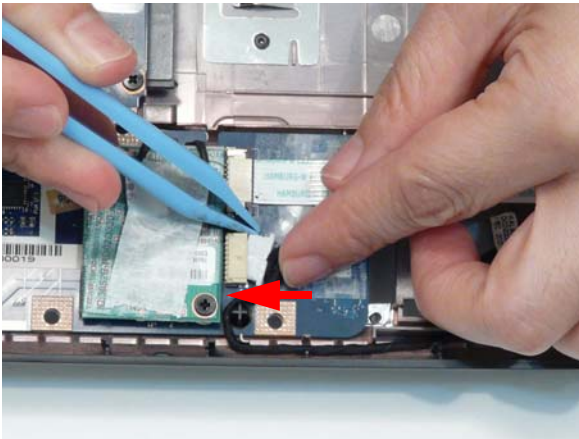
5. Reattach the tape and reconnect the Bluetooth
cable to the Bluetooth Module.
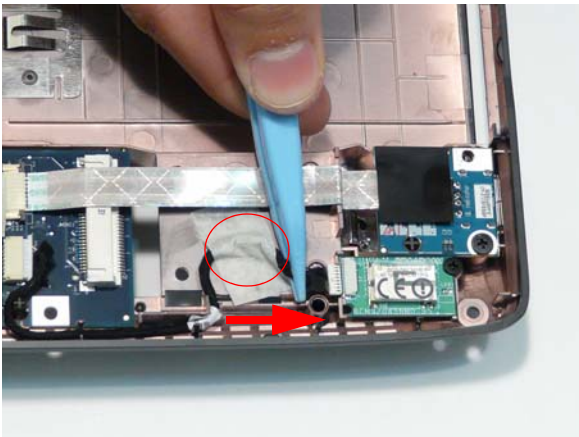
Replacing the Modem Module

1. Connect the modem cable as shown.

2. Replace the Modem Module on the Mainboard.
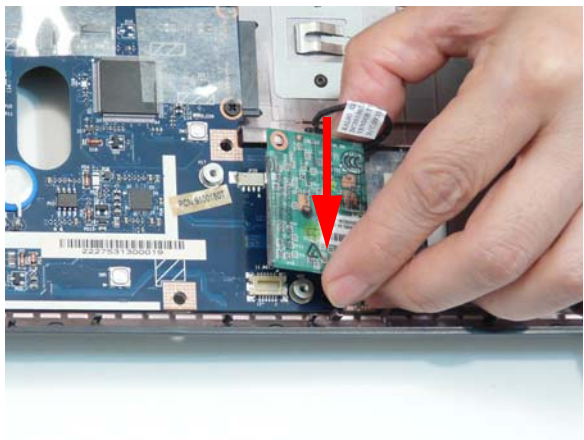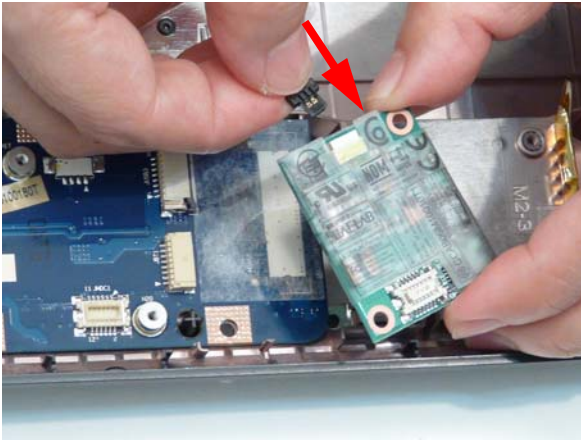
3. Align the screw sockets and replace the two (2) screws.

4. Secure the Modem cable in place with the adhesive tape.
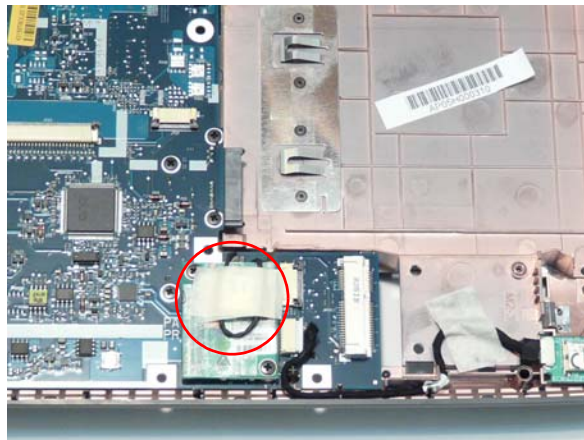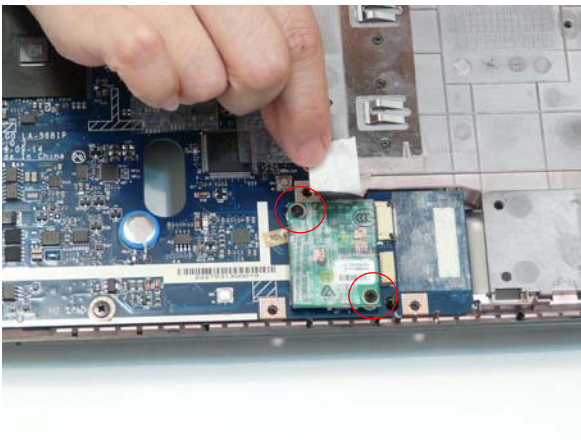
Replacing the USB Board

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.
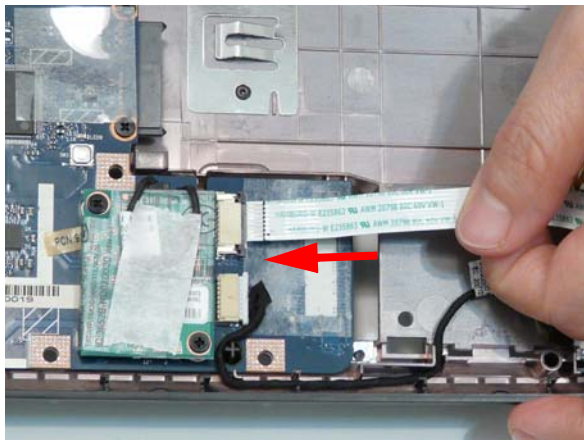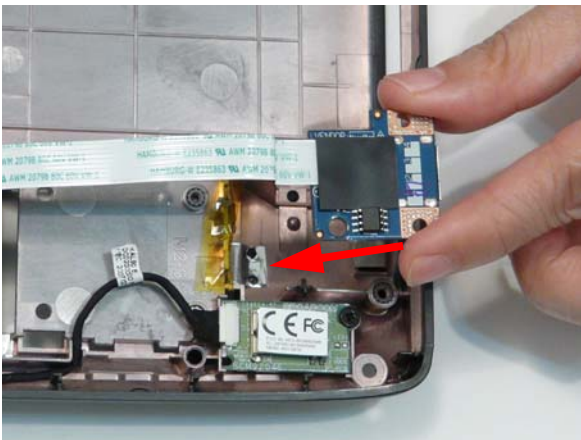
3. Lock the connector and press down on the FFC cable to secure it on the casing.
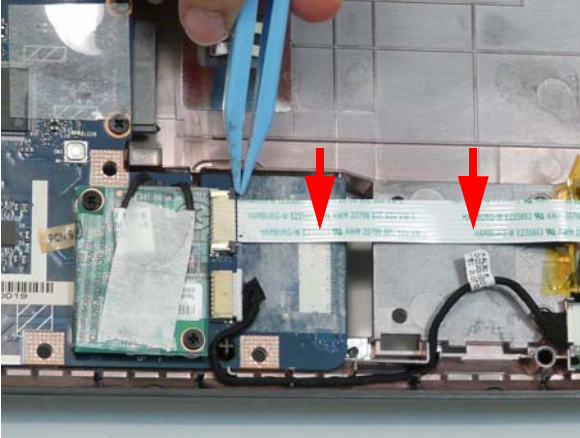
Replacing the Media Board

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

1. Place the media board in the upper case.
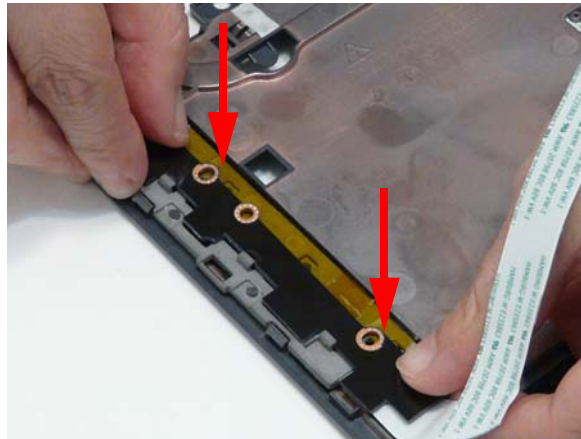
2. Replace the two (2) securing screws as shown.
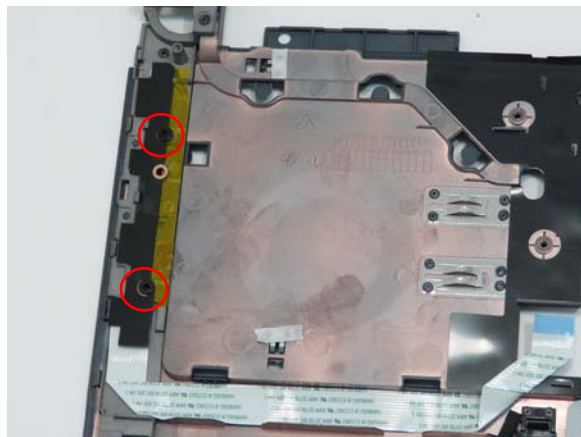
3. Adhere the FFC to the upper case as shown.
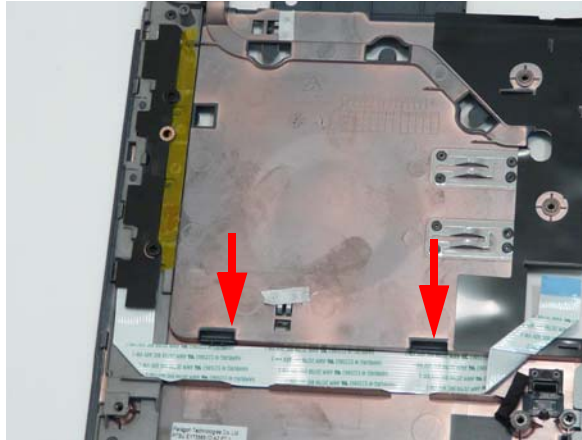
Replacing the TouchPad Bracket

1. Place the TouchPad in the casing.
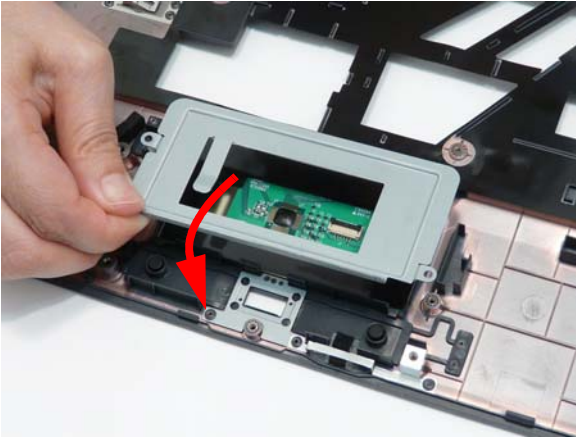
2. Replace the two securing screws.
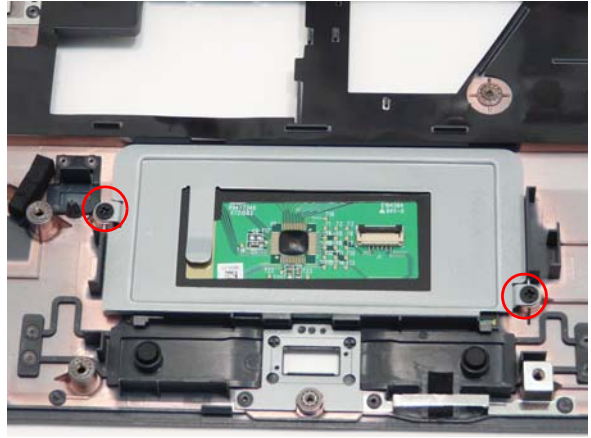
3. Replace the FFC and close the locking latch.

4. 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.
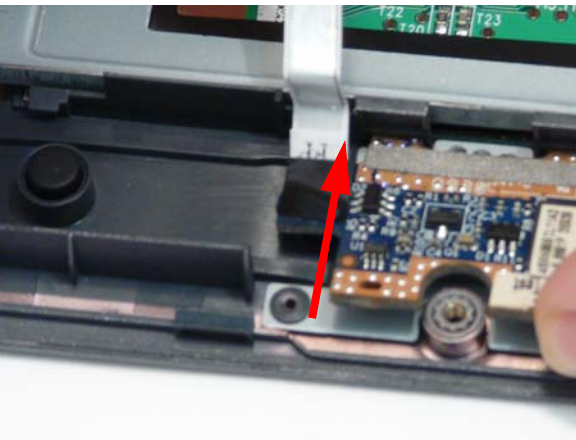
2. Run the FFC along the TouchPad bracket and replace the adhesive tape.
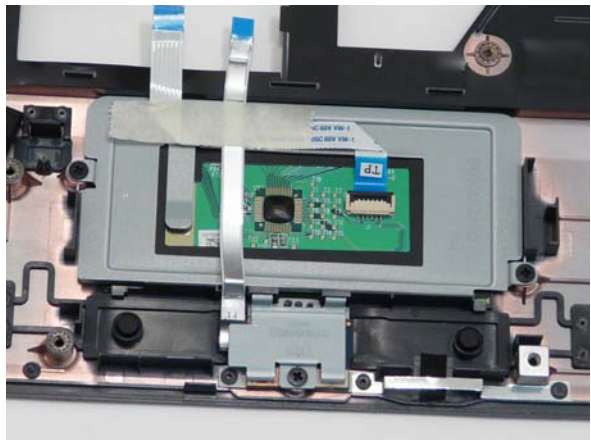
3. Replace the Finger Print Reader Bracket rear edge first and lower it into place.

4. Replace the one (1) securing screw.
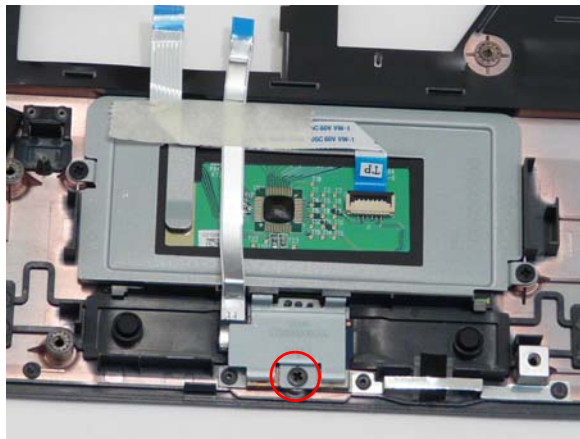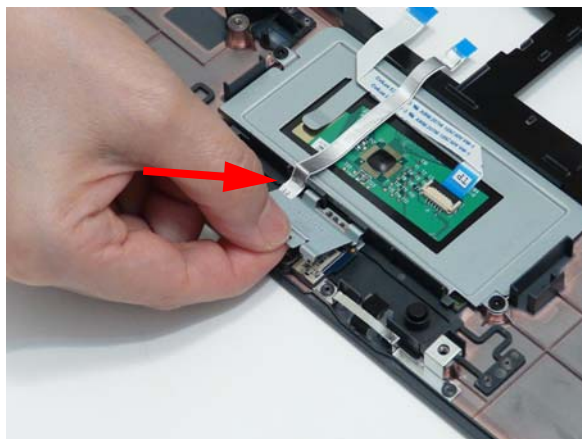
Replacing the Upper Cover

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, front edge 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.
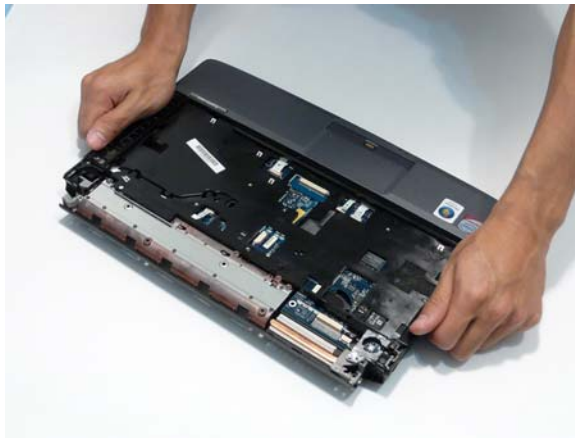
3. Reconnect the three (3) FFC cables to the mainboard.

A B C
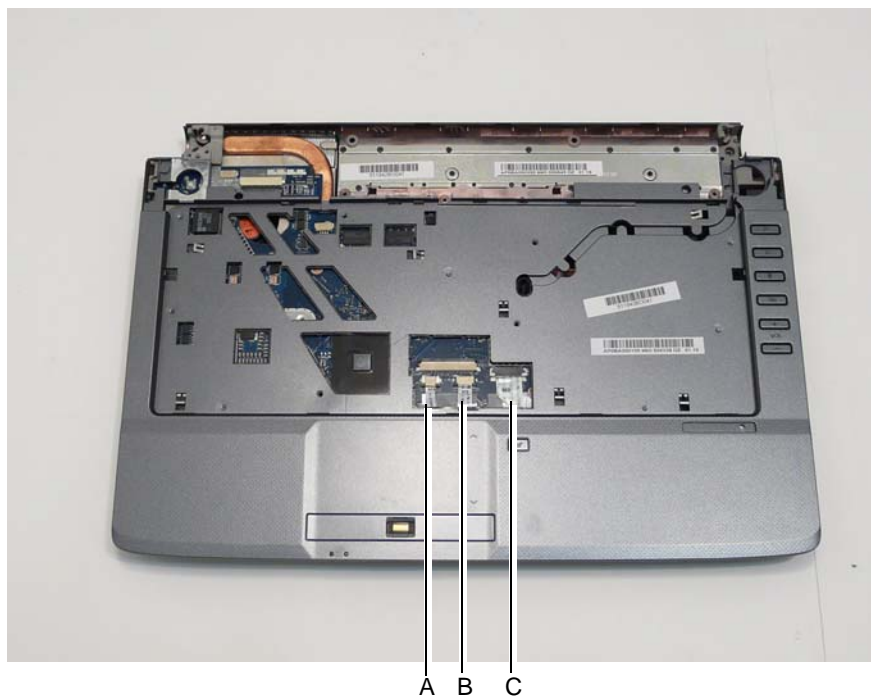
Connect and lock connector A as shown.
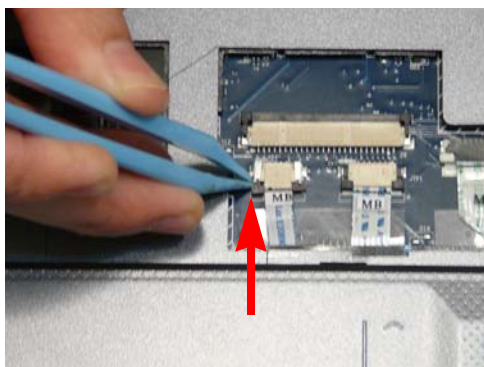
Connect and lock connector B as shown.
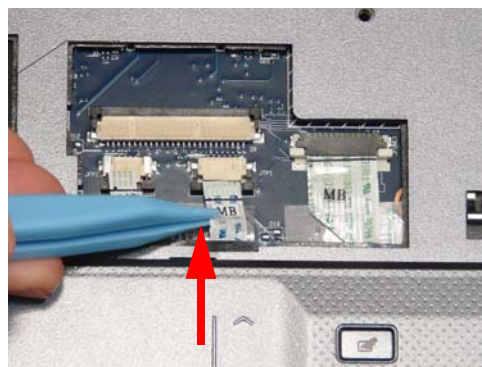
Connect and lock connector C as shown.
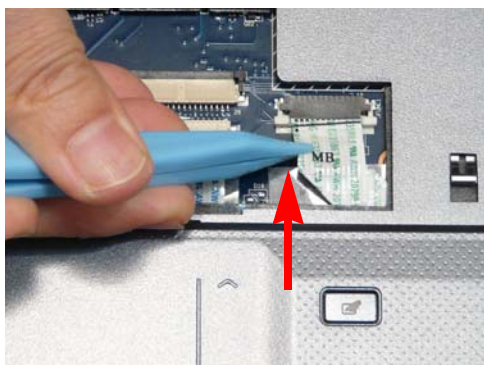
4. Turn the computer over. Replace the fifteen screws on the bottom panel.
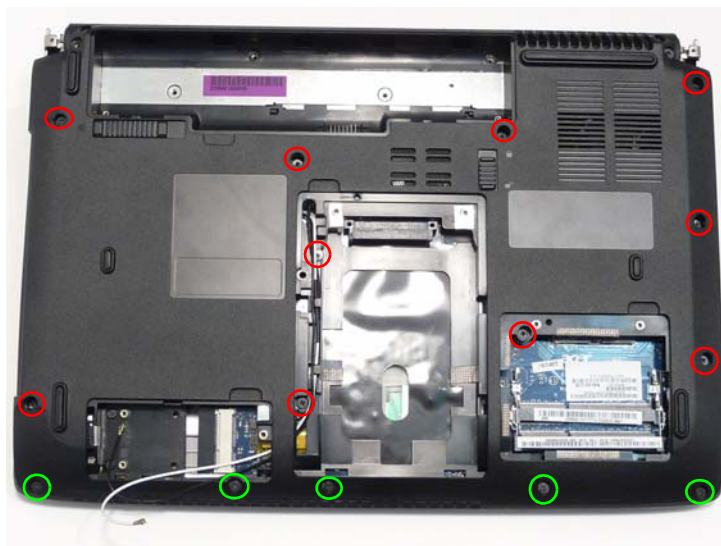
Replacing the LCD Module

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 (2) securing screws on the right hinge as shown.
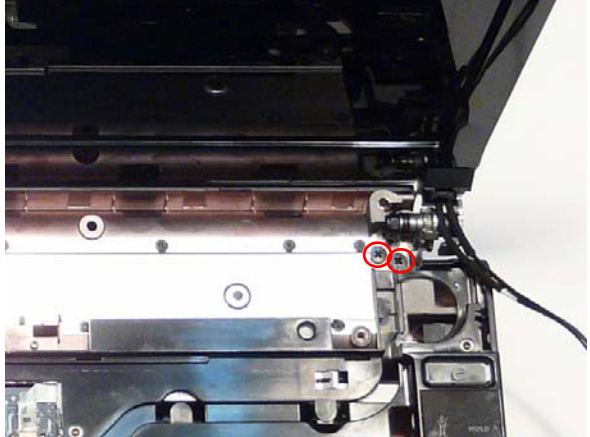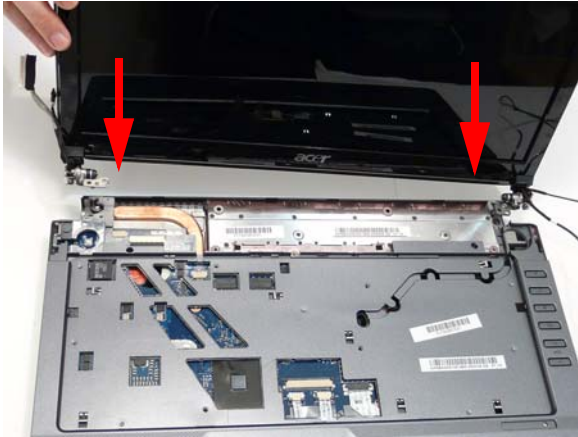
3. Replace the foil tab on the left hinge.

4. Replace the two (2) securing screws on the left hinge as shown.
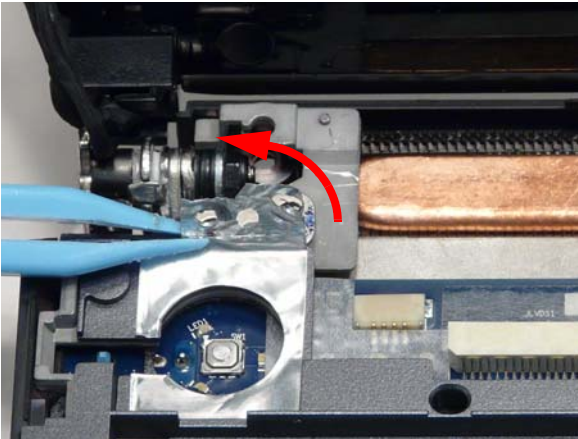
5. Reconnect the LCD cable to the Mainboard.
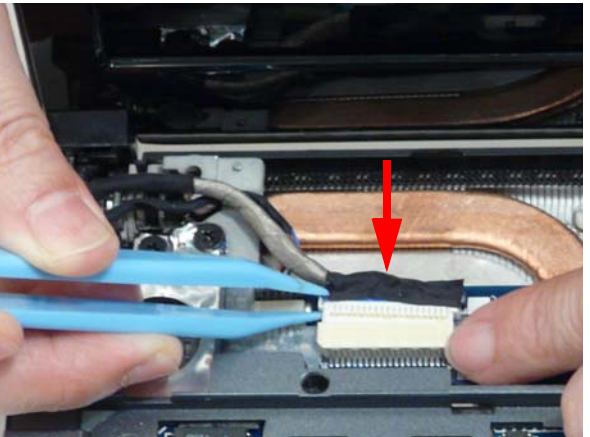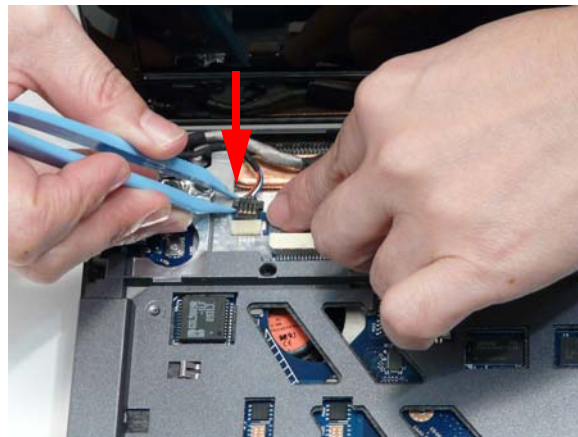
IMPORTANT: Run the cables as shown to avoid trapping when the Switch Cover is replaced.

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

7. 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 two (2) pieces of adhesive tape to secure the cables in place.
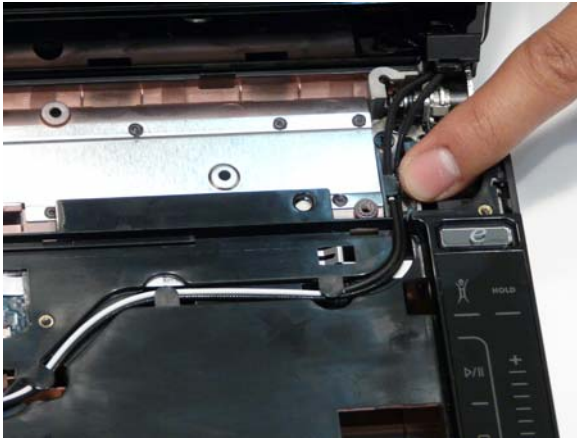
10. Run the Antenna cables along the cable channel as shown, using all the available cable clips.
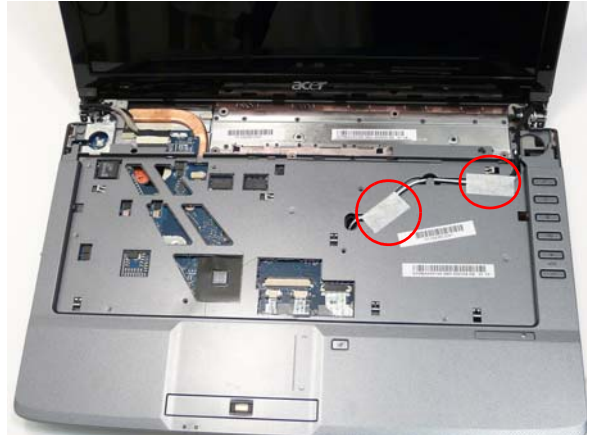
11. .Pull the Antenna through the casing into the WLAN bay as shown.

12. Replace the two (2) securing screws.
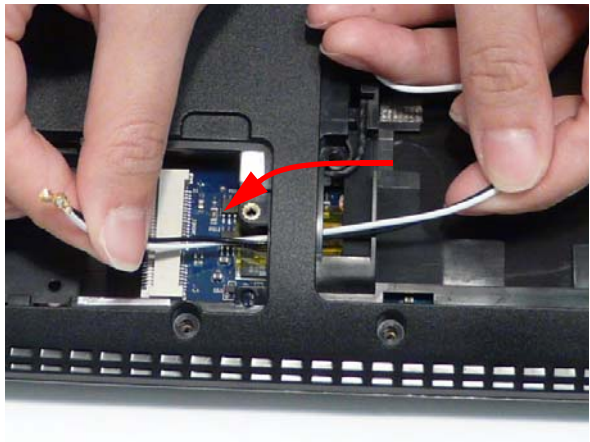
Replacing the Speaker Module

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

IMPORTANT: Run the LCD cables over the Speaker Module as shown to avoid trapping when the Switch Cover is replaced.
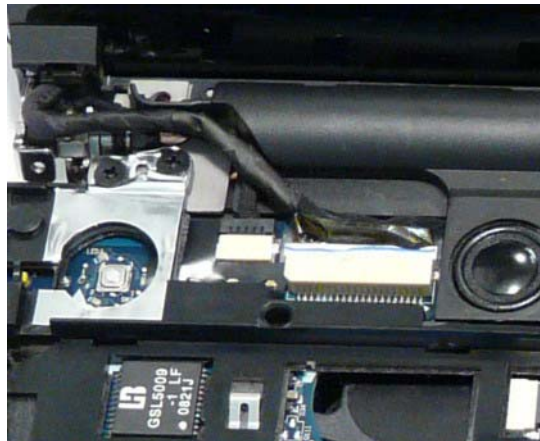
2. Reconnect the Speaker cable.
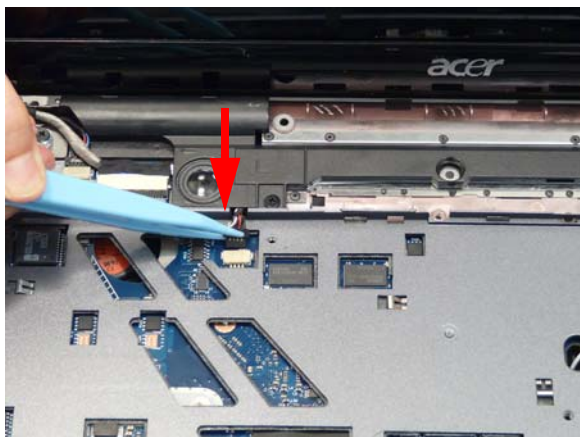
3. Replace the adhesive tape to secure the LCD cables in place.

4. Replace the two (2) securing screws as shown.
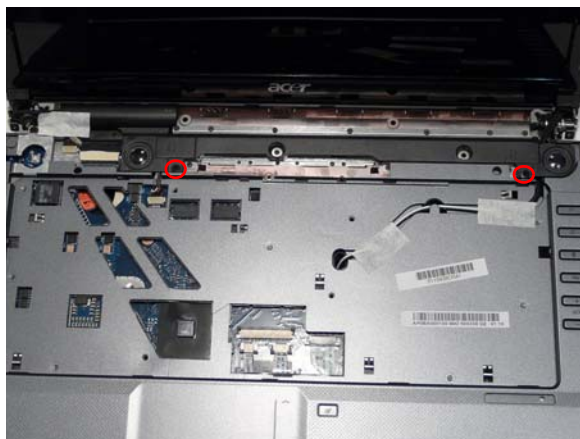
Replacing the Keyboard

1. Place the Keyboard on the Upper Cover, face up and reconnect the FFC cable to the Mainboard.

2. Insert the Keyboard, front edge first, into the Upper Cover as shown. Ensure that the five (5) tabs are correctly seated.

3. Press down both sides of the keyboard to locate it correctly.

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 (6) securing screws as shown.
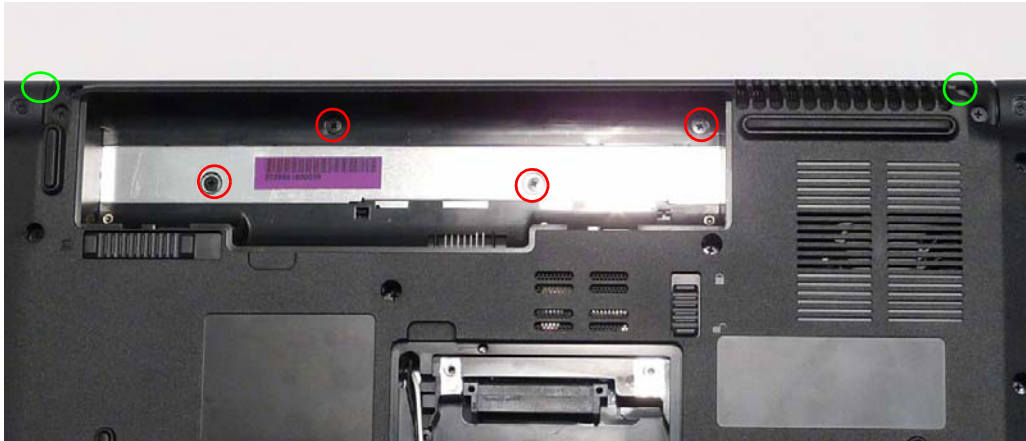
Replacing the Hinge Covers

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 (2) securing screws and caps.

Replacing the ODD Module

1. Align the ODD Bezel as shown and press it into place. Close the ODD drawer.
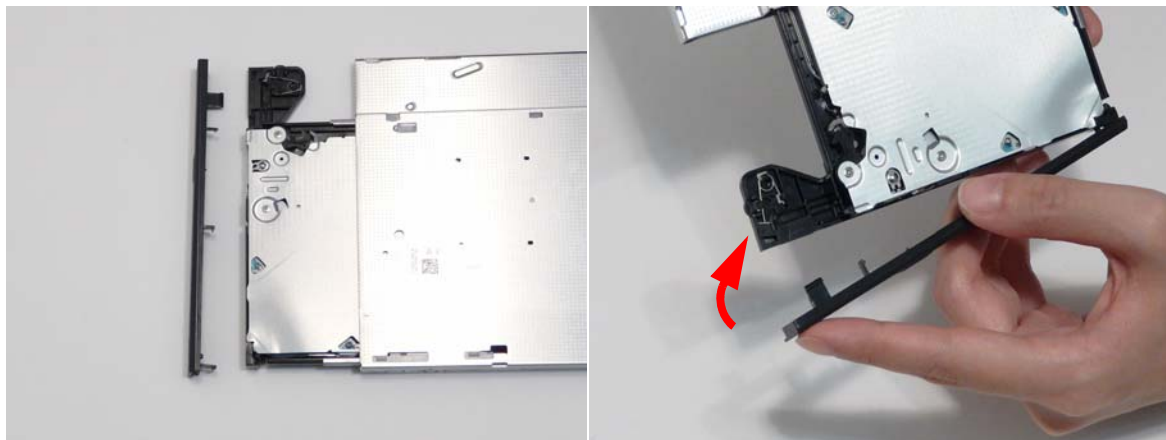
2. Align the ODD Bracket as shown and replace the securing screws.

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

4. Replace the securing screw.

Replacing the Hard Disk Drive Module

1. Place the HDD carrier on the HDD.

2. Replace the four (4) securing screws (two each side).
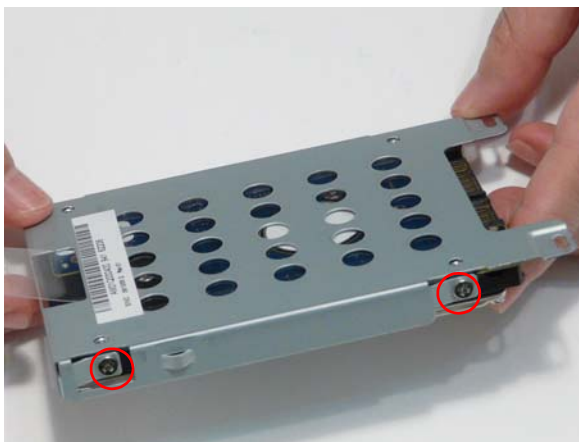
3. Place the HDD Module in the HDD bay as shown and slide it in the direction of the arrow to connect the interface.
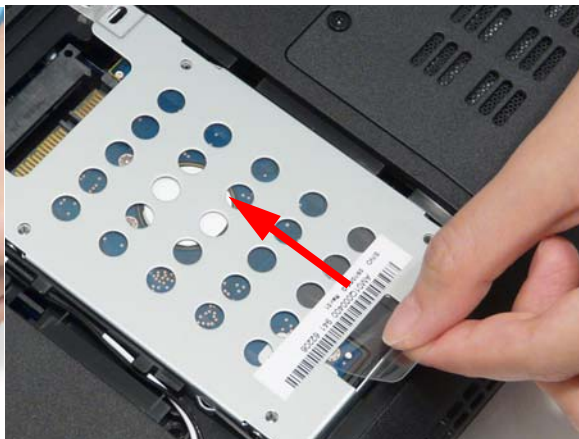
Replacing the DIMM Modules

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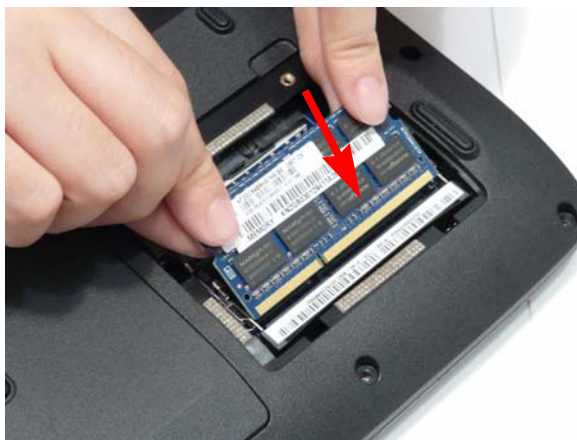
Replacing the WLAN Module

1. Insert the WLAN board into the WLAN socket.

2. Replace the two (2) screws to secure the module.
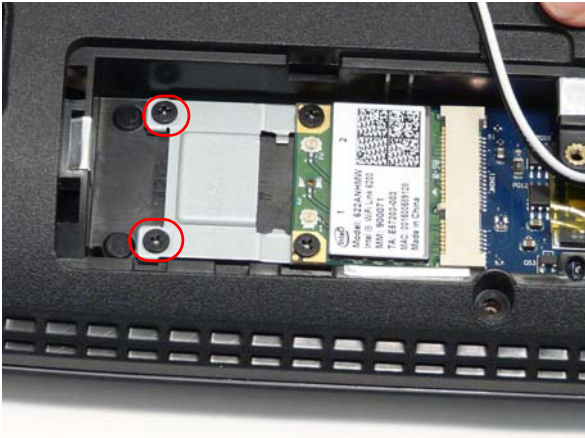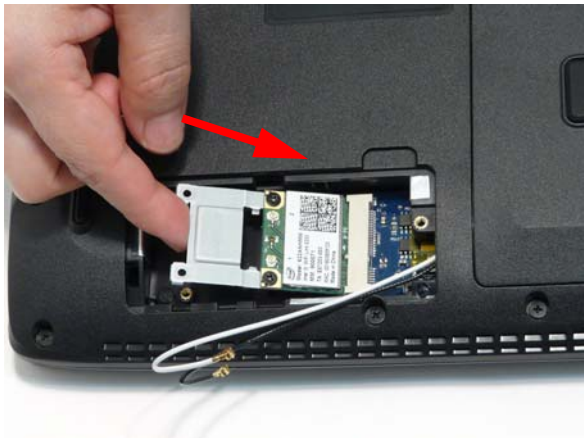
3. Connect the two (2) antenna cables to the module.

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.

HDD Cover

WLAN Cover

DIMM Cover
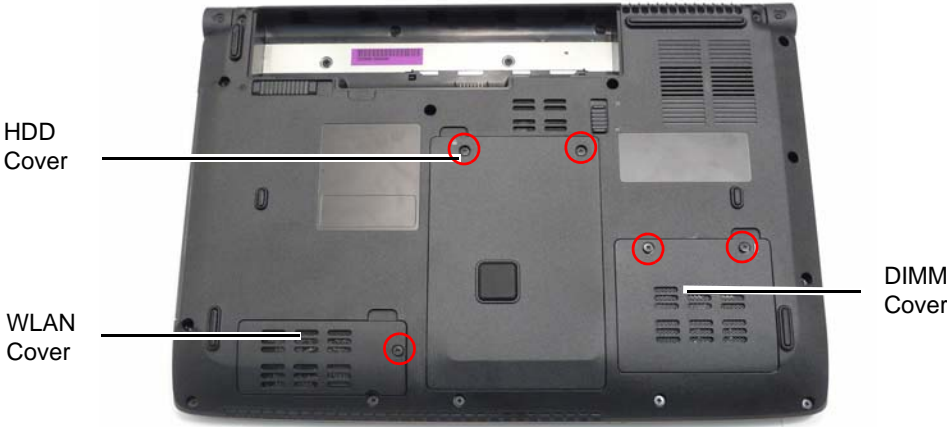
Replacing the SD Card Dummy Card

1. Push the SD dummy card into the slot until it is 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.
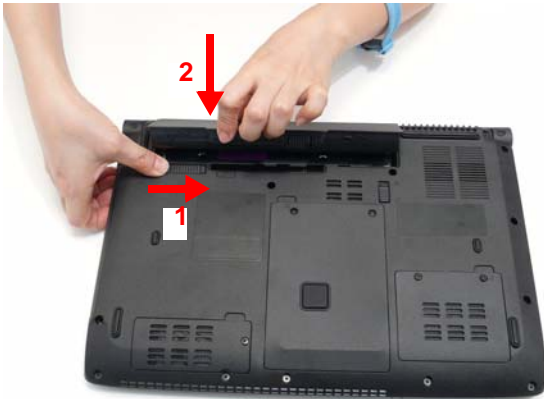
Troubleshooting

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 205.

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:
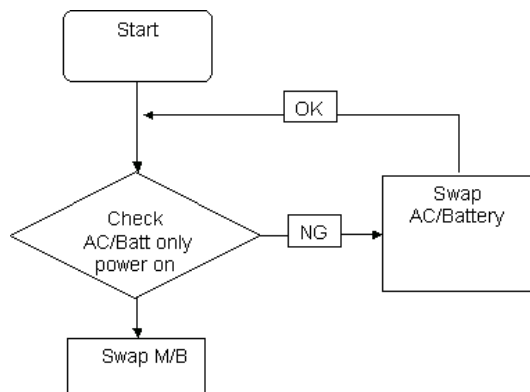
Computer Shutsdown Intermittently

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 205.

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:
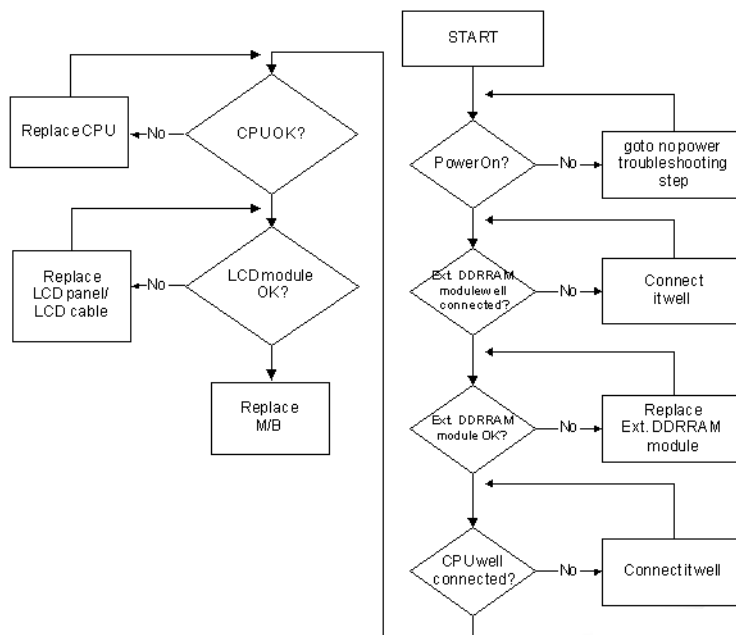
No POST or Video

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 48).

8. If the Issue is still not resolved, see "Online Support Information" on page 205.

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 48.

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 48.

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 48.

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 205.

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 205.

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 205.

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:
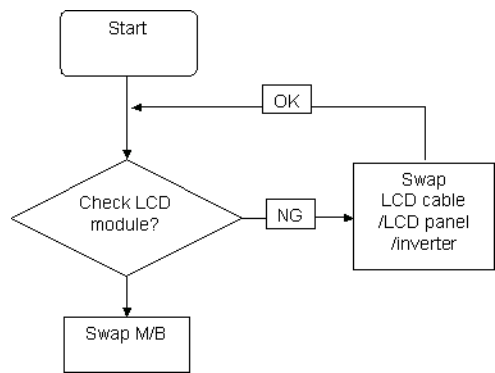
Built-In Keyboard Failure

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:
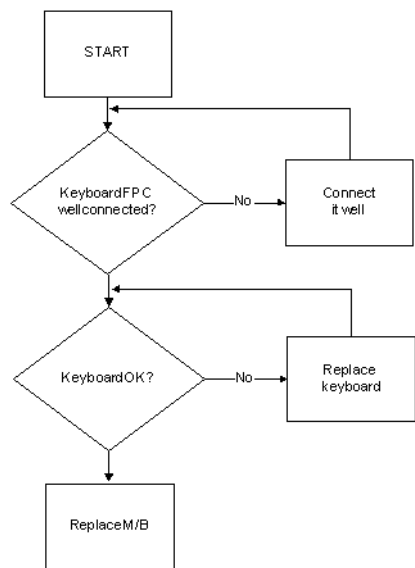
Touchpad Failure

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:
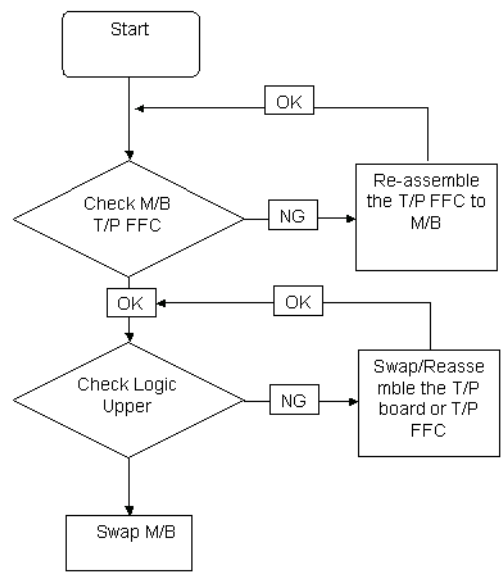
Internal Speaker Failure

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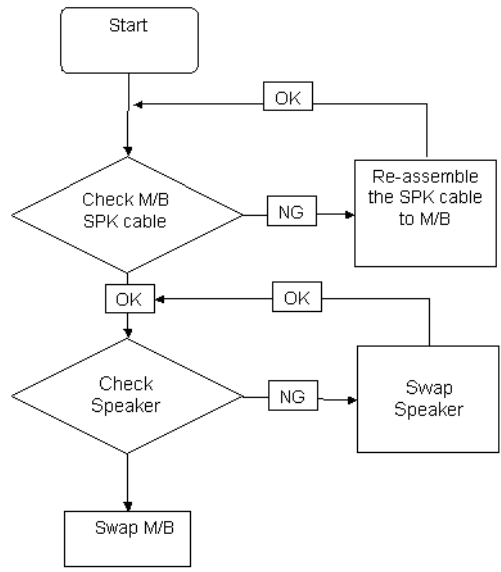
Sound Problems

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 205.

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:
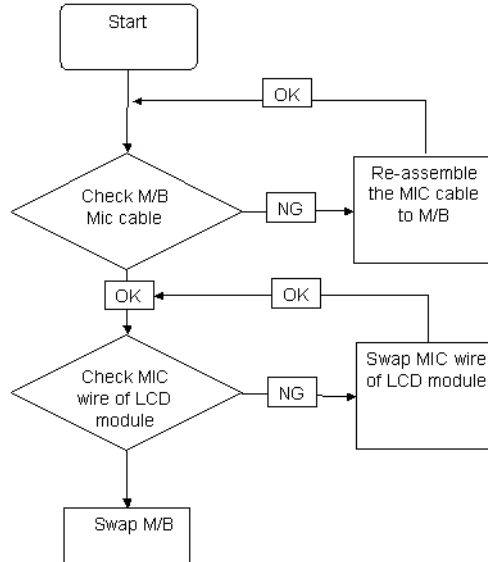
Microphone Problems

If internal or external **Microphones** do no 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 205.

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 48.

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:
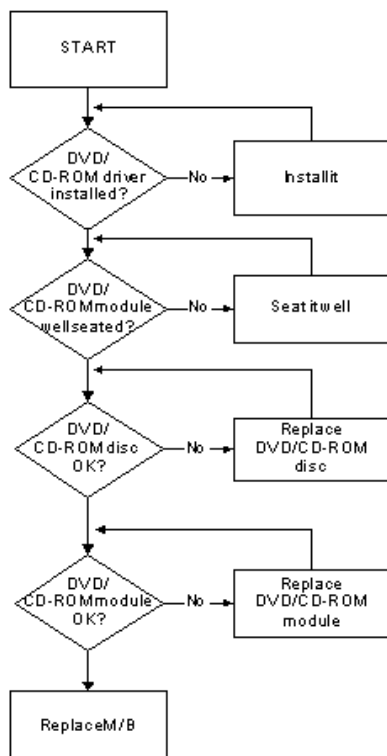
ODD Not Operating Correctly

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 18.

3. Turn off the power and remove the cover to inspect the connections to the ODD. See "Disassembly Process" on page 48.

   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 48.

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 48.

   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 48.

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:
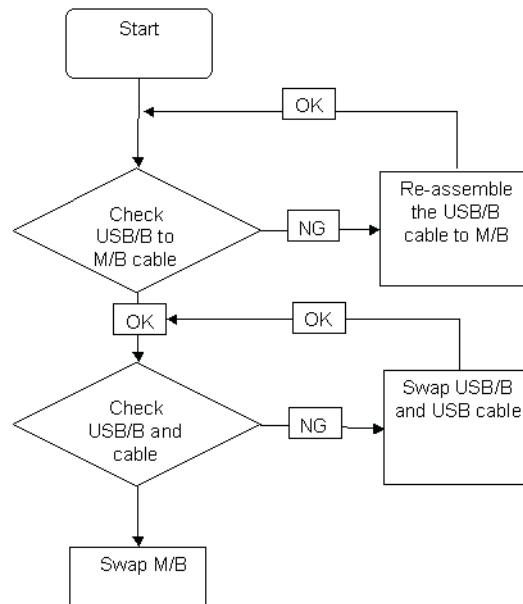
Modem Function Failure

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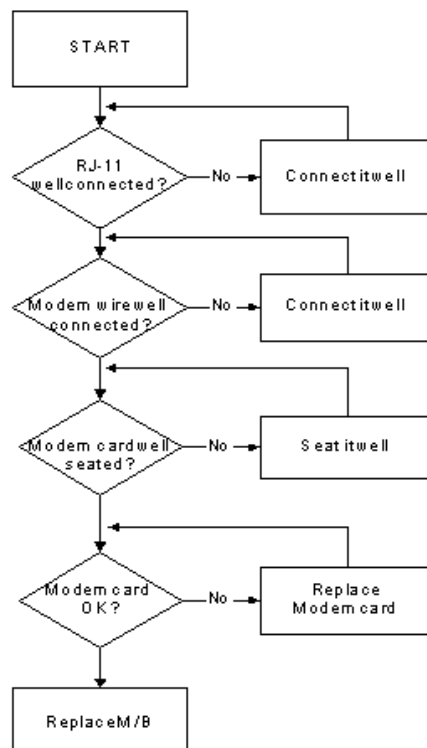
Wireless Function Failure

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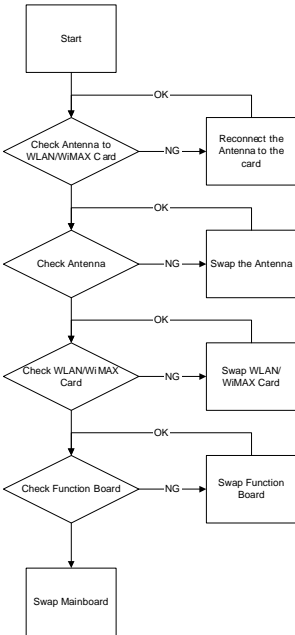
Bluetooth Function Failure

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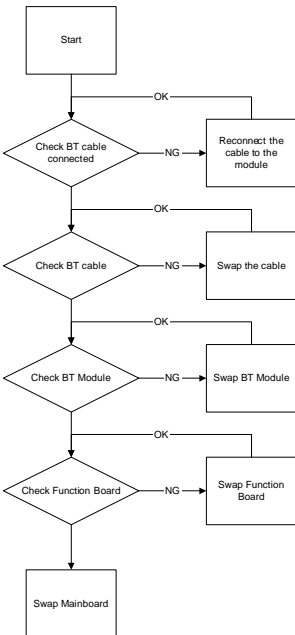
EasyTouch Button Failure

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:
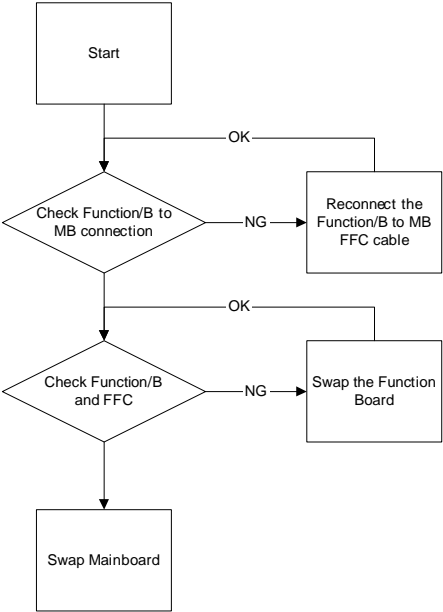
Media Board Failure

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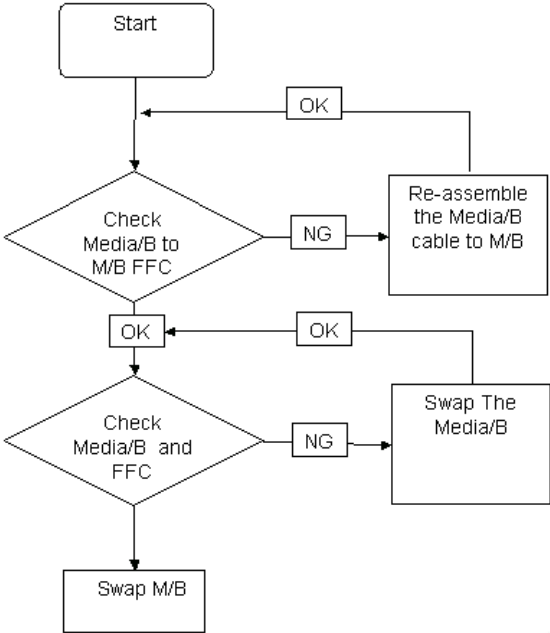
Fingerprint Reader Failure

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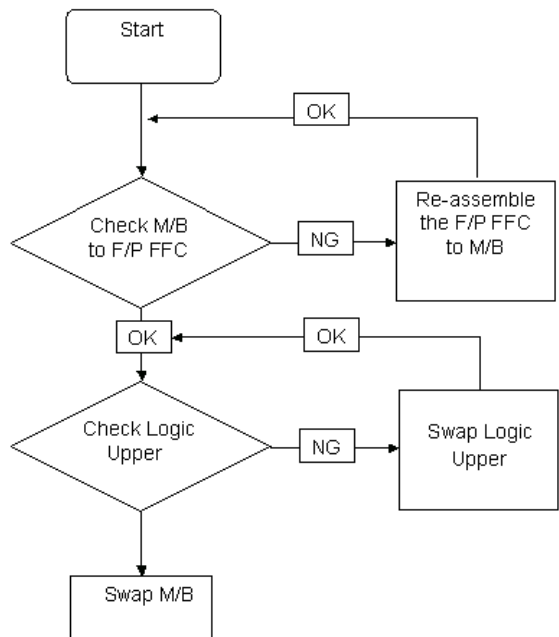
Thermal Unit Failure

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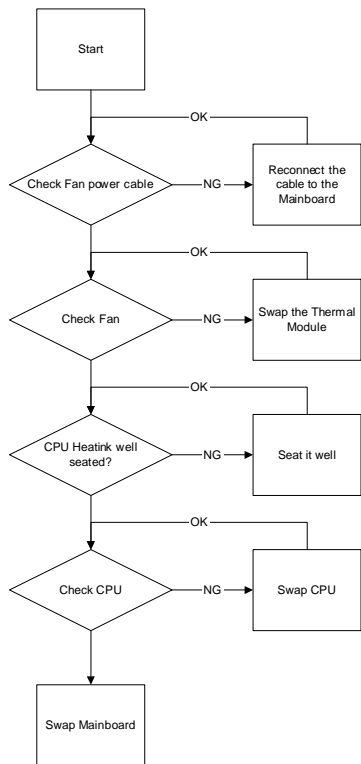
External Mouse Failure

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 205.

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

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

Post Code Range

Phase	POST Code Range
SEC	0x01 - 0x0F
PEI	0x70 - 0x9F
DXE	0x40 - 0x6F
BDS	0x10 - 0x3F
SMM	0xA0 - 0xBF
S3	0xC0 - 0xCF
ASL	0x51 – 0x55
	0xE1 – 0xE4
PostBDS	0xF9 – 0xFE
InsydeH2ODDT™ Reserve	0xD0 – 0xD7
OEM Reserve	0xE8 – 0xEB
Reserved	0xD8 – 0xE0
	0xE5 – 0xE7
	0xEC – 0xF8

SEC Phase POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
SEC_SYSTEM_POWER_ON	SEC	1	CPU power on and switch to Protected mode
SEC_BEFORE_MICROCODE_PATCH	SEC	2	Patching CPU microcode
SEC_AFTER_MICROCODE_PATCH	SEC	3	Setup Cache as RAM
SEC_ACCESS_CSR	SEC	4	PCIE MMIO Base Address initial
SEC_GENERIC_MSRINIT	SEC	5	CPU Generic MSR initialization
SEC_CPU_SPEEDCFG	SEC	6	Setup CPU speed
SEC_SETUP_CAR_OK	SEC	7	Cache as RAM test
SEC_FORCE_MAX_RATIO	SEC	8	Tune CPU frequency ratio to maximum level
SEC_GO_TO_SECSTARTUP	SEC	9	Setup BIOS ROM cache
SEC_GO_TO_PEICORE	SEC	0A	Enter Boot Firmware Volume

NOTE: The color bar items indicate 3rd party related functions that are platorm dependent.

PEI Phase POST Code Table:

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
PEI_SIO_INIT	PEI	70	Super I/O Initialization
PEI_CPU_REG_INIT	PEI	71	CPU Early Initialization
PEI_CPU_AP_INIT	PEI	72	Multi-processor Early Initial
PEI_CPU_HT_RESET	PEI	73	HyperTransport Initialization
PEI_PCIE_MMIO_INIT	PEI	74	PCIE MMIO BAR Initialization
PEI_NB_REG_INIT	PEI	75	North Bridge Early Initialization
PEI_SB_REG_INIT	PEI	76	South Bridge Early Initialization
PEI_PCIE_TRAINING	PEI	77	PCIE Training
PEI_TPM_INIT	PEI	78	TPM Initialization
PEI_SMBUS_INIT	PEI	79	SMBUS Early Initialization
PEI_PROGRAM_CLOCK_GEN	PEI	7A	Clock Generator Initialization
PEI_IGD_EARLY_INITIAL	PEI	7B	Internal Graphic device early Initialization
PEI_HECI_INIT	PEI	7C	HECI Initialization
PEI_WATCHDOG_INIT	PEI	7D	Watchdog timer Initialization
PEI_MEMORY_INIT	PEI	7E	Memory Initial for Normal boot.
PEI_MEMORY_INIT_FOR_CRISIS	PEI	7F	Memory Initial for Crisis Recovery
PEI_MEMORY_INSTALL	PEI	80	Simple Memory test
PEI_TXTPEI	PEI	81	TXT function early Initialization
PEI_SWITCH_STACK	PEI	82	Start to use Memory
PEI_MEMORY_CALLBACK	PEI	83	Set cache for physical memory
PEI_ENTER_RECOVERY_MODE	PEI	84	Recovery device Initialization
PEI_RECOVERY_MEDIA_FOUND	PEI	85	Found Recovery image
PEI_RECOVERY_MEDIA_NOT_FOUND	PEI	86	Recovery image not found
PEI_RECOVERY_LOAD_FILE_DONE	PEI	87	Load Recovery Image completed
PEI_RECOVERY_START_FLASH	PEI	88	Start Flash BIOS with Recovery image
PEI_ENTER_DXEIPL	PEI	89	Loading BIOS image to RAM
PEI_FINDING_DXE_CORE	PEI	8A	Loading DXE core
PEI_GO_TO_DXE_CORE	PEI	8B	Enter DXE core

NOTE: The color bar items indicate 3rd party related functions that are platorm dependent.

DXE Phase POST Code Table:

Functionality Name (Include\ PostCode.h)	Phase	PostCode	Description
DXE_TCGDXE	DXE	40	TPM initial in DXE
DXE_SB_SPI_INIT	DXE	41	South bridge SPI initialization
DXE_CF9_RESET	DXE	42	Setup Reset service
DXE_SB_SERIAL_GPIO_INIT	DXE	43	South bridge Serial GPIO initialization
DXE_SMMACCESS	DXE	44	Setup SMM ACCE SS service
DXE_NB_INIT	DXE	45	North bridge Middle initialization
DXE_SIO_INIT	DXE	46	Super I/O DXE initialization
DXE_LEGACY_REGION	DXE	47	Setup Legacy Region service
DXE_SB_INIT	DXE	48	South Bridge Middle initialization
DXE_IDENTIFY_FLASH_DEVICE	DXE	49	Identify Flash device
DXE_FTW_INIT	DXE	4A	Fault Tolerant Write verification
DXE_VARIABLE_INIT	DXE	4B	Variable Service initialization
DXE_VARIABLE_INIT_FAIL	DXE	4C	Fail to initial Variable Service
DXE_MTC_INIT	DXE	4D	MTC Initial
DXE_CPU_INIT	DXE	4E	CPU Middle Initialization
DXE_MP_CPU_INIT	DXE	4F	Multi-processor MiddleInitialization
DXE_SMBUS_INIT	DXE	50	SMBUS Driver Initialization
DXE_SMART_TIMER_INIT	DXE	51	8259 Initialization
DXE_PCRTC_INIT	DXE	52	RTC Initialization
DXE_SATA_INIT	DXE	53	SATA Controller earlyInitialization
DXE_SMM_CONTROLER_INIT	DXE	54	Setup SMM Control service
DXE_LEGACY_INTERRUPT	DXE	55	Setup Legacy Interrupt service
DXE_RELOCATE_SMBASE	DXE	56	Relocate SMM BASE
DXE_FIRST_SMI	DXE	57	SMI test
DXE_VTD_INIT	DXE	58	VTD Initial
DXE_BEFORE_CSM16_INIT	DXE	59	Legacy BIOS Initialization
DXE_AFTER_CSM16_INIT	DXE	5A	Legacy interrupt function Initialization
DXE_LOAD_ACPI_TABLE	DXE	5B	ACPI Table Initialization
DXE_SB_DISPATCH	DXE	5C	Setup SB SMM Dispatcher service
DXE_SB_IOTRAP_INIT	DXE	5D	Setup SB IOTRAP Service
DXE_SUBCLASS_DRIVER	DXE	5E	Build AMT Table
DXE_PPM_INIT	DXE	5F	PPM Initialization
DXE_HECIDRV_INIT	DXE	60	HECIDRV Initialization

NOTE: The color bar items indicate 3rd party related functions that are platorm dependent.

BDS Phase POST Code Table:

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
BDS_ENTER_BDS	BDS	10	Enter BDS entry
BDS_INSTALL_HOTKEY	BDS	11	Install Hotkey service
BDS_ASF_INIT	BDS	12	ASF Initialization
BDS_PCI_ENUMERATION_START	BDS	13	PCI enumeration
BDS_BEFORE_PCIIO_INSTALL	BDS	14	PCI resource assign complete
BDS_PCI_ENUMERATION_END	BDS	15	PCI enumeration complete
BDS_CONNECT_CONSOLE_IN	BDS	16	Keyboard Controller, Keyboard and Mouse initialization
BDS_CONNECT_CONSOLE_OUT	BDS	17	Video device initialization
BDS_CONNECT_STD_ERR	BDS	18	Error report device initialization
BDS_CONNECT_USB_HC	BDS	19	USB host controller initialization
BDS_CONNECT_USB_BUS	BDS	1A	USB BUS driver initialization
BDS_CONNECT_USB_DEVICE	BDS	1B	USB device driver initialization
BDS_NO_CONSOLE_ACTION	BDS	1C	Console device initial fail
BDS_DISPLAY_LOGO_SYSTEM_INFO	BDS	1D	Display logo or system information
BDS_START_IDE_CONTROLLER	BDS	1E	IDE controller initialization
BDS_START_SATA_CONTROLLER	BDS	1F	SATA controller initialization
BDS_START_ISA_ACPI_CONTROLLER	BDS	20	SIO controller initialization
BDS_START_ISA_BUS	BDS	21	ISA BUS driver initialization
BDS_START_ISA_FDD	BDS	22	Floppy device initialization
BDS_START_ISA_SEIRAL	BDS	23	Serial device initialization
BDS_START_IDE_BUS	BDS	24	IDE device initialization
BDS_START_AHCI_BUS	BDS	25	AHCI device initialization
BDS_CONNECT_LEGACY_ROM	BDS	26	Dispatch option ROMs
BDS_ENUMERATE_ALL_BOOT_OPTION	BDS	27	Get boot device information
BDS_END_OF_BOOT_SELECTION	BDS	28	End of boot selection
BDS_ENTER_SETUP	BDS	29	Enter Setup Menu
BDS_ENTER_BOOT_MANAGER	BDS	2A	Enter Boot manager
BDS_BOOT_DEVICE_SELECT	BDS	2B	Try to boot system to OS
BDS_EFI64_SHADOW_ALL_LEGACY_ROM	BDS	2C	Shadow Misc Option ROM
BDS_ACPI_S3SAVE	BDS	2D	Save S3 resume required data in RAM
BDS_READY_TO_BOOT_EVENT	BDS	2E	Last Chipset initial before boot to OS
BDS_GO_LEGACY_BOOT	BDS	2F	Start to boot Legacy OS
BDS_GO_UEFI_BOOT	BDS	30	Start to boot UEFI OS
BDS_LEGACY16_PREPARE_TO_BOOT	BDS	31	Prepare to Boot to Legacy OS
BDS_EXIT_BOOT_SERVICES	BDS	32	Send END of POST Message to ME via HECI
BDS_LEGACY_BOOT_EVENT	BDS	33	Last Chipset initial before boot to Legacy OS.
BDS_ENTER_LEGACY_16_BOOT	BDS	34	Ready to Boot Legacy OS.
BDS_RECOVERY_START_FLASH	BDS	35	Fast Recovery Start Flash.

NOTE: The color bar items indicate 3rd party related functions that are platorm dependent.

PostBDS POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
POST_BDS_NO_BOOT_DEVICE	POST _BDS	F9	No Boot Device
POST_BDS_START_IMAGE	POST _BDS	FB	UEFI Boot Start Image
POST_BDS_ENTER_INT19	POST _BDS	FD	Legacy 16 boot entry
POST_BDS_JUMP_BOOT_SECTOR	POST _BDS	FE	Try to Boot with INT 19

S3 Functions POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
POST_BDS_NO_BOOT_DEVICE	POST _BDS	F9	No Boot Device
POST_BDS_START_IMAGE	POST _BDS	FB	UEFI Boot Start Image
POST_BDS_ENTER_INT19	POST _BDS	FD	Legacy 16 boot entry
POST_BDS_JUMP_BOOT_SECTOR	POST _BDS	FE	Try to Boot with INT 19

ACPI Functions POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
ASL_ENTER_S1	ASL	51	Prepare to enter S1
ASL_ENTER_S3	ASL	53	Prepare to enter S3
ASL_ENTER_S4	ASL	54	Prepare to enter S4
ASL_ENTER_S5	ASL	55	Prepare to enter S5
ASL_WAKEUP_S1	ASL	E1	System wakeup from S1
ASL_WAKEUP_S3	ASL	E3	System wakeup from S3
ASL_WAKEUP_S4	ASL	E4	System wakeup from S4

SMM Functions POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
SMM_IDENTIFY_FLASH_DEVICE	SMM	0xA0	Identify Flash device in SMM
SMM_SMM_PLATFORM_INIT	SMM	0xA2	SMM service initial
SMM_ACPI_ENABLE_START	SMM	0xA6	OS call ACPI enable function
SMM_ACPI_ENABLE_END	SMM	0xA7	ACPI enable function complete
SMM_S1_SLEEP_CALLBACK	SMM	0xA1	Enter S1
SMM_S3_SLEEP_CALLBACK	SMM	0xA3	Enter S3

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
SMM_S4_SLEEP_CALLBACK	SMM	0xA4	Enter S4
SMM_S5_SLEEP_CALLBACK	SMM	0xA5	Enter S5
SMM_ACPI_DISABLE_START	SMM	0xA8	OS call ACPI disable function
SMM_ACPI_DISABLE_END	SMM	0xA9	ACPI disable function complete

InsydeH2ODDT Debugger POST Code Table

Functionality Name (Include\ PostCode.h)	PostCode	Description
Used by Insyde debugger	0x0D	Waiting for device connect
Used by Insyde debugger	0xD0	Waiting for device connect
Used by Insyde debugger	0xD1	InsydeH2ODDT Ready
Used by Insyde debugger	0xD2	EHCI not found
Used by Insyde debugger	0xD3	Debug port connect low speed device
Used by Insyde debugger	0xD4	DDT Cable become low speed device
Used by Insyde debugger	0xD5	DDT Cable Transmission Error (Get descriptor fail)
Used by Insyde debugger	0xD6	DDT Cable Transmission Error (Set Debug mode fail)
Used by Insyde debugger	0xD7	DDT Cable Transmission Error (Set address fail)

Jumper and Connector Locations

Top View
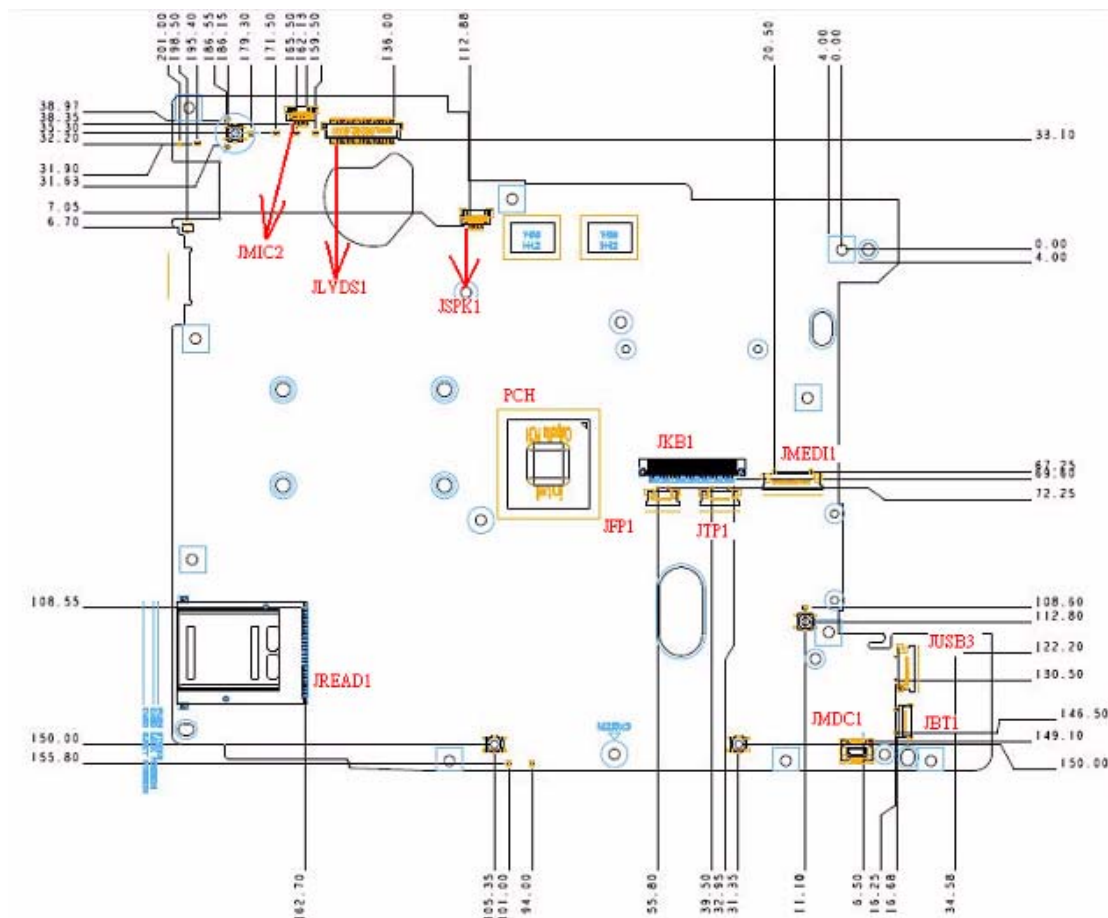
Item	Pin	Description
1	JMIC2	Internal Mic
2	JLVDS1	LVDS Connector
3	JSPK1	Internal Speaker
4	JREAD1	Card Reader Connector
5	JKB1	Keyboard Connector
6	JFP1	Finger Print Connector
7	JTP1	Touch Pad Connector
8	JMEDI1	Fun/B Connector
9	JMDC1	Modem Connector
10	JUSB3	USB/B Connector
11	JBT1	Bluetooth Connector

Bottom View
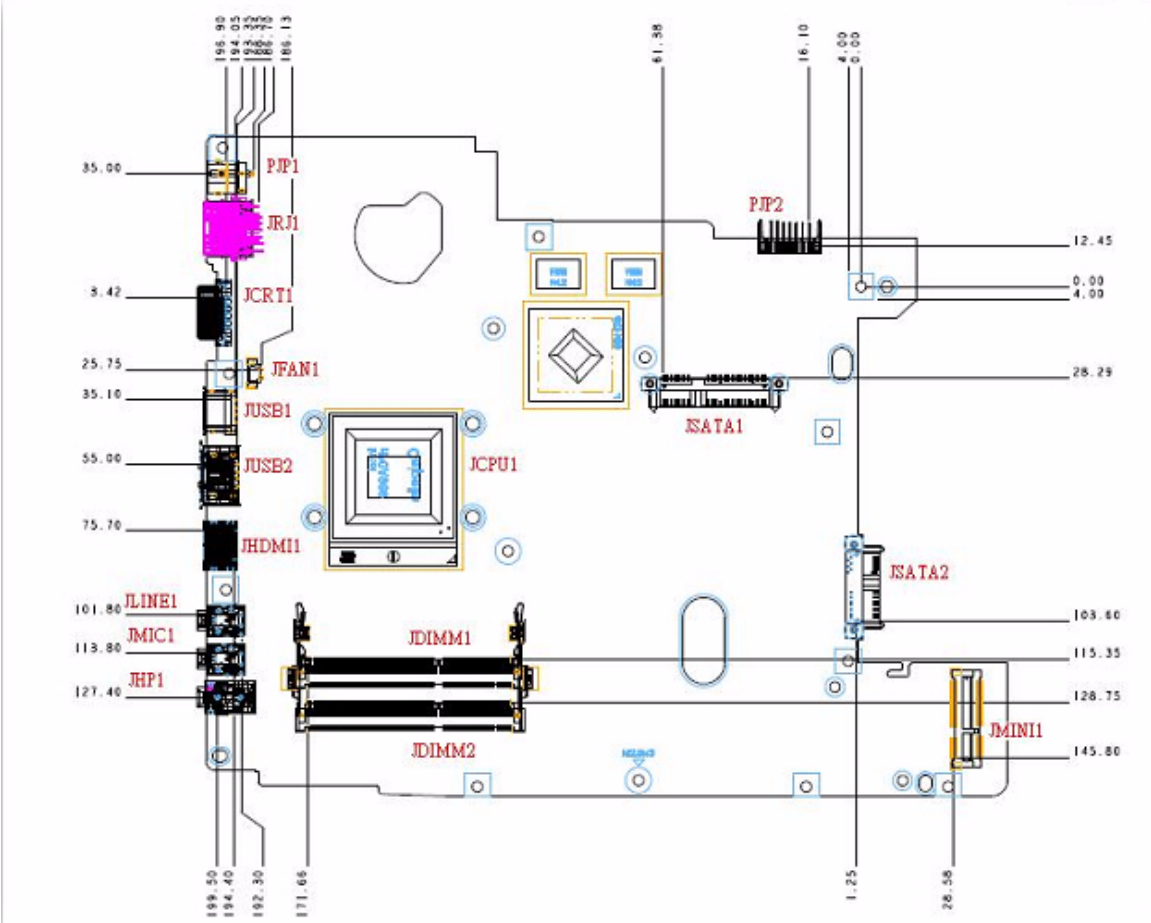
Item	Pin	Description
1	PJP1	DC IN Connector
2	JRJ1	Lan Connector
3	JCRT1	CRT Connector
4	JFAN1	Fan Connector
5	JUSB1	USB Connector
6	JUSB2	USB Connector
7	JHDMI1	HDMI Connector
8	JLINE1	Line In Connector
9	JMIC1	External Mic Connector
10	JHP1	Head Phone Connector
11	JCPU1	Cpu Socket Connector
12	JDIMM1	DRAM Socket Connector
13	JDIMM2	DRAM Socket Connector
14	PJP2	Battery Charger Connector
15	JSATA1	HDD Connector
16	JSATA2	ODD Connector
17	JMINI1	Mini Card Connector

Clearing Password Check and BIOS Recovery

This section provide you the standard operating procedures of clearing password and BIOS recovery for Aspire 4740 Series. Aspire 4740 Series 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
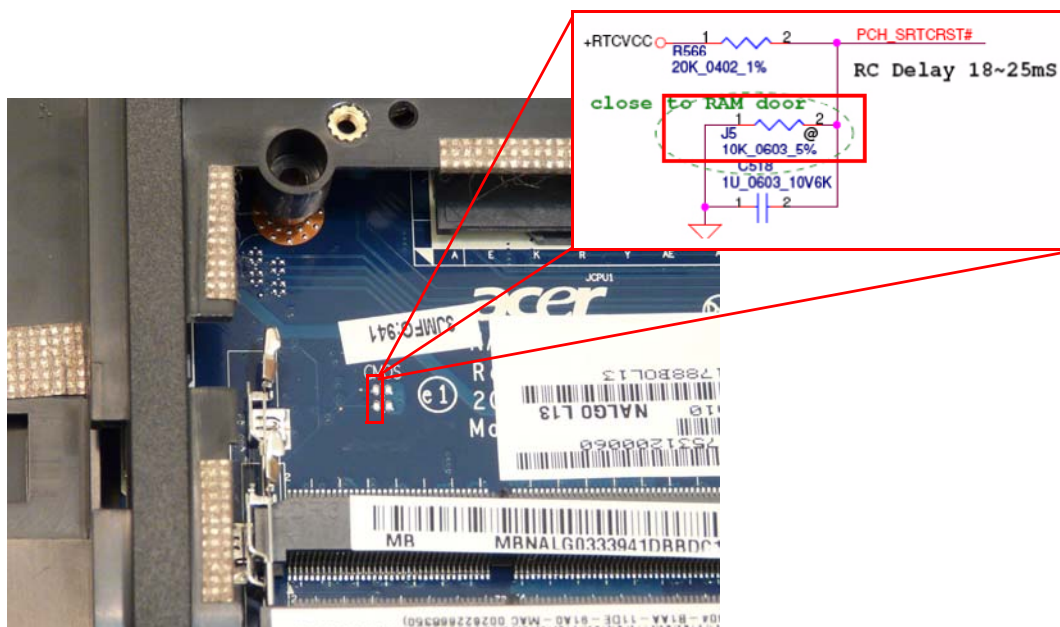
Steps for Clearing BIOS Password Check

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 7 OS.

Follow the steps below:

1. Power Off failed system.
2. Attach a USB floppy drive to the failed system.
3. Insert the Crisis Disk in to the USB floppy drive attached to the BIOS flash failed system.
4. In the power-off state, press and hold **Fn+Esc** then press the Power button.

   The system powers on and the Crisis BIOS Recovery process begins.

   BIOS Boot Block begins restoring the BIOS code from the Crisis floppy disk to BIOS ROM on the failed systems.

   When the Crisis flash process is finished, the system restarts with a workable BIOS.
5. 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 4740/4740G. 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 4740/4740G Exploded Diagrams

Main Module
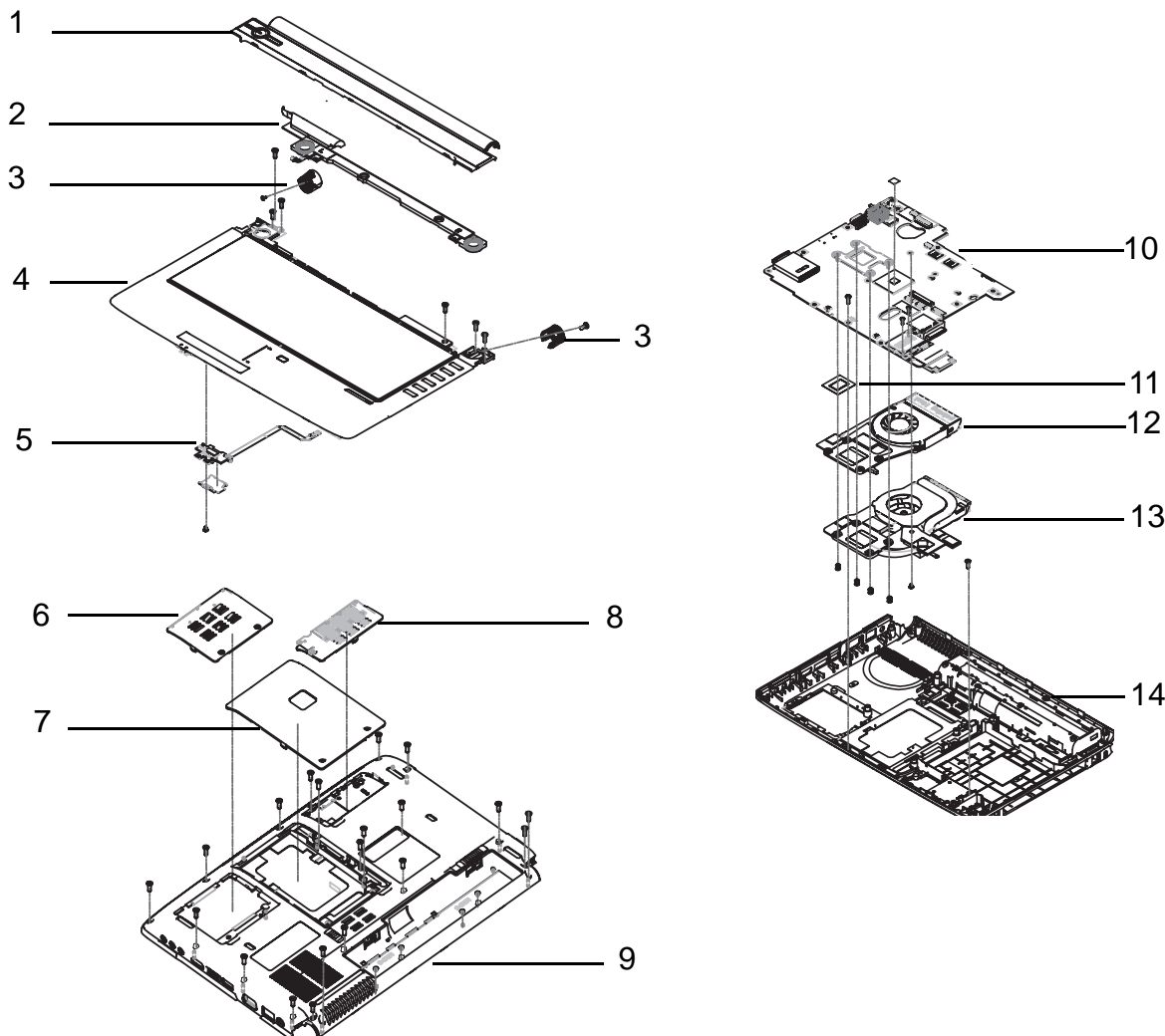
Item	Description	Part No.	Item	Description	Part No.
1	Middle Cover	60.PAA02.004	8	Mini Door	42.PAA02.001
2	Speaker	23.PAA02.002	9	Lower Case	60.PLR02.002
3	Hinge Cap Left	42.PAA02.004	10	Mainboard	MB.PMJ02.001
	Hinge Cap Right	42.PAA02.005	11	CPU	KC.52001.DMP
4	Upper Case	60.PLQ02.001	12	Thermal Module UMA	60.PLR02.003
5	Finger Print Reader	55.PLQ02.001	13	Thermal Module DIS	60.PLR02.004
6	Memory Door	42.PLR02.001	14	Lower Case	60.PLR02.002
7	HDD Door	42.PLR02.002			

Aspire 4740/4740G FRU List

Category	Description	Acer P/N
ADAPTER		
	ADAPTER DELTA 65W 19V 1.7X5.5X11 YELLOW ADP-65JH DB A, LV5 LED LF	AP.06501.026
	ADAPTER LITE-ON 65W 19V 1.7X5.5X11 YELLOW PA-1650-22AC LV5 LED LF	AP.06503.024
	ADAPTER HIPRO 65W 19V 1.7X5.5X11 YELLOW HP-A0652R3B 1LF, LV5 LED LF	AP.0650A.012
	Adapter DELTA 90W 19V 1.7x5.5x11 Blue ADP-90CD DB A, LV5 LED LF	AP.09001.027
	Adapter LITE-ON 90W 19V 1.7x5.5x11 Blue PA-1900-34AR, LV5 LED LF	AP.09003.021
	Adapter HIPRO 90W 19V 1.7x5.5x11 Blue HP-A0904A3 B1LF, LV5 LED LF	AP.0900A.005
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
CPU/PROCESSOR		
	CPU INTEL CORE I5 520M 2.4G 3M	KC.52001.DMP
	CPU INTEL CORE I5 540M 2.53G 3M	KC.54001.DMP
	CPU INTEL CORE I7 620M PGA 2.66G 4M	KC.62001.DMP
	CPU INTEL CORE I7 DUMMY CFD/ARD	KC.CLK01.001
HDD/HARD DISK DRIVE		
	HDD SEAGATE 2.5" 5400rpm 160GB ST9160314AS Wyatt SATA LF F/W:0001SDM1	KH.16001.042
	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-22ZCTO ML160 SATA LF F/W:11.01A11	KH.16008.022
	HDD SEAGATE 2.5" 5400RPM 250GB ST9250315AS WYATT SATA LF F/W:0001SDM1	KH.25001.016

Category	Description	Acer P/N
	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 SEAGATE 2.5" 5400rpm 320GB ST9320325AS Wyatt SATA LF F/W:0001SDM1	KH.32001.017
	HDD TOSHIBA 2.5" 5400rpm 320GB MK3263GSX SATA 8MB 68P LF F/W:FG020J	KH.32004.003
	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 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
	HDD HGST 2.5" 5400RPM 500GB HTS545050B9A300 PANTHER B SATA LF F/W:C60F	KH.50007.009
	HDD WD 2.5" 5400RPM 500GB WD5000BEVT-22ZAT0 ML250 SATA LF F/W:01.01A01	KH.50008.013
MEMORY		
	Memory NANYA SO-DIMM DDRIII 1066 1GB NT1GC64BH8A1PS-BE LF 64*16 0.07um	KN.1GB03.031
	Memory KINGSTON SO-DIMM DDRIII 1066 1GB ACR128X64D3S1066C7 LF 128*8 0.07um	KN.1GB07.001
	Memory ELPIDA SO-DIMM DDRIII 1066 1GB EBJ10UE8BDS0-AE-F LF 128*8 0.065um	KN.1GB09.012
	MEMORY SAMSUNG SO-DIMM DDRIII 1066 1GB M471B2873EH1-CF8 LF 64*16 0.055UM	KN.1GB0B.028
	Memory HYNIX SO-DIMM DDRIII 1066 1GB HMT112S6BFR6C-G7 N0 LF 64*16 0.055um	KN.1GB0G.025
	Memory NANYA SO-DIMM DDRIII 1066 2GB NT2GC64B8HA1NS-BE LF 128*8 0.07um	KN.2GB03.012
	Memory KINGSTON SO-DIMM DDRIII 1066 2GB ACR256X64D3S1066C7 LF 128*8 0.07um	KN.2GB07.001
	Memory ELPIDA SO-DIMM DDRIII 1066 2GB EBJ21UE8BDS0-AE-F LF 128*8 0.065um	KN.2GB09.006
	MEMORY SAMSUNG SO-DIMM DDRIII 1066 2GB M471B5673EH1-CF8 LF 128*8 0.055UM	KN.2GB0B.012
	Memory A-DATA SO-DIMM DDRIII 1066 2GB HY7YG1B1674ZM LF 128*8 0.065um	KN.2GB0C.002
	Memory HYNIX SO-DIMM DDRIII 1066 2GB HMT125S6BFR8C-G7 N0 LF 128*8 0.055um	KN.2GB0G.014

Category	Description	Acer P/N
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, INCL MYLAR*2	55.PLR02.001
	FINGER PRINT BOARD W/FFC	55.PLQ02.001
	USB BOARD W/FFC	55.PLR02.002
	LAN INTEL WLAN 112BN.HMWG MM#903341	KI.CPH01.001
	LAN INTEL WLAN INT1000HBG	KI.CPH01.002
	LAN INTEL WLAN 622AN.HMWG	KI.PPH01.002
	LAN INTEL WLAN 633AN.HMWG	KI.PPH01.001
	FOXCONN WIRELESS LAN ATHEROS HB93 1X2 BGN (HM)	NI.23600.046
	LITEON WIRELESS LAN ATHERIS HB93 1X2 BGN (HM) WN6602AH	NI.23600.051
	FOXCONN WIRELSS LAN ATHEROS HB95 1X1 BG (HM)	NI.23600.047
	Foxconn Wireless LAN Broadcomm 43225 BGN (HM)	NI.23600.058
CABLE		
	BLUE TOOTH CABLE	50.PAA02.001
	TP FFC	50.PLR02.001
	RJ11 CABLE	50.PAA02.003

Category	Description	Acer P/N
	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 KOREA 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.PLQ02.001
	UPPER CASE ASSY W/O FP, INCL.TP/TP MYLAR	60.PLR02.001
	LOWER CASE	60.PLR02.002
	MINI DOOR	42.PAA02.001
	RAM DOOR	42.PLR02.001
	HDD DOOR	42.PLR02.002
	HINGE CAP L	42.PAA02.004
	HINGE CAP R	42.PAA02.005
	MINI CARD BRACKET_HALF - FOR 8 LAYERS MB	33.PAA02.003

Category	Description	Acer P/N
	MIDDLE COVER	60.PAA02.004
	TOUCHPAD BRACKET	33.PAA02.004
	FINGER PRINT BRACKET	33.PAA02.005
	HDD BRACKET - FOR 6 LAYERS MB	33.PG502.001
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

Category	Description	Acer P/N
	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
	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
DVD RW DRIVE		
	ODD SUPER-MULTI DRIVE MODULE	6M.PLR02.001
	ODD TOSHIBA Super-Multi DRIVE 12.7mm Tray DL 8X TS-L633C LF W/O bezel SATA (HF + Windows 7)	KU.00801.035
	ODD HLDS Super-Multi DRIVE 12.7mm Tray DL 8X GT30N LF W/O bezel SATA (HF + Windows 7)	KU.0080D.048
	ODD SONY Super-Multi DRIVE 12.7mm Tray DL 8X AD-7585H LF W/O bezel SATA (HF + Windows 7)	KU.0080E.027
	ODD PLDS Super-Multi DRIVE 12.7mm Tray DL 8X DS-8A4SH LF W/O bezel SATA (HF + Windows 7)	KU.0080F.006
	ODD BEZEL-SULPER MULTI	42.PAA02.006
	ODD BRACKET	33.PAA02.002

Category	Description	Acer P/N
BD COMBO DRIVE		
	ODD BD COMBO MODULE	6M.PLR02.00 2
	ODD HLDS BD COMBO 12.7mm Tray DL 4X CT21N LF W/O bezel 1.00 SATA (HF + Windows 7)	KO.0040D.00 4
	ODD SONY BD COMBO 12.7mm Tray DL 4X BC-5500S LF W/O bezel FW 1.E1 SATA (Windows 7)	KO.0040E.00 2
	ODD SONY BD COMBO 12.7mm Tray DL 4X BC-5500H LF W/O bezel SATA (HF + Windows 7)	KO.0040E.00 3
	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		
	ASSY LED LCD MODULE 14" WXGA GLARE W/ ANTENNA *2, CAMERA, IMR	6M.PLR02.00 3
	ASSY LED LCD MODULE 14" WXGA GLARE W/ ANTENNA *3, CAMERA, IMR	6M.PLR02.00 4
	ASSY LED LCD MODULE 14" WXGA GLARE W/ ANTENNA *2, IMR, W/O CCD	6M.PLS02.00 1
	ASSY LED LCD MODULE 14" WXGA GLARE W/ ANTENNA *3, IMR, W/O CCD	6M.PLS02.00 2
	LED LCD AUO 14" WXGA Glare B140XW01 V8 0A LF 220nit 8ms 500:1 (power saving)	LK.14005.010
	LED LCD SAMSUNG 14" WXGA Glare LTN140AT01-G03 LF 220nit 8ms 500:1	LK.14006.011
	LED LCD LPL 14" WXGA Glare LP140WH1-TLA2 LF 220nit 8ms 500:1	LK.14008.004
	LED LCD CMO 14" WXGA Glare N140B6-L02 C2 LF 220nit 8ms 400:1	LK.1400D.006
	LCD COVER IMR	60.PAA02.005
	ANTENNA MAIN (R -1X2)	50.PAA02.004
	ANTENNA AUX (L)	50.PAA02.005
	ANTENNA MIMO (R-3X3)	50.PAA02.006

Category	Description	Acer P/N
	LCD BEZEL W/CMOS	60.PAA02.006
	LCD BEZEL W/O CMOS	60.PAA02.007
	LVDS CABLE W/O CMOS	50.PBC02.001
	LVDS CABLE	50.PAA02.007
	LCD BRACKET R&L	33.PAA02.007
	CAMERA 0.3M	57.PAA02.001
	CAMERA BRACKET	33.PAA02.006
MAINBOARD		
	MAINBOARD AS4740 INTEL HM55 V1.0 LF	MB.PMJ02.001
	MAINBOARD AS4740G INTEL HM55 512M-GD3 V1.0 LF N11M-GE1	MB.PML02.001
HEATSINK		
	CPU THERMAL MODULE-UMA	60.PLR02.003
	CPU THERMAL MODULE-DIS	60.PLR02.004
SPEAKER		
	MIC SET W/CABLE	23.PAA02.001
	SPEAKER	23.PAA02.002
MISCELLANEOUS		
	NAME PLATE-AS4740	40.PLR02.002
	LCD SCREW MYLAR	47.PAA02.002
	LCD SCREW RUBBER	47.PAA02.003
	LCD SCREW RUBBER-MIDDLE	47.PAA02.004

Screw List

Category	Description	Acer P/N
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
	SCREW M2.5D 5.0L K 5.5D NI NL	86.PLR02.001

Model Definition and Configuration

Aspire 4740

RO	Country	Acer Part No	Description
AAP	Thailand	LX.PMH0C.037	AS4740-622G32Mi LINPUSATH3 UMACFbs 1*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_EN11
AAP	Thailand	LX.PMH0C.036	AS4740-622G32Mi LINPUSATH1 UMACFbs 1*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_TH51
AAP	Thailand	LX.PMH0C.035	AS4740-542G32Mi LINPUSATH3 UMACFbs 1*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_EN11
AAP	Thailand	LX.PMH0C.033	AS4740-522G32Mi LINPUSATH3 UMACFbs 1*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_EN11
AAP	Thailand	LX.PMH0C.034	AS4740-542G32Mi LINPUSATH1 UMACFbs 1*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_TH51
AAP	Thailand	LX.PMH0C.032	AS4740-522G32Mi LINPUSATH1 UMACFbs 1*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_TH51
AAP	Thailand	LX.PMH0C.031	AS4740-432G50Mi LINPUSATH3 UMACFbs 1*2G/500_L/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_EN11
AAP	Thailand	LX.PMH0C.030	AS4740-432G50Mi LINPUSATH1 UMACFbs 1*2G/500_L/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_TH51
AAP	Thailand	LX.PMH0C.029	AS4740-332G50Mi LINPUSATH3 UMACFbs 1*2G/500_L/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_EN11
AAP	Thailand	LX.PMH0C.028	AS4740-332G50Mi LINPUSATH1 UMACFbs 1*2G/500_L/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_TH51
AAP	Thailand	LX.PMH0C.027	AS4740-352G50Mi LINPUSATH3 UMACFbs 1*2G/500_L/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_EN11
AAP	Thailand	LX.PMH0C.026	AS4740-352G50Mi LINPUSATH1 UMACFbs 1*2G/500_L/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_TH51
AAP	Thailand	LX.PMH0C.025	AS4740-352G32Mi LINPUSATH3 UMACFbs 1*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_EN11
AAP	Thailand	LX.PMH0C.024	AS4740-352G32Mi LINPUSATH1 UMACFbs 1*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_TH51
AAP	Thailand	LX.PMH0C.023	AS4740-622G50Mi LINPUSATH3 UMACFbs 1*2G/500_L/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_EN11
AAP	Thailand	LX.PMH0C.022	AS4740-622G50Mi LINPUSATH1 UMACFbs 1*2G/500_L/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_TH51
AAP	Thailand	LX.PMH0C.021	AS4740-542G50Mi LINPUSATH3 UMACFbs 1*2G/500_L/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_EN11
AAP	Thailand	LX.PMH0C.020	AS4740-542G50Mi LINPUSATH1 UMACFbs 1*2G/500_L/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_TH51
AAP	Thailand	LX.PMH0C.019	AS4740-522G50Mi LINPUSATH3 UMACFbs 1*2G/500_L/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_EN11
AAP	Thailand	LX.PMH0C.018	AS4740-522G50Mi LINPUSATH1 UMACFbs 1*2G/500_L/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_TH51

RO	Country	Acer Part No	Description
AAP	Thailand	LX.PMH0C.017	AS4740-432G32Mi LINPUSATH3 UMACFbs 1*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_EN11
AAP	Thailand	LX.PMH0C.016	AS4740-432G32Mi LINPUSATH1 UMACFbs 1*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_TH51
AAP	Thailand	LX.PMH0C.015	AS4740-332G32Mi LINPUSATH3 UMACFbs 1*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_EN11
AAP	Thailand	LX.PMH0C.014	AS4740-332G32Mi LINPUSATH1 UMACFbs 1*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_TH51
AAP	Philippines	LX.PMH02.002	AS4740-333G50Mi EM W7HP64EMATPH1 MC UMACFbs 2G+1G/500_L/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_ES61
AAP	India	LX.PMH02.005	AS4740-434G50Mi W7HP64INATIN1 MC UMACFbs 2*2G/500_L/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_ES61
AAP	India	LX.PMH0C.013	AS4740-434G32Mi LINPUSAIN1 UMACFbs 2*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_EN11
AAP	India	LX.PMH02.004	AS4740-434G32Mi W7HP64INATIN1 MC UMACFbs 2*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_ES61
AAP	India	LX.PMH02.003	AS4740-333G32Mi W7HP64INATIN1 MC UMACFbs 2G+1G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_ES61
AAP	India	LX.PMH0C.012	AS4740-434G50Mi LINPUSAIN1 UMACFbs 2*2G/500_L/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_EN11
AAP	India	LX.PMH0C.011	AS4740-333G32Mi LINPUSAIN1 UMACFbs 2G+1G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_EN11
AAP	India	LX.PMH0C.010	AS4740-334G32Mi LINPUSAIN1 UMACFbs 2*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_EN11
AAP	Vietnam	LX.PMH0C.009	AS4740-523G50Mi LINPUSAVN1 UMACFbs 2G+1G/500_L/BT/6L2.2/5R/CB_abgn_FP_0.3D_HG_EN11
AAP	Vietnam	LX.PMH0C.008	AS4740-433G32Mi LINPUSAVN1 UMACFbs 2G+1G/320/BT/6L2.2/5R/CB_abgn_FP_0.3D_HG_EN11
AAP	Vietnam	LX.PMH0C.007	AS4740-432G32Mi LINPUSAVN1 UMACFbs 1*2G/320/BT/6L2.2/5R/CB_abgn_FP_0.3D_HG_EN11
AAP	Vietnam	LX.PMH0C.006	AS4740-432G25Mi LINPUSAVN1 UMACFbs 1*2G/250/BT/6L2.2/5R/CB_abgn_FP_0.3D_HG_EN11
AAP	Philippines	LX.PMH0C.005	AS4740-333G32Mi LINPUSAPH1 UMACFbs 2G+1G/320/BT/6L2.2/5R/CB_abgn_FP_0.3D_HG_EN11
AAP	Philippines	LX.PMH0C.004	AS4740-433G50Mi LINPUSAPH1 UMACFbs 2G+1G/500_L/BT/6L2.2/5R/CB_abgn_FP_0.3D_HG_EN11
AAP	Philippines	LX.PMH02.001	AS4740-523G50Mi EM W7HP64EMATPH1 MC UMACFbs 2G+1G/500_L/BT/6L2.2/5R/CB_abgn_FP_0.3D_HG_ES61
AAP	Philippines	LX.PMH0C.003	AS4740-523G32Mi LINPUSAPH1 UMACFbs 2G+1G/320/BT/6L2.2/5R/CB_abgn_FP_0.3D_HG_EN11
AAP	Philippines	LX.PMH0C.002	AS4740-523G50Mi LINPUSAPH1 UMACFbs 2G+1G/500_L/BT/6L2.2/5R/CB_abgn_FP_0.3D_HG_EN11
AAP	Vietnam	LX.PMH0C.001	AS4740-522G25Mi LINPUSAVN1 UMACFbs 1*2G/250/BT/6L2.2/5R/CB_abgn_FP_0.3D_HG_EN11
WW	GCTWN	S2.PMH02.001	AS4740-543G25Mi W7HP64AWW1 MC UMACFbs 2G+1G/250/BT/6L2.2/5R/CB_abgn_FP_0.3D_HG_ES61
WW	WW	S2.PMH02.002	AS4740-543G25Mi W7HP64AWW1 MC UMACFbs 2G+1G/250/BT/6L2.2/5R/CB_abgn_FP_0.3D_HG_ES62

RO	Country	Acer Part No	Description
AAP	Philippines	LX.PMJ01.002	AS4740-332G32Mi EM W7HB64EMATPH1 MC UMACbs 1*2G/320/BT/6L2.2/5R/CB_GN_0.3D_HG_ES61
AAP	Philippines	LX.PMJ0C.008	AS4740-332G32Mi LINPUSAPH1 UMACbs 1*2G/320/BT/6L2.2/5R/CB_GN_0.3D_HG_EN11
AAP	Philippines	LX.PMJ01.001	AS4740-333G32Mi EM W7HB64EMATPH1 MC UMACbs 2G+1G/320/BT/6L2.2/5R/CB_GN_0.3D_HG_ES61
AAP	Malaysia	LX.PMJ02.001	AS4740-332G32Mi EM W7HP64EMATMY1 MC UMACbs 1*2G/320/BT/6L2.2/5R/CB_abgn_0.3D_HG_ES61
AAP	Vietnam	LX.PMJ0C.007	AS4740-332G32Mi LINPUSAVN1 UMACbs 1*2G/320/BT/6L2.2/5R/CB_abgn_0.3D_HG_EN11
AAP	Vietnam	LX.PMJ0C.006	AS4740-332G25Mi LINPUSAVN1 UMACbs 1*2G/250/BT/6L2.2/5R/CB_abgn_0.3D_HG_EN11
AAP	Vietnam	LX.PMJ0C.005	AS4740-331G32Mi LINPUSAVN1 UMACbs 1*1G/320/BT/6L2.2/5R/CB_abgn_0.3D_HG_EN11
AAP	Vietnam	LX.PMJ0C.004	AS4740-331G25Mi LINPUSAVN1 UMACbs 1*1G/250/BT/6L2.2/5R/CB_abgn_0.3D_HG_EN11
AAP	Malaysia	LX.PMJ0C.003	AS4740-331G32Mi LINPUSAMY1 UMACbs 1*1G/320/BT/6L2.2/5R/CB_abgn_0.3D_HG_EN11
AAP	Indonesia	LX.PMJ0C.002	AS4740-331G32Mi LINPUSAID1 UMACbs 1*1G/320/BT/6L2.2/5R/CB_abgn_0.3D_HG_ID22
AAP	Philippines	LX.PMJ0C.001	AS4740-353G32Mi LINPUSAPH1 UMACbs 2G+1G/320/BT/6L2.2/5R/CB_abgn_0.3D_HG_EN11
WW	WW	S2.PMJ0C.001	AS4740-522G50Mi LINPUSAWW1 UMACbs 2*1G/500_L/BT/6L2.2/5R/CB_abgn_0.3D_HG_EN11
WW	WW	S2.PLS02.001	AS4740-332G32Mi W7HP64AWW1 MC UMAbs 1*2G/320/6L2.2/5R/CB_GN_HG_ES62
WW	WW	S2.PLS0C.002	AS4740-522G25Mi LINPUSAWW1 UMAbs_V3 2*1G/250/BT/6L2.2/5R/CB_HG_EN11
WW	GCTWN	S2.PLS0C.001	AS4740-522G25Mi LINPUSAWW1 UMAbs_V3 2*1G/250/BT/6L2.2/5R/CB_HG_ENX1

CPU	LCD	VGA Chip	VRAM 1	Memory 1	Memory 2	HDD 1(GB)
Ci7620M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N320GB5.4KS
Ci7620M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N320GB5.4KS
Ci5540M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N320GB5.4KS
Ci5520M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N320GB5.4KS
Ci5540M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N320GB5.4KS
Ci5520M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N320GB5.4KS
Ci5430M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N500GB5.4KS
Ci5430M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N500GB5.4KS
Ci3330M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N500GB5.4KS
Ci3330M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N500GB5.4KS
Ci3350M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N500GB5.4KS
Ci3350M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N500GB5.4KS

CPU	LCD	VGA Chip	VRAM 1	Memory 1	Memory 2	HDD 1(GB)
Ci3350M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N320GB5.4KS
Ci3350M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N320GB5.4KS
Ci7620M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N500GB5.4KS
Ci7620M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N500GB5.4KS
Ci5540M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N500GB5.4KS
Ci5540M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N500GB5.4KS
Ci5520M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N500GB5.4KS
Ci5520M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N500GB5.4KS
Ci5430M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N320GB5.4KS
Ci5430M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N320GB5.4KS
Ci3330M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N320GB5.4KS
Ci3330M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N320GB5.4KS
Ci3330M	NLED14WXGAG	UMA	N	SO2GBIII10	SO1GBIII10	N500GB5.4KS
Ci5430M	NLED14WXGAG	UMA	N	SO2GBIII10	SO2GBIII10	N500GB5.4KS
Ci5430M	NLED14WXGAG	UMA	N	SO2GBIII10	SO2GBIII10	N320GB5.4KS
Ci5430M	NLED14WXGAG	UMA	N	SO2GBIII10	SO2GBIII10	N320GB5.4KS
Ci3330M	NLED14WXGAG	UMA	N	SO2GBIII10	SO1GBIII10	N320GB5.4KS
Ci5430M	NLED14WXGAG	UMA	N	SO2GBIII10	SO2GBIII10	N500GB5.4KS
Ci3330M	NLED14WXGAG	UMA	N	SO2GBIII10	SO1GBIII10	N320GB5.4KS
Ci3330M	NLED14WXGAG	UMA	N	SO2GBIII10	SO2GBIII10	N320GB5.4KS
Ci5520M	NLED14WXGAG	UMA	N	SO2GBIII10	SO1GBIII10	N500GB5.4KS
Ci5430M	NLED14WXGAG	UMA	N	SO2GBIII10	SO1GBIII10	N320GB5.4KS
Ci5430M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N320GB5.4KS
Ci5430M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N250GB5.4KS
Ci3330M	NLED14WXGAG	UMA	N	SO2GBIII10	SO1GBIII10	N320GB5.4KS
Ci5430M	NLED14WXGAG	UMA	N	SO2GBIII10	SO1GBIII10	N500GB5.4KS
Ci5520M	NLED14WXGAG	UMA	N	SO2GBIII10	SO1GBIII10	N500GB5.4KS
Ci5520M	NLED14WXGAG	UMA	N	SO2GBIII10	SO1GBIII10	N320GB5.4KS
Ci5520M	NLED14WXGAG	UMA	N	SO2GBIII10	SO1GBIII10	N500GB5.4KS
Ci5520M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N250GB5.4KS
Ci5540M	NLED14WXGAG	UMA	N	SO2GBIII10	SO1GBIII10	N250GB5.4KS
Ci5540M	NLED14WXGAG	UMA	N	SO2GBIII10	SO1GBIII10	N250GB5.4KS
Ci3330M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N320GB5.4KS
Ci3330M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N320GB5.4KS
Ci3330M	NLED14WXGAG	UMA	N	SO2GBIII10	SO1GBIII10	N320GB5.4KS
Ci3330M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N320GB5.4KS
Ci3330M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N320GB5.4KS
Ci3330M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N250GB5.4KS
Ci3330M	NLED14WXGAG	UMA	N	SO1GBIII10	N	N320GB5.4KS
Ci3330M	NLED14WXGAG	UMA	N	SO1GBIII10	N	N250GB5.4KS
Ci3330M	NLED14WXGAG	UMA	N	SO1GBIII10	N	N320GB5.4KS
Ci3330M	NLED14WXGAG	UMA	N	SO1GBIII10	N	N320GB5.4KS

CPU	LCD	VGA Chip	VRAM 1	Memory 1	Memory 2	HDD 1(GB)
Ci3350M	NLED14WXGAG	UMA	N	SO2GBIII10	SO1GBIII10	N320GB5.4KS
Ci5520M	NLED14WXGAG	UMA	N	SO1GBIII10	SO1GBIII10	N500GB5.4KS
Ci3330M	NLED14WXGAG	UMA	N	SO2GBIII10	N	N320GB5.4KS
Ci5520M	NLED14WXGAG	UMA	N	SO1GBIII10	SO1GBIII10	N250GB5.4KS
Ci5520M	NLED14WXGAG	UMA	N	SO1GBIII10	SO1GBIII10	N250GB5.4KS

HDD 2(GB)	ODD	Media Processor	Extra SW1	Card Reader	Wireless LAN1	Bluetooth
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	INT6200H	BT 2.1

HDD 2(GB)	ODD	Media Processor	Extra SW1	Card Reader	Wireless LAN1	Bluetooth
N	NSM8XS	N	N	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	N
N	NSM8XS	N	N	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	INT6200H	BT 2.1

Aspire 4740G

RO	Country	Acer Part No	Description	CPU
AAP	Thailand	LX.PMK0C.042	AS4740G-624G32Mi LINPUSATH1 N11MGE1512CFbs_V3 2*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_TH51	Ci7620M
AAP	Thailand	LX.PMK0C.041	AS4740G-544G32Mi LINPUSATH1 N11MGE1512CFbs_V3 2*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_TH51	Ci5540M
AAP	Thailand	LX.PMK0C.040	AS4740G-524G32Mi LINPUSATH1 N11MGE1512CFbs_V3 2*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_TH51	Ci5520M
AAP	Thailand	LX.PMK02.043	AS4740G-352G64Bi EM W7HP64EMATTH1 MC N11MGE1512CFbs_V3 1*2G/640/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_TH41	Ci3350M
AAP	Thailand	LX.PMK02.042	AS4740G-522G64Bi EM W7HP64EMATTH1 MC N11MGE1512CFbs_V3 1*2G/640/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_TH41	Ci5520M
AAP	Thailand	LX.PMK02.040	AS4740G-624G64Bi EM W7HP64EMATTH3 MC N11MGE1512CFbs_V3 2*2G/640/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_ES61	Ci7620M
AAP	Thailand	LX.PMK02.041	AS4740G-622G64Bi EM W7HP64EMATTH1 MC N11MGE1512CFbs_V3 1*2G/640/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_TH41	Ci7620M
AAP	Thailand	LX.PMK02.039	AS4740G-624G64Bi EM W7HP64EMATTH1 MC N11MGE1512CFbs_V3 2*2G/640/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_TH41	Ci7620M
AAP	Thailand	LX.PMK0C.039	AS4740G-434G50Mi LINPUSATH3 N11MGE1512CFbs_V3 2*2G/500_L/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_EN11	Ci5430M
AAP	Thailand	LX.PMK0C.038	AS4740G-434G50Mi LINPUSATH1 N11MGE1512CFbs_V3 2*2G/500_L/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_TH51	Ci5430M
AAP	Thailand	LX.PMK0C.037	AS4740G-334G50Mi LINPUSATH3 N11MGE1512CFbs_V3 2*2G/500_L/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_EN11	Ci3330M
AAP	Thailand	LX.PMK0C.036	AS4740G-334G50Mi LINPUSATH1 N11MGE1512CFbs_V3 2*2G/500_L/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_TH51	Ci3330M
AAP	Thailand	LX.PMK0C.035	AS4740G-332G50Mi LINPUSATH3 N11MGE1512CFbs_V3 1*2G/500_L/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_EN11	Ci3330M
AAP	Thailand	LX.PMK0C.034	AS4740G-332G50Mi LINPUSATH1 N11MGE1512CFbs_V3 1*2G/500_L/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_TH51	Ci3330M
AAP	Thailand	LX.PMK0C.033	AS4740G-542G32Mi LINPUSATH3 N11MGE1512CFbs_V3 1*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_EN11	Ci5540M
AAP	Thailand	LX.PMK0C.032	AS4740G-542G32Mi LINPUSATH1 N11MGE1512CFbs_V3 1*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_TH51	Ci5540M
AAP	Thailand	LX.PMK02.037	AS4740G-524G64Bi EM W7HP64EMATTH1 MC N11MGE1512CFbs_V3 2*2G/640/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_TH41	Ci5520M

RO	Country	Acer Part No	Description	CPU
AAP	Thailand	LX.PMK02.038	AS4740G-524G64Bi EM W7HP64EMATTH3 MC N11MGE1512CFbs_V3 2*2G/640/BT/ 6L2.2/5R/CB_GN_FP_0.3D_HG_ES61	Ci5520M
AAP	Thailand	LX.PMK02.036	AS4740G-544G64Bi EM W7HP64EMATTH1 MC N11MGE1512CFbs_V3 2*2G/640/BT/ 6L2.2/5R/CB_GN_FP_0.3D_HG_TH41	Ci5540M
AAP	Thailand	LX.PMK02.035	AS4740G-544G64Bi EM W7HP64EMATTH3 MC N11MGE1512CFbs_V3 2*2G/640/BT/ 6L2.2/5R/CB_GN_FP_0.3D_HG_ES61	Ci5540M
AAP	Thailand	LX.PMK0C.031	AS4740G-624G50Mi LINPUSATH3 N11MGE1512CFbs_V3 2*2G/500_L/BT/ 6L2.2/5R/CB_GN_FP_0.3D_HG_EN11	Ci7620M
AAP	Thailand	LX.PMK0C.030	AS4740G-624G50Mi LINPUSATH1 N11MGE1512CFbs_V3 2*2G/500_L/BT/ 6L2.2/5R/CB_GN_FP_0.3D_HG_TH51	Ci7620M
AAP	Thailand	LX.PMK0C.029	AS4740G-544G50Mi LINPUSATH3 N11MGE1512CFbs_V3 2*2G/500_L/BT/ 6L2.2/5R/CB_GN_FP_0.3D_HG_EN11	Ci5540M
AAP	Thailand	LX.PMK0C.028	AS4740G-544G50Mi LINPUSATH1 N11MGE1512CFbs_V3 2*2G/500_L/BT/ 6L2.2/5R/CB_GN_FP_0.3D_HG_TH51	Ci5540M
AAP	Thailand	LX.PMK0C.026	AS4740G-524G50Mi LINPUSATH1 N11MGE1512CFbs_V3 2*2G/500_L/BT/ 6L2.2/5R/CB_GN_FP_0.3D_HG_TH51	Ci5520M
AAP	Thailand	LX.PMK0C.027	AS4740G-524G50Mi LINPUSATH3 N11MGE1512CFbs_V3 2*2G/500_L/BT/ 6L2.2/5R/CB_GN_FP_0.3D_HG_EN11	Ci5520M
AAP	Thailand	LX.PMK0C.025	AS4740G-354G50Mi LINPUSATH3 N11MGE1512CFbs_V3 2*2G/500_L/BT/ 6L2.2/5R/CB_GN_FP_0.3D_HG_EN11	Ci3350M
AAP	Thailand	LX.PMK0C.024	AS4740G-354G50Mi LINPUSATH1 N11MGE1512CFbs_V3 2*2G/500_L/BT/ 6L2.2/5R/CB_GN_FP_0.3D_HG_TH51	Ci3350M
AAP	Thailand	LX.PMK0C.022	AS4740G-432G32Mi LINPUSATH1 N11MGE1512CFbs_V3 1*2G/320/BT/6L2.2/ 5R/CB_GN_FP_0.3D_HG_TH51	Ci5430M
AAP	Thailand	LX.PMK0C.023	AS4740G-432G32Mi LINPUSATH3 N11MGE1512CFbs_V3 1*2G/320/BT/6L2.2/ 5R/CB_GN_FP_0.3D_HG_EN11	Ci5430M
AAP	Thailand	LX.PMK0C.021	AS4740G-332G32Mi LINPUSATH3 N11MGE1512CFbs_V3 1*2G/320/BT/6L2.2/ 5R/CB_GN_FP_0.3D_HG_EN11	Ci3330M
AAP	Thailand	LX.PMK0C.020	AS4740G-332G32Mi LINPUSATH1 N11MGE1512CFbs_V3 1*2G/320/BT/6L2.2/ 5R/CB_GN_FP_0.3D_HG_TH51	Ci3330M
AAP	Thailand	LX.PMK0C.019	AS4740G-434G32Mi LINPUSATH1 N11MGE1512CFbs_V3 2*2G/320/BT/6L2.2/ 5R/CB_GN_FP_0.3D_HG_TH51	Ci5430M
AAP	Thailand	LX.PMK0C.018	AS4740G-354G32Mi LINPUSATH1 N11MGE1512CFbs_V3 2*2G/320/BT/6L2.2/ 5R/CB_GN_FP_0.3D_HG_TH51	Ci3350M

RO	Country	Acer Part No	Description	CPU
AAP	Thailand	LX.PMK0C.017	AS4740G-334G32Mi LINPUSATH1 N11MGE1512CFbs_V3 2*2G/320/BT/6L2.2/ 5R/CB_GN_FP_0.3D_HG_TH51	Ci3330M
AAP	Thailand	LX.PMK02.034	AS4740G-432G64Bi EM W7HP64EMATTH1 MC N11MGE1512CFbs_V3 1*2G/640/BT/ 6L2.2/5R/CB_GN_FP_0.3D_HG_TH41	Ci5430M
AAP	Thailand	LX.PMK0C.016	AS4740G-622G50Mi LINPUSATH3 N11MGE1512CFbs_V3 1*2G/500_L/BT/ 6L2.2/5R/CB_GN_FP_0.3D_HG_EN11	Ci7620M
AAP	Thailand	LX.PMK02.033	AS4740G-542G64Bi EM W7HP64EMATTH1 MC N11MGE1512CFbs_V3 1*2G/640/BT/ 6L2.2/5R/CB_GN_FP_0.3D_HG_TH41	Ci5540M
AAP	Thailand	LX.PMK0C.015	AS4740G-622G50Mi LINPUSATH1 N11MGE1512CFbs_V3 1*2G/500_L/BT/ 6L2.2/5R/CB_GN_FP_0.3D_HG_TH51	Ci7620M
AAP	Thailand	LX.PMK0C.014	AS4740G-542G50Mi LINPUSATH3 N11MGE1512CFbs_V3 1*2G/500_L/BT/ 6L2.2/5R/CB_GN_FP_0.3D_HG_EN11	Ci5540M
AAP	Thailand	LX.PMK0C.013	AS4740G-542G50Mi LINPUSATH1 N11MGE1512CFbs_V3 1*2G/500_L/BT/ 6L2.2/5R/CB_GN_FP_0.3D_HG_TH51	Ci5540M
AAP	Thailand	LX.PMK0C.012	AS4740G-522G50Mi LINPUSATH3 N11MGE1512CFbs_V3 1*2G/500_L/BT/ 6L2.2/5R/CB_GN_FP_0.3D_HG_EN11	Ci5520M
AAP	Thailand	LX.PMK0C.011	AS4740G-522G50Mi LINPUSATH1 N11MGE1512CFbs_V3 1*2G/500_L/BT/ 6L2.2/5R/CB_GN_FP_0.3D_HG_TH51	Ci5520M
AAP	Thailand	LX.PMK0C.010	AS4740G-432G50Mi LINPUSATH3 N11MGE1512CFbs_V3 1*2G/500_L/BT/ 6L2.2/5R/CB_GN_FP_0.3D_HG_EN11	Ci5430M
AAP	Thailand	LX.PMK0C.009	AS4740G-432G50Mi LINPUSATH1 N11MGE1512CFbs_V3 1*2G/500_L/BT/ 6L2.2/5R/CB_GN_FP_0.3D_HG_TH51	Ci5430M
AAP	Thailand	LX.PMK0C.008	AS4740G-352G50Mi LINPUSATH3 N11MGE1512CFbs_V3 1*2G/500_L/BT/ 6L2.2/5R/CB_GN_FP_0.3D_HG_EN11	Ci3350M
AAP	Thailand	LX.PMK0C.007	AS4740G-352G50Mi LINPUSATH1 N11MGE1512CFbs_V3 1*2G/500_L/BT/ 6L2.2/5R/CB_GN_FP_0.3D_HG_TH51	Ci3350M
AAP	Thailand	LX.PMK0C.006	AS4740G-622G32Mi LINPUSATH3 N11MGE1512CFbs_V3 1*2G/320/BT/6L2.2/ 5R/CB_GN_FP_0.3D_HG_EN11	Ci7620M
AAP	Thailand	LX.PMK0C.005	AS4740G-622G32Mi LINPUSATH1 N11MGE1512CFbs_V3 1*2G/320/BT/6L2.2/ 5R/CB_GN_FP_0.3D_HG_TH51	Ci7620M
AAP	Thailand	LX.PMK0C.003	AS4740G-522G32Mi LINPUSATH1 N11MGE1512CFbs_V3 1*2G/320/BT/6L2.2/ 5R/CB_GN_FP_0.3D_HG_TH51	Ci5520M
AAP	Thailand	LX.PMK0C.004	AS4740G-522G32Mi LINPUSATH3 N11MGE1512CFbs_V3 1*2G/320/BT/6L2.2/ 5R/CB_GN_FP_0.3D_HG_EN11	Ci5520M

RO	Country	Acer Part No	Description	CPU
AAP	Thailand	LX.PMK0C.002	AS4740G-352G32Mi LINPUSATH3 N11MGE1512CFbs_V3 1*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_EN11	Ci3350M
AAP	Thailand	LX.PMK0C.001	AS4740G-352G32Mi LINPUSATH1 N11MGE1512CFbs_V3 1*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_TH51	Ci3350M
AAP	Singapore	LX.PMK02.010	AS4740G-544G32Mi W7HP64ATSG1 MC N11MGE1512CFbs_V3 2*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_ES61	Ci5540M
AAP	Singapore	LX.PMK02.009	AS4740G-544G50Mi W7HP64ATSG1 MC N11MGE1512CFbs_V3 2*2G/500_L/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_ES61	Ci5540M
AAP	Singapore	LX.PMK02.019	AS4740G-524G32Mi W7HP64ATSG1 MC N11MGE1512CFbs_V3 2*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_ES61	Ci5520M
AAP	Singapore	LX.PMK02.018	AS4740G-523G32Mi W7HP64ATSG1 MC N11MGE1512CFbs_V3 2G+1G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_ES61	Ci5520M
AAP	Singapore	LX.PMK02.017	AS4740G-433G50Mi W7HP64ATSG1 MC N11MGE1512CFbs_V3 2G+1G/500_L/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_ES61	Ci5430M
AAP	Singapore	LX.PMK02.016	AS4740G-433G64Mi W7HP64ATSG1 MC N11MGE1512CFbs_V3 2G+1G/640/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_ES61	Ci5430M
AAP	Singapore	LX.PMK02.015	AS4740G-434G64Mi W7HP64ATSG1 MC N11MGE1512CFbs_V3 2*2G/640/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_ES61	Ci5430M
AAP	Singapore	LX.PMK02.014	AS4740G-434G50Mi W7HP64ATSG1 MC N11MGE1512CFbs_V3 2*2G/500_L/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_ES61	Ci5430M
AAP	Singapore	LX.PMK02.013	AS4740G-434G32Mi W7HP64ATSG1 MC N11MGE1512CFbs_V3 2*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_ES61	Ci5430M
AAP	Singapore	LX.PMK02.012	AS4740G-433G32Mi W7HP64ATSG1 MC N11MGE1512CFbs_V3 2G+1G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_ES61	Ci5430M
AAP	Singapore	LX.PMK02.011	AS4740G-432G32Mi W7HP64ATSG1 MC N11MGE1512CFbs_V3 1*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_ES61	Ci5430M
AAP	Singapore	LX.PMK02.008	AS4740G-623G50Mi W7HP64ATSG1 MC N11MGE1512CFbs_V3 2G+1G/500_L/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_ES61	Ci7620M
AAP	Singapore	LX.PMK02.007	AS4740G-624G32Mi W7HP64ATSG1 MC N11MGE1512CFbs_V3 2*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_ES61	Ci7620M
AAP	Singapore	LX.PMK02.006	AS4740G-624G50Mi W7HP64ATSG1 MC N11MGE1512CFbs_V3 2*2G/500_L/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_ES61	Ci7620M
AAP	Malaysia	LX.PMK02.003	AS4740G-432G32Mi EM W7HP64EMATMY1 MC N11MGE1512CFbs_V3 1*2G/320/BT/6L2.2/5R/CB_GN_FP_0.3D_HG_ES61	Ci5430M

RO	Country	Acer Part No	Description	CPU
AAP	Malaysia	LX.PMK02.004	AS4740G-432G50Mi EM W7HP64EMATMY1 MC N11MGE1512CFbs_V3 1*2G/500_L/BT/ 6L2.2/5R/CB_GN_FP_0.3D_HG_ES61	Ci5430M
AAP	Singapore	LX.PMK02.032	AS4740G-624G64Mi W7HP64ATSG1 MC N11MGE1512CFbs_V3 2*2G/640/BT/6L2.2/ 5R/CB_GN_FP_0.3D_HG_ES61	Ci7620M
AAP	Singapore	LX.PMK02.031	AS4740G-524G50Mi W7HP64ATSG1 MC N11MGE1512CFbs_V3 2*2G/500_L/BT/ 6L2.2/5R/CB_GN_FP_0.3D_HG_ES61	Ci5520M
TWN	GCTWN	LX.PMK02.030	AS4740G-522G50Mn W7HP64ATTW1 MC N11MGE1512CFbs_V3 1*2G/500_L/BT/ 6L2.2/5R/CB_bgn_FP_0.3D_HG_TC11	Ci5520M
TWN	GCTWN	LX.PMK02.029	AS4740G-432G50Mn W7HP64ATTW1 MC N11MGE1512CFbs_V3 1*2G/500_L/BT/ 6L2.2/5R/CB_bgn_FP_0.3D_HG_TC11	Ci5430M
AAP	Vietnam	LX.PMK02.028	AS4740G-624G64Mi EM W7HP64EMATVN1 MC N11MGE1512CFbs_V3 2*2G/640/BT/ 6L2.2/5R/CB_abgn_FP_0.3D_HG_ES61	Ci7620M
AAP	Vietnam	LX.PMK02.027	AS4740G-624G50Mi EM W7HP64EMATVN1 MC N11MGE1512CFbs_V3 2*2G/500_L/BT/ 6L2.2/5R/CB_abgn_FP_0.3D_HG_ES61	Ci7620M
AAP	Vietnam	LX.PMK02.026	AS4740G-623G50Mi EM W7HP64EMATVN1 MC N11MGE1512CFbs_V3 2G+1G/500_L/ BT/6L2.2/5R/CB_abgn_FP_0.3D_HG_ES61	Ci7620M
AAP	Vietnam	LX.PMK02.025	AS4740G-624G32Mi EM W7HP64EMATVN1 MC N11MGE1512CFbs_V3 2*2G/320/BT/ 6L2.2/5R/CB_abgn_FP_0.3D_HG_ES61	Ci7620M
AAP	Vietnam	LX.PMK02.024	AS4740G-432G32Mi EM W7HP64EMATVN1 MC N11MGE1512CFbs_V3 1*2G/320/BT/ 6L2.2/5R/CB_abgn_FP_0.3D_HG_ES61	Ci5430M
TWN	GCTWN	LX.PMK02.023	AS4740G-332G50Mn W7HP64ATTW1 MC N11MGE1512CFbs_V3 1*2G/500_L/BT/ 6L2.2/5R/CB_bgn_FP_0.3D_HG_TC11	Ci3330M
AAP	Singapore	LX.PMK02.021	AS4740G-524G64Mi W7HP64ATSG1 MC N11MGE1512CFbs_V3 2*2G/640/BT/6L2.2/ 5R/CB_abgn_FP_0.3D_HG_ES61	Ci5520M
AAP	Singapore	LX.PMK02.022	AS4740G-544G64Mi W7HP64ATSG1 MC N11MGE1512CFbs_V3 2*2G/640/BT/6L2.2/ 5R/CB_abgn_FP_0.3D_HG_ES61	Ci5540M
AAP	Singapore	LX.PMK02.020	AS4740G-524G50Mi W7HP64ATSG1 MC N11MGE1512CFbs_V3 2*2G/500_L/BT/ 6L2.2/5R/CB_abgn_FP_0.3D_HG_ES61	Ci5520M
AAP	Singapore	LX.PMK02.005	AS4740G-624G64Mi W7HP64ATSG1 MC N11MGE1512CFbs_V3 2*2G/640/BT/6L2.2/ 5R/CB_abgn_FP_0.3D_HG_ES61	Ci7620M
WW	GCTWN	S2.PMK0C.002	AS4740G-543G32Mi LINPUSAWW1 N11MGE1512CFbs_V3 2G+1G/320/BT/ 6L2.2/5R/CB_abgn_FP_0.3D_HG_ENX1	Ci5540M
WW	GCTWN	S2.PMK02.001	AS4740G-543G32Mi W7HP64AWW1 MC N11MGE1512CFbs_V3 2G+1G/320/BT/ 6L2.2/5R/CB_abgn_FP_0.3D_HG_ES61	Ci5540M

RO	Country	Acer Part No	Description	CPU
WW	WW	S2.PMK02.002	AS4740G-543G32Mi W7HP64AWW1 MC N11MGE1512CFbs_V3 2G+1G/320/BT/ 6L2.2/5R/CB_abgn_FP_0.3D_HG_ES62	Ci5540M
WW	WW	S2.PMK0C.001	AS4740G-624G64Bi LINPUSAWW1 N11MGE1512CFbs_V3 2*2G/640/BT/6L2.2/ 5R/CB_abgn_FP_0.3D_HG_EN11	Ci7620M
AAP	Indonesia	LX.PML0C.006	AS4740G-331G16Mi LINPUSAID1 N11MGE1512Cbs_V3 1*1G/160/6L2.2/5R/ CB_GN_0.3D_HG_ID22	Ci3330M
AAP	Indonesia	LX.PML0C.005	AS4740G-432G32Mi LINPUSAID1 N11MGE1512Cbs_V3 1*2G/320/BT/6L2.2/ 5R/CB_GN_0.3D_HG_ID22	Ci5430M
AAP	Philippines	LX.PML0C.004	AS4740G-522G32Mi LINPUSAPH1 N11MGE1512Cbs_V3 1*2G/320/BT/6L2.2/ 5R/CB_GN_0.3D_HG_EN11	Ci5520M
AAP	Philippines	LX.PML0C.003	AS4740G-332G32Mi LINPUSAPH1 N11MGE1512Cbs_V3 1*2G/320/BT/6L2.2/ 5R/CB_GN_0.3D_HG_EN11	Ci3330M
AAP	Philippines	LX.PML0C.002	AS4740G-432G32Mi LINPUSAPH1 N11MGE1512Cbs_V3 1*2G/320/BT/6L2.2/ 5R/CB_GN_0.3D_HG_EN11	Ci5430M
AAP	Malaysia	LX.PML02.001	AS4740G-334G32Mi EM W7HP64EMATMY1 MC N11MGE1512Cbs_V3 2*2G/320/BT/ 6L2.2/5R/CB_abgn_0.3D_HG_ES61	Ci3330M
AAP	Vietnam	LX.PML0C.001	AS4740G-332G32Mi LINPUSAVN1 N11MGE1512Cbs_V3 1*2G/320/BT/6L2.2/ 5R/CB_abgn_0.3D_HG_EN11	Ci3330M
WW	WW	S2.PML0C.001	AS4740G-542G32Mi LINPUSAWW1 N11MGE1512Cbs_V3 1*2G/320/6L2.2/5R/ CB_abgn_0.3D_HG_EN11	Ci5540M
WW	GCTWN	S2.PMM02.001	AS4740G-542G16Mi W7HP64AWW1 MC N11MGE1512bs_V3 2*1G/160/BT/6L2.2/5R/ CB_abgn_HG_ES61	Ci5540M

LCD	VGA Chip	VRAM 1	Memory 1	Memory 2	HDD 1(GB)
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N640GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N640GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N640GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N640GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N640GB5.4KS

LCD	VGA Chip	VRAM 1	Memory 1	Memory 2	HDD 1(GB)
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N640GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N640GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N640GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N640GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N320GB5.4KS

LCD	VGA Chip	VRAM 1	Memory 1	Memory 2	HDD 1(GB)
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N640GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N640GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO1GBIII10	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO1GBIII10	N500GB5.4KS

LCD	VGA Chip	VRAM 1	Memory 1	Memory 2	HDD 1(GB)
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO1GBIII10	N640GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N640GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO1GBIII10	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO1GBIII10	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N640GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N640GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO1GBIII10	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N640GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N640GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N500GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N640GB5.4KS

LCD	VGA Chip	VRAM 1	Memory 1	Memory 2	HDD 1(GB)
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO1GBIII10	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO1GBIII10	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO1GBIII10	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N640GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO1GBIII10	N	N160GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	SO2GBIII10	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO2GBIII10	N	N320GB5.4KS
NLED14W XGAG	N11MGE1	512M-DDR3 (64*16*4)	SO1GBIII10	SO1GBIII10	N160GB5.4KS

HDD 2(GB)	ODD	Media Processor	Extra SW1	Card Reader	Wireless LAN1	Bluetooth
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NBDCB4XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NBDCB4XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NBDCB4XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NBDCB4XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NBDCB4XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1

HDD 2(GB)	ODD	Media Processor	Extra SW1	Card Reader	Wireless LAN1	Bluetooth
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NBDCB4XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NBDCB4XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NBDCB4XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NBDCB4XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1

HDD 2(GB)	ODD	Media Processor	Extra SW1	Card Reader	Wireless LAN1	Bluetooth
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NBDCB4XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NBDCB4XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1

HDD 2(GB)	ODD	Media Processor	Extra SW1	Card Reader	Wireless LAN1	Bluetooth
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 1x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	INT6200H	BT 2.1
N	NBDCB4XS	N	N	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	N

HDD 2(GB)	ODD	Media Processor	Extra SW1	Card Reader	Wireless LAN1	Bluetooth
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN	BT 2.1
N	NSM8XS	N	McAfee	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	INT6200H	BT 2.1
N	NSM8XS	N	N	5 in 1-Build in	INT6200H	N
N	NSM8XS	N	McAfee	5 in 1-Build in	INT6200H	BT 2.1

Test Compatible Components

This computer's compatibility is tested and verified by Acer's internal testing department. All of its system functions are tested under Windows® 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 4740/4740G Compatibility Test Report released by the Acer Mobile System Testing Department.

Microsoft® Windows® 7 Environment Test

Category	Vendor	Type	Description
Adapter			
	DELTA	65W	Adapter DELTA 65W 19V 1.7x5.5x11 Yellow ADP-65JH DB A, LV5 LED LF
	DELTA	90W	Adapter DELTA 90W 19V 1.7x5.5x11 Blue ADP-90CD DB A, LV5 LED LF
	HIPRO	65W	Adapter HIPRO 65W 19V 1.7x5.5x11 Yellow HP-A0652R3B 1LF, LV5 LED LF
	HIPRO	90W	Adapter HIPRO 90W 19V 1.7x5.5x11 Blue HP-A0904A3 B1LF, LV5 LED LF
	LITE-ON	65W	Adapter LITE-ON 65W 19V 1.7x5.5x11 Yellow PA-1650-22AC LV5 LED LF
	LITE-ON	90W	Adapter LITE-ON 90W 19V 1.7x5.5x11 Blue PA-1900-34AR, LV5 LED LF
Audio Codec			
	Realtek	ALC888S	ALC888S
Battery			
	PANASONIC	6CELL2.2	Battery PANASONIC AS-2007A Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON PSS
	SANYO	6CELL2.2	Battery SANYO AS-2007A Li-Ion 3S2P SANYO 6 cell 4400mAh Main COMMON Normal Type
	SIMPLO	6CELL2.2	Battery SIMPLO AS-2007A Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON PSS
	SIMPLO	6CELL2.2	Battery SIMPLO AS-2007A Li-Ion 3S2P SAMSUNG 6 cell 4400mAh Main COMMON SDI 2.2mAh F type
	SIMPLO	6CELL2.2	Battery SIMPLO AS-2007A Li-Ion 3S2P LGC 6 cell 4400mAh 2nd COMMON
	SONY	6CELL2.2	Battery SONY AS-2007A Li-Ion 3S2P SONY 6 cell 4400mAh Main COMMON Normal Type
Bluetooth			
	Foxconn	BT 2.1	Foxconn Bluetooth BRM 2046 BT2.1 (T60H928.33) f/w:861
Camera			
	Chicony	0.3M DV	Chicony 0.3M DV Calla_2G
	Suyin	0.3M DV	Suyin 0.3M DV Camellia_2G
Card Reader			
		5 in 1-Build in	5 in 1-Build in MS, MS Pro, SD, SC, XD
Cardbus1			
	Realtek	RTS5159-GR	Realtek Cardbus RTS5159-GR
CPU			

Category	Vendor	Type	Description
	INTEL	Ci3330M	CPU Intel Core i3 330M PGA 2.13G 35W Arrandale, TJ90, VT, 3M L3
	INTEL	Ci3350M	CPU Intel Core i3 350M PGA 2.26G 35W Arrandale, TJ90, VT, 3M L3
	INTEL	Ci5430M	CPU Intel Core i5 430M PGA 2.26G ARD, up to SC 2.53G, 3M L3
	INTEL	Ci5520M	CPU Intel Core i5 520M 2.4G 3M
	INTEL	Ci5540M	CPU Intel Core i5 540M 2.53G 3M
	INTEL	Ci7620M	CPU Intel Core i7 620M PGA 2.66G 4M
Finger Print			
	Authentec	AES1610	Authentec AES1610
HDD			
	HGST	N160GB5.4KS	HDD HGST 2.5" 5400rpm 160GB HTS545016B9A300 Panther B SATA LF F/W:C60F
	HGST	N250GB5.4KS	HDD HGST 2.5" 5400rpm 250GB HTS545025B9A300 Panther B SATA LF F/W:C60F
	HGST	N320GB5.4KS	HDD HGST 2.5" 5400rpm 320GB HTS545032B9A300 Panther B SATA LF F/W:C60F
	HGST	N500GB5.4KS	HDD HGST 2.5" 5400rpm 500GB HTS545050B9A300 Panther B SATA LF F/W:C60F
	SEAGATE	N160GB5.4KS	HDD SEAGATE 2.5" 5400rpm 160GB ST9160314AS Wyatt SATA LF F/W:0001SDM1
	SEAGATE	N250GB5.4KS	HDD SEAGATE 2.5" 5400rpm 250GB ST9250315AS Wyatt SATA LF F/W:0001SDM1
	SEAGATE	N320GB5.4KS	HDD SEAGATE 2.5" 5400rpm 320GB ST9320325AS Wyatt SATA LF F/W:0001SDM1
	SEAGATE	N500GB5.4KS	HDD SEAGATE 2.5" 5400rpm 500GB ST9500325AS Wyatt SATA LF F/W:0001SDM1
	TOSHIBA	N160GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 160GB MK1655GSX Libra SATA LF F/W: FG011J
	TOSHIBA	N250GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 250GB MK2555GSX Libra SATA LF F/W:FG001J
	TOSHIBA	N320GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 320GB MK3263GSX SATA 8MB 68P LF F/W:FG020J
	TOSHIBA	N500GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 500GB MK5055GSX Libra SATA LF F/W:FG001J
	WD	N160GB5.4KS	HDD WD 2.5" 5400rpm 160GB WD1600BEVT-22ZCTO ML160 SATA LF F/W:11.01A11
	WD	N250GB5.4KS	HDD WD 2.5" 5400rpm 250GB WD2500BEVT-22ZCT0 ML160 SATA LF F/W:11.01A11

Category	Vendor	Type	Description
	WD	N320GB5.4KS	HDD WD 2.5" 5400rpm 320GB WD3200BEVT-22ZCT0 ML160 SATA LF F/W:11.01A11
	WD	N500GB5.4KS	HDD WD 2.5" 5400rpm 500GB WD5000BEVT-22ZAT0 ML250 SATA LF F/W:01.01A01
	WD	N640GB5.4KS	HDD WD 2.5" 5400rpm 640GB WD6400BEVT-22A0RT0, ML320 SATA 8MB LF F/W:01.01A01
Keyboard			
	ACER	AC4T	Keyboard ACER AC4T JV40 Internal 14 Standard Black Texture
LAN			
	Broadcom	BCM57780	Broadcom BCM57780
LCD			
	AUO	NLED14WXGAG	LED LCD AUO 14" WXGA Glare B140XW01 V8 0A LF 220nit 8ms 500:1 (power saving)
	LPL	NLED14WXGAG	LED LCD LPL 14" WXGA Glare LP140WH1-TLA2 LF 220nit 8ms 500:1
	SAMSUNG	NLED14WXGAG	LED LCD SAMSUNG 14" WXGA Glare LTN140AT01-G03 LF 220nit 8ms 500:1
MEM			
	A-DATA	SO2GBIII10	Memory A-DATA SO-DIMM DDRIII 1066 2GB HY7YG1B1674ZM LF 128*8 0.065um
	ELPIDA	SO1GBIII10	Memory ELPIDA SO-DIMM DDRIII 1066 1GB EBJ10UE8BDS0-AE-F LF 128*8 0.065um
	ELPIDA	SO2GBIII10	Memory ELPIDA SO-DIMM DDRIII 1066 2GB EBJ21UE8BDS0-AE-F LF 128*8 0.065um
	HYNIX	SO1GBIII10	Memory HYNIX SO-DIMM DDRIII 1066 1GB HMT112S6BFR6C-G7 N0 LF 64*16 0.055um
	HYNIX	SO2GBIII10	Memory HYNIX SO-DIMM DDRIII 1066 2GB HMT125S6BFR8C-G7 N0 LF 128*8 0.055um
	MICRON	SO2GBIII10	Memory MICRON SO-DIMM DDRIII 1066 2GB MT16JSF25664HZ-1G1F1 LF 128*8 0.065um
	NANYA	SO1GBIII10	Memory NANYA SO-DIMM DDRIII 1066 1GB NT1GC64BH8A1PS-BE LF 64*16 0.07um
	SAMSUNG	SO1GBIII10	Memory SAMSUNG SO-DIMM DDRIII 1066 1GB M471B2873EH1-CF8 LF 64*16 0.055um
	SAMSUNG	SO2GBIII10	Memory SAMSUNG SO-DIMM DDRIII 1066 2GB M471B5673EH1-CF8 LF 128*8 0.055um
Modem			
	Foxconn	Fox+Con MC4Z 1.5_3.3V Aus	Foxconn Conexant -Unizion 1.5_3.3v AUS T60M955.0x
NB Chipset			
	INTEL	HM55	NB Chipset Intel CS BD82HM55
ODD			

Category	Vendor	Type	Description
	HLDS	NBDCB4XS	ODD HLDS BD COMBO 12.7mm Tray DL 4X CT21N LF W/O bezel 1.00 SATA (HF + Windows 7)
	HLDS	NSM8XS	ODD HLDS Super-Multi DRIVE 12.7mm Tray DL 8X GT30N LF W/O bezel SATA (HF + Windows 7)
	PLDS	NSM8XS	ODD PLDS Super-Multi DRIVE 12.7mm Tray DL 8X DS-8A4SH LF W/O bezel SATA (HF + Windows 7)
	SONY	NBDCB4XS	ODD SONY BD COMBO 12.7mm Tray DL 4X BC-5500S LF W/O bezel FW 1.E1 SATA (Windows 7)
	SONY	NSM8XS	ODD SONY Super-Multi DRIVE 12.7mm Tray DL 8X AD-7585H LF W/O bezel SATA (HF + Windows 7)
	TOSHIBA	NSM8XS	ODD TOSHIBA Super-Multi DRIVE 12.7mm Tray DL 8X TS-L633C LF W/O bezel SATA (HF + Windows 7)
SB Chipset			
	None	N	N
Software			
		McAfee	Antivirus application McAfee
VGA Chip			
	None	UMA	UMA (Intel)
	NVIDIA	N11MGE1	NVIDIA N11MGE1 40nm 29mm*29mm GB1-128 package
VRAM			
		512M-DDR3 (64*16*4)	512M-DDR3 64*16*4
WiFi Antenna			
	WNC	PIFA	PIFA
Wireless LAN			
	Foxconn	3rd WiFi 2x2 BGN	Foxconn Wireless LAN Atheros HB93 2x2 BGN (HM)
	Foxconn	3rd WiFi 2x2 BGN	Foxconn Wireless LAN Atheros HB93 2x2 BGN (HM)
	INTEL	INT6200H	Lan Intel WLAN 622AN.HMWG
	QMI	3rd WiFi 2x2 BGN	QMI Wireless LAN Atheros HB93 2x2 BGN (HM) EM306

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
- 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.