eMachine 355 Series
Service Guide

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

PRINTED IN TAIWAN

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.

NOTE: This symbol where placed in the Service Guide designates a component that should be recycled according to the local regulations.

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 eMachine'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 Home Basic 32-bit (China only)
- Genuine Windows® 7 Starter

CPU and chipset

- Intel® Atom™ processor N550/N570 (1 MB L2 cache, 1.50/1.66 GHz, DDR3 667 MHz, 8.5 W)
- Intel® Atom™ processor N455/N475 (512 KB L2 cache, 1.66/1.83 GHz, DDR3 667 MHz, 6.5 W)
- Mobile Intel® NM10 Express Chipset

Memory

- Single-channel DDR3 SDRAM support with one soDIMM module
  - Up to 1 GB of DDR3 system memory (for Windows® 7 Starter for small notebook PCs)
  - Up to 2 GB of DDR3 system memory (for other operating systems)

Graphics

- Intel® Graphics Media Accelerator 3150 (Intel® GMA 3150), with 64 MB of dedicated system memory, supporting Microsoft® DirectX® 9
- Dual independent display support
- 16.7 million colors
- External resolution / refresh rate:
  - VGA port up to 1600 x 900: 60 Hz
- MPEG-2/DVD decoding

Color options

- Black

Display

- 10.1" SD 1024 x 600 (WSVGA) pixel resolution, high-brightness (200-nit) LED-backlit TFT LCD
- Mercury free, environment friendly

Storage subsystem

Hard disk drive

- 160/250 GB

Multi-in-1 card reader, supporting

- Secure Digital™ (SD) Card, MultiMediaCard™ (MMC)
- Storage cards with adapter: miniSD™, microSD™

Webcam

Video conferencing solution1, featuring:

- Webcam with 640 x 480 resolution
- Microphone

Wireless and networking

WLAN

- 802.11b/g/n Wi-Fi CERTIFIED™
- 802.11b/g Wi-Fi CERTIFIED™ (available only in Russia, Pakistan, Ukraine)

WPAN

- Bluetooth® 3.0+HS
- Bluetooth® 2.0+EDR

WWAN

- UMTS/HSPA at 850/900/1900/2100 MHz and quad-band GSM/GPRS/EDGE at 850/900/1800/1900 MHz, upgradable to 7.2 Mb/s HSDPA and 5.7 Mb/s HSUPA (for 3G model)

LAN

- Fast Ethernet

Audio

- High-definition audio support
- Built-in mono speaker
- MS-Sound compatible
- Built-in digital microphone

Dimensions and weight

Dimensions

- 258.5 (W) x 185 (D) x 24 (H) mm (10.17 x 7.28 x 0.95 inches)

Weight

- 1.25 kg (2.76 lbs.) with 6-cell battery pack

Privacy control

- BIOS user, supervisor, HDD passwords
- Kensington lock slot

Power adapter and battery

- Product Safety Electric Appliance and Materials (PSE) certified for battery pack

Power adapter

- 2-pin 40 W eMachines MiniGo AC adapter:
  - 93.2 (W) x 32.2 (D) x 42.5 (H) mm (3.66 x 1.26 x 1.67 inches)
  - 180 g (0.39 lbs.)2 with 250 cm DC cable

Battery

- 48 Wh 4400 mAh 6-cell Li-ion battery pack
  - Battery life: 8 hours
- 24 Wh 2200 mAh 3-cell Li-ion battery pack
  - Battery life: 4 hours

Input and control

Keyboard

- 84-/85-/88-key eMachines FineTip keyboard, 93% full-size keyboard, with international language support

Touchpad

- Multi-gesture touchpad, supporting two-finger scroll, pinch, rotate, flip

Input and output

- Multi-in-1 card reader
- Three USB 2.0 ports
- External display (VGA) port
- Headphone/speaker jack
- Microphone-in jack
- Ethernet (RJ-45) port
- DC-in jack for AC adapter

Options and accessories

In-box:

- Protective bag
- 6-cell Li-ion battery pack

Optional:

- 1 GB / 2 GB DDR3 1066 MHz soDIMM module
- 6-cell Li-ion battery pack
- 2-pin 40 W eMachines MiniGo AC adapter
- External USB HDD
- External USB ODD

Software

Productivity

- eMachines Power Management
- eMachines Recovery Management
- Adobe® Flash® Player 10.1
- Adobe® Reader® 9.1
- AUPEO! (US only)
- Bing™ Bar
- Microsoft® Office 2010 preloaded (purchase a product key to activate)
- Microsoft® Office Starter 2010
- New York Times Reader (US only)
- Norton™ Online Backup
- NOOK for PC

Security

- Norton Internet Security™ 2011

Gaming

- WildTangent® (except China, Japan, Hong Kong, Korea)

Communication and ISP

- Microsoft® Silverlight™
- Skype™
- Windows Live™ Essentials

Web links and utilities

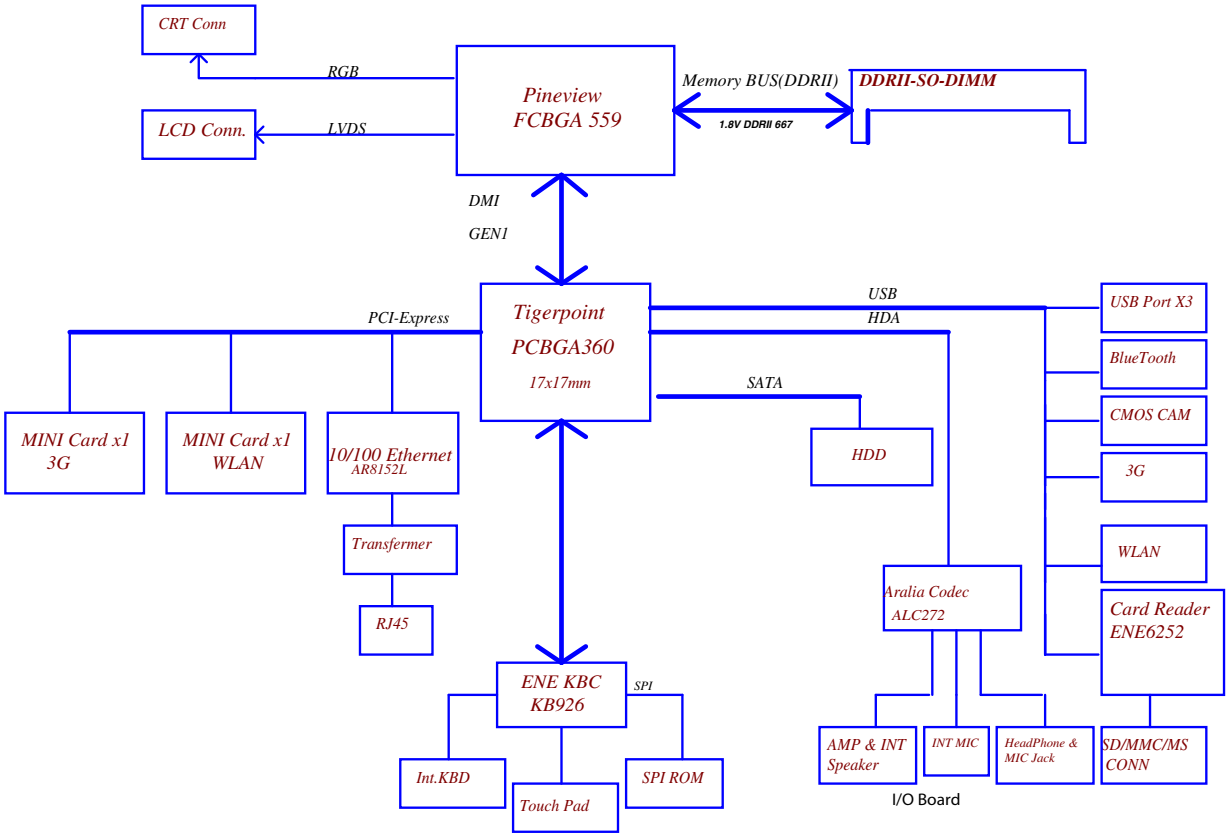
- eMachines Accessory Store (Belgium, France, Germany, Italy, Netherlands, Spain, Sweden, UK only)
- eMachines Identity Card
- eMachines Registration
- eMachines Updater
- eBay® shortcut 2009 (Canada, France, Germany, Italy, Mexico, Spain, UK, US only)
- Netflix shortcut1 (US only)
- Customized Internet Explorer®

Eco compliance

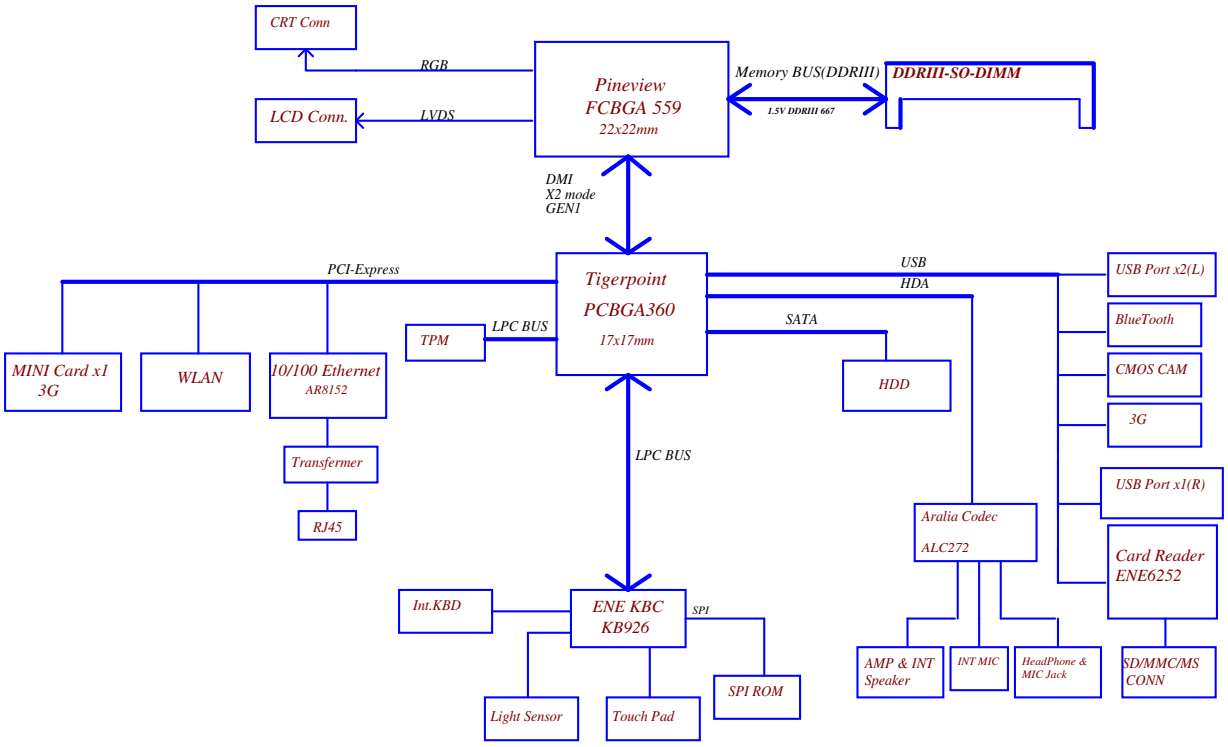
- ENERGY STAR®
- WEEE
- RoHS
- Mercury free

System Block Diagram

DDR2



DDR3



Your Notebook Tour

Top View

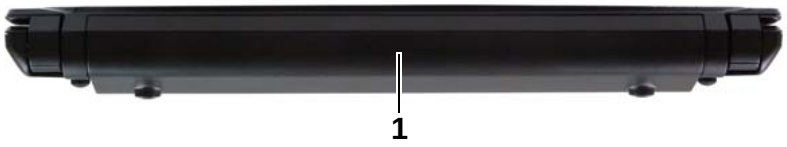
No.	Component	Icon	Description
1	Microphone		Internal microphone for sound recording.
2	Display screen		Also called Liquid-Crystal Display (LCD), displays computer output (configuration may vary by model).
3	Power button/ Indicator		Turns the computer on and off.
4	Keyboard		For entering data into your computer.
5	Touchpad		Touch-sensitive pointing device which functions like a computer mouse.
6	Status indicators		Light-Emitting Diodes (LED) that light up to show the status of the computer's functions and components.
7	Click buttons (left, and right)		The left and right buttons function like the left and right mouse buttons.
8	Palmrest		Comfortable support area for your hands when you use the computer.
9	Integrated webcam		Web camera for video communication.

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

Closed Front View

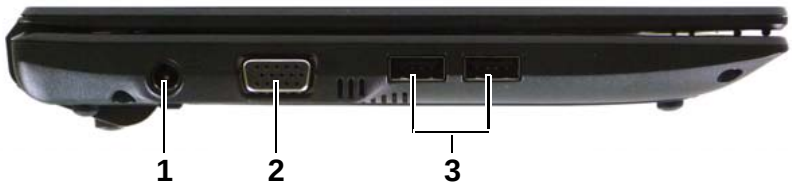
#	Component	Icon	Description		
1	Power indicator		Light-Emitting Diodes (LED) that light up to show the status of the computer's functions and components.		
	Battery indicator		Indicates the computer's battery status. **1. Charging:** The light shows amber when the battery is charging. **2. Fully charged:** The light shows blue when in AC mode.		
	HDD indicator		Indicates when the hard disk drive is active.		
	Communication indicator		Indicates the status of 3G / Wi-Fi communication.		
			Blue light on	Orange light on	Not lit
			3G on / Wi-Fi on 3G on / Wi-Fi off	3G off / Wi-Fi on	3G off / Wi-Fi off

Rear View



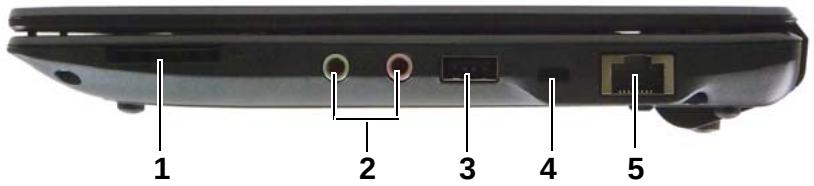
#	Component	Icon	Description
1	Battery bay		Houses computer’s battery pack.

Left View



#	Component	Icon	Description
1	DC-in jack		Connects to an AC adapter.
2	External display (VGA) port		Connects to a display device (e.g., external monitor, LCD projector).
3	USB 2.0 port		Connects to USB 2.0 devices (e.g., USB mouse, USB camera).

Right View



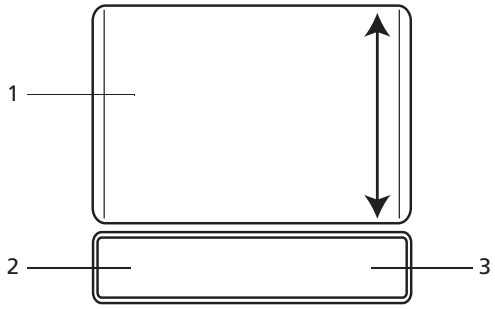
#	Component	Icon	Description
1	2-in-one card reader		**Accepts Secure Digital (SD), MultiMediaCard (MMC)** Note: Push to remove/install the card. Only one card can operate at any given time.
2	Headphone/ speaker/line-out jack		Connects to line-out audio devices (e.g., speakers, headphones).
	Microphone-in jack		Accepts inputs from external microphones.
3	USB 2.0 port		Connects to USB 2.0 devices (e.g., USB mouse).
4	Kensington lock slot		Connects to a Kensington-compatible computer security lock.
5	Ethernet (RJ-45) port		Connects to an Ethernet 10/100-based network.

Bottom and Rear View

#	Component	Icon	Description
1	Ventilation slots and/or cooling fan		Enables the computer to stay cool, even after prolonged use. Note: Do not cover or obstruct the opening of the fan.
2	Battery release latch		Releases the battery for removal.
3	3G SIM card slot		Accepts a 3G SIM card for 3G connectivity (only for certain models).
4	Battery bay		Houses the computer's battery pack.
5	Battery lock		Locks the battery in position.
6	Speaker		Emits audio from your computer.

Touchpad Basics

The following items show you how to use the TouchPad:



- Move your finger across the TouchPad (1) to move the cursor.
- Press the left (2) and right (3) buttons located beneath the TouchPad to perform selection and execution functions. These two buttons are similar to the left and right buttons on a mouse. Tapping on the TouchPad is the same as clicking the left button.

Function	Main TouchPad (1)	Left Button (2)	Right Button (3)
Execute	Tap twice (at the same speed as double-clicking a mouse button).	Quickly click twice.	
Select	Tap once.	Click once.	
Drag	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.	Click and hold, then use finger on the TouchPad to 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 eMachines 355 has a close-to-full-sized keyboard and an embedded numeric keypad, separate cursor, lock, 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.	
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 and volume output.

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

Hotkey	Icon	Function	Description
<Fn> + <F3>		Communication key	Enables/disables the computer's communication devices. (Communication devices may vary by configuration.)
<Fn> + <F4>		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> + <F11>		Num Lock	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. <Fn> + <F11> only for certain models.
<Fn> + <F12>		Scroll Lock	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.
<Fn> + <▷>		Brightness up	Increases the screen brightness.
<Fn> + <◁>		Brightness down	Decreases the screen brightness.
<Fn> + <△>		Volume up	Increases the sound volume.

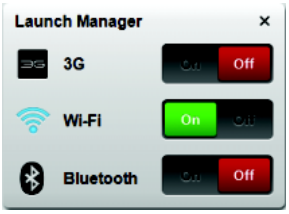
Hotkey	Icon	Function	Description
<Fn> + <▽>		Volume down	Decreases the sound volume.

Using the communication key

Here you can enable and disable the various wireless connectivity devices on your computer.

Press **<Fn> + <F3>** to bring up the Launch Manager window panel.

A red toggle indicates the device is off. Click On to enable wireless/3G/Bluetooth connection. Click Off to disable connection.



Note: Communication devices may vary by model.

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: Some fonts and software do not support the Euro symbol.

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 according to the language settings.

Hardware Specifications and Configurations

Processor

Item	Specification
CPU type	Intel® Atom (N455, N475,N550) Processor
CPU package	Micro-FCBGA8 packaging technologies
Core Logic	• Intel NM10 Express chipset • Tiger Point(NM10 Express chipset) • On die 512-kB, 8-way L2 cache • On die 2*512-kB, 8-way L2 cache(N550)
Chipset	• Tiger Point Chipset (NM10) • ENE KB926 for Keyboard Controller, Battery management Unit, and RTC • Realtek ALC272X-GR for High Definition Audio Codec. • Atheros AR8152 for 10/100 LAN • ENE UB6252 card reader support SD,MMC

Processor Specifications

Item	CPU Speed	Cores	Bus Speed	Mfg Tech	Cache Size	Package	Core Voltage	Acer P/N
N450	1.66 GHz	1	667 MHz	45 nm	512 KB	Micro-FCBGA8	0.9V-1.100V	KC.ANB0 1.450
N455	1.66 GHz	1	667 MHz	45 nm	512 KB	Micro-FCBGA8	0.8V-1.175V	KC.ANB0 1.455
N475	1.83 GHz	1	667 MHz	45 nm	512 KB	Micro-FCBGA8	0.8V-1.175V	KC.ANB0 1.475
N550	1.5 GHz	2	667 MHz	45 nm	2*512 KB	Micro-FCBGA8	0.8V-1.175V	KC.ANB0 1.550

CPU Fan True Value Table

For N45x N47x OS mode		
CPU Temperature	**Fan Speed (RPM)**	**SPL Spec (dBA)**
50	4700	26
54	5200	29
57	5500	31
35	5200	29
53	5200	29
60	5500	31

- Throttling 50%: On=95°C; OFF=80°C
- OS shut down at100°C; H/W shut down at 90°C

For N550 OS mode		
CPU Temperature	**Fan Speed (RPM)**	**SPL Spec (dBA)**
50	4600	26
54	5400	29
57	5800	31
35	5400	29
53	5400	29
60	5800	31

- Throttling 50%: On=95°C; OFF=80°C
- OS shut down at100°C; H/W shut down at 90°C

For N45x N47x w/MCP_Quartic OS mode		
CPU Temperature	**Fan Speed (RPM)**	**SPL Spec (dBA)**
35	4600	26
40	5400	29
45	5800	31

- Throttling 50%: On=95°C; OFF=80°C
- OS shut down at 100°C; H/W shut down at 90°C

System Memory (DDR2)

Item	Specification
Memory controller	Supports DIMM Speed
Memory size	1GB/2GB DDR2 RAM (Note: 2GB DDR2 not available for all operating systems)
DIMM socket number	1
Supports memory size per socket	2 GB
Supports maximum memory size	2 GB
Supports DIMM type	DDR II 667Mhz SDRAM memory interface design
Supports DIMM Speed	667Mhz SDRAM
Support DIMM voltage	1.8V
Supports DIMM package	One socket 200-pin

System Memory (DDR3)

Item	Specification
Memory controller	Built in
Memory size	1GB/2GB DDR3 RAM (if 2Gb die support is available)
DIMM socket number	1
Supports memory size per socket	2 GB
Supports maximum memory size	2 GB
Supports DIMM type	DDR III 667Mhz SDRAM memory interface design
Supports DIMM Speed	667Mhz SDRAM
Support DIMM voltage	1.5V
Supports DIMM package	One socket 204-pin

Video Interface

Item	Specification
Chipset	Built-in Intel® GMA 3150
Package	FCBGA559
Interface	LVDS / CRT
Supports ZV (Zoomed Video) port	
Compatibility	
Sampling rate	60Hz
Internal microphone	Yes
Internal speaker / quantity	Yes / 2

VRAM

Item	Specification
Chipset	Built-in Intel® GMA 3150
Memory size	64 MB dedicated memory
Interface	DDRIII

BIOS

Item	Specification
BIOS vendor	InsydeH20
BIOS Version	V1.00 for DDR2 SKU; V3.00 for DDR3 SKU
BIOS ROM type	Flash
BIOS ROM size	2 MB
Features	• Support ISIPP • Support eMachines UI • Support multi-boot • Suspend to RAM (S3)/Disk (S4) • Various hot-keys for system control • Support SMBUS 2.0, PCI2.3 • ACPI 3.0 compliance with Intel Speed Step Support C1, C2, C3, C4 and S3, S4 for mobile CPU • DMI utility for BIOS serial number configurable/asset tag • Support PXE • Support Y2K solution • Support Win Flash Wake on LAN from S3 • Wake on LAN from S4 in AC mode • System information

LAN Interface

Item	Specification
LAN Chipset	AR8152L
LAN connector type	RJ45
LAN connector location	Right Side

Features	• Integrated 10/100 BASE-T transceiver
	• PCI Bus Interface
	  • Supports PCI Rev v2.3 at 33MHz
	  • 2 available PCI REQ/GNT pairs. Support for 64-bit addressing on PCI using DAC protocol.
	• Power Management Logic
	  • Supports ACPI 3.0
	  • ACPI-defined power states (C1, S1, S3-S5 for Netbook)
	  • Wake on LAN support compliant with ACPI 3.0

Keyboard Controller

Item	Specification
Type	New eMachines flat keyboard
Total number of keypads	84-US/85-UK keys
Windows logo key	Yes
Internal & external keyboard work simultaneously	Plug USB keyboard to the USB port directly: Yes
Features	• 2.0+/- 3mm full stroke keys • Phantom key auto detect • Overlay numeric keypad • Support independent pgdn/pgup/pgup/home/end keys • Support reverse T cursor keys • Factory configurable different languages by OEM customer

Wireless Module 802.11b/g/Draft-N

Item	Specification
Manufacturer	Atheros, Broadcom, RTL
Model	HB93/HB95, 4313, 8191
Supported Standards	802.11 b+g, Draft-N

Battery

Item	Specification	
Vendor & model name	SANYO AL10A	SANYO AL10B
Battery Type	Li-ion	Li-ion
Pack capacity	2200 mAh	4400 mAh
Number of battery cell	3	6
Package configuration	3S1P	3S2P

Hard Disk Drive Interface

Item	Specification		
Vendor & Model Name	Western Digital WD1600BEVT-22A23T0, Hitachi HTS545016B9A300, Toshiba MK1665GSX, Seagate ST9160314AS	Western Digital WD2500BEVT-22A23T0, Hitachi HTS545025B9A300, Toshiba MK2565GSX, Seagate ST9250315AS	Western Digital WD3200BEVT-22A23T0, Hitachi HTS545032B9A300, Toshiba MK3265GSX, Seagate ST9320315AS
Capacity (GB)	160GB	250GB	320GB
Bytes per sector	512		
Data heads	1, 2, 1, 2	2, 2, 2, 2	2, 3, 2, 3
Drive Format			
Disks	1	1	1, 2, 1, 2
Spindle speed (RPM)	5400		
Performance Specifications			
Buffer size	8MB		
Interface	SATA		
Fast data transfer rate	3.0Gbits/s		
Media data transfer rate	106Mbytes/s, 845Mbits/s, 1175Mbits/s, 1273.3Mbits/s	106Mbytes/s, 845Mbits/s, 1175Mbit/s, 1031.7Mbits/s	106Mbytes/sm, 845Mbits/s, 1175Mbits/s, 1273.3Mbits/s
DC Power Requirements			
Voltage tolerance	5V		

Super-Multi Drive Module (Not available with this module)

Item	Specification	
Vendor & model name		
Performance Specification		
Transfer rate (MB/sec)		
Buffer Memory		
Interface		
Applicable disc formats		
Loading mechanism		
Power Requirement		
Input Voltage		

Bluetooth Interface

Item	Specification
Chipset	Atheros AR3011/ Broadcom BCM2070/ Broadcom BCM2046
Protocol	3.0+HS
Interface	USB 2.0
Connector type	JST SM08B SURS - TF

LED 10.1”

Item	Specification
Vendor/model name	AU/ B101AW06 V0/V1CMO/ N101L6-L0D SEC/ LTN101NT05-A01 LG/ LP101WSB-TLN1 & LP101WSB-TLP2
Screen Diagonal (mm)	255.537 (10.1")
Active Area (mm)	222.72 (H) X125.28 (V)
Display resolution (pixels)	1024x600
Pixel Pitch (mm)	0.2175x0.2088
Typical White Luminance (cd/m^2) also called Brightness	200
Contrast Ratio	400:1
Response Time (Optical Rise Time/ Fall Time) msec	16
Typical Power Consumption (watt)	2.6(w)
Weight (without inverter)	170
Physical Size (mm)	245 x 146.5 x 3.6
Electrical Interface	LVDS
Support Color	TBD
Viewing Angle (up/down/right/left)	TBD
Temperature Range (°C) Operating Storage (shipping)	 45/45 15/35

LCD Inverter - Not present in this model

Item	Specification
Vendor & model name	
Brightness conditions	
Input voltage (v)	
Input current (mA)	
Output voltage (V, RMS)	
Output current (mA, RMS)	
Output voltage frequency (KHz)	

LCD Display Supported Resolution

Resolution	16 bits	32 bits
640x480p/60Hz	Yes	Yes
800x600p/60Hz	Yes	Yes
1024x600p/60Hz	Yes	Yes
1024x768p/60Hz	Yes	Yes
1280x720p/60Hz	Yes	Yes
1280x800p/60Hz	Yes	Yes
1280x1024p/60Hz	Yes	Yes
1366x768p/60Hz	Yes	Yes
1440x900p/60Hz	Yes	Yes
1600x900p/60Hz	Yes	Yes
1680x1050p/60Hz	Yes	Yes
1920x1080p/60Hz	Yes	Yes

Camera

Item	Specifications		
Vendor and model	Suyin HF1315-S32B-OV01	Chicony CNF9157	Lite-on 09P2SF119
Type	1.3M		
Interface	USB Port 2.0		
Focusing range	>26.6cm		
Dimensions (L x W x H mm)	65.3x8.1x3.8mm		
Sensor type	OV9665		
Pixel resolution	1280x1024		
Pixel size	2ìmx2ìm		
Image size	2608ì m x 2072ì m		

3G Module

Item	Specification
Manufacturer	Huawei
Model	EM770W-REV1
Card Type	PCI-Express
Throughput	TBD
Supported Services	TBD

Audio Subsystem

Item	Specification
Audio Controller	Realtek ALC272X-GR
Audio onboard or optional	Built-in
Mono or Stereo	Stereo
Resolution	16/20/24 bit stereo full duplex
Compatibility	HD audio Interface
Sampling rate	44.1k/48k/96k/192kHz sample rate
Internal microphone	Yes
Internal speaker/quantity	Yes/ 2(1W speaker)

USB Port

Item	Specification
USB compliance level	
UHCI	4
Number of USB port(s)	3
Location	Two on the left side and one on the right side

HDMI Port - Not available on this model

Item	Specification
Compliance level	
Throughput	
Number of HDMI port(s)	
Location	

PCMCIA Port - Not available on this model

Item	Specification
PCMCIA controller	
Supports card type	
Number of slots	
Access location	
Supports ZV (Zoomed Video) port	
Supports 32-bit CardBus	

System Board Major Chips

Item	Specification
Core logic	Tiger Point Chipset
VGA	Intel® GMA 3150
LAN	AR8152L
USB 2.0	
Bluetooth	Foxconn Bluetooth BRM 2070/2046
Wireless	Foxconn Wireless LAN Broadcom 4313 /HB95
Audio codec	Realtek ALC272X-GR
Card reader	ENE UB6252

I/O Ports

Item	Specification
I/O support	• VGA port,15 pins • DC-IN • RJ-45 jack for LAN • 3 x USB jacks • Headphone out • Microphone-in • Kensington Lock • 2 in1 card reader

AC Adapter

Item	Specification
Input rating	40W
Maximum input AC current	1.2A at 100V
Inrush current	I2t at 264V
Efficiency	Refer to EPA 2.0

Card Reader

Item	Specification
Chipset	ENE UB6252
Package	32 Pin QFN
Features	2-in-1 card reader, supporting: • Secure Digital™ (SD) Card, Multimedia Card™ (MMC) Storage cards with adapter: miniSD™, microSD™
Supports Maximum size (please specify max supporting size for each card)	Secure Digital™ (SD) Card 4G (for example)

System LED Indicator

Item	Specification
Lock	N/A
System state	• Blue color solid on: System on • Blue color off: System off • Orange color blinking: Sleep state
HDD access state	Blue color: Fast blinking when HDD/SSD/Card reader is running or accessing to data
Wireless state	Dual color (Blue/Orange) 3G only: Blue 3G+WiFi: Blue WiFi only: Orange Both off: N/A
Power button backlight	• Blue color solid on: System on • Blue color off: System off, sleep and hibernation state
Blue color solid on: System on Blue color off: System off, sleep and hibernation state	Charging • Orange solid on - Battery charging with AC • Blue color solid on - Battery full • Orange blinking - Battery abnormal stop charge or battery in low power state Discharging • Orange and blinking - Battery in critical low state • Orange and blue color off - Discharging state

Power Specification

Legacy Mode	ACPI Mode	Power Management
Off	Mech. Off (G3)	All devices in the system are turned off completely.
	Soft Off (G2/S5)	OS initiated shutdown. All devices in the system are turned off completely.
On	Working (G0/S0)	Individual devices such as the CPU and hard disk may be power managed in this state.
	S3 Sleeping State	CPU set power down VGA suspend PCMCIA suspend Audio power down Hard Disk power down CD-ROM power down Super I/O low power mode
	S4 Sleeping State	Also called Hibernate state. The system saves all system states and data onto disk prior to powering off the whole system.

System Utilities

BIOS Setup Utility

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

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

To activate the BIOS Utility, press **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, Security, Boot, and Exit.

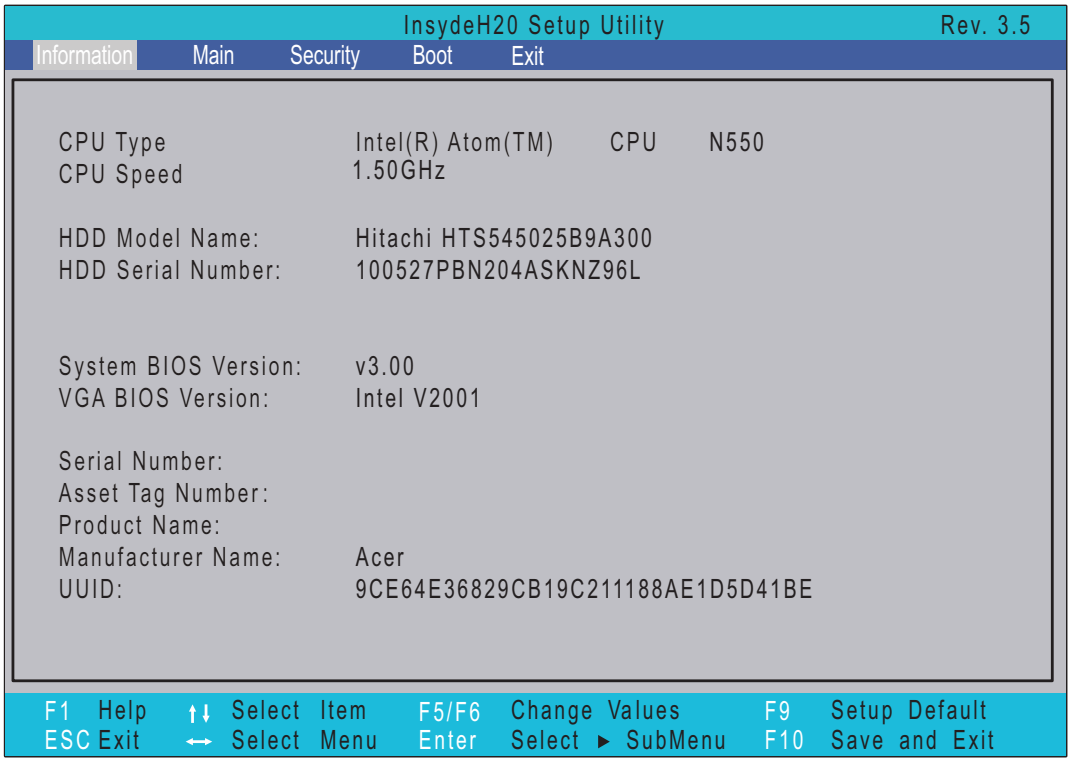
Follow these instructions:

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

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

Information

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

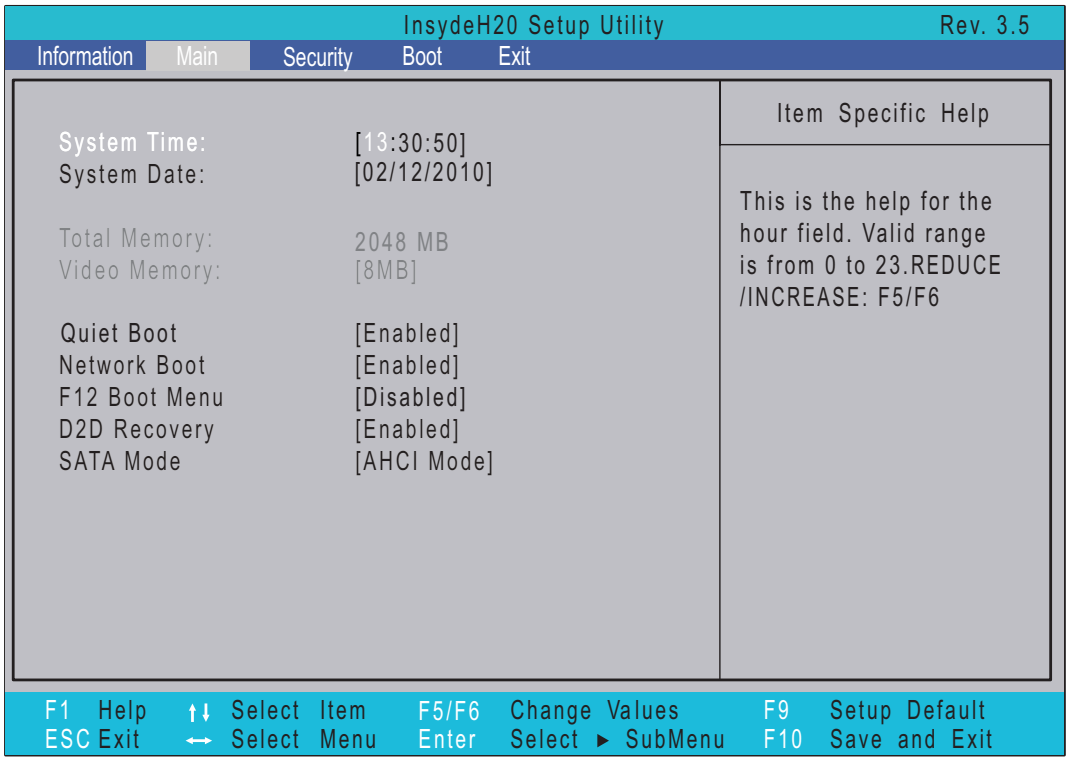


Note: The system information is subject to different models.

Parameter	Description
CPU Type	This field shows the CPU type and speed of the system.
CPU Speed	This field shows the speed of the CPU.
HDD Model Name	This field shows the model name of HDD installed on primary IDE master.
HDD Serial Number	This field displays the serial number of HDD installed on primary IDE master.
System BIOS Version	This field displays the system BIOS version.
VGA BIOS Version	This field displays the VGA firmware version of the system.
Serial Number	This field displays the serial number of this unit.
Asset Tag Number	This field displays the asset tag number of the system.
Product Name	This field shows product name of the system.
Manufacturer Name	This field displays the manufacturer of this system.
UUID	Universally Unique Identifier (UUID) is an identifier standard used in software construction, standardized by the Open Software Foundation (OSF) as part of the Distributed Computing Environment (DCE).

Main

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



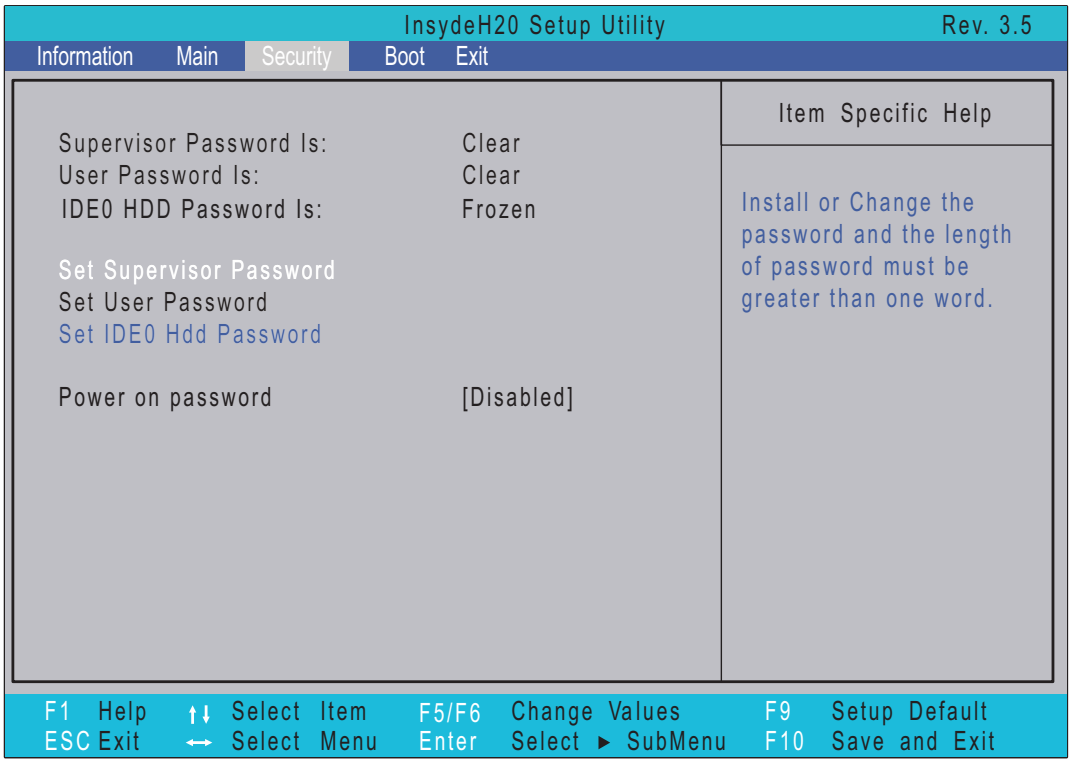
Note: The screen above is for your reference only. Actual values may differ.

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

Parameter	Description	Format/Option
System Time	Sets the system time. The hours are displayed with 24-hour format.	Format: HH:MM:SS (hour:minute:second)
System Date	Sets the system date.	Format MM/DD/YYYY (month/day/year)
Total Memory	This field reports the memory size of the system. Memory size is fixed to 3017 MB.	N/A
Video Memory	Shows the video memory size. VGA Memory size=32 MB	N/A
Quick Boot	Allows startup to skip certain tests while booting, decreasing the time needed to boot the system.	Option: **Enabled** or Disabled
Network Boot	Enables, disables the system boot from LAN (remote server).	Option: **Enabled** or Disabled
F12 Boot Menu	Enables, disables Boot Menu during POST.	Option: Enabled or **Disabled**
D2D Recovery	Enables, disables D2D Recovery function. The function allows the user to create a hidden partition on hard disc drive to store operation system and restore the system to factory defaults.	Option: **Enabled** or Disabled
SATA Mode	Control the mode in which the SATA controller should operate.	Option: **AHCI** or IDE

Security

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



The table below describes the parameters in this screen. Settings in **bold face** 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
IDE0 HDD Password Is	Shows the setting of the HDD password	**Clear** or Set
Set Supervisor Password	Press Enter to set the supervisor password. When set, this password protects the BIOS Setup Utility from unauthorized access. The user can not either enter the Setup menu nor change the value of parameters.	
Set User Password	Press Enter to set the user password. When user password is set, this password protects the BIOS Setup Utility from unauthorized access. The user can enter Setup menu only and does not have right to change the value of parameters.	
Set IDE0 Hdd Password	Enter to set the HDD password.	
Power on password	Defines whether a password is required or not while the events defined in this group happened. The following sub-options are all requires the Supervisor password for changes and should be grayed out if the user password was used to enter setup.	Enabled or **Disabled**

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.:

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.

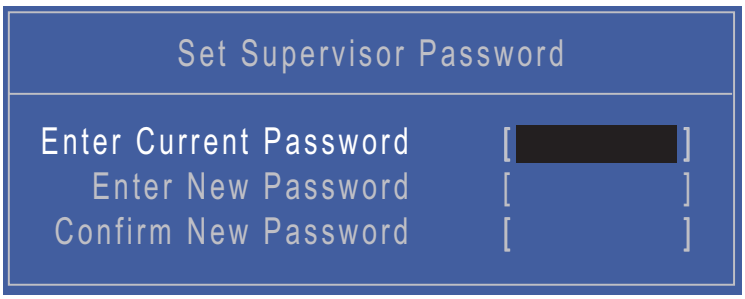
Important: Be very careful when typing your password because the characters do not appear on the screen.

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:

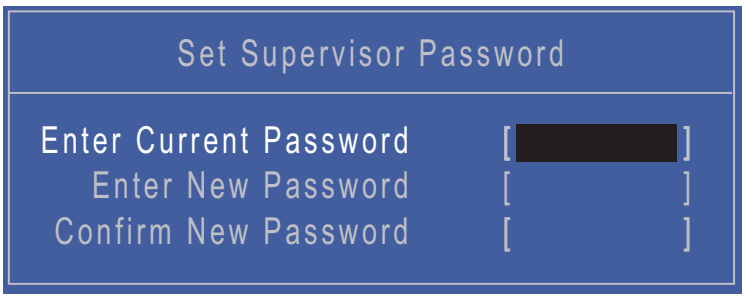
1. Use the ↑ and ↓ keys to highlight the Set Supervisor Password parameter and press the **Enter** key. The Set Password box appears:



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. If an error message is shown, go to step one and repeat the procedure.
5. When you are done, press **F10** 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.



2. Type the current password in the Enter Current Password field and press **Enter**.
3. Type a password in the Enter New Password field. Retype the password in the Confirm New Password field.
4. Press **Enter**. After setting the password, the computer sets the User Password parameter to “Set”.
5. If desired, you can enable the Password on boot parameter.
6. When you are done, press **F10** to save the changes and exit the BIOS Setup Utility.

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

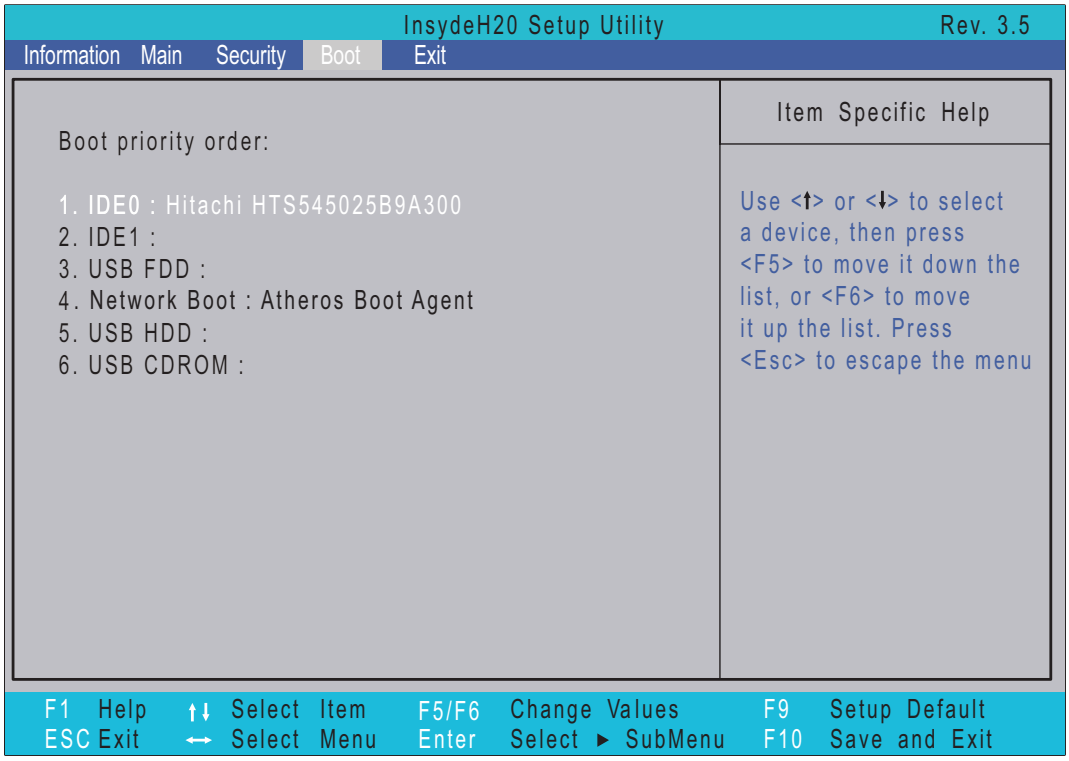
The password setting is complete after the user presses **Enter**.

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

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

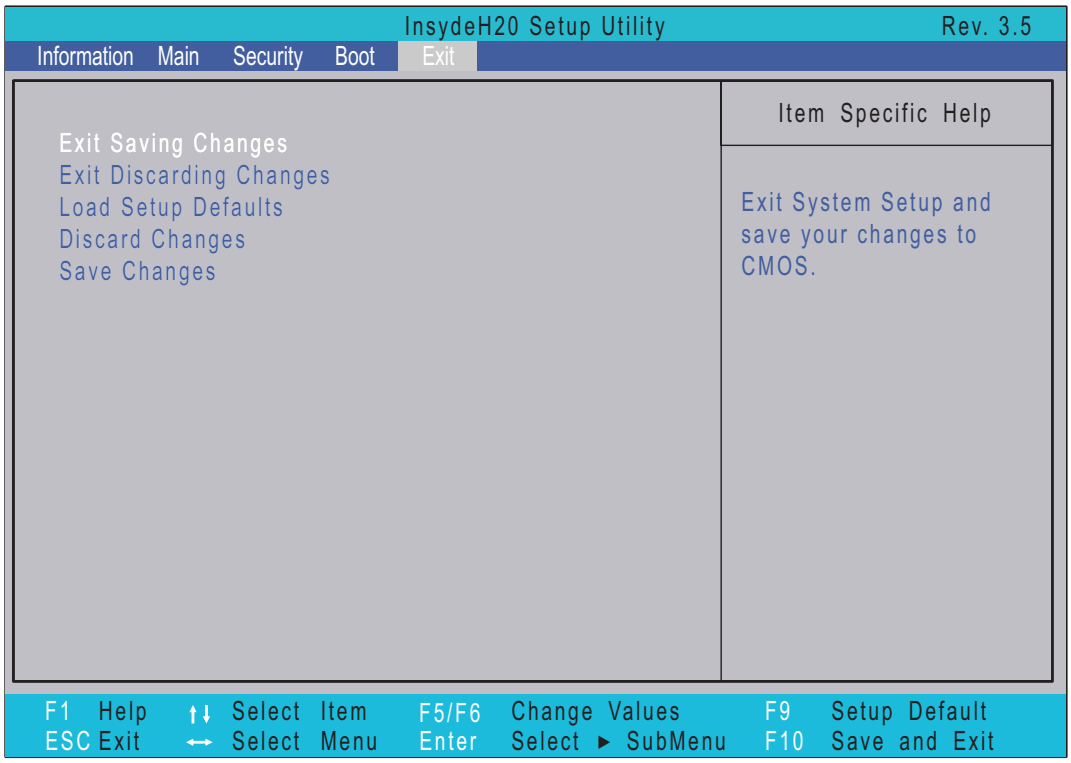
Boot

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



Exit

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



The table below describes the parameters in this screen.

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

BIOS Flash 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 flash 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 flash utility.

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

Note: Please use the AC adaptor power supply when you run the flash 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.

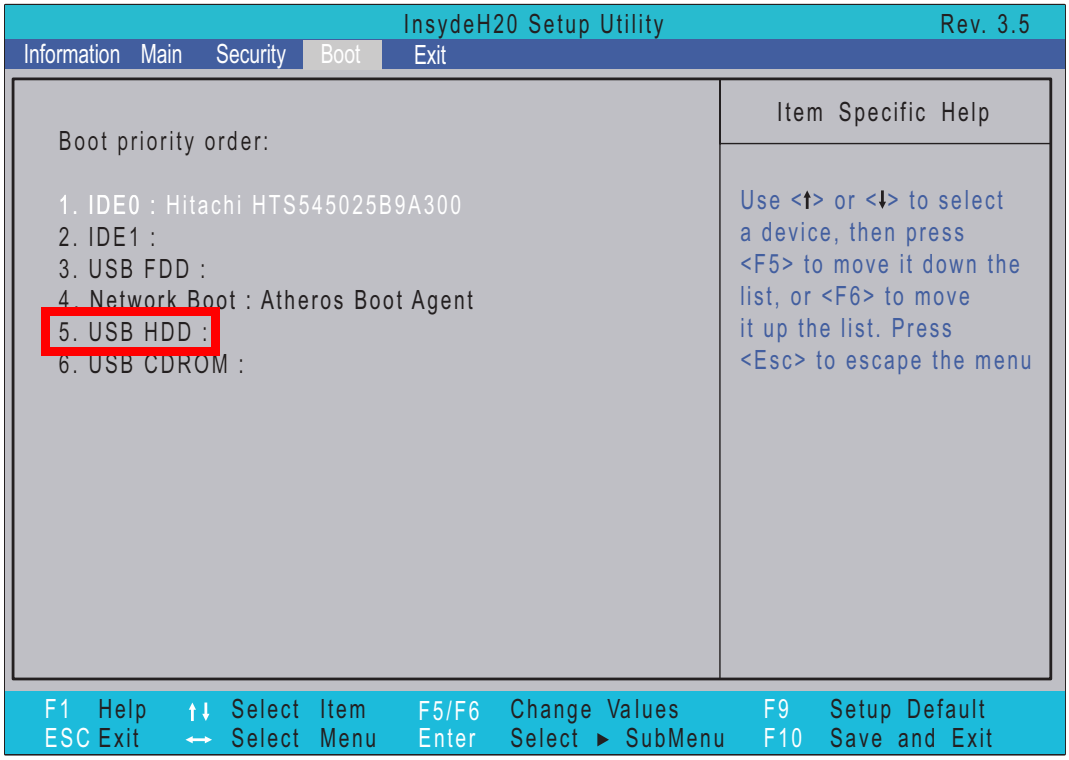
Fellow the steps below to run the flash.

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

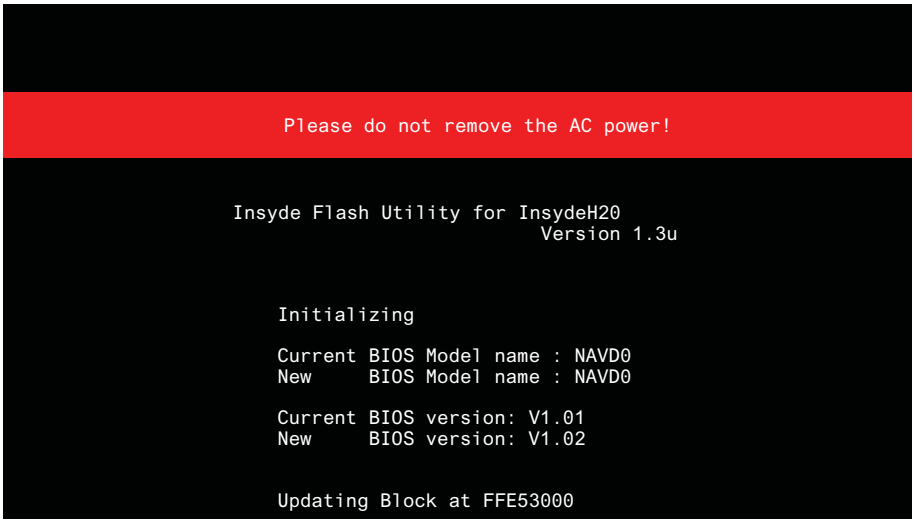
Perform the following steps to use the DOS Flash Utility:

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 **IFLASH.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.

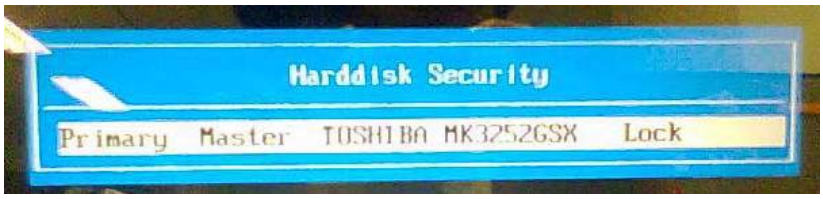
3. When the process is complete, close all programs and applications and reboot the system.

Remove HDD/BIOS Password Utilities

This section provides you with details about removing HDD/BIOS password methods:

Removing HDD Password:

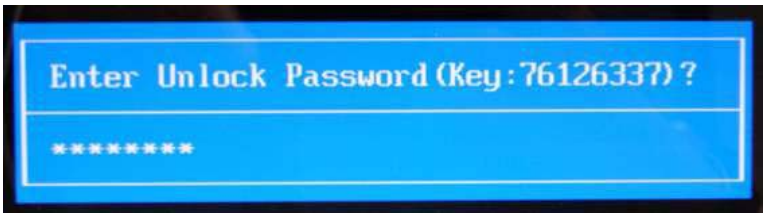
If you key in the wrong HDD password three times, an error is generated.



To reset the HDD password, perform the following steps:

1. After the error is displayed, select the **Enter Unlock Password** option on the screen.

2. An Encode key is generated for unlocking utilities. Note down this key.



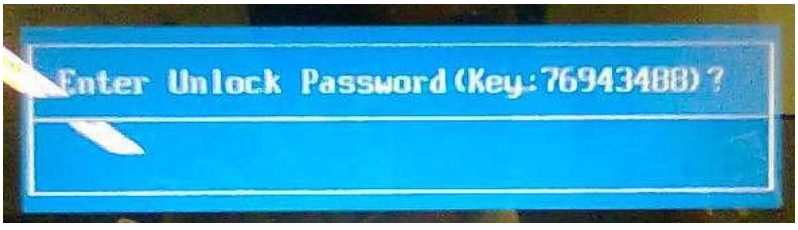
3. Execute the **UnlockHD.EXE** file to create the unlock code in DOS Mode using the format ***UnlockHD [Encode key]*** with the code noted in the previous step, as follows:

   UnlockHD 76943488

4. The command generates a password which can be used for unlocking the HDD.

   Password: 46548274

5. Key in the password from the previous step to unlock the HDD as shown.



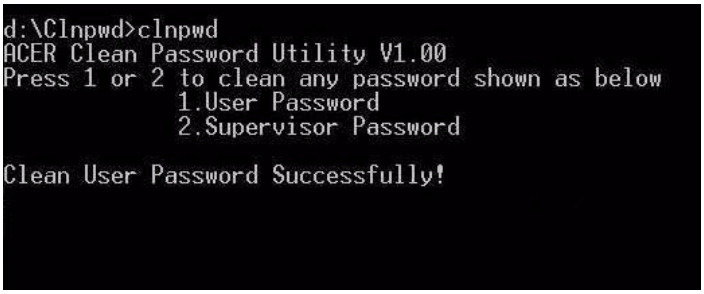
Removing BIOS Passwords:

To clear the User or Supervisor passwords, open the lower door and use a metal instrument to short the **CMOS** jumper as shown below.

Cleaning BIOS Passwords

To clean the User or Supervisor passwords, 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 | /WP | /WS | /WU] [STRING]
   - dmitools /r ==> Read dmi string from bios
   - dmitools /wm xxxx ==> Write manufacturer name to eeprom
   - dmitools /wp xxxx ==> Write product name to eeprom
   - dmitools /ws xxxx ==> Write serial number to eeprom
   - dmitools /wu xxxx ==> Write uuid to eeprom
   - dmitools /wa xxxx ==> Write asset tag to eeprom

Important: 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): eMachines

Product Name (Type1, Offset05h): eMachines xxxxx

Serial Number (Type1, Offset07h): 01234567890123456789

UUID String (Type1, Offset08h): xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx

Asset Tag (Type3, Offset04h): eMachines Asstag

Example 2: Write Product Name to EEPROM

Input:

dmitools /wp eMachines

Example 3: Write Serial Number to EEPROM

Input:

dmitools /ws 01234567890123456789

Example 4: Write UUID to EEPROM (Create UUID from Intel WFM20.pdf)

Input:

dmitools /wu

Example 5: Write Asset Tag to EEPROM

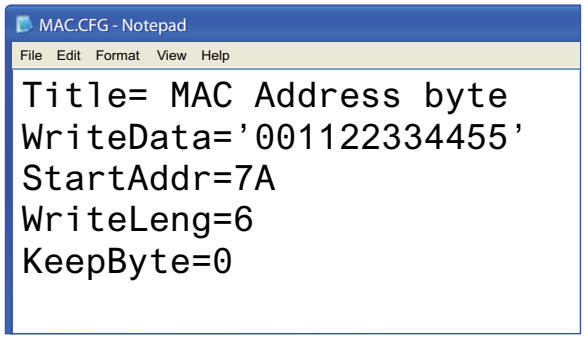
Input:

dmitools /wa eMachines Asstag

Using the LAN MAC Utility

Perform the following steps to write MAC information to eeprom:

1. Use a text editor, for example Notepad, to edit the MAC.CFG file as shown:



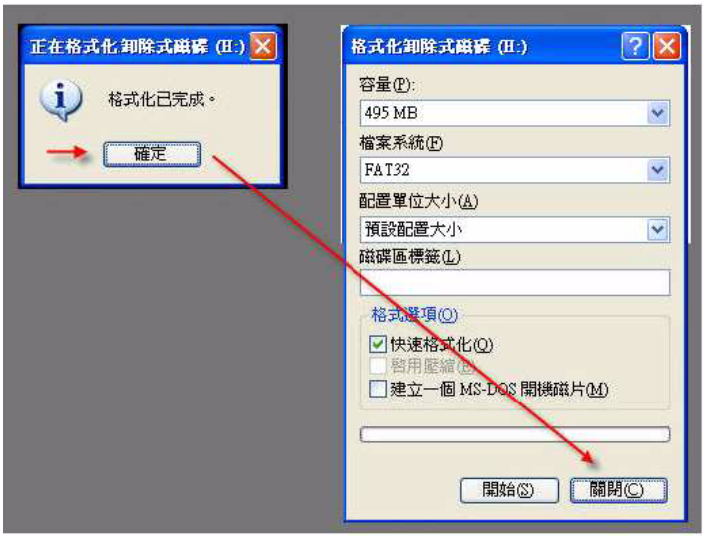
   - WriteData= '001122334455' <------- MAC value
   - StartAddr=7A <------- MAC address
   - WriteLeng=6 <------- MAC value length
   - KeepByte=0 <------- can be any value
2. Boot into DOS.
3. Execute **MAC.BAT** to write MAC information to eeprom.

```
C:\MAC>mac.bat

C:\MAC>eeprom w MAC.cfg

Progress --> \

Write Data to EEPROM OK!!
```

Creating a USB Flash Crisis Disk

1. Plug in the USB flash disk.
2. Select the **Fast Format** option and click **Start**. Then click **Next**.

3. Click **Format** and then **Exit** to complete the operation.



4. Copy the KAV60.fd to the USB flash disk root directory.

Note: Do not place any other *.fd files to the USB flash disk root directory.

Using the crisis disk

1. Plug in the USB Flash Disk without AC plug.
2. Press Fn+esc keys and hold them down, then plug in AC power. The power button flashes orange.
3. Press power button and the system will enter crisis mode to flash the BIOS.

Machine Disassembly and Replacement

Important: The outside housing and color may vary from the mass produced model.

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

Note: These procedures may not reflect the branding of your machine.

Disassembly Requirements

To disassemble the computer, you need the following tools:

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

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

General Information

Pre-disassembly Instructions

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

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

6. Place the system on a flat, stable surface.

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 mainboard, you must first remove the keyboard, then disassemble the inside assembly frame in that order.

Main Screw List

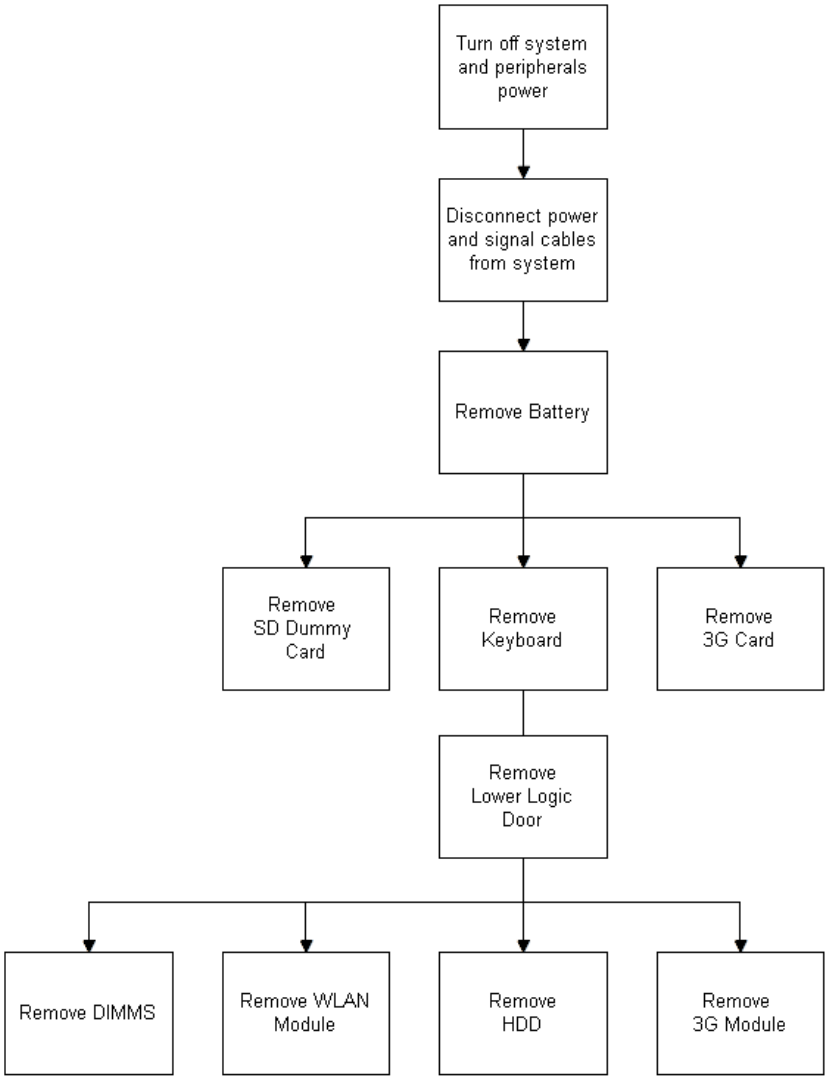
Screw	Quantity	Part Number
M2*7	12	86.SDE02.005
M2*3	16	86.SDE02.002
M3*3 Ni	8	86.SDE02.006
M2*5	7	86.SDE02.004
M2*3 (t=0.04)	2	86.SDE02.001
M2*4 Ni	2	86.SDE02.003

External Module Disassembly Process

Important: The outside housing and color may vary from the mass produced model.

External Modules Disassembly Flowchart

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



Screw List

Step	Screw	Quantity	Part No.
Lower Door	M2*7	4	86.SDE02.005
HDD Module	M2*3	1	86.SDE02.002
HDD Carrier	M3*3Ni	4	86.SDE02.006
3G Module	M2*3	1	86.SDE02.002
WLAN Module	M2*3	1	86.SDE02.002

Removing the Battery Pack

1. Turn computer over. Slide the battery lock in the direction shown.

2. Pull and hold the battery release latch into the open position (1), then lift out the battery pack from the main unit (2).

Note: The battery has been highlighted with a yellow oval as shown in the above image. Please detach the battery and follow local regulations for disposal.

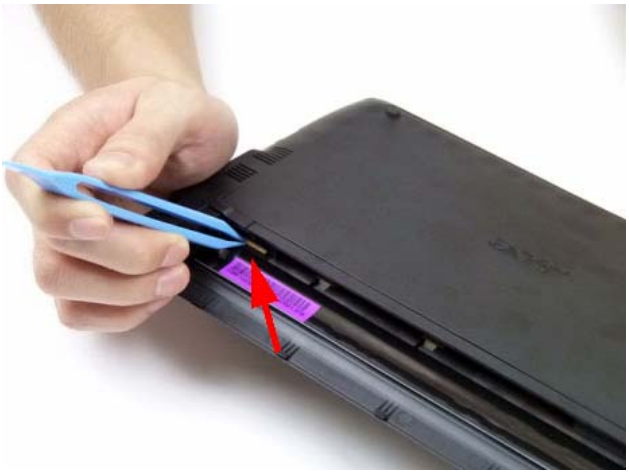
Removing the SD Dummy Card

1. See “Removing the Battery Pack” on page 48.
2. Push the SD dummy card inwards to eject it.

3. Pull the card out from the slot.

Removing the 3G Card

1. See “Removing the Battery Pack” on page 48.
2. Push the 3G card into the slot to eject it.



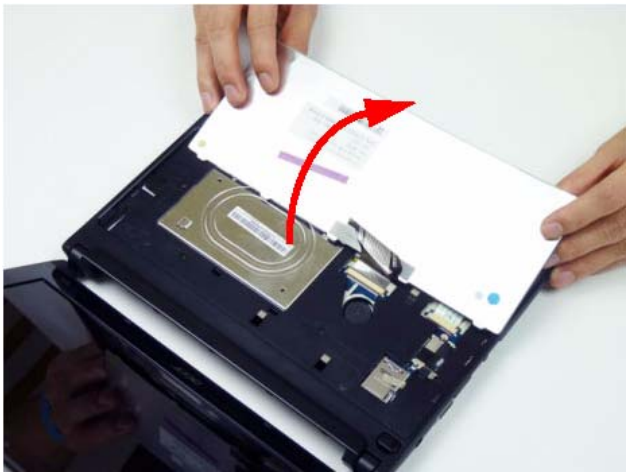
3. Pull the card out from the slot.

Removing the Keyboard

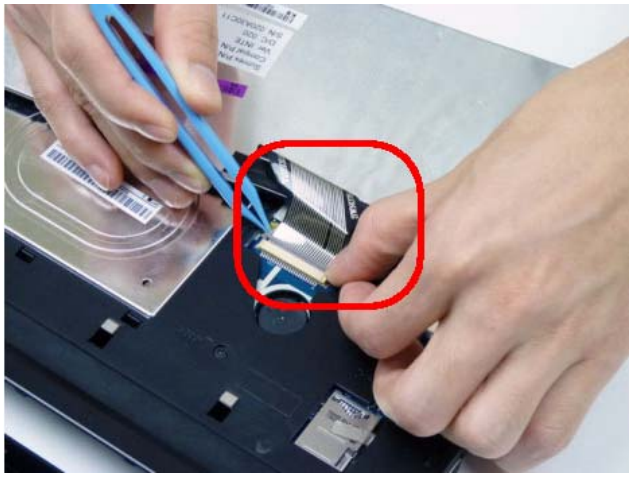
1. See “Removing the Battery Pack” on page 48.
2. Push down on the four (4) latches holding the top center of the keyboard.

3. Pull up the top center of the keyboard.

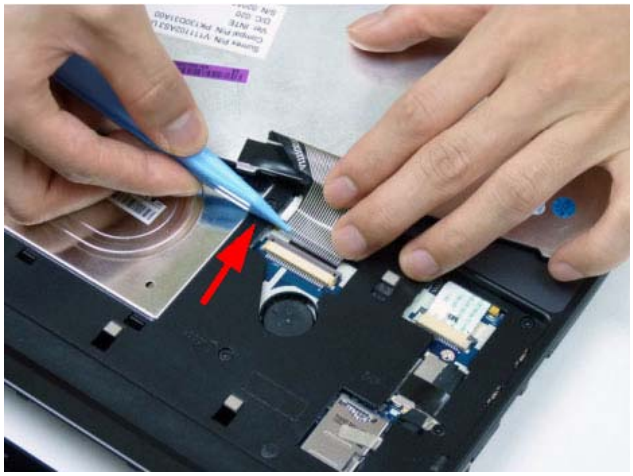
4. Turn the keyboard over.



5. Unlock the FPC.

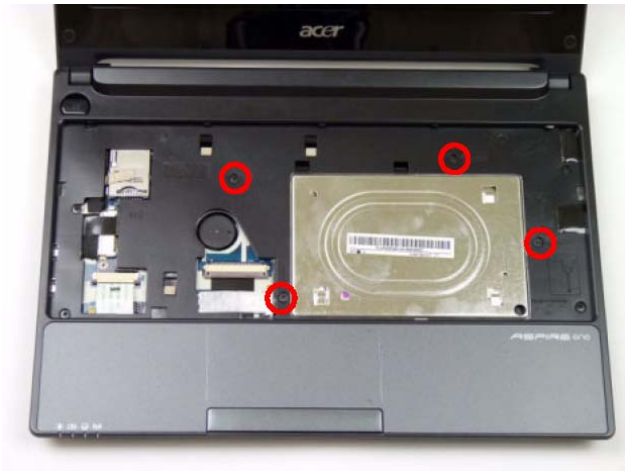


6. Remove the FPC and the keyboard.



Removing the Lower Door

1. See “Removing the Keyboard” on page 51.
2. Remove the four (4) screws from the upper cover as shown.

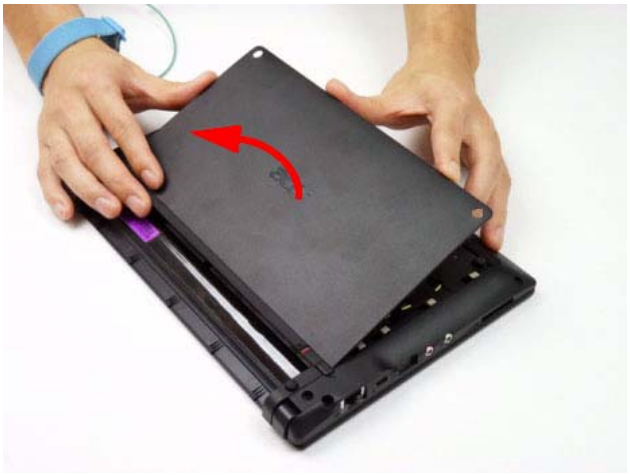


4

Step	Size	Quantity	Screw Type
Lower Door	M2*7	4	

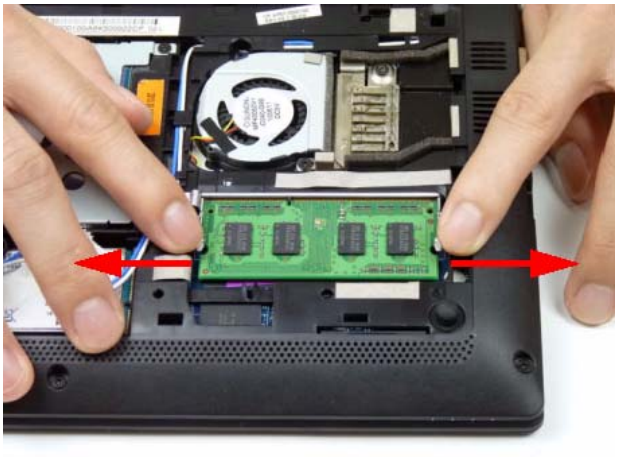
3. Using a screwdriver or other straight tool, push through the hole in the upper cover to release the lower door.

4. Turn the computer over and remove the lower cover door.



Removing the DIMM Module

1. See “Removing the Lower Door” on page 53.
2. Push out the release latches on both sides of the DIMM socket to release the DIMM module.



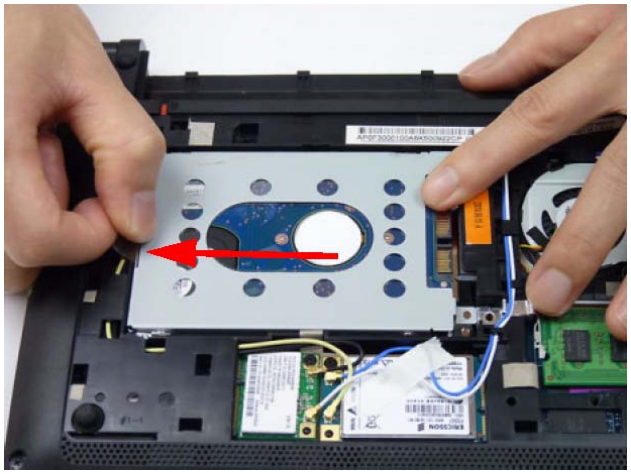
3. Remove the DIMM module.

Removing the HDD Module

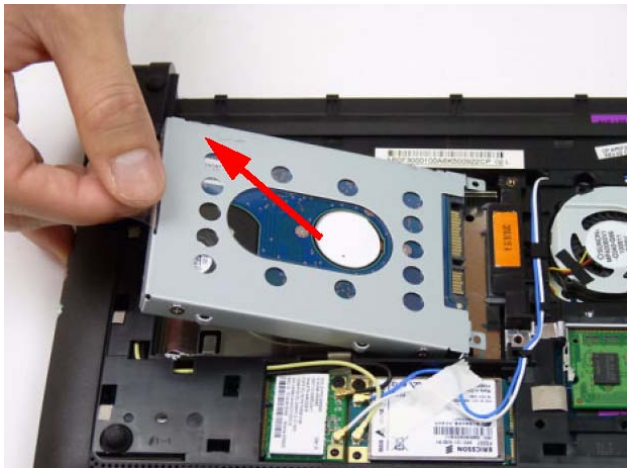
1. See “Removing the Lower Door” on page 53.
2. Remove the one (1) screw from the chassis.

Step	Size	Quantity	Screw Type
HDD Module	M2*3	1	

3. Grasp the pull-tab and pull the HDD module away from the connector.



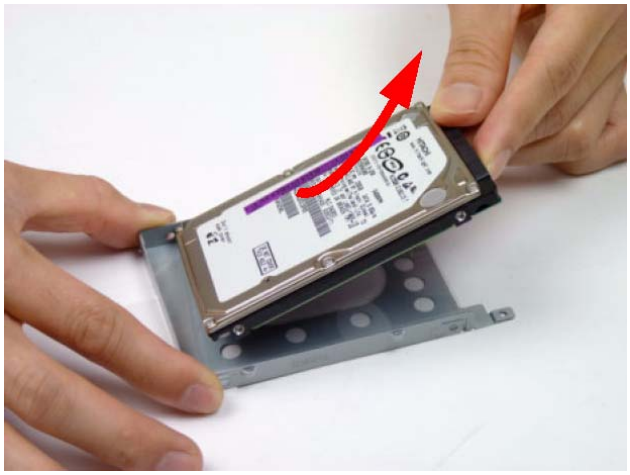
4. Remove the HDD module.



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

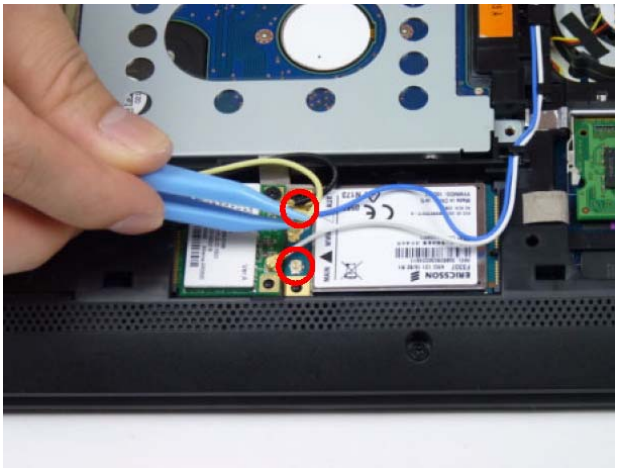
Step	Size	Quantity	Screw Type
HDD Carrier	M3*3 Ni	4	

6. Remove the HDD from the carrier.



Removing the 3G Module

1. See “Removing the Lower Door” on page 53.
2. Disconnect the antenna cables from the 3G module.



Note: Cable placement is YELLOW to the MAIN terminal (closest to the edge of the computer) and BLUE to the AUX terminal (closest to the HDD).

3. Move the antennas away and remove the one (1) screw.

Step	Size	Quantity	Screw Type
3G Module	M2*3	1	

4. Remove the 3G module from the 3G socket.

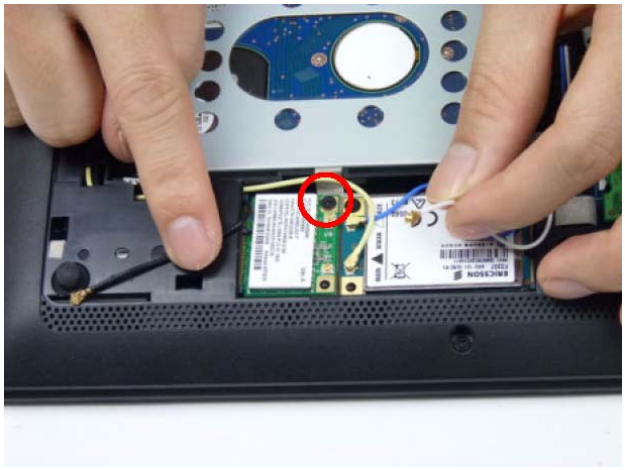
Note: When removing the 3G Module, the WLAN antenna cables may be removed to simplify the procedure.

Removing the WLAN Module

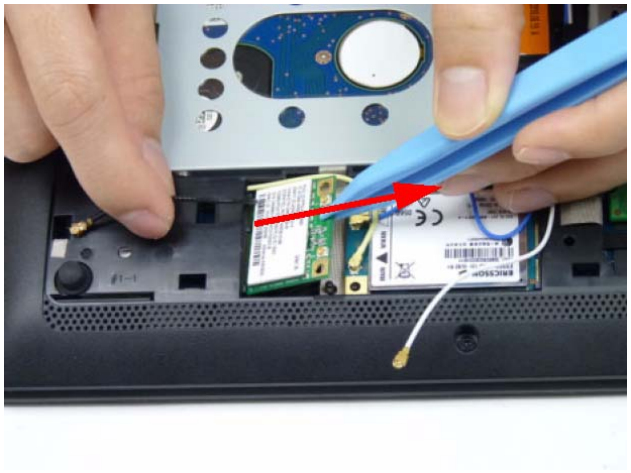
1. See “Removing the Lower Door” on page 53.
2. Disconnect the antenna cables from the WLAN module.

Note: Cable placement is Black to the MAIN terminal (closest to the HDD) and White to the AUX terminal (closest to the edge of the computer).

3. Move the antenna cables away and remove the one (1) screw.



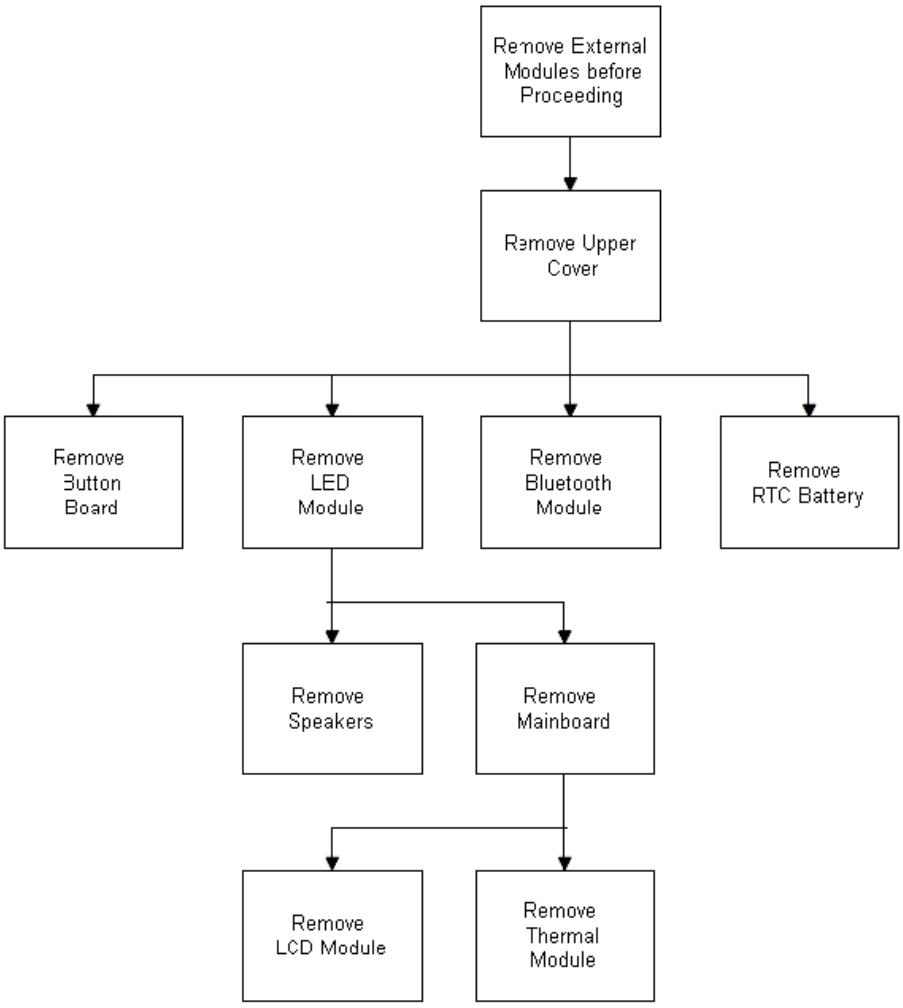
Step	Size	Quantity	Screw Type
WLAN Module	M2*3	1	



Note: When removing the WLAN module, the 3G antenna cables may be removed to simplify the procedure.

Main Unit Disassembly Process

Main Unit Disassembly Flowchart

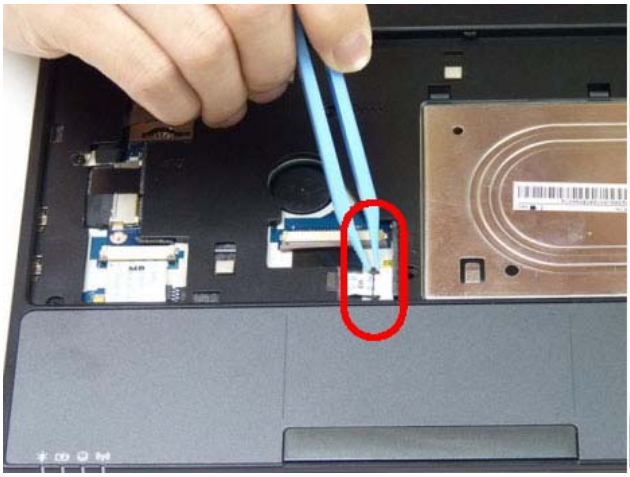


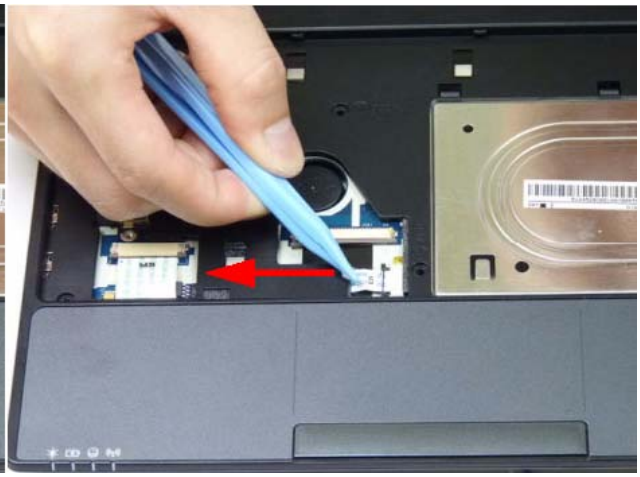
Screw List

Step	Screw	Quantity	Part No.
Upper Cover	M2*7	4	86.SDE02.005
Lower Cover	M2*5	7	86.SDE02.004
Button Board	M2*3 (t=0.04)	2	86.SDE02.001
LED Board	M2*3)	1	86.SDE02.002
Speakers	M2*3	4	86.SDE02.002
Mainboard	M2*3	2	86.SDE02.002
Thermal module	M2*3	3	86.SDE02.002
LCD Module	M2*4 Ni	2	86.SDE02.003

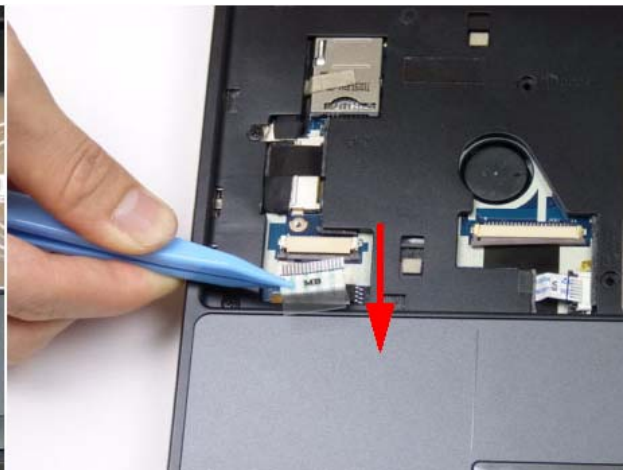
Removing the Upper Cover

1. See “Main Unit Disassembly Flowchart” on page 60.
2. Unlock and remove the touchpad FFC.





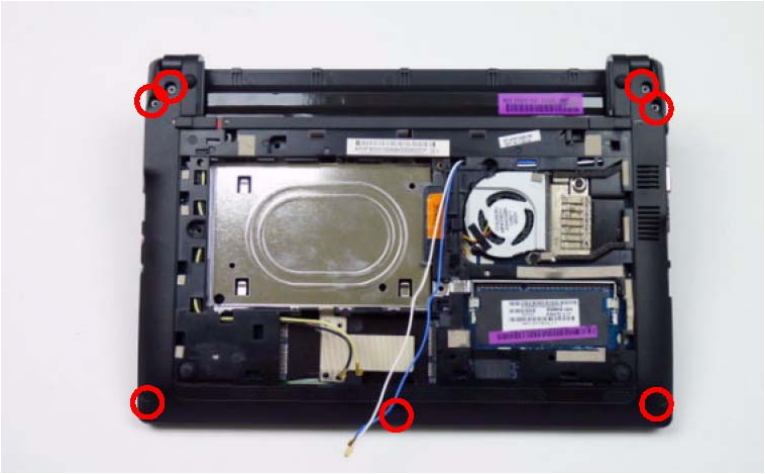
3. Unlock and remove the LED FFC.



4. Remove the four (4) remaining screws from the upper cover.

Step	Size	Quantity	Screw Type
Upper Cover	M2*7	4	

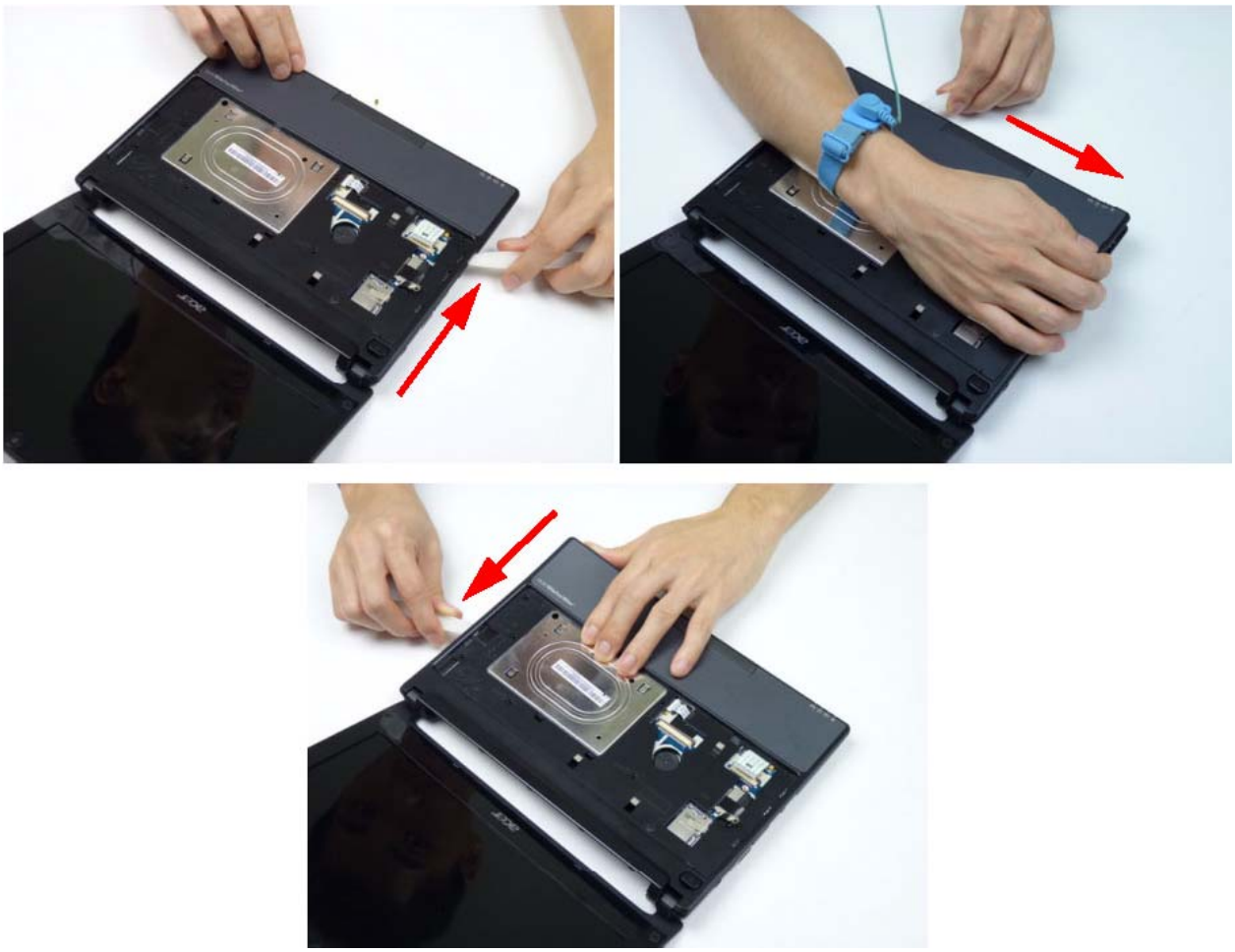
5. Remove the seven (7) screws from the chassis.



Step	Size	Quantity	Screw Type
Lower Cover	M2*5	7	

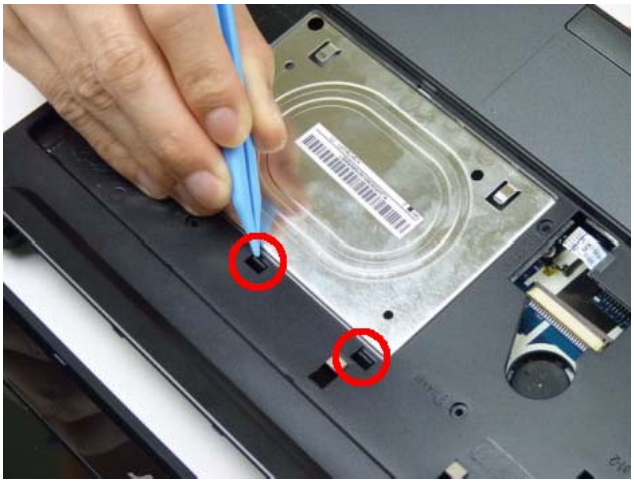
6. Starting at the top left corner, pull up on the upper cover to unhook the latches which secure the top cover to the chassis.

7. Continue by inserting a flat, plastic tool to unhook the remaining latches as shown.

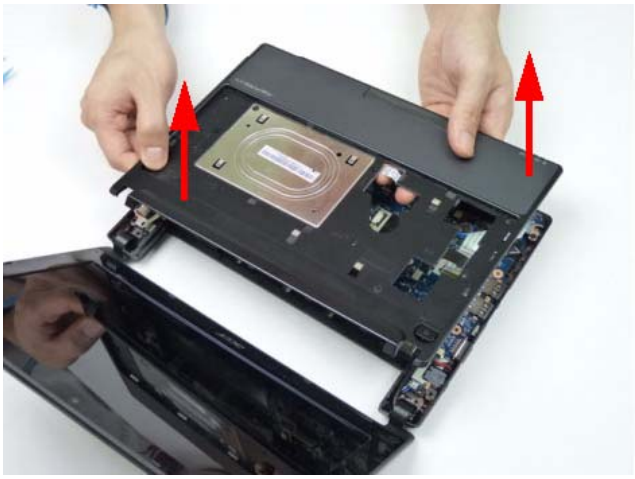


Note: To prevent damage to the internal components, do not push the tool in too far.

8. Use a plastic tool to unlock the two latches (red callouts) located above the HDD cover.

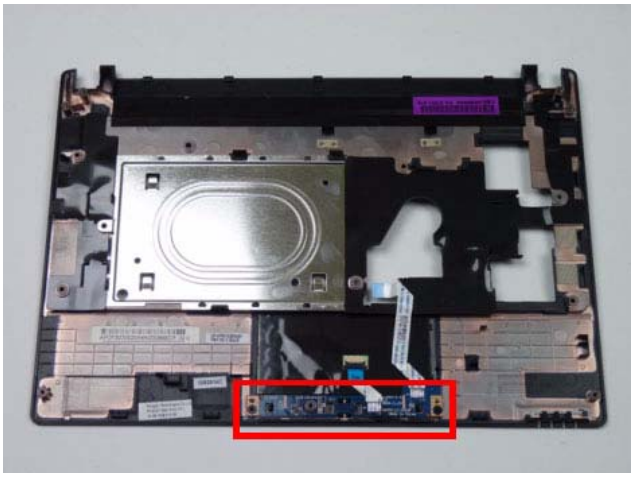


9. Remove the upper cover.

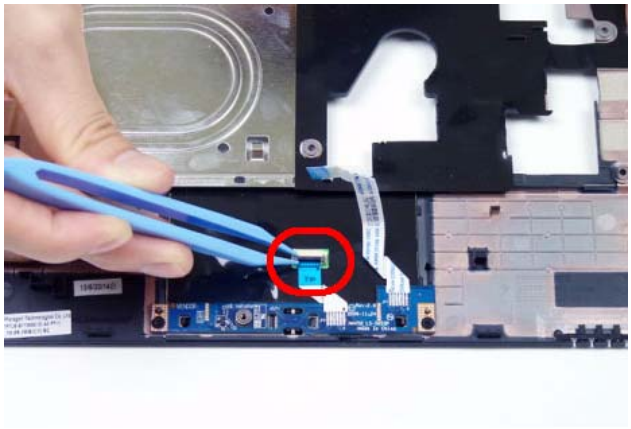


Removing the Button Board

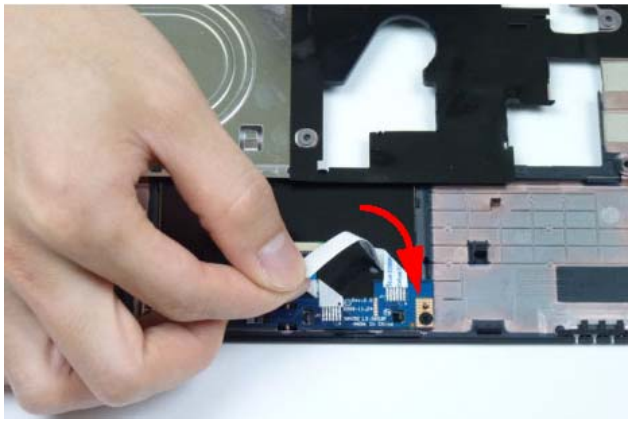
1. See “Removing the Upper Cover” on page 61.
2. Locate the button board on the upper cover.



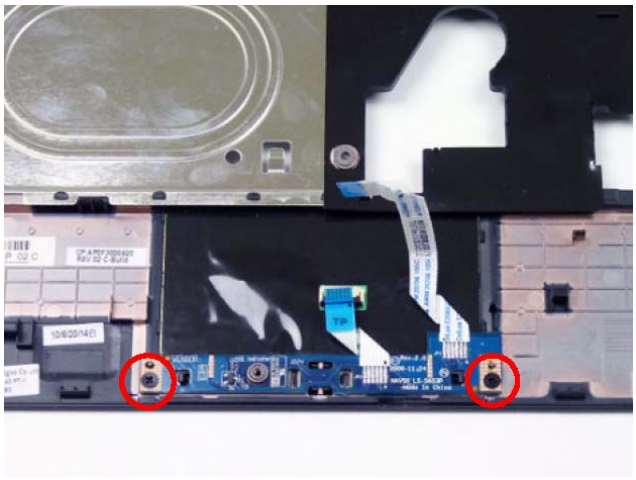
3. Release the touchpad FFC locking latch and disconnect the touchpad FFC from the cover.



4. Pull the button board FFC off the adhesive.

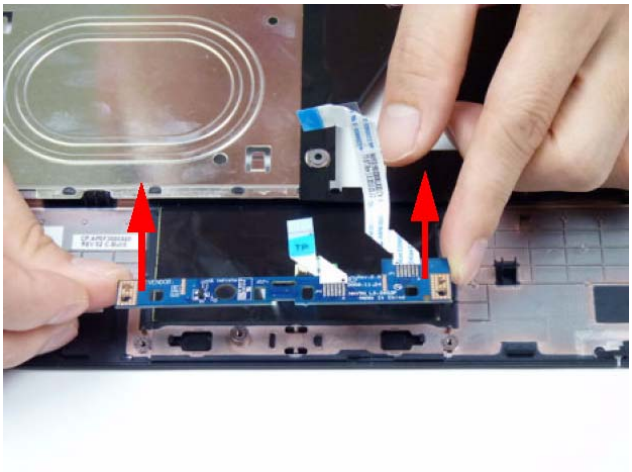


5. Remove the two (2) screws securing the button board to the upper cover.



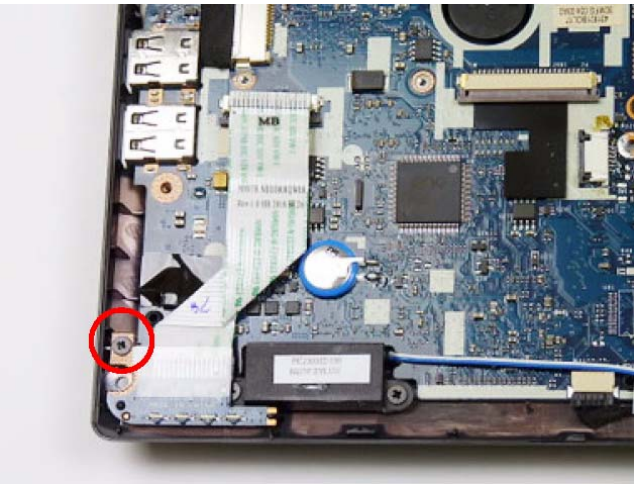
Step	Size	Quantity	Screw Type
Button Board	M2*3 (t=0.04)	2	

6. Remove the button board from the upper cover.



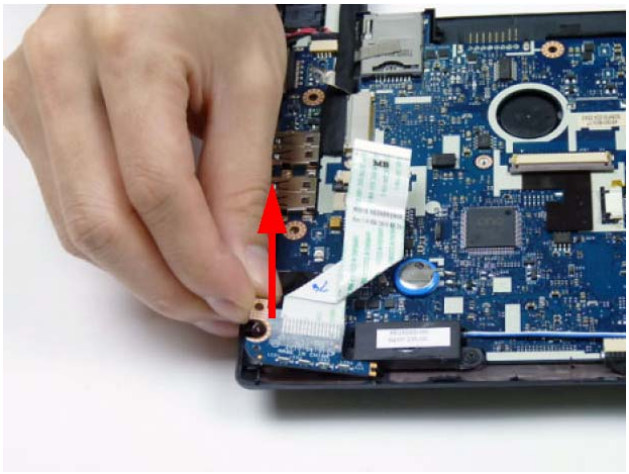
Removing the LED Board

1. See “Removing the Upper Cover” on page 61.
2. Remove the one (1) screw from the chassis.



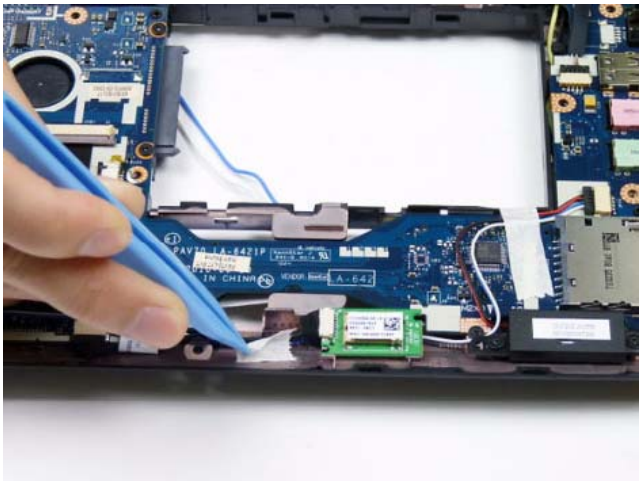
Step	Size	Quantity	Screw Type
LED Board	M2*3	1	

3. Remove the LED board from the chassis.

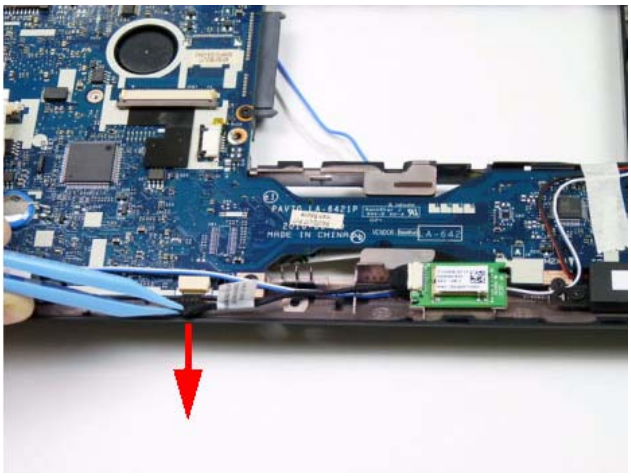


Removing the Bluetooth Module

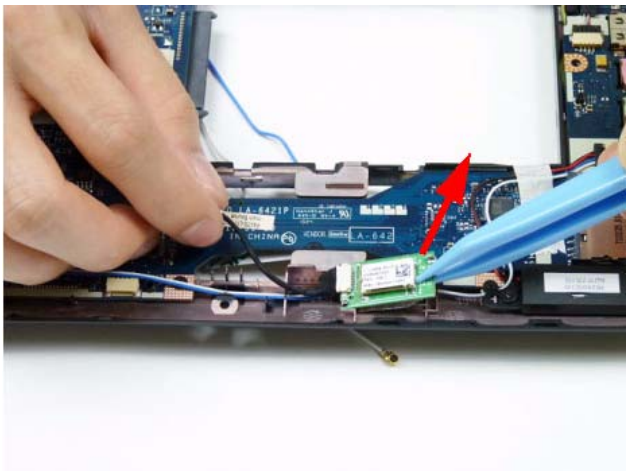
1. See “Removing the Upper Cover” on page 61.
2. 2. Remove the adhesive tape securing the Bluetooth cable to the chassis.



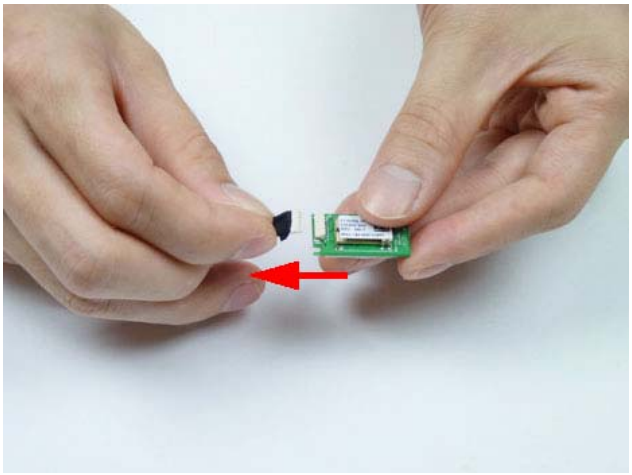
3. Disconnect the Bluetooth cable from the mainboard connector.



4. Lift the Bluetooth module off the adhesive.

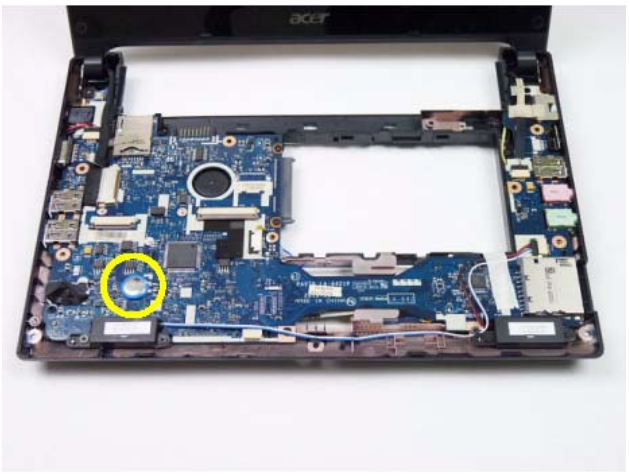


5. Disconnect the cable from the Bluetooth module.



Removing the RTC Battery

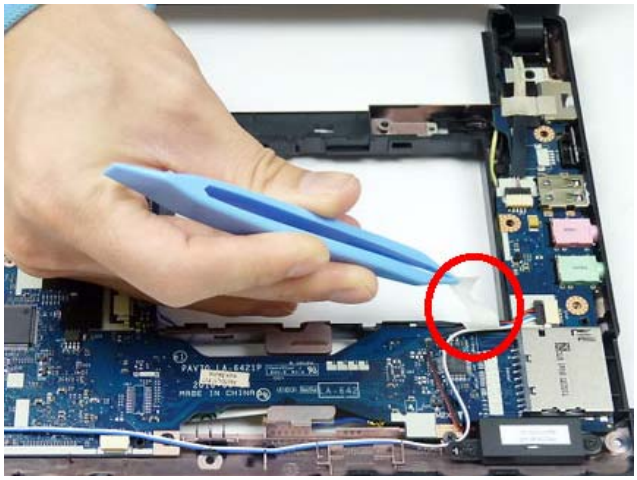
1. See “Removing the Upper Cover” on page 61.
2. The RTC battery is soldered in place. Break the solder and remove the RTC battery.



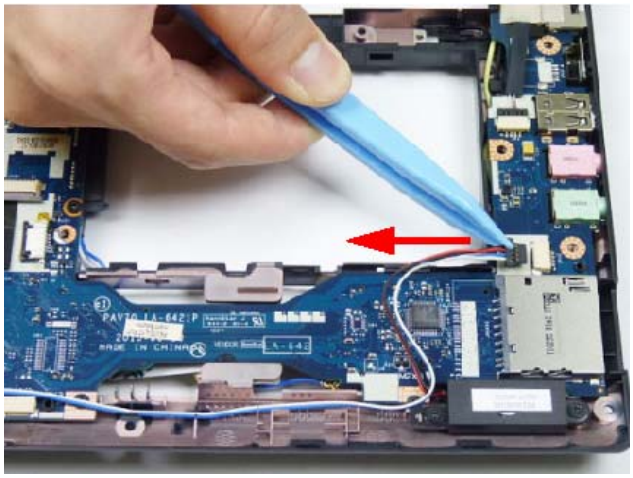
Note: The battery has been highlighted with a yellow oval as shown in the above image. Please detach the battery and follow local regulations for disposal.

Removing the Speaker Module

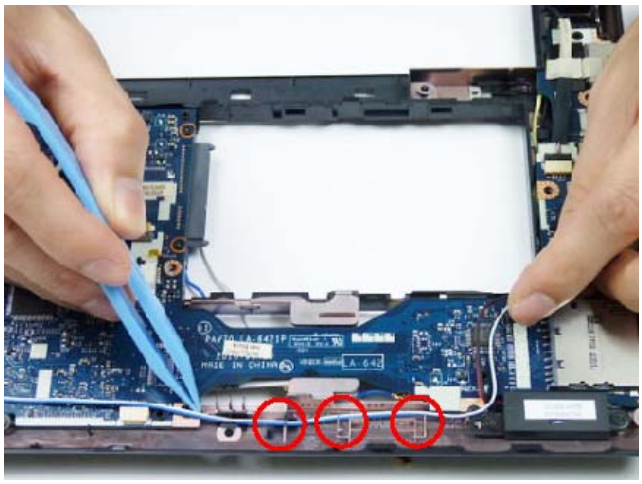
1. See “Removing the Upper Cover” on page 61.
2. Remove the adhesive tape securing the speaker cable.



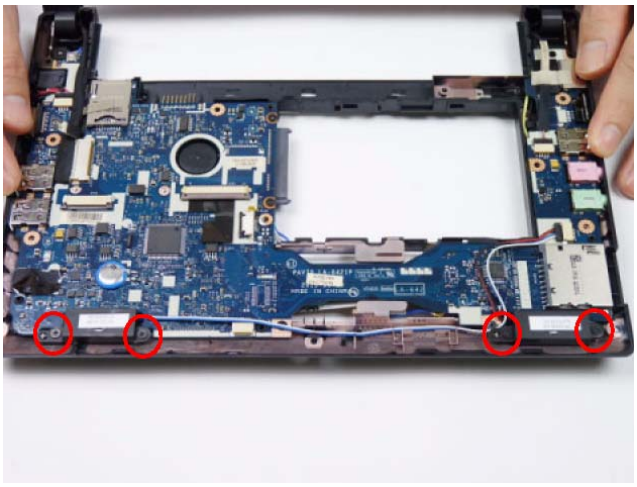
3. Disconnect the speaker cable from the mainboard connector.



4. Remove the speaker cable from the cable guides.

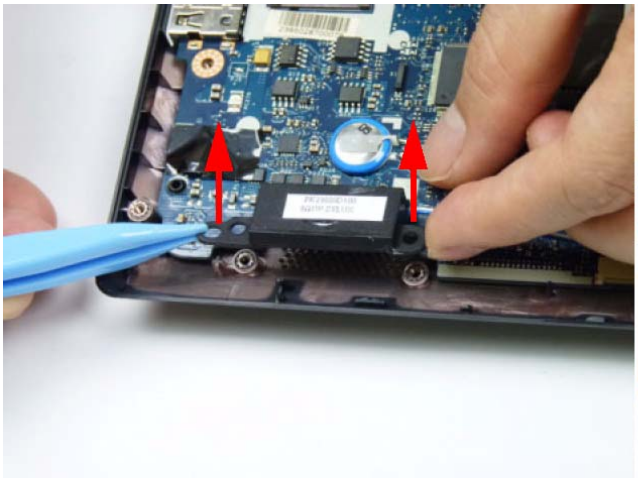


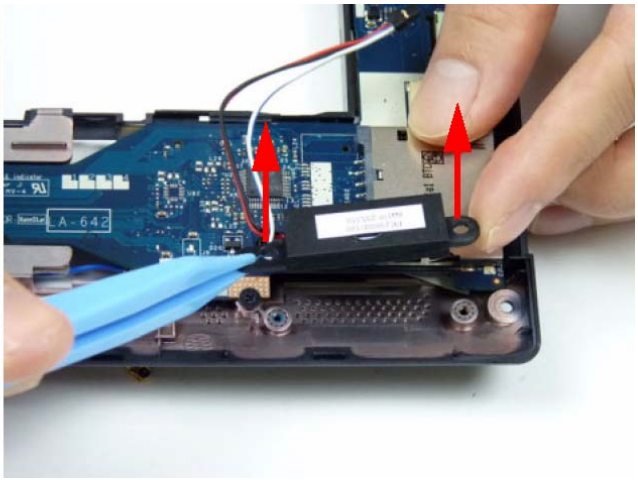
5. Remove the four (4) screws from the chassis.



Step	Size	Quantity	Screw Type
Speakers	M2*3	4	

6. Remove the speakers from the chassis.



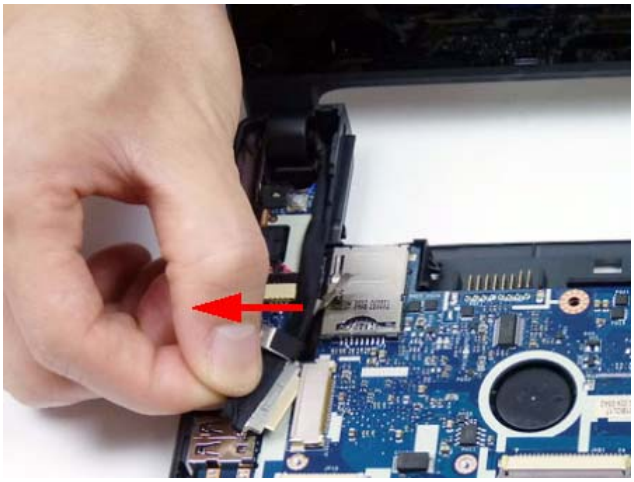


Removing the Mainboard

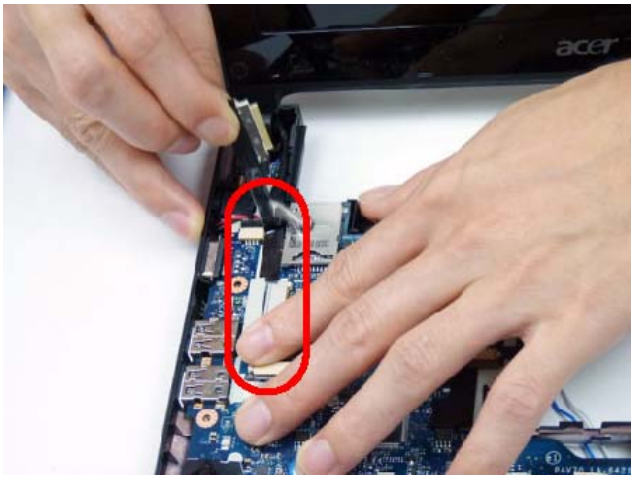
Note: Ensure speaker cable is clear before removal of mainboard.

1. See “Removing the LED Board” on page 67.
2. Pull the LVDS grounding wire from the 3G card casing.

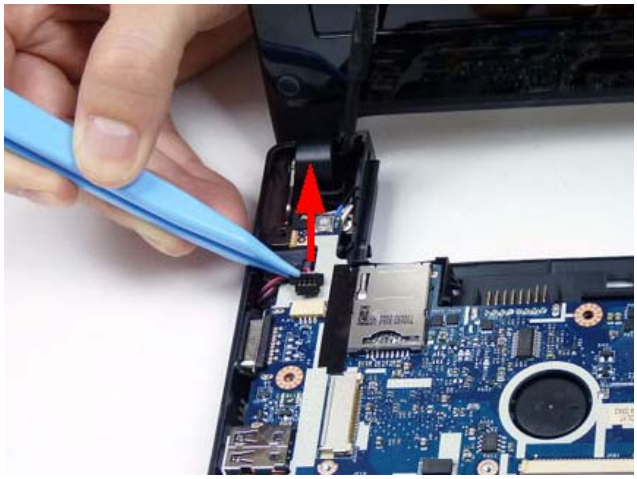
3. Disconnect the LVDS cable from the connector.



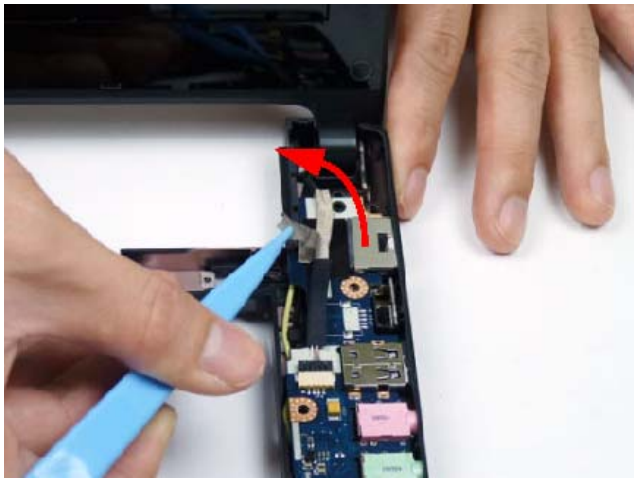
4. Remove the LVDS cable from the adhesive strip on the mainboard.



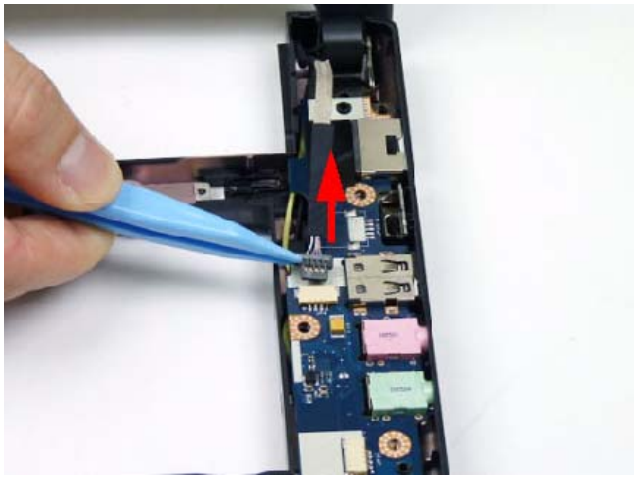
5. Disconnect the DC-In cable from the connector.



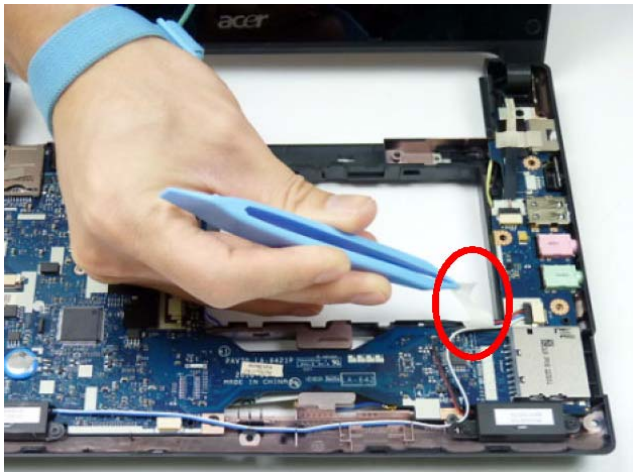
6. Pull the microphone grounding wire from the LAN casing.



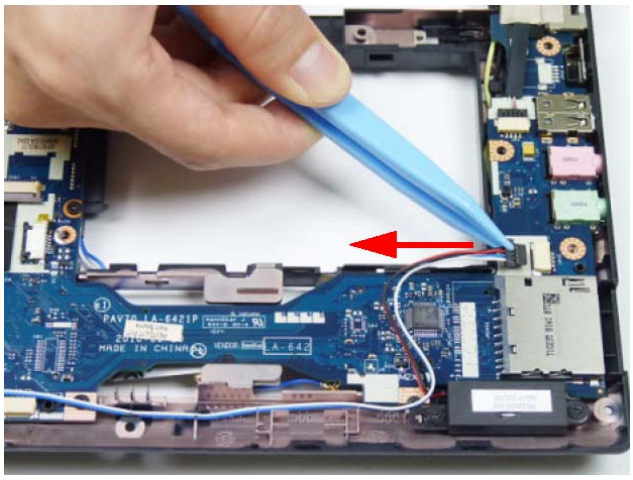
7. Disconnect the microphone cable from the connector.



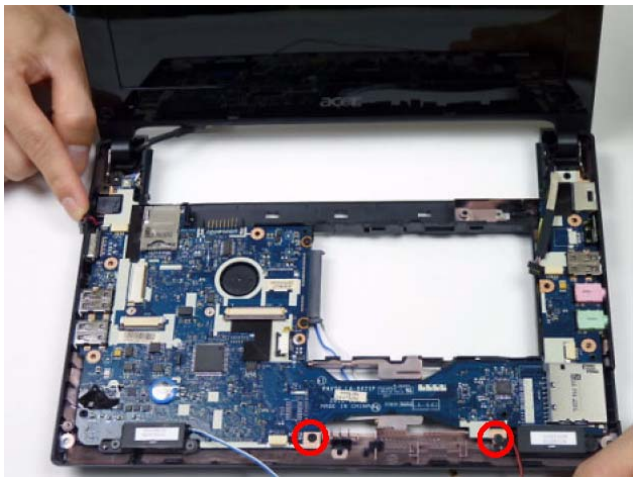
8. Remove the adhesive tape securing the speaker cable.



9. Disconnect the speaker cable from the mainboard connector.

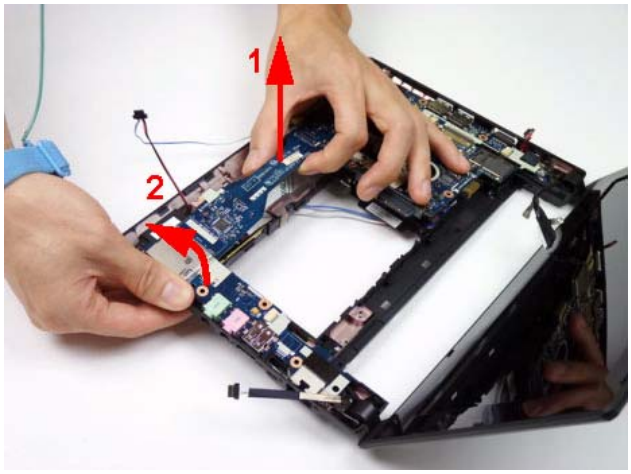


10. Remove the two (2) screws from the chassis.



Step	Size	Quantity	Screw Type
Mainboard	M2*3	2	

11. With one hand, pull up on the bridge of the mainboard (1) and with the other, hold the bottom of chassis and press up and out (2).

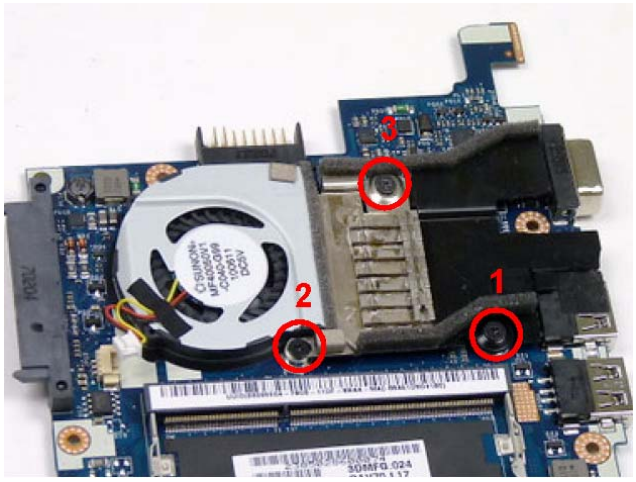


12. Remove the mainboard from the chassis.

Removing the Thermal Module

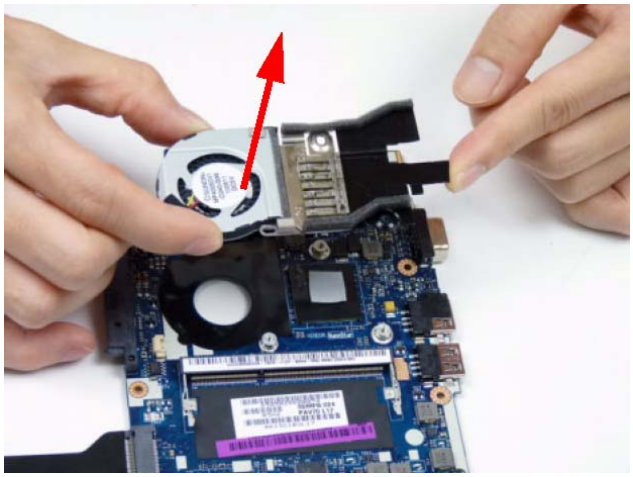
1. See “Removing the Mainboard” on page 72.
2. Disconnect the fan cable from the connector.

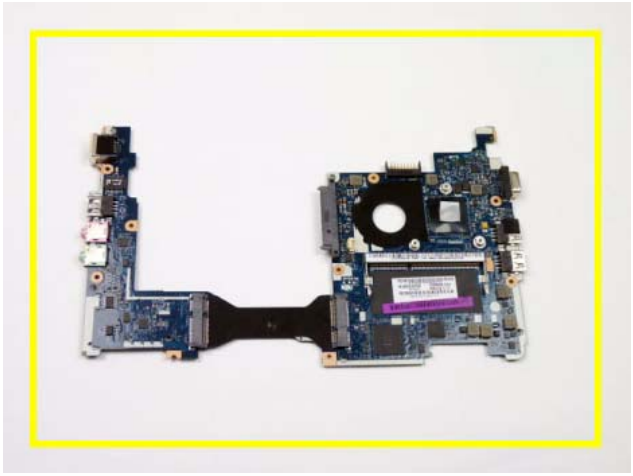
3. Remove the three (3) screws in order from 1 to 3.



Step	Size	Quantity	Screw Type
Thermal module	M2*3	3	

4. Remove the thermal module from the mainboard.

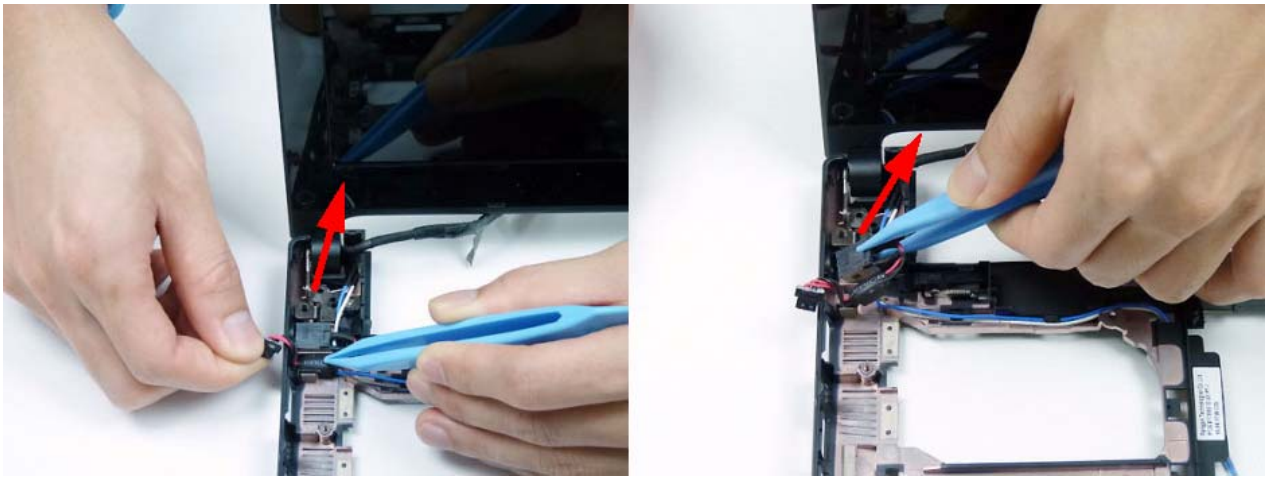




Note: Circuit boards >10 cm² have been highlighted with a yellow rectangle as shown in the previous image. Please detach the Circuit board and follow local regulations for disposal.

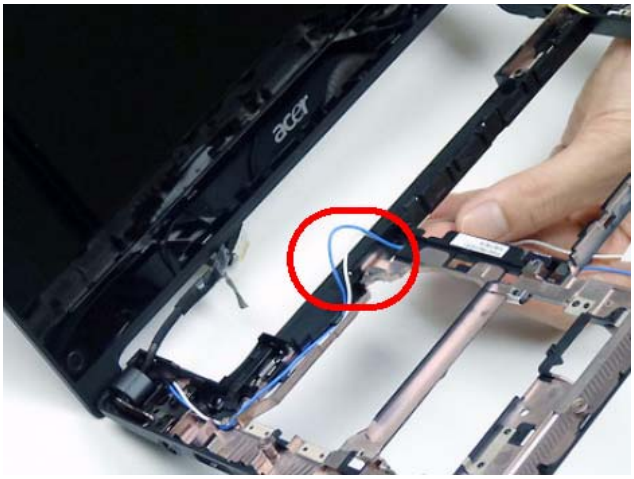
Removing the LCD Module

1. See “Removing the Mainboard” on page 72.
2. Remove the DC-In cable and jack housing from the chassis.

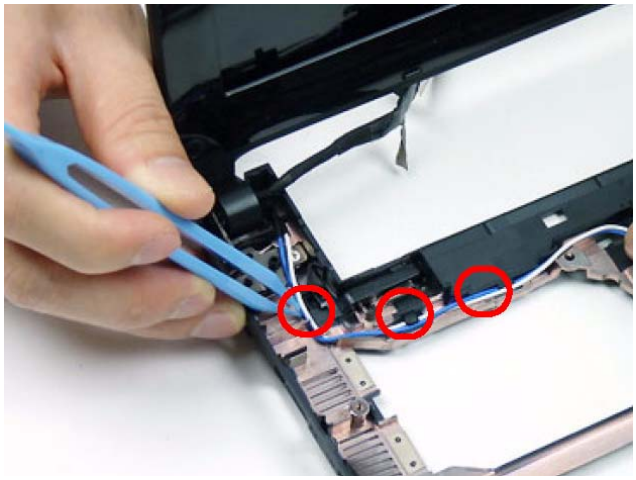


3. Remove the left antenna cables from the cable guides on the bottom cover.

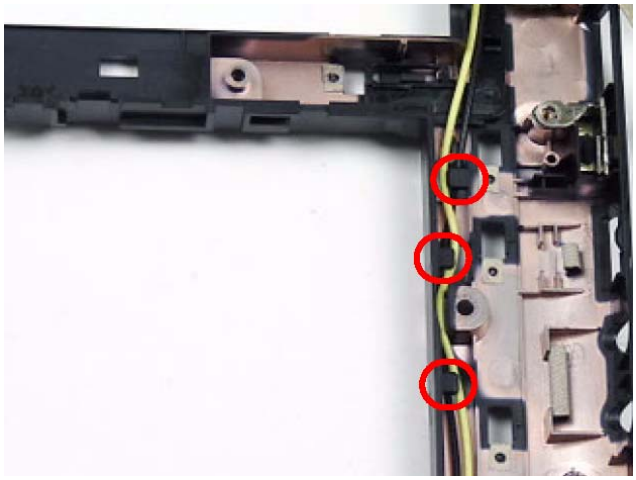
4. Lift up the chassis and pull the left antenna cables through to the front.



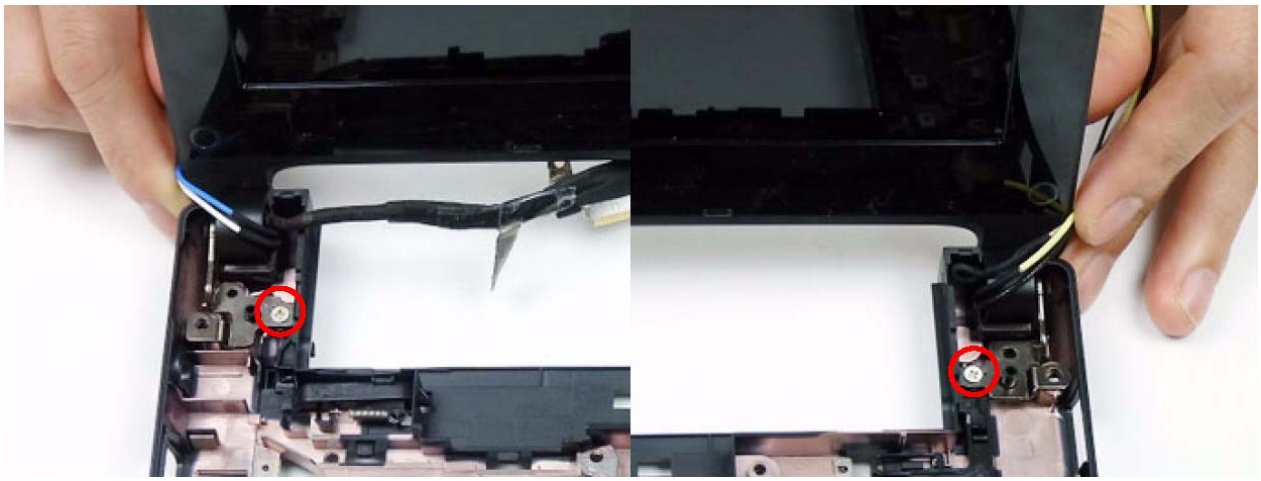
5. Remove the left antenna cables from the retention guides.



6. Pull the right antenna cables through the chassis and remove the cables from the retention guides.

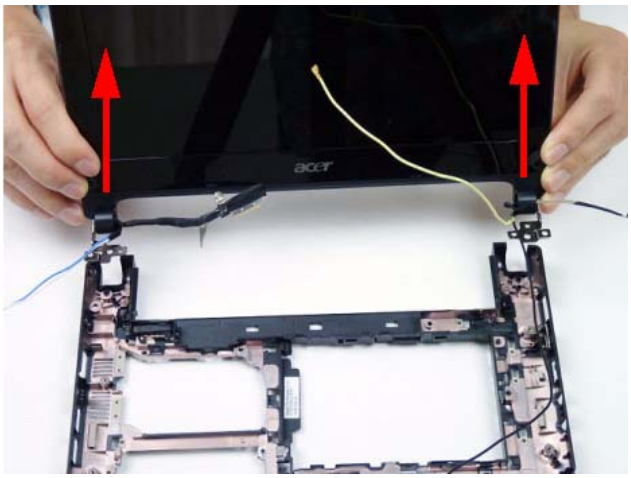


7. Remove the two (2) hinge screws from the chassis.



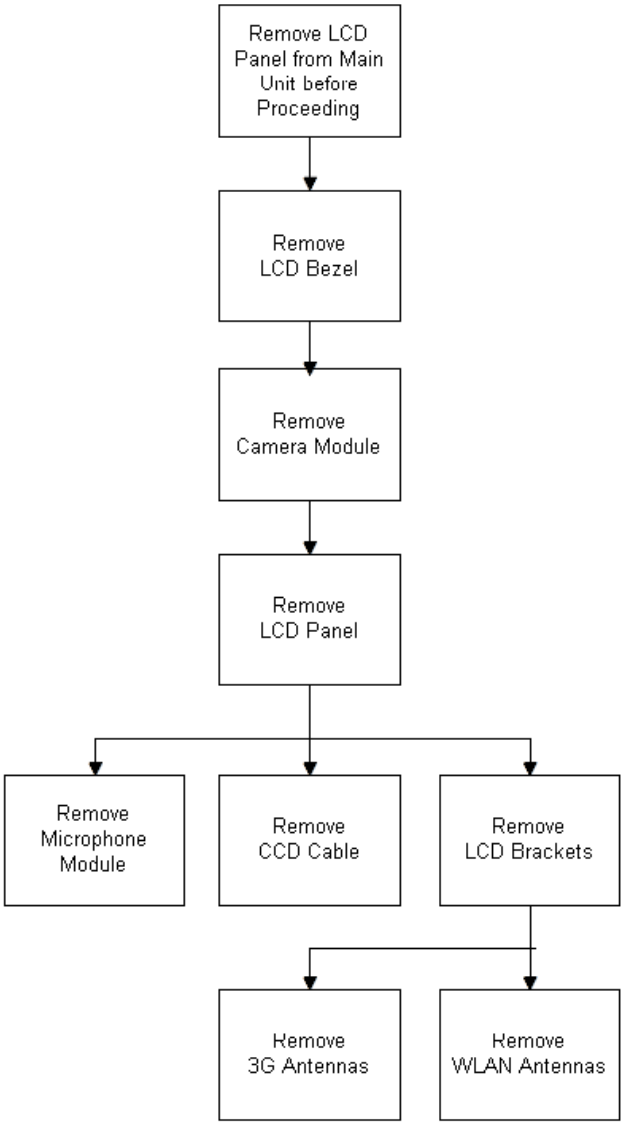
Step	Size	Quantity	Screw Type
LCD Module	M2*4 Ni	2	

8. Remove the LCD module from the chassis.



LCD Module Disassembly Process

LCD Module Disassembly Flowchart



Screw List

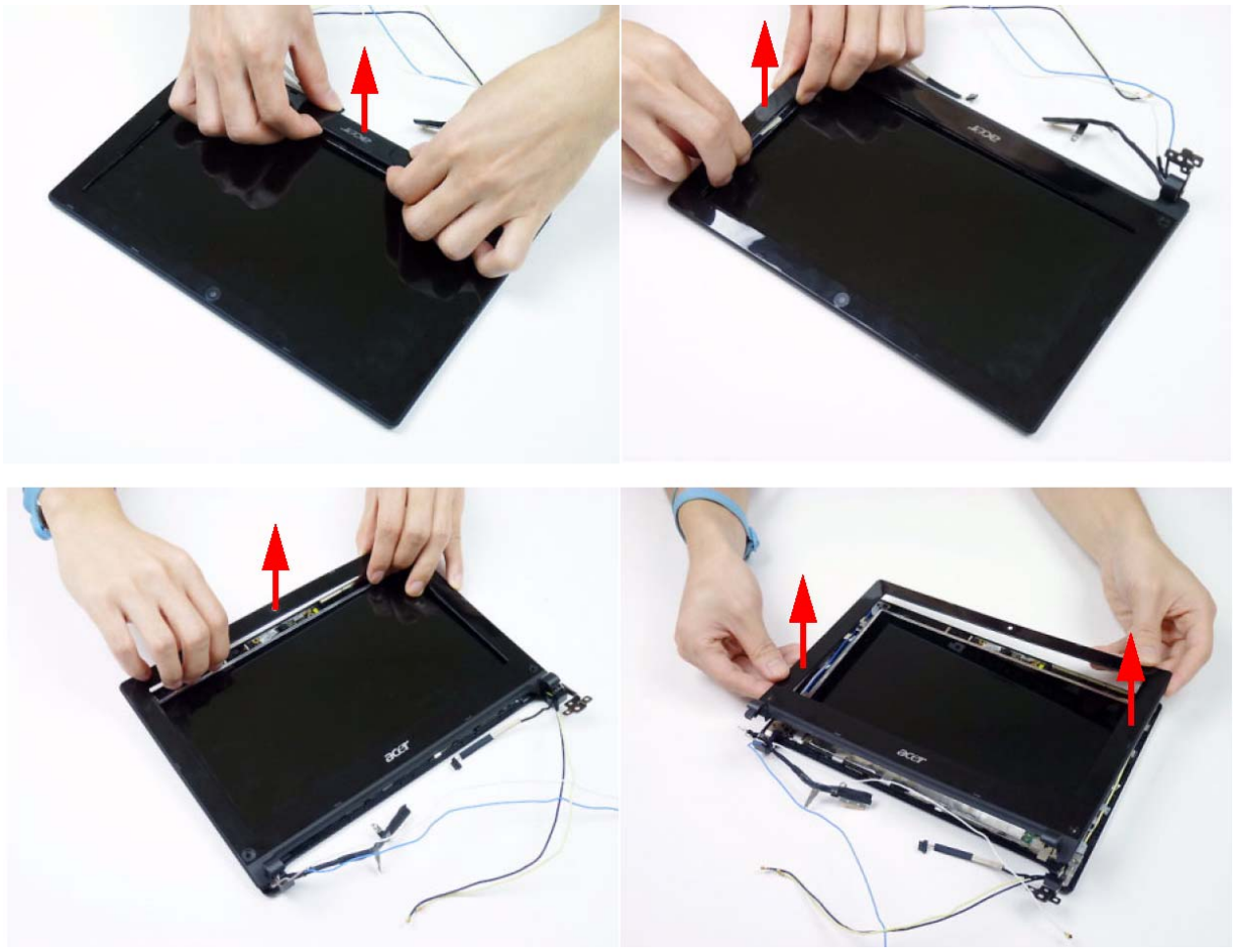
Step	Screw	Quantity	Part No.
LCD Bezel	M2*4 Ni	2	86.SDE02.003
LCD Panel	M2*3(t=0.04)	4	86.SDE02.001
LCD Panel Brackets	M2*3(t=0.04)	4	86.SDE02.001

Removing the LCD Bezel

1. See “Removing the LCD Module” on page 78.
2. Remove the two (2) screw caps and two (2) screws from the module.

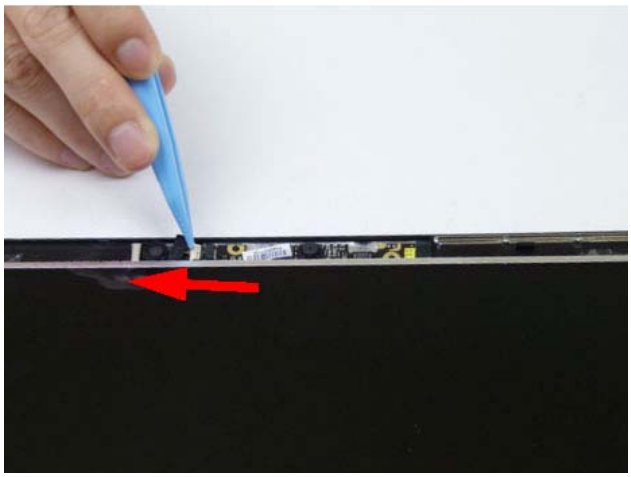
Step	Size	Quantity	Screw Type
LCD Bezel	M2*4 Ni	2	

3. Starting from the bottom-center of the bezel, pry the bezel upwards and away from the panel. Move along the edge until the bezel is completely removed.

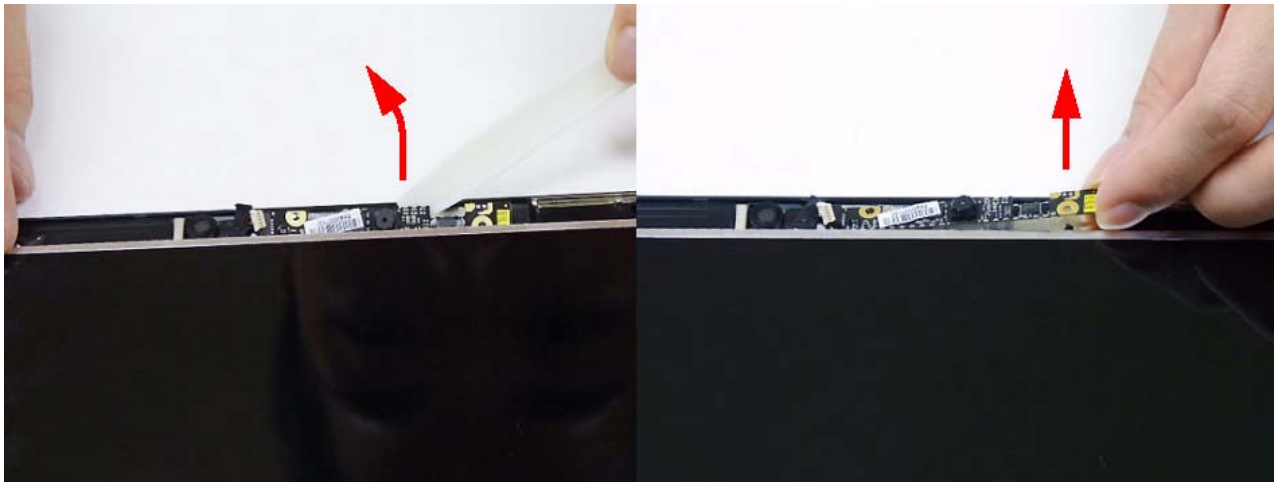


Removing the Camera Module

1. See “Removing the LCD Bezel” on page 82.
2. Disconnect the camera cable from the connector.



3. Pull the camera away from the adhesive strip and lift it out of the LCD module.



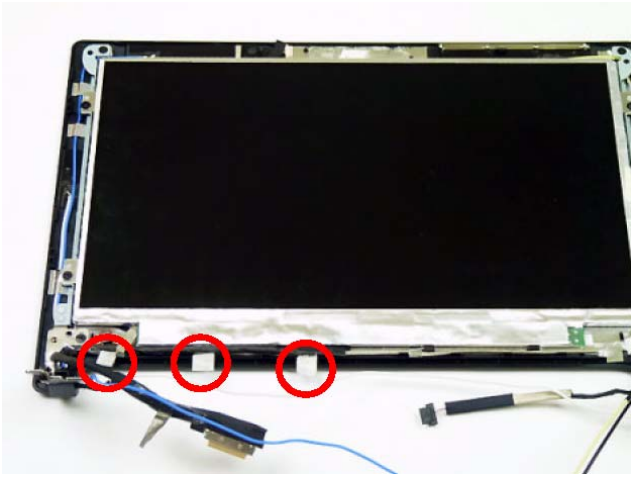
Removing the LCD Panel

Caution: The LCD module displayed here may be different from model purchased.

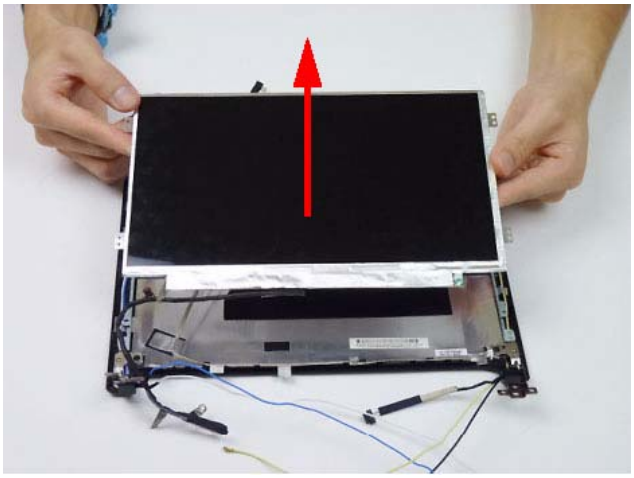
1. See “Removing the Camera Module” on page 83.
2. Remove the four (4) securing screws from the LCD Panel.

Step	Size	Quantity	Screw Type
LCD Panel	M2*3	4	

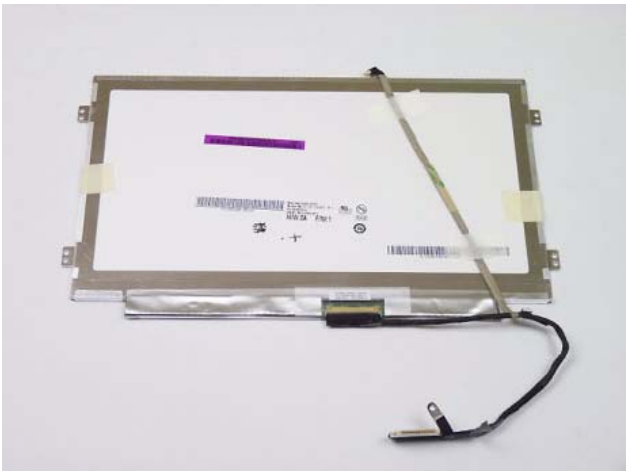
3. Lift up the adhesive foil covering the LVDS cable.



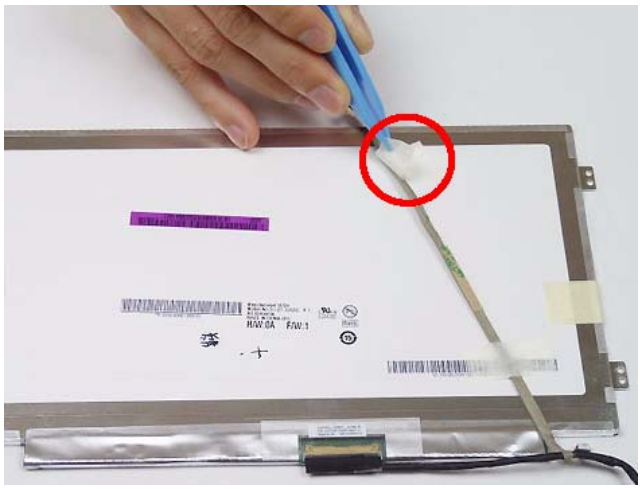
4. Lift the LCD Panel out of the module.



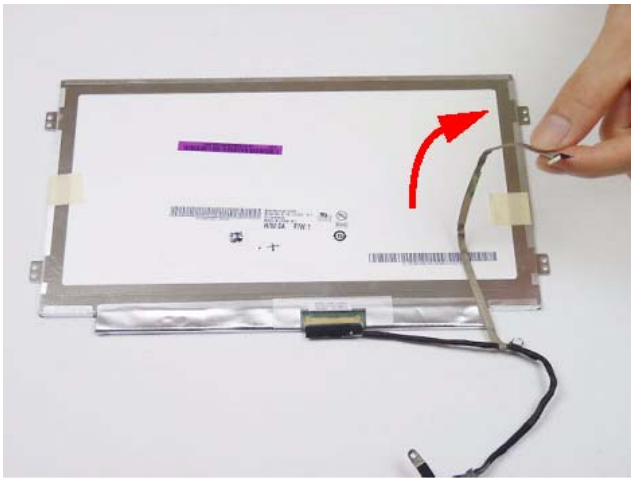
5. Turn the LCD panel over and place it face down on a clean surface.



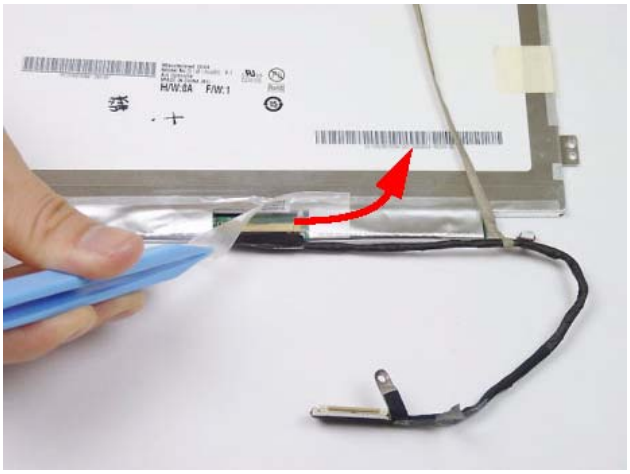
6. Remove the adhesive tape securing the camera cable to the panel



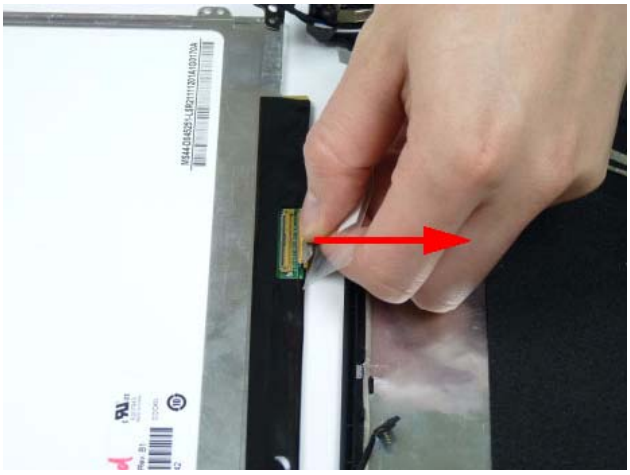
7. Remove the camera cable from the back of the LCD panel.



8. Peel up the transparent adhesive protector securing the LVDS cable to the LCD Panel.

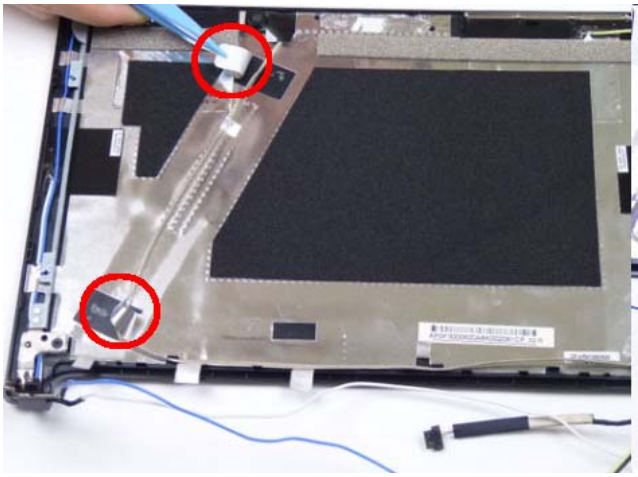


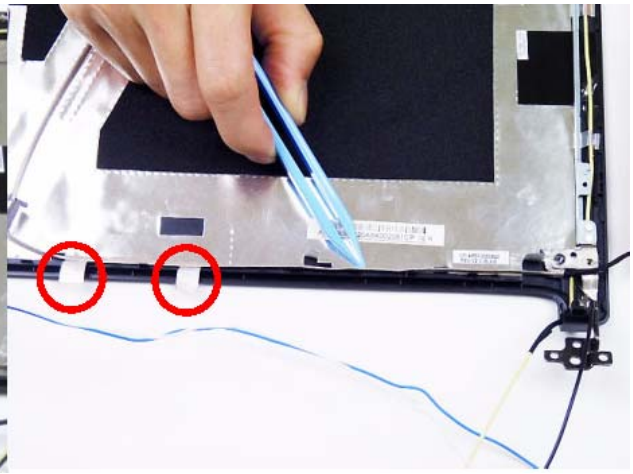
9. Disconnect the LVDS cable from the panel connector and lift the panel away.



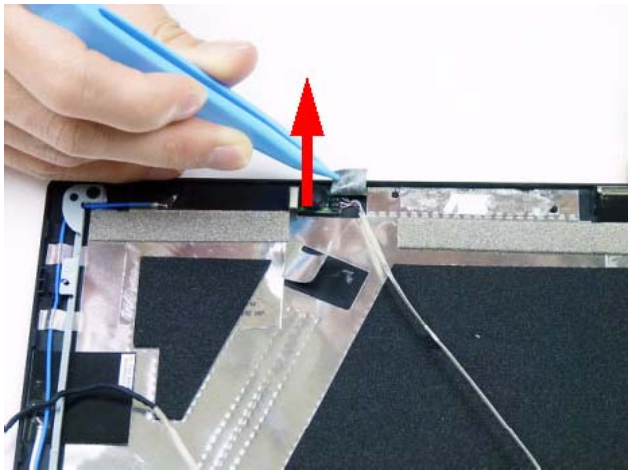
Removing the Microphone Module

1. See “Removing the LCD Panel” on page 84.
2. Lift up the adhesive tape and foil tab covering the microphone cable.



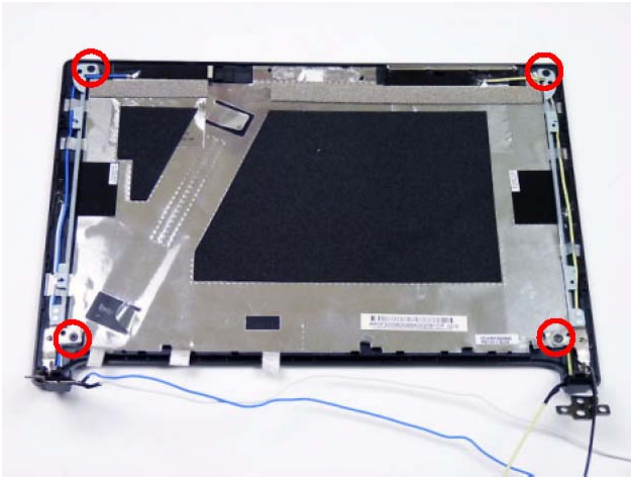


3. Remove the adhesive tape covering the microphone and lift it clear of the LCD module.



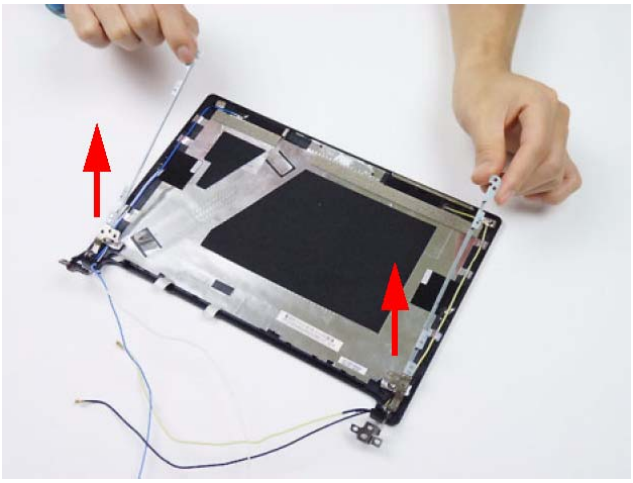
Removing the LCD Brackets

1. See “Removing the LCD Panel” on page 84.
2. Remove the four (4) screws from the LCD brackets.



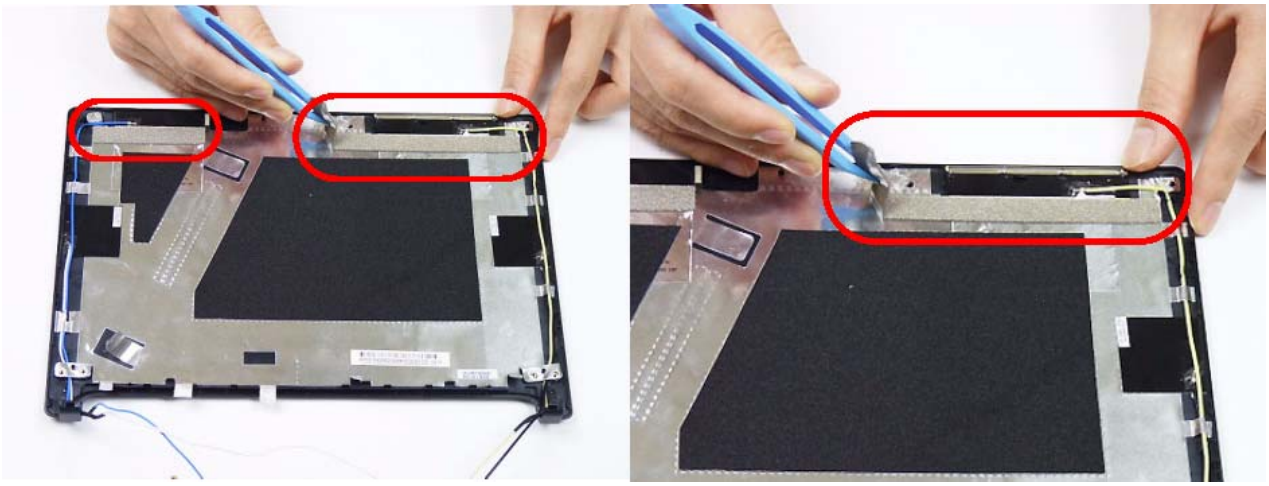
Step	Size	Quantity	Screw Type
LCD Panel Brackets	M2*3 (t=0.04)	4	

3. Lift the brackets away from the upper cover.

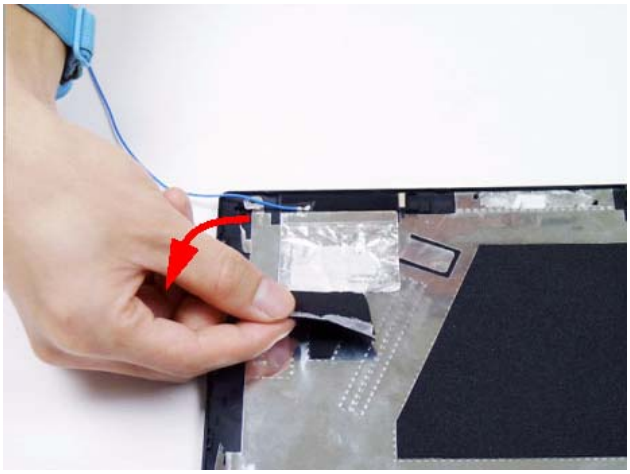


Removing the 3G and WLAN Antennas

1. See “Removing the LCD Brackets” on page 88.
2. Lift the adhesive foam padding off the adhesive foil.

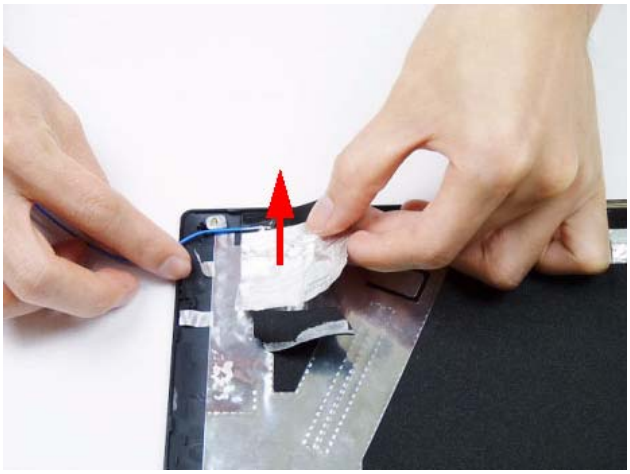


3. Lift the adhesive foam padding off the left 3G antenna.

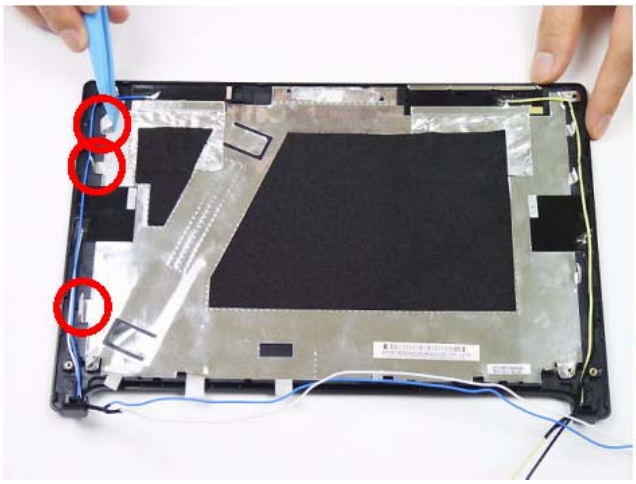


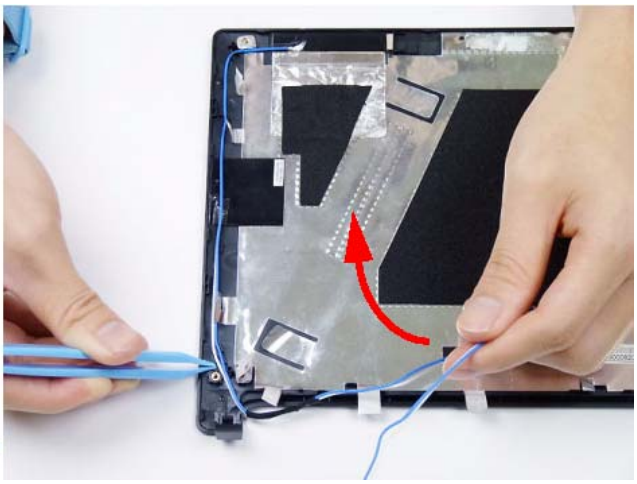
4. Lift the left antenna foil off the LCD cover.

5. Remove the left 3G antenna.

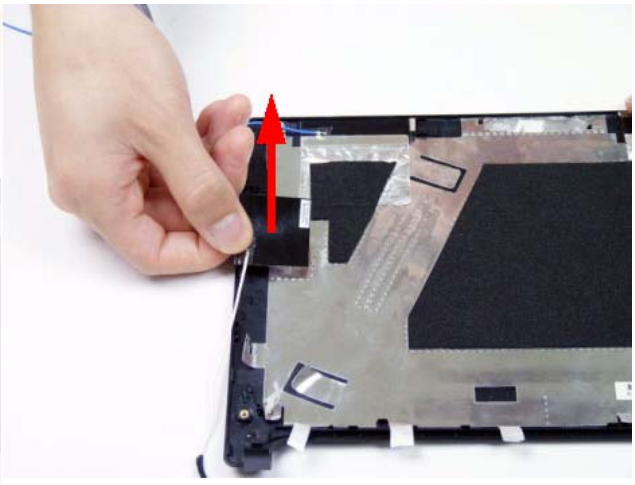


6. Remove the cable from the retention guides





7. Pry the left WLAN antenna off the LCD module cover and remove.

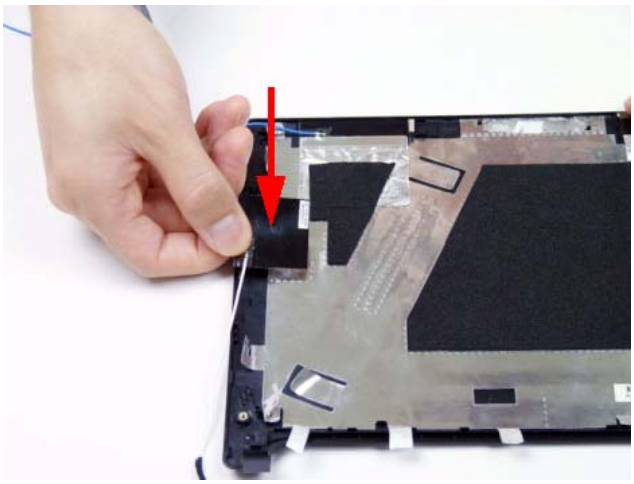


8. Repeat steps 2 - 7 for the right 3G and WLAN antennas.

LCD Module Reassembly Procedure

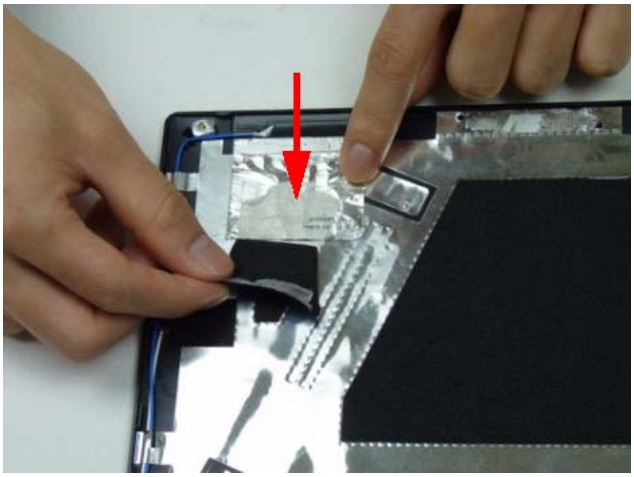
Replacing the 3G and WLAN Antennas

1. Place the left WLAN antenna onto the LCD module cover and apply pressure to adhere it to the LCD cover.

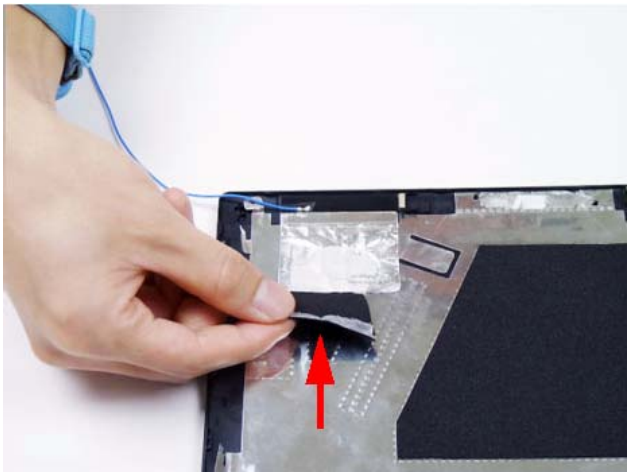


2. Place the left 3G antenna onto the LCD cover as shown.

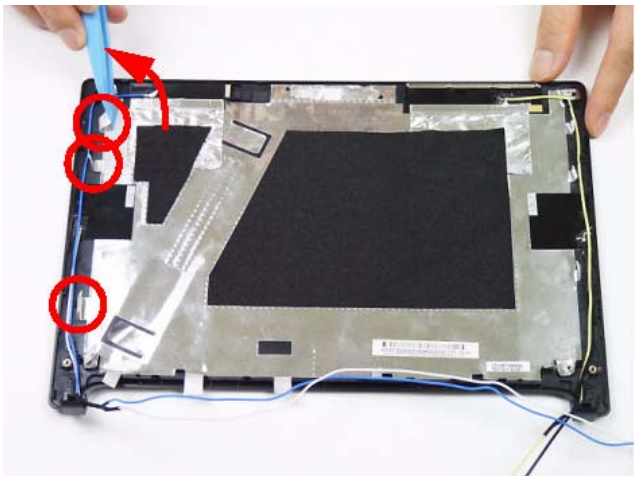
3. Apply pressure to the left antenna foil to set the adhesive.



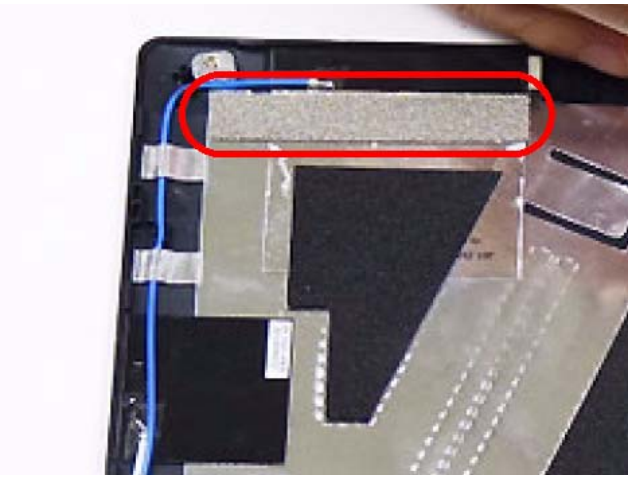
4. Replace the adhesive foam padding onto the left 3G adhesive foil and apply pressure to fix the adhesive.



5. Place the left antenna cables into the retention guides and replace the adhesive foil tabs to secure the cables.



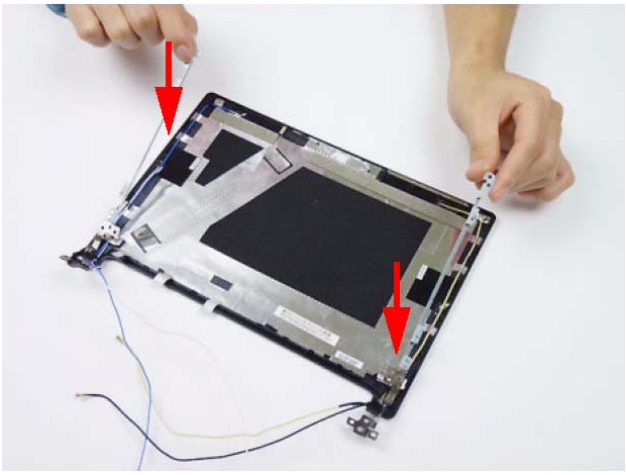
6. Replace the adhesive foam on the top of the left 3G antenna and apply pressure to fix the adhesive.



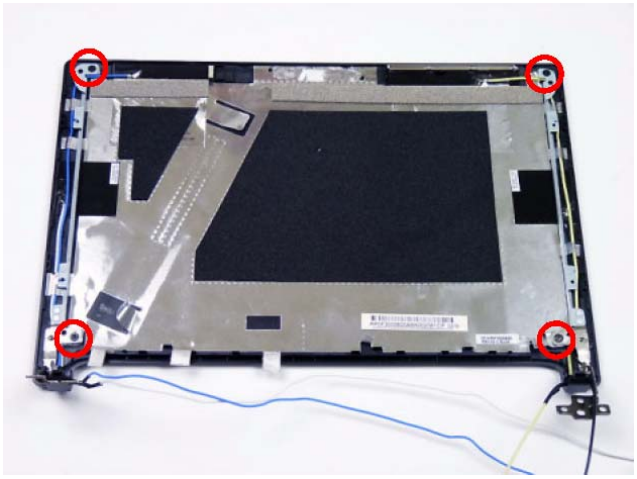
7. Repeat steps 1 to 6 for the right antenna cables.

Replacing the LCD Brackets

1. Place the brackets onto the upper cover.



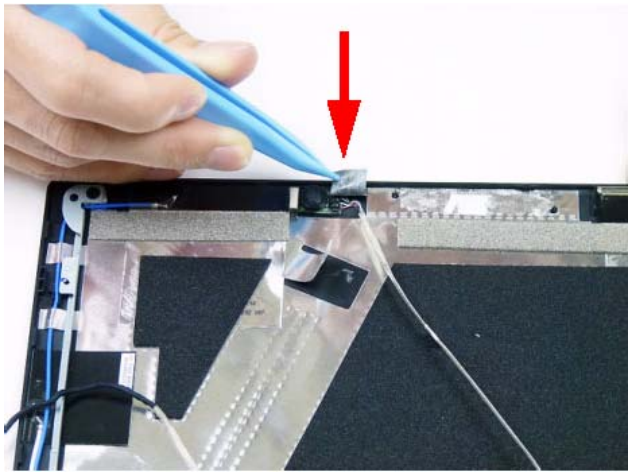
2. Replace the four (4) screws to secure the LCD brackets.



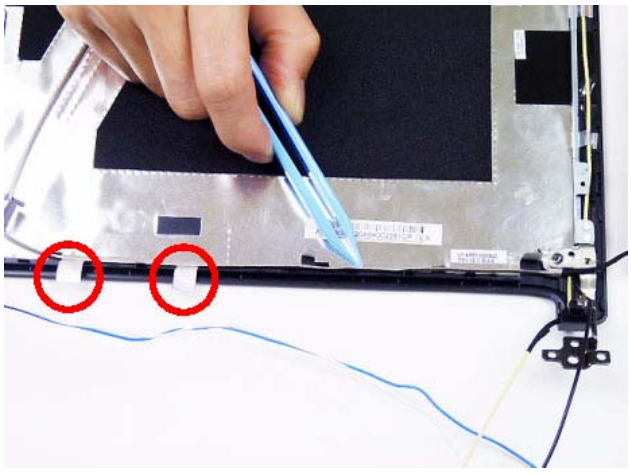
Step	Size	Quantity	Screw Type
LCD Panel Brackets	M2*3(t=0.04)	4	

Replacing Microphone Module

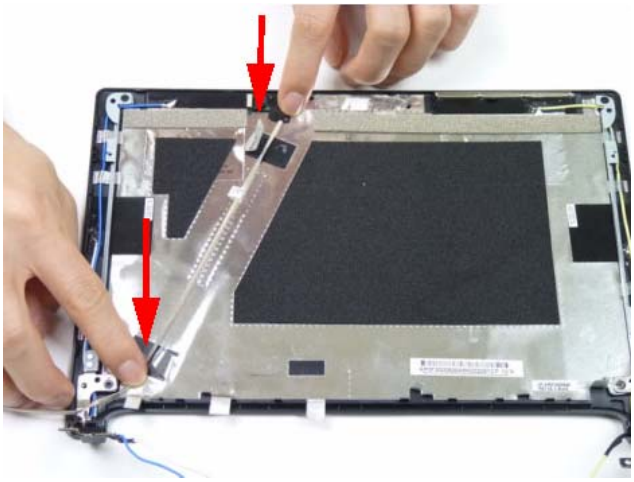
1. Adhere the microphone to the LCD cover.



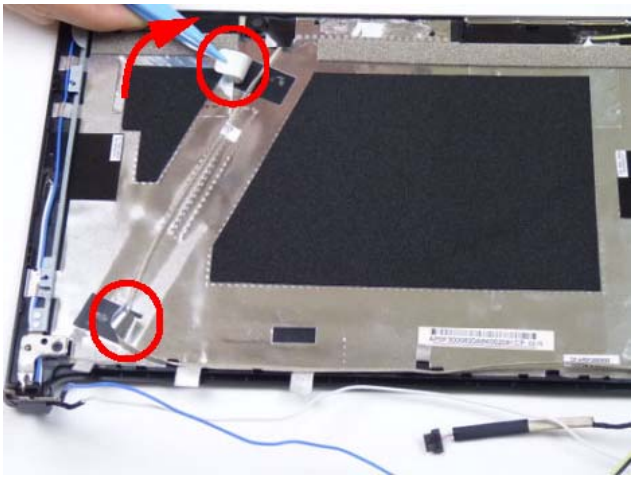
2. Place the microphone cable along the bottom of the LCD cover and replace the foil tabs over the microphone cable.



3. Lay the camera cable across the LCD cover as shown.

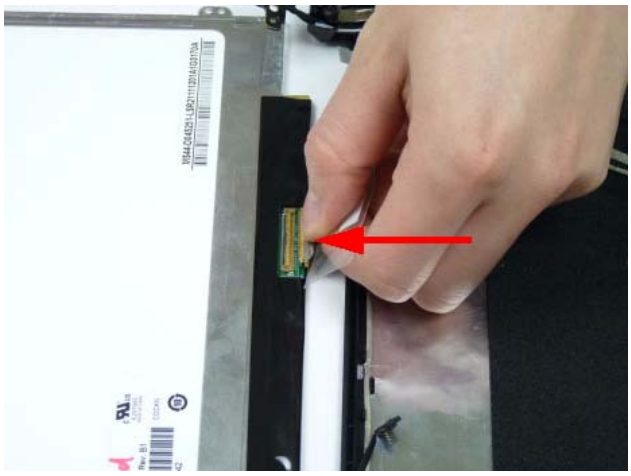


4. Replace the adhesive tape and foil tabs to secure the cable.

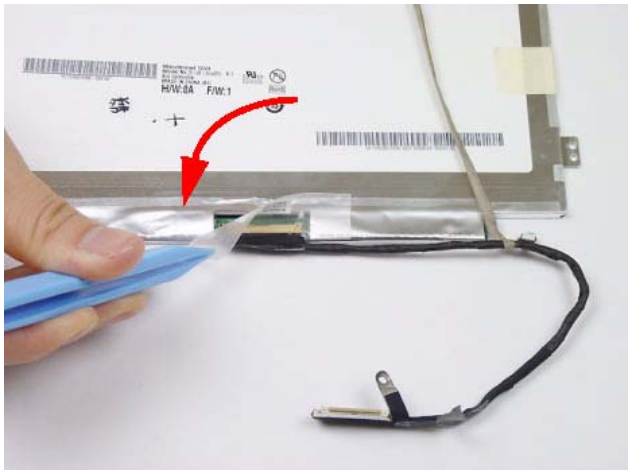


Replacing the LVDS Cable

1. Replace the LCD cable connector.

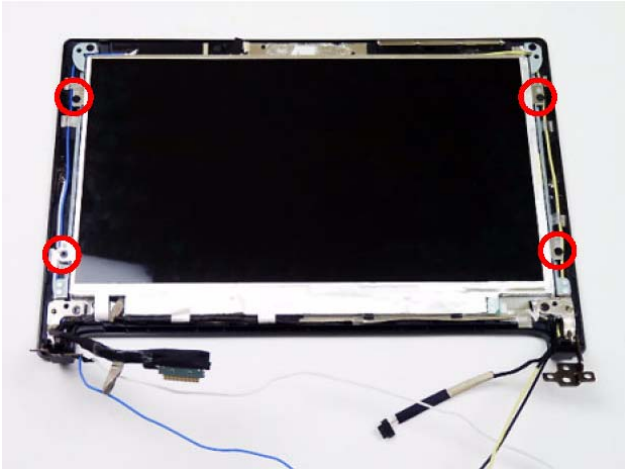


2. Adhere the transparent connector protector.



3. Place the LCD panel onto the LCD cover and replace the adhesive foil tabs to secure the LVDS cable.

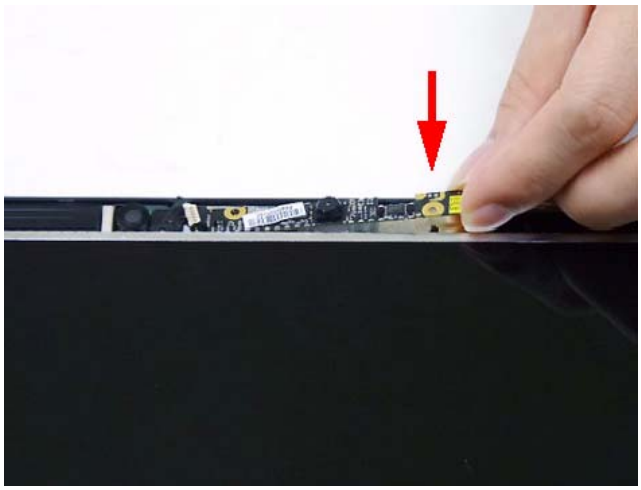
4. Replace the four (4) screws to secure the LCD Panel.



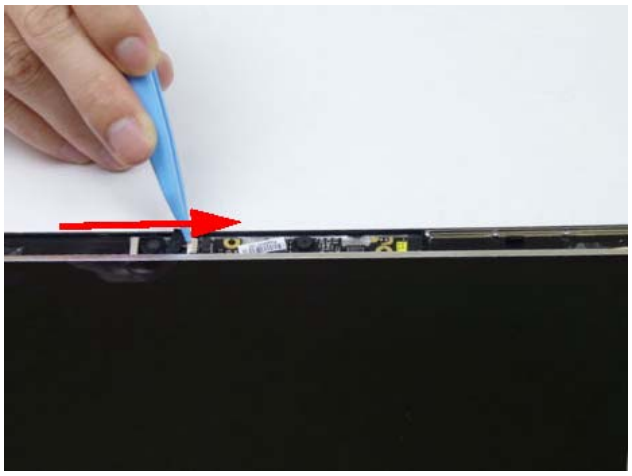
Step	Size	Quantity	Screw Type
LCD Panel	M2*3(t=0.04)	4	

Replacing the CCD Module

1. Adhere the CCD to the LCD module cover.



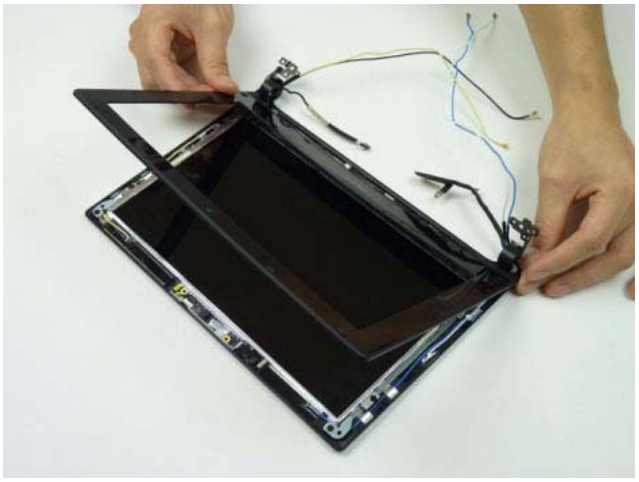
2. Connect the CCD cable to the CCD module connector.



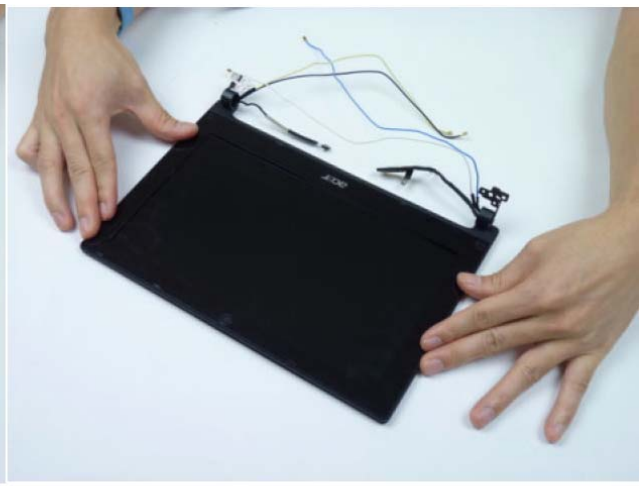
Replacing the LCD Bezel

1. Locate the bezel hinges first and press down until there are no gaps between the bezel and the LCD module cover hinge wells.

Note: Ensure that the LCD cables pass through the hinge wells and are not trapped by the bezel.



2. Press down around the entire perimeter of the bezel until there are no gaps between the bezel and the LCD module.



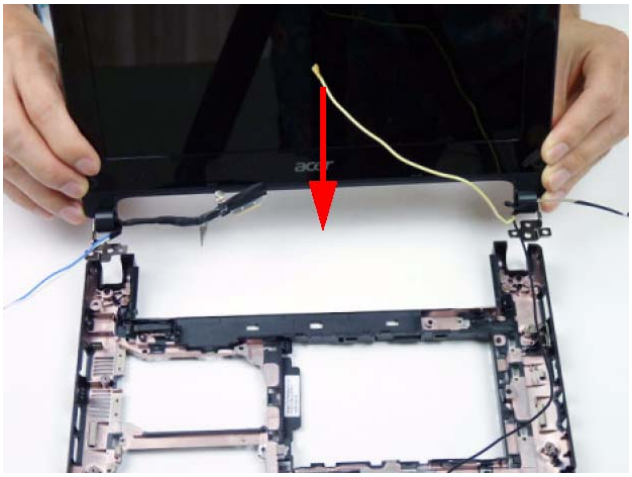
3. Secure the two (2) screws and screw covers to secure the LCD bezel.

Step	Size	Quantity	Screw Type
LCD Bezel	M2*4 Ni	2	

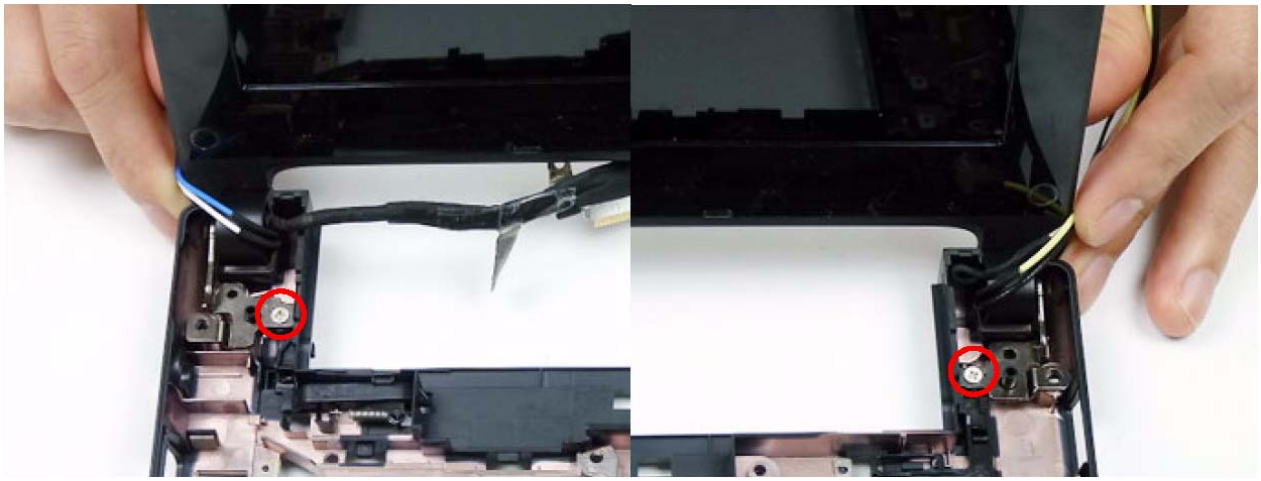
Main Module Reassembly Procedure

Replacing the LCD Module

1. Place the LCD module onto the main unit lower cover.

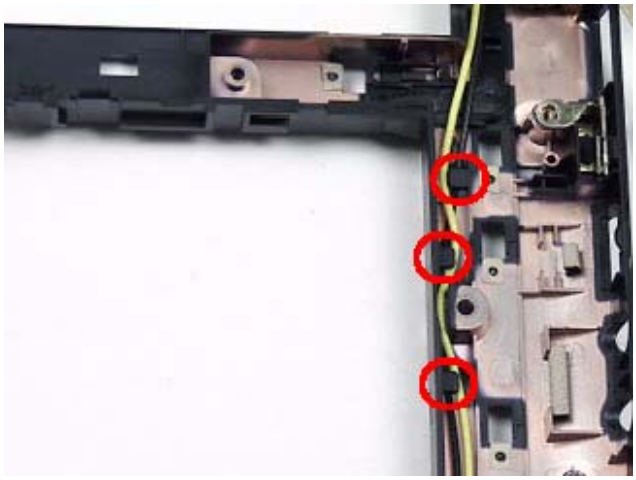


2. Secure the two (2) screws to the chassis.

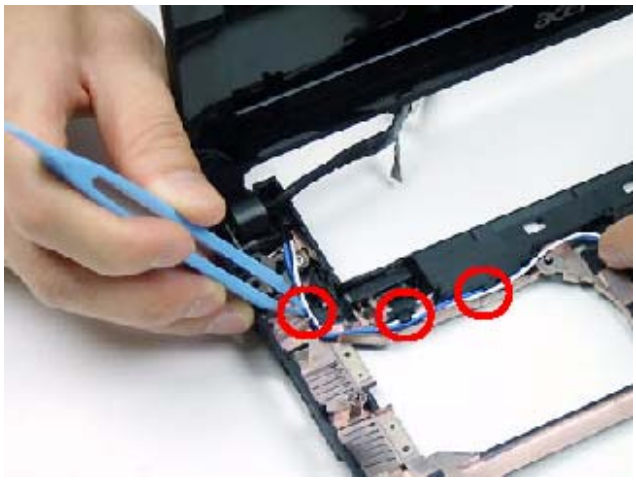


Step	Size	Quantity	Screw Type
LCD Module	M2*4	4	

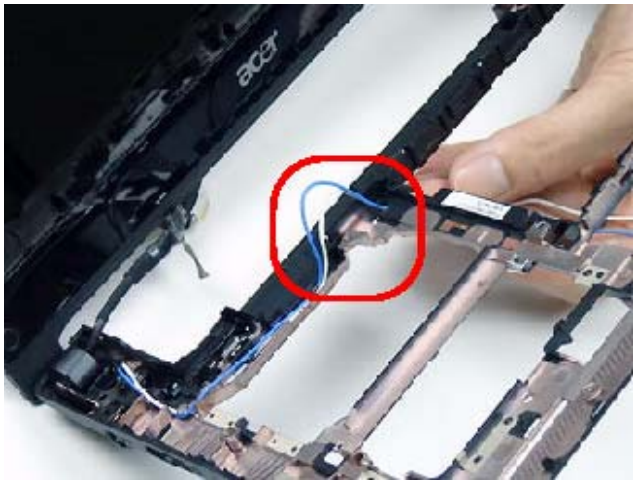
3. Place the right antenna cables under the retention guides and pull the antenna cables through the chassis as shown.



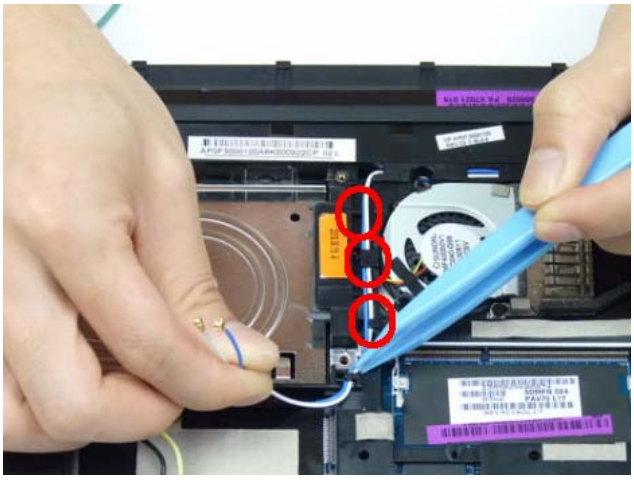
4. Place the left antenna cables into the retention guides as shown.



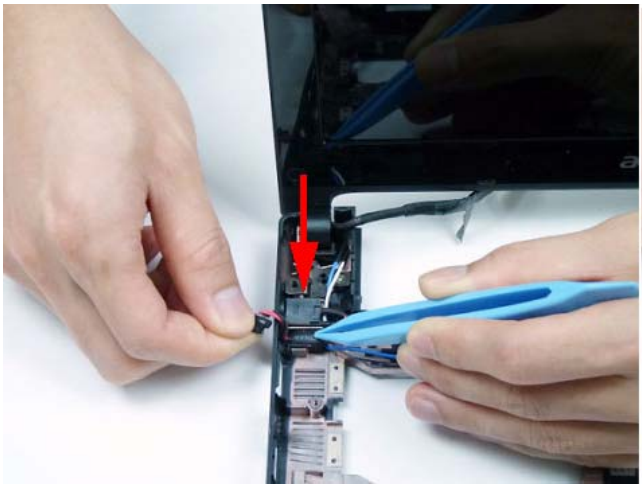
5. Lift up the chassis and pull the left antenna cables through to the back.

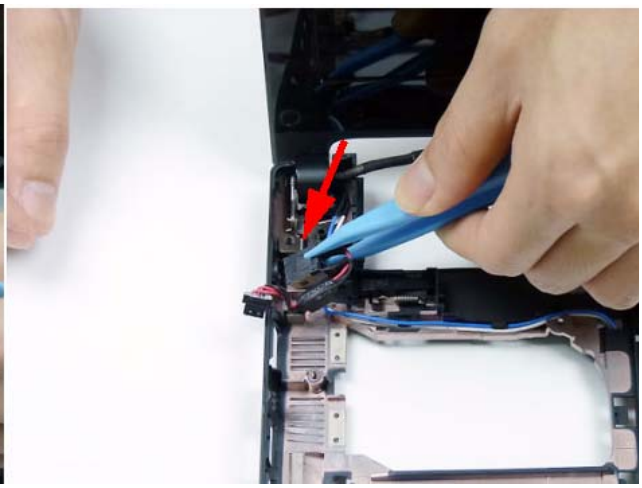


6. Place the left antenna cables into the cable guides on the bottom cover.



7. Replace the DC-In power jack.





Replacing the Thermal Module

Important: Apply a suitable thermal grease and ensure all heat pads are in place before replacing the thermal module.

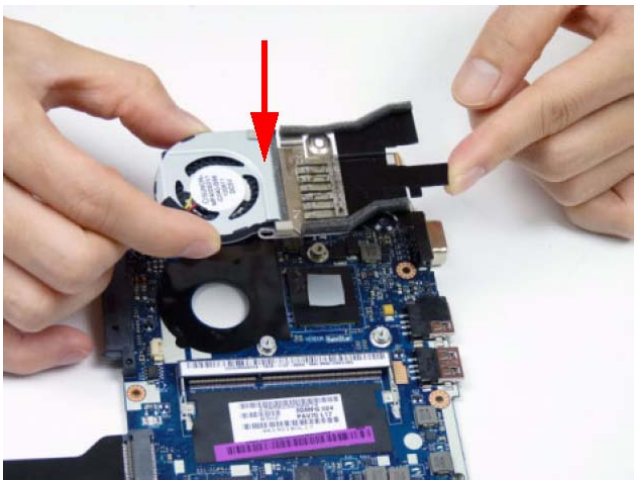
The following thermal grease types are approved for use:

- Silmore GP50
- Honeywell PCM45F-SP
- ShinEtsu 7762

The following thermal pads are approved for use:

- Eapus XR-PE

1. Remove all traces of thermal grease from the CPU using a lint-free cloth or cotton swab and Isopropyl Alcohol, Acetone, or other approved cleaning agent.
2. Apply a small amount of thermal grease to the centre of the CPU—there is no need to spread the grease manually, the force used during the installation of the thermal module is sufficient.
3. Align the screw holes on the thermal module and mainboard and lower the module into place. Keep the module as level as possible to spread the thermal grease evenly.



4. Secure the three (3) screws in reverse sequential order from 3 to 1.

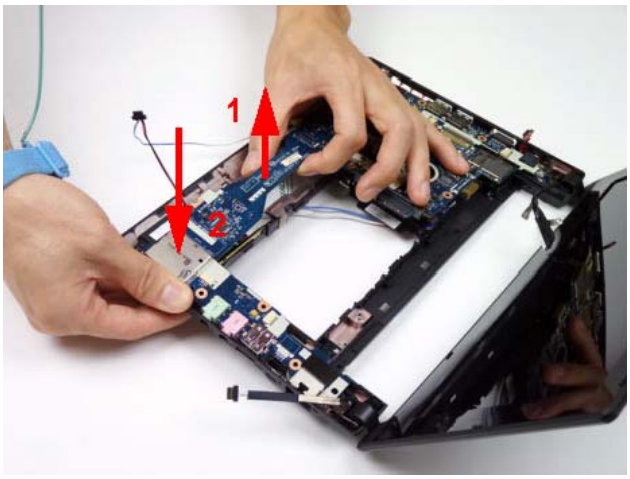
Step	Size	Quantity	Screw Type
Thermal Module	M2*3(t=0.04)	4	

5. Connect the thermal module cable to the mainboard connector.

Replacing the Mainboard

1. Place the mainboard into the chassis as shown.

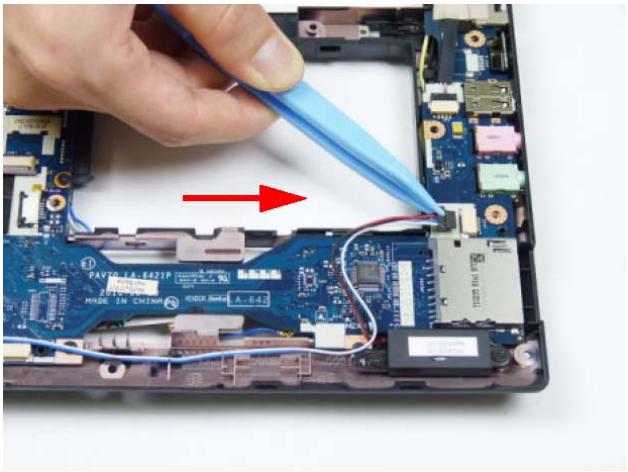
2. While lifting up at the mainboard bridge (1), apply gentle pressure to the connector end to fit the mainboard into the chassis (2).



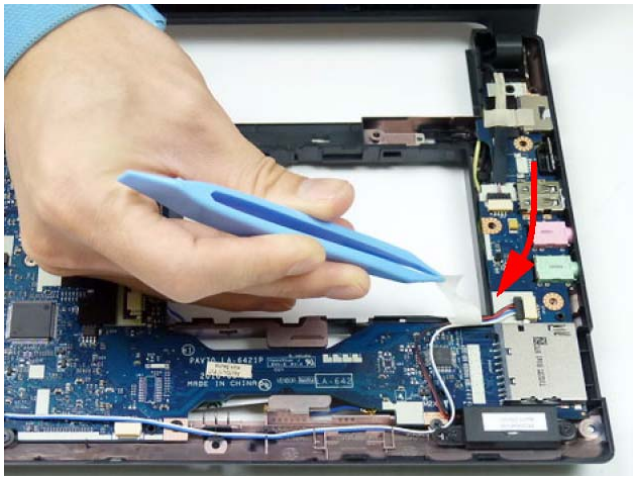
3. Replace the two (2) screws to secure the mainboard.

Step	Size	Quantity	Screw Type
Mainboard	M2*3	2	

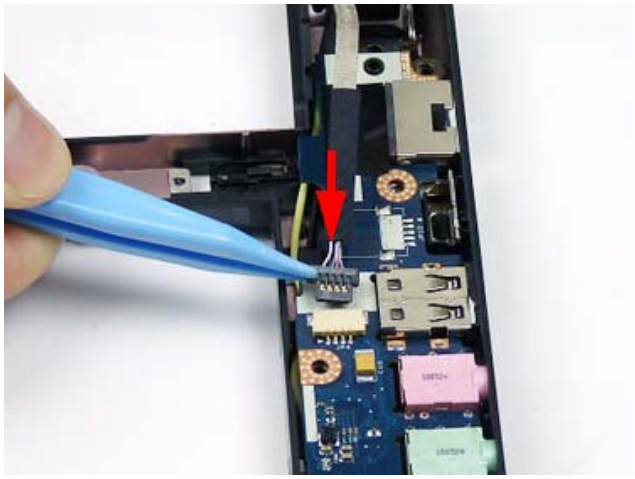
4. Connect the speaker cable to the connector.



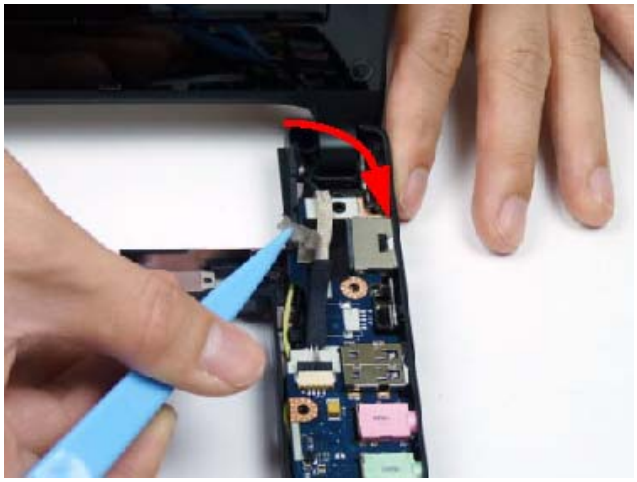
5. Replace the adhesive tape to secure the speaker cable.



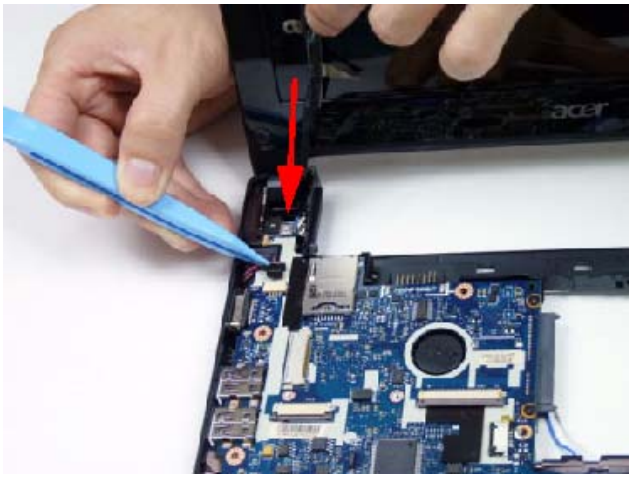
6. Connect the microphone cable to the mainboard connector.



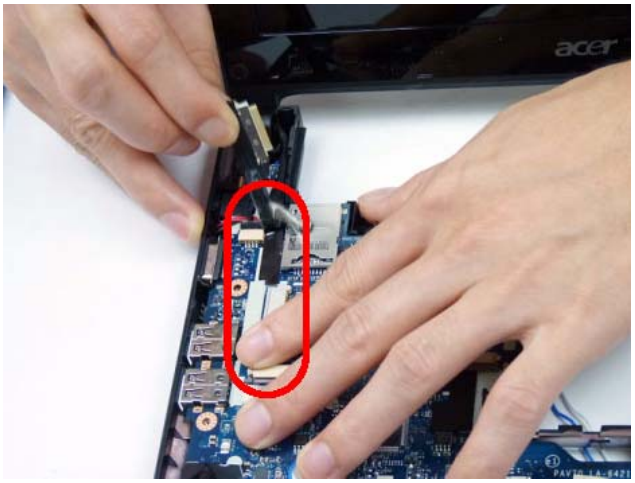
7. Adhere the microphone grounding wire to the LAN casing.



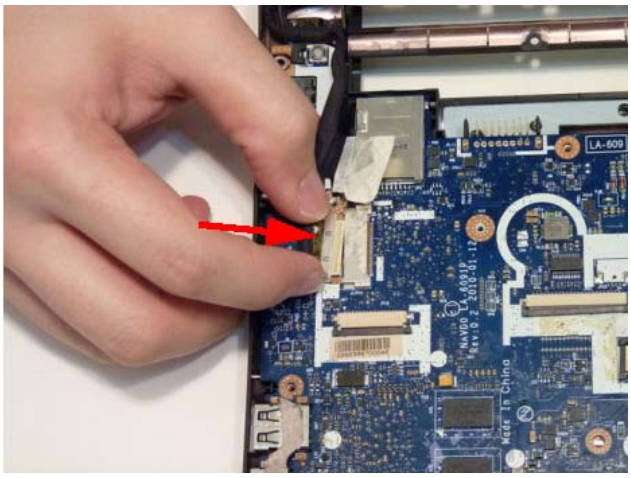
8. Connect the DC-In power cable.



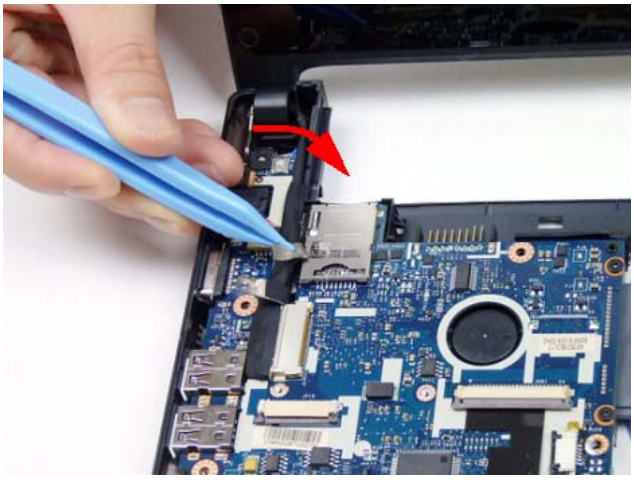
9. 9. Adhere the LVDS cable to the adhesive strip on the mainboard.



10. Connect the LVDS cable to the main board connector.

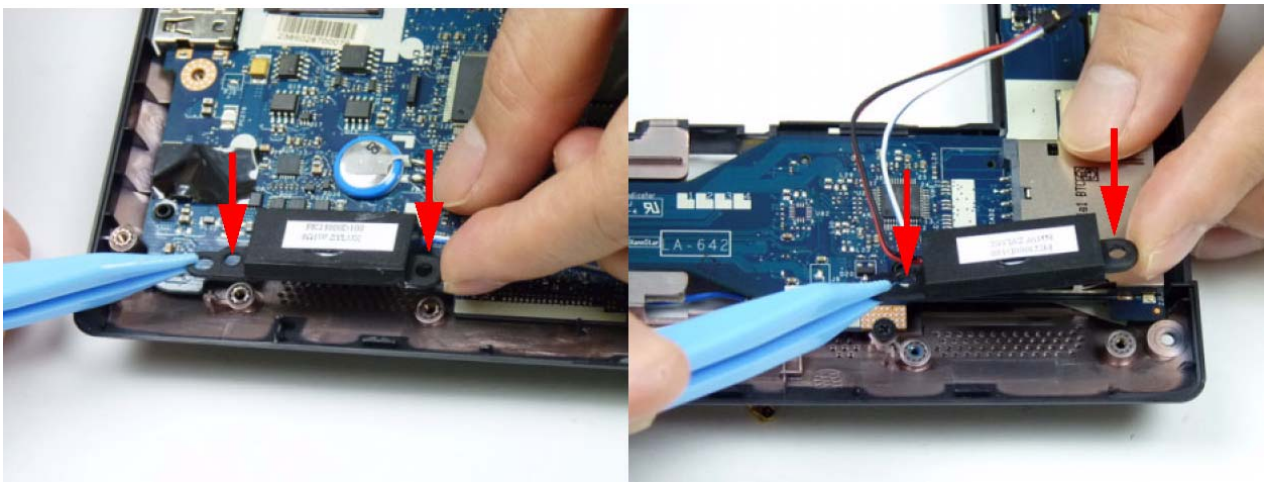


11. Adhere the LVDS grounding wire to the 3G card casing.

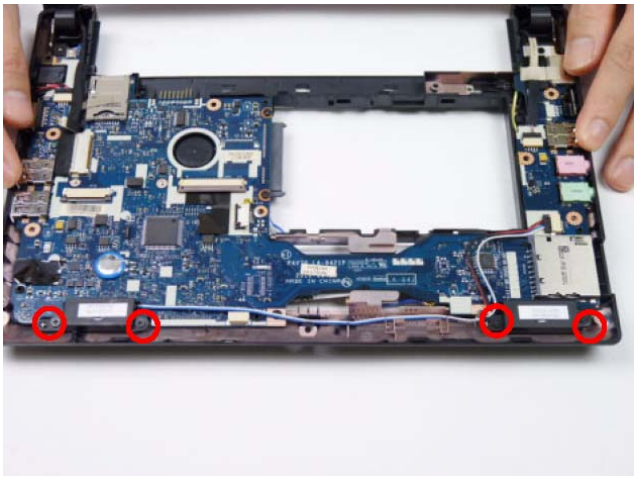


Replacing the Speakers

1. Place the two speaker housings onto the chassis.



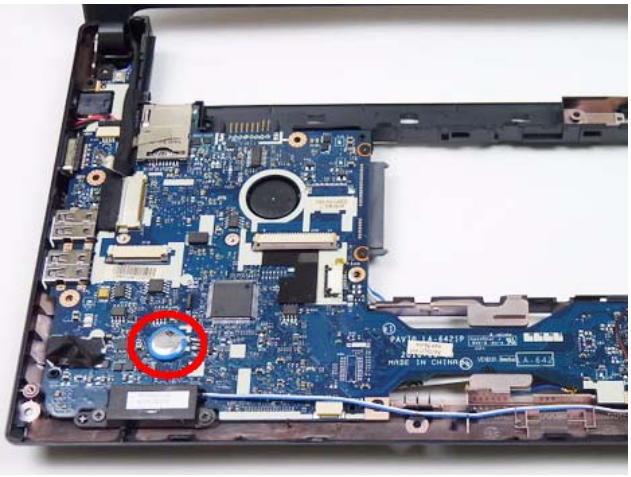
2. Secure the four (4) screws and place the cables into the retention guides.



Step	Size	Quantity	Screw Type
Speakers	M2*3	4	

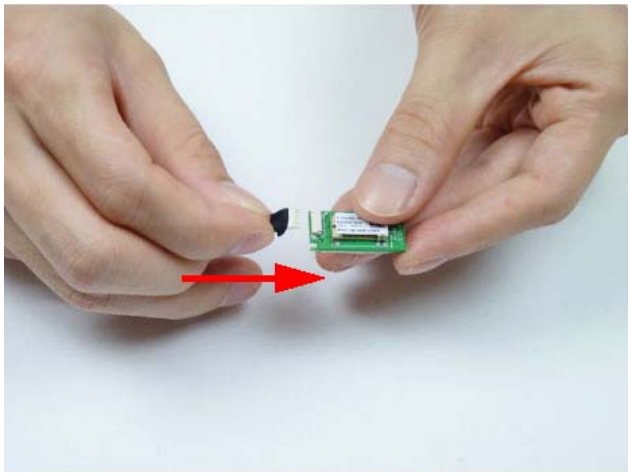
Replacing the RTC Battery

1. Place the RTC battery onto the mainboard plus (+) side down and solder the connections to secure it in place.

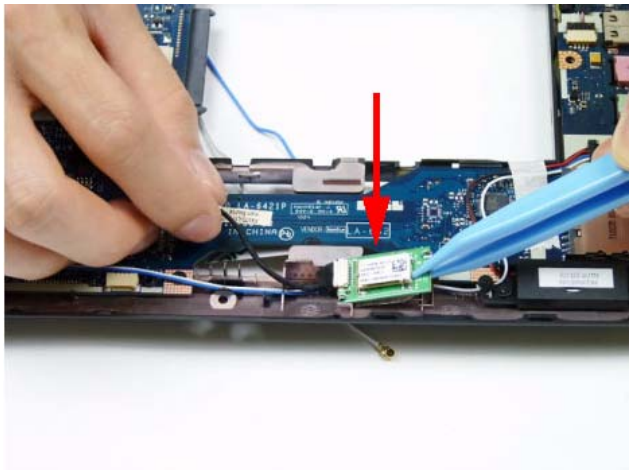


Replacing the Bluetooth Module

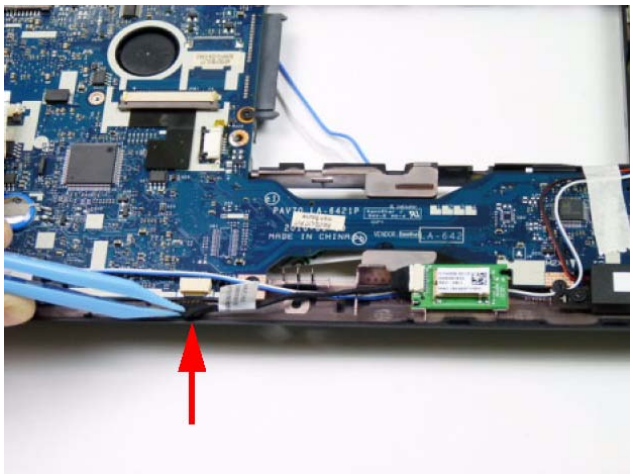
1. Connect the Bluetooth cable to the Bluetooth module



2. Adhere the Bluetooth module to the chassis.

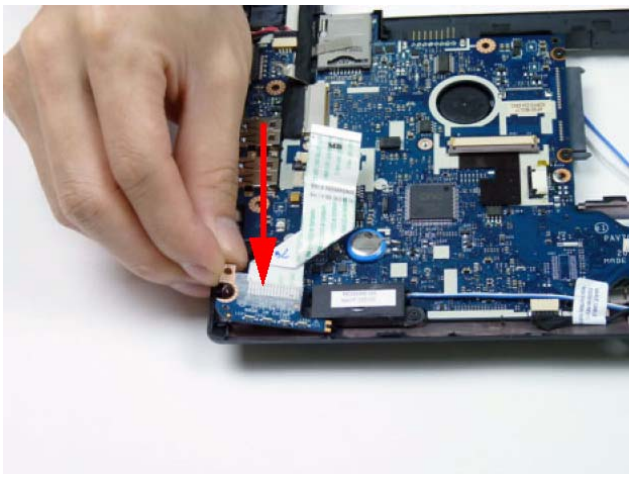


3. Connect the Bluetooth cable to the mainboard connector.

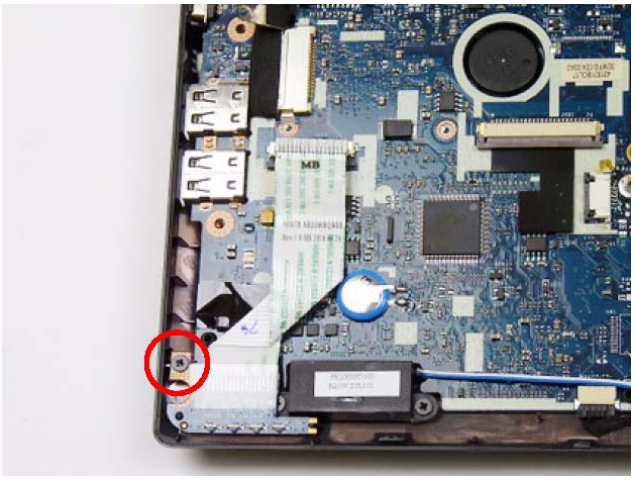


Replacing the LED Board

1. Place the LED board onto the chassis.



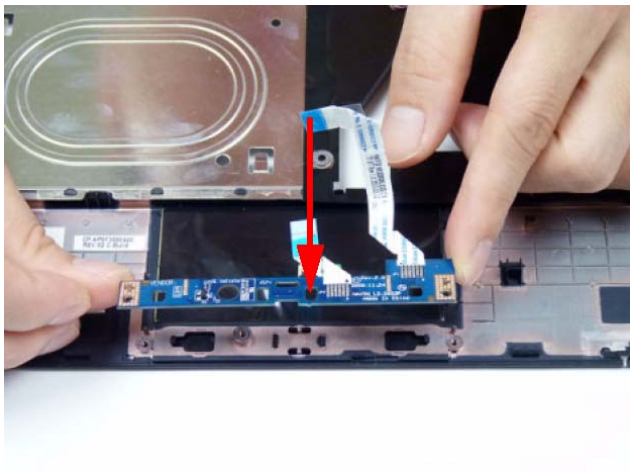
2. Secure the LED board to the chassis using one (1) screw.



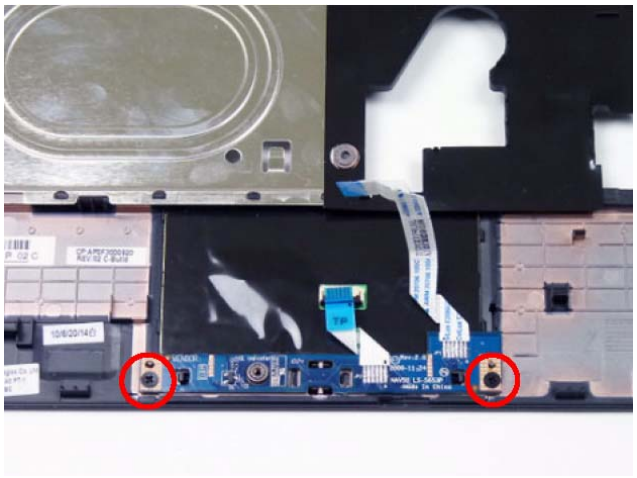
Step	Size	Quantity	Screw Type
LED Board	M2*3	1	

Replacing the Button Board

1. Place the button board onto the upper cover.

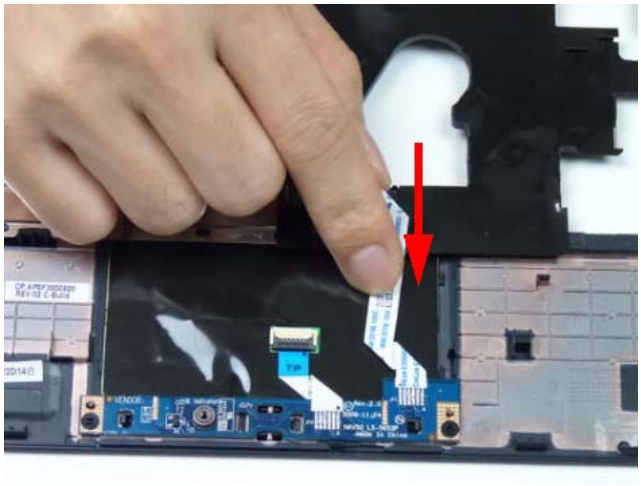


2. Secure the button board to the upper cover using two (2) screws.

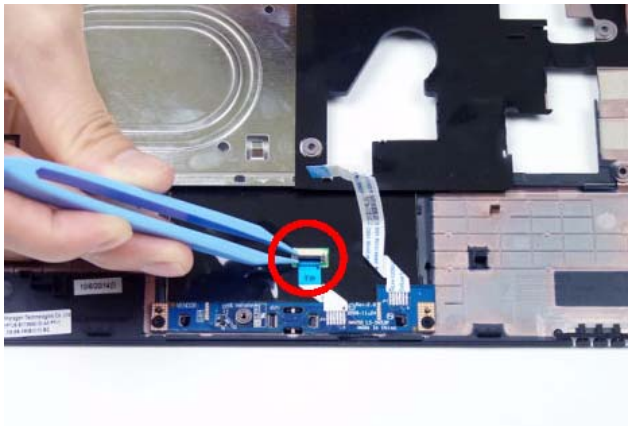


Step	Size	Quantity	Screw Type
Button Board	M2*3 (t=0.04)	2	

3. Adhere the button board FFC to the upper cover.



4. Connect and lock the touchpad FFC to the connector.

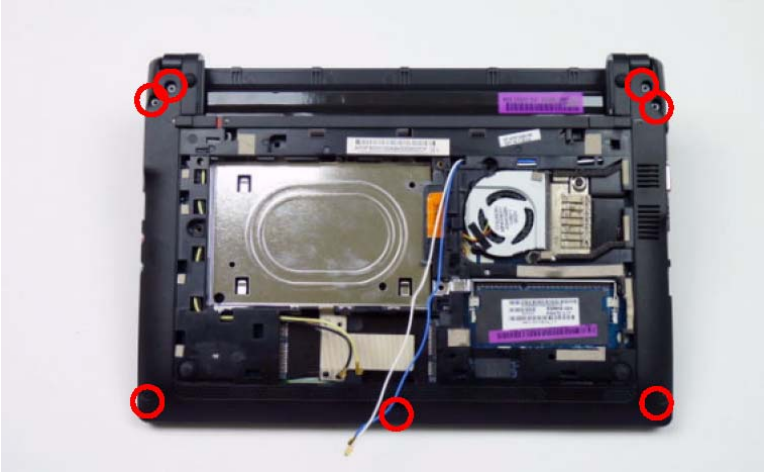


Replacing the Upper Cover

1. Place the upper cover onto the chassis ensuring the hinge covers are seated properly. Press down around the upper cover edges to secure the latches.

2. Press down on the center of the upper cover to secure the center latches.

3. Secure the upper cover to the chassis using seven (7) screws.

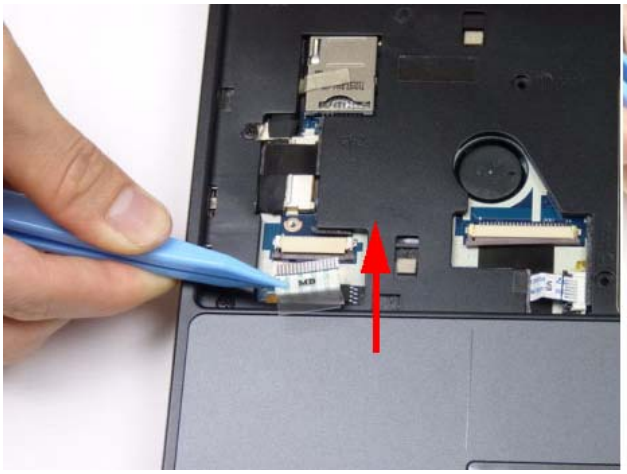


Step	Size	Quantity	Screw Type
Lower Cover	M2*5	7	

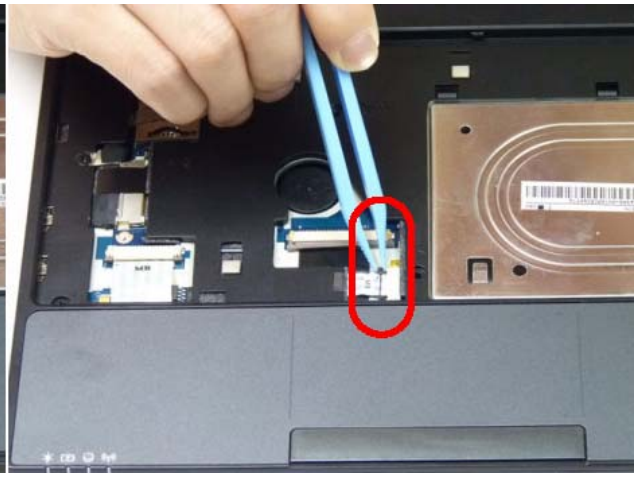
4. Secure the upper cover to the chassis using four (4) screws.

Step	Size	Quantity	Screw Type
Upper Cover	M2*7	4	

5. Connect and lock the LED FFC to the connector.

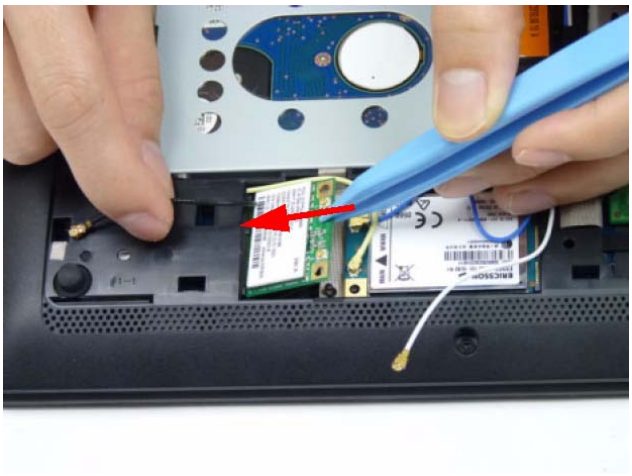


6. 6. Connect and lock the touchpad FFC to the connector.

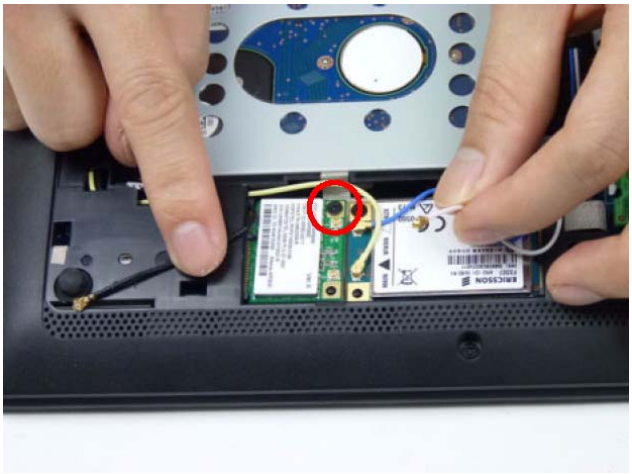


Replacing the WLAN Module

1. Push the WLAN module into the connector.



2. Secure the WLAN module to the chassis using one (1) screw.



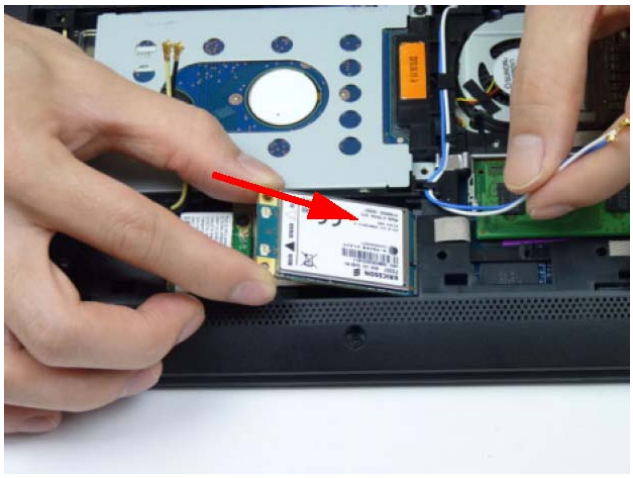
Step	Size	Quantity	Screw Type
WLAN Module	M2*3	1	

3. Secure the two (2) antennas to the connectors.

Note: Cable placement is Black to the MAIN terminal (closest to the HDD) and White to the AUX terminal (closest to the edge of the computer).

Replacing the 3G Module

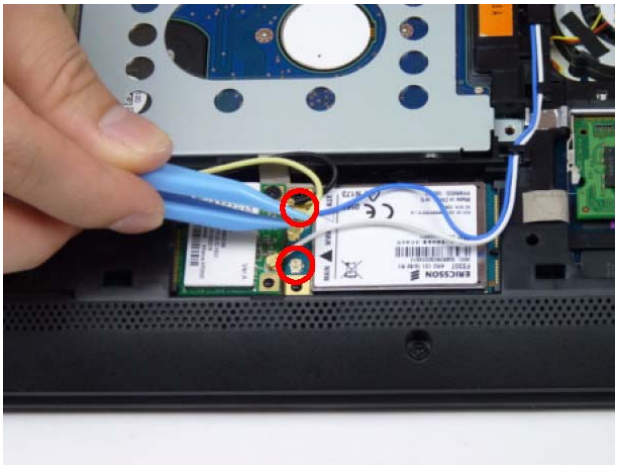
1. Push the 3G module into the connector.



2. Secure the 3G module to the chassis using one (1) screw.

Step	Size	Quantity	Screw Type
3G Module	M2*3	1	

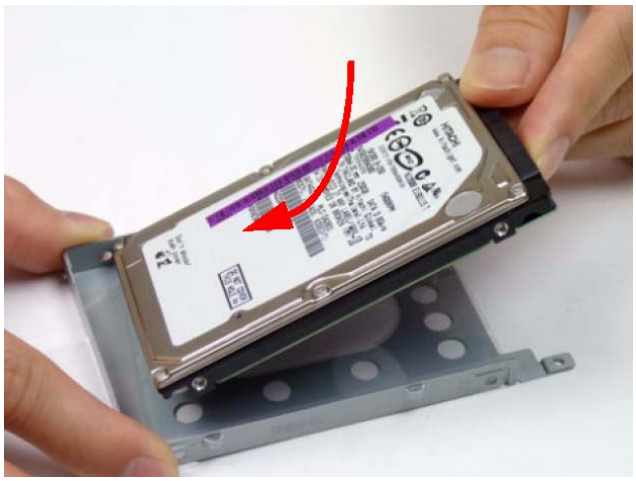
3. Secure the two (2) antennas to the connectors.



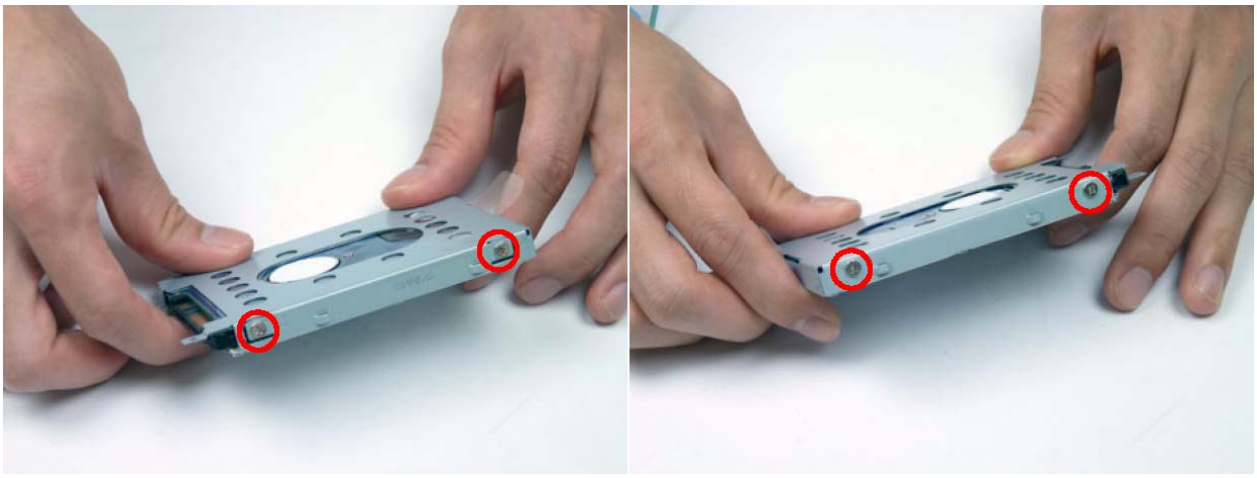
Note: Cable placement is YELLOW to the MAIN terminal (closest to the edge of the computer) and BLUE to the AUX terminal (closest to the HDD).

Replacing the HDD Module

1. Place the HDD into the carrier.

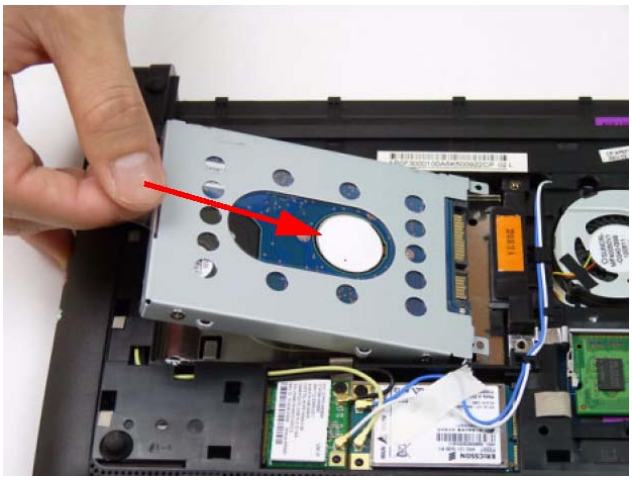


2. Secure the four (4) screws, two (2) on each side, to secure the HDD carrier.

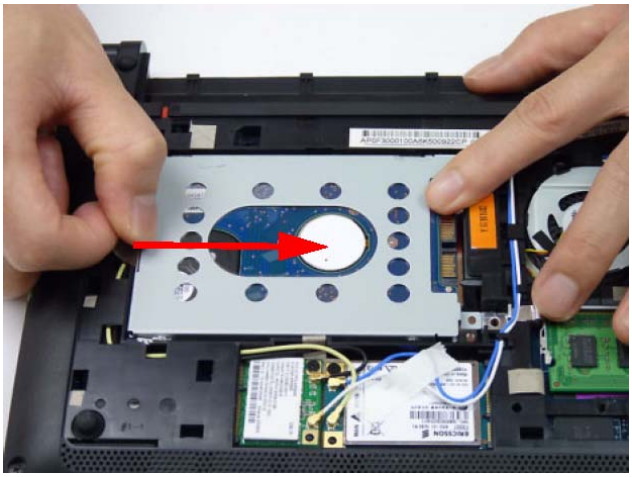


Step	Size	Quantity	Screw Type
HDD Module	M3*3 Ni	4	

3. Place the HDD module into the HDD bay.



4. Push the HDD module forward to engage the connector.



5. Secure the HDD module to the chassis using one (1) screw.

Step	Size	Quantity	Screw Type
HDD Module	M2*3	1	

Replacing the DIMM Module

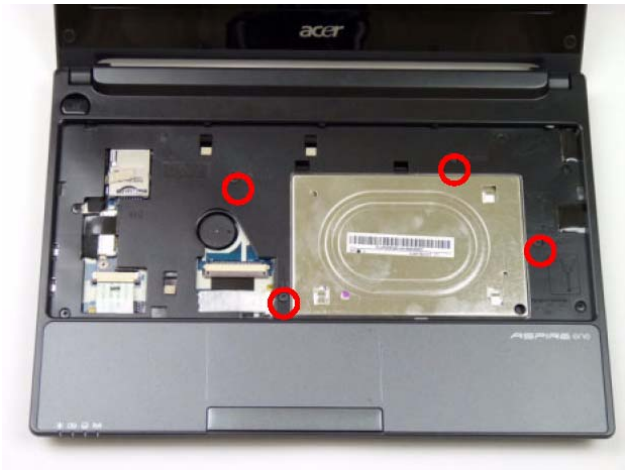
1. Push the DIMM module into the connector.

2. Press down to lock the DIMM module into place.

Replacing the Lower Cover

1. Place the back edge of the lower cover door against the chassis (1) and then lower the front edge into place (2). Apply gentle pressure to secure the latches.

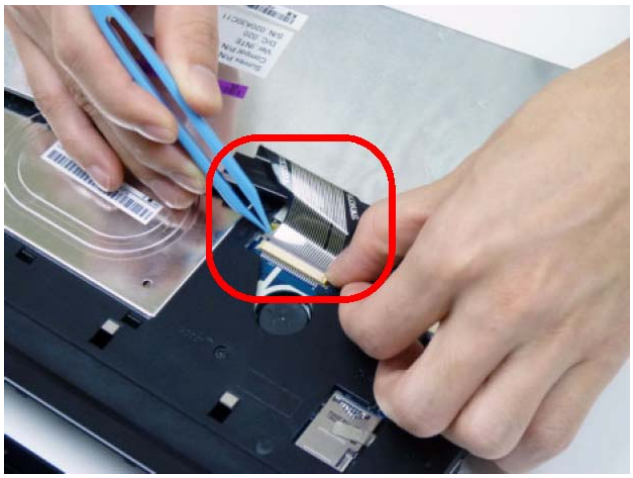
2. Secure the lower cover to the chassis using four (4) screws.



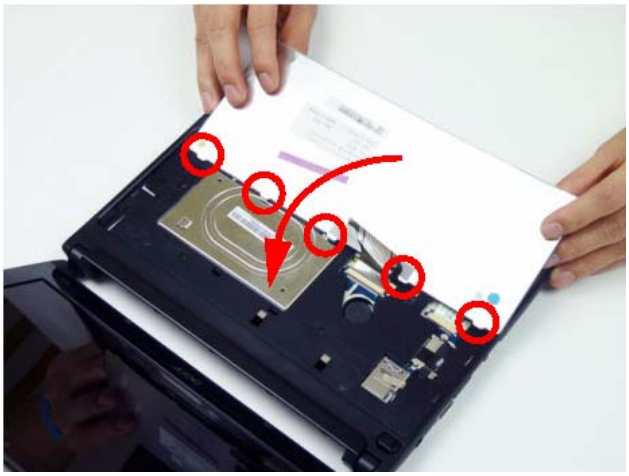
Step	Size	Quantity	Screw Type
Lower Door	M2*7	4	

Replacing the Keyboard

1. Connect the keyboard FPC and lock the connector.



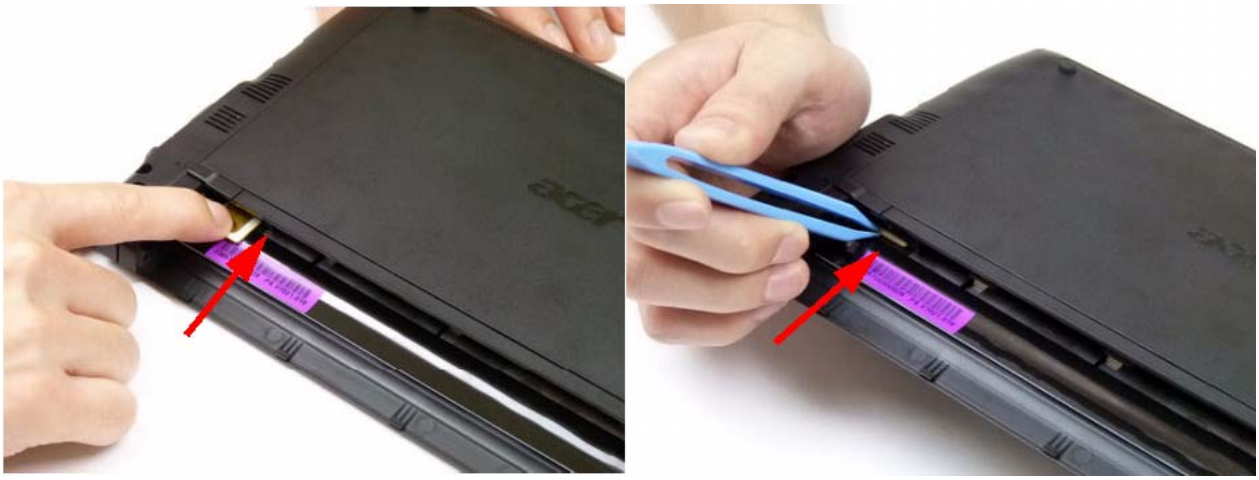
2. Turn the keyboard over ensuring the latches are inserted into the connectors at the bottom of the keyboard bay.



3. Apply gentle pressure to secure the keyboard latches.

Replacing the 3G Card

1. Push the 3G card into the slot until it clicks into place.



Replacing the SD Dummy Card

1. Insert the SD dummy card into the slot.

2. Push the card in until it clicks into place and is flush with the casing

Replacing the Battery

1. Pull the battery release latch into the open position then (1) insert the battery pack and push into place (2).

2. Push the battery lock latch in the direction shown to secure the battery.

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.

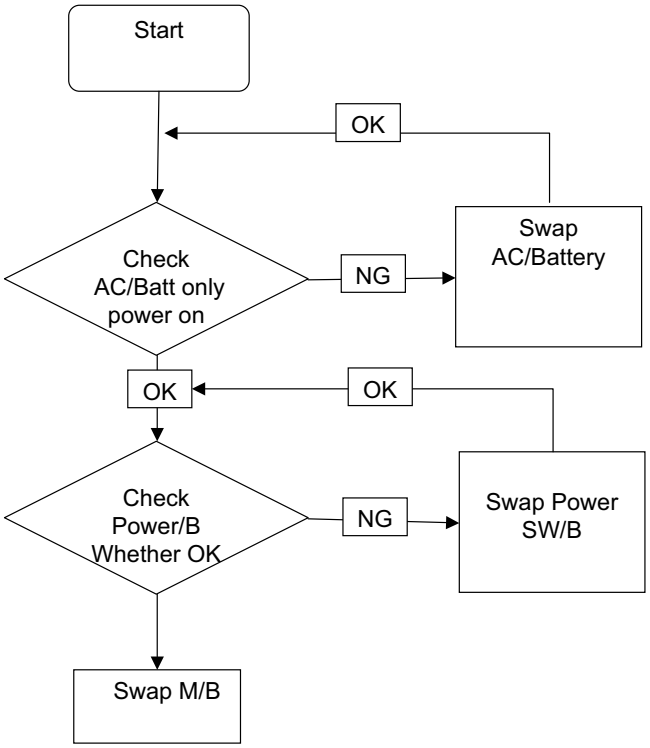
1. Obtain the failing symptoms in as much detail as possible.
2. Verify the symptoms by attempting to re-create the failure by running the diagnostic test or by repeating the same operation.
3. Use the following table with the verified symptom to determine which page to go to.

Symptoms (Verified)	Go To
Power On Issue	Page 126
No Display Issue	Page 127
LCD Failure	Page 129
Internal Keyboard Failure	Page 129
TouchPad Failure	Page 130
Internal Speaker Failure	Page 130
Internal Microphone Failure	Page 132
WLAN Failure	Page 134
Thermal Unit Failure	Page 137
Other Functions Failure	Page 138
Intermittent Failures	Page 139
Undermined Failures	Page 139

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:



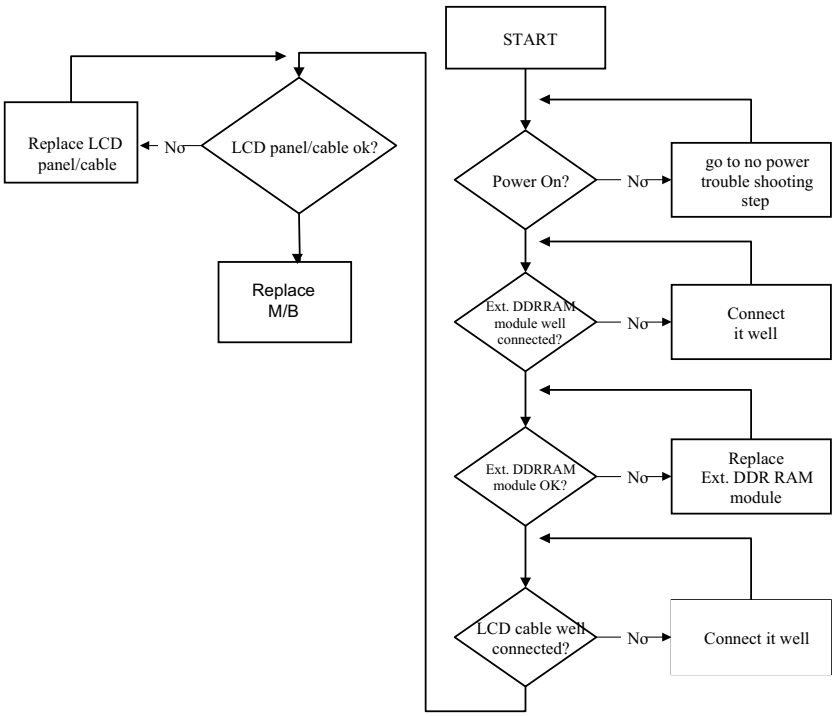
Computer Shutsdown Intermittently

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 (see "Thermal Unit Failure" on page 159) 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 FRU.



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 146.
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).
5. If the POST or video appears on the external display, see "LCD Failure" on page 149.
6. Disconnect power and all external devices including port replicators or docking stations. Remove any memory cards and CD/DVD discs. Restart the computer.
7. If the computer boots correctly, add the devices one by one until the failure point is discovered.
8. Reseat the memory modules.
9. Remove the drives. See "Removing the HDD Module" on page 61.
10. 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 “LCD Module Disassembly Process” on page 91.
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 “LCD Module Disassembly Process” on page 91.
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 “LCD Module Disassembly Process” on page 91.

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.

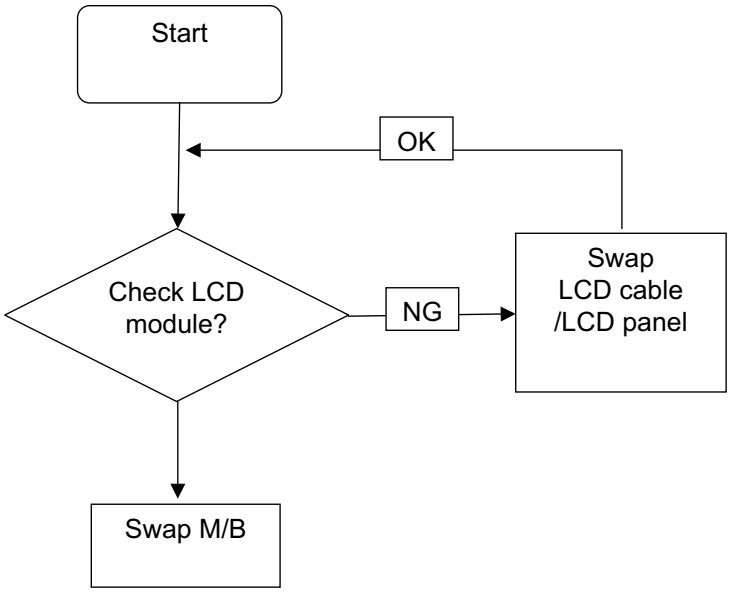
1. If the computer is more than one year old, replace the CMOS battery.
2. Run a complete virus scan using up-to-date software to ensure the computer is virus free.
3. If the computer is experiencing HDD or ODD BIOS information loss, disconnect and reconnect the power and data cables between devices.

   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.

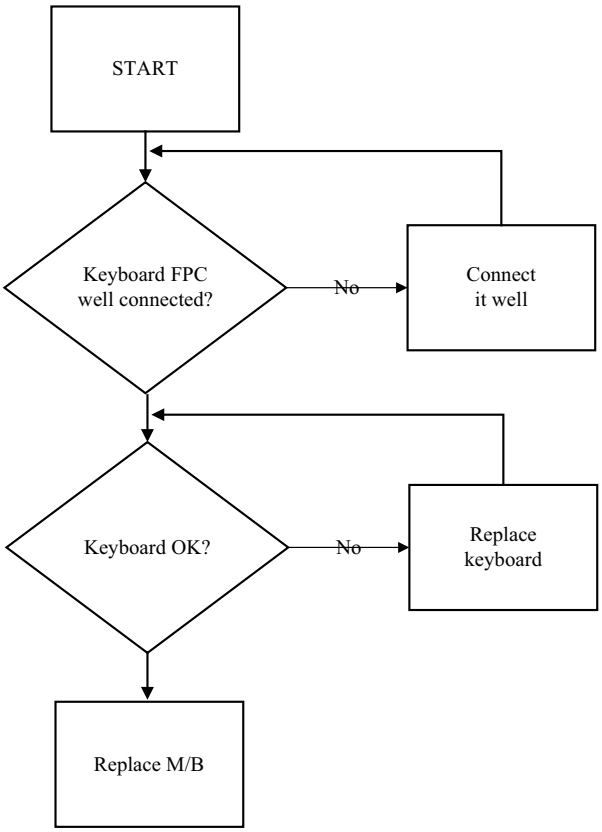
LCD Failure

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



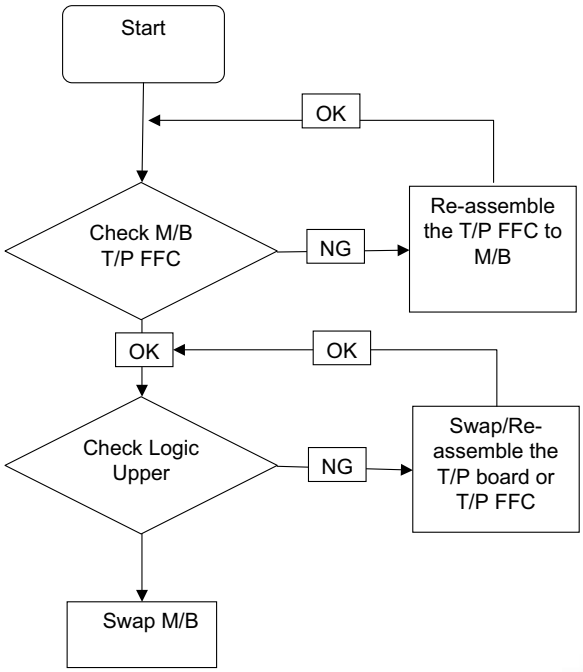
Built-In Keyboard Failure

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



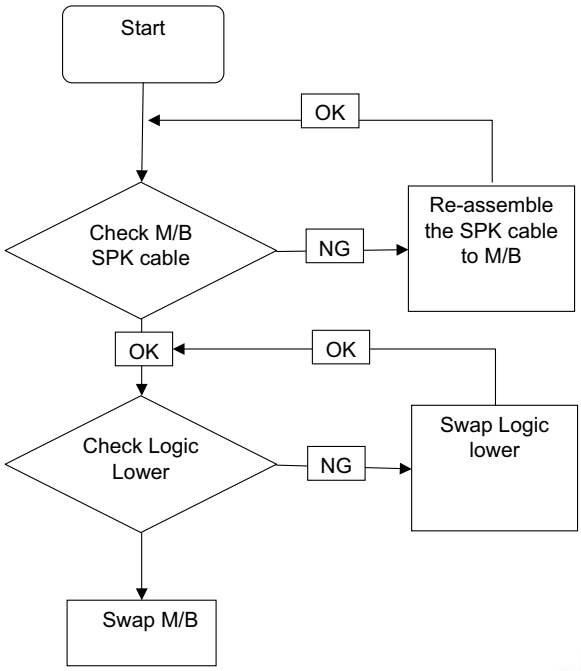
TouchPad Failure

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



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 FRU.



Sound Problems

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

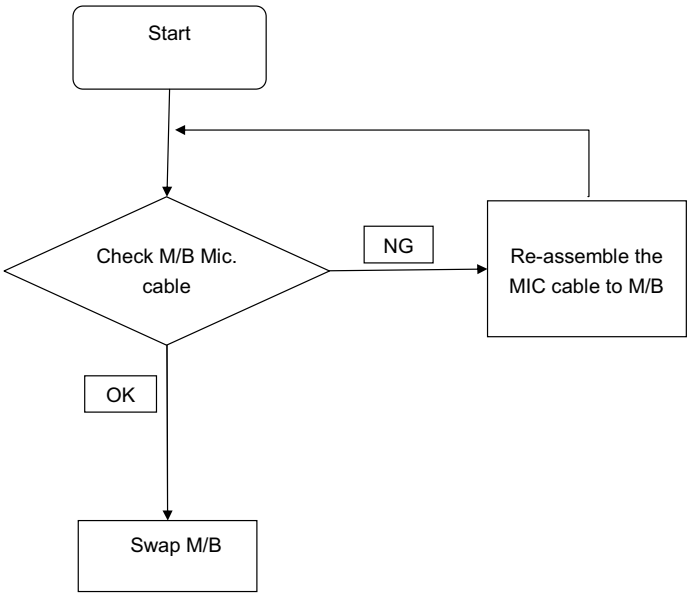
1. Reboot the computer.
2. Navigate to **Start→ Control Panel→ System and Maintenance→ System→ Device Manager**. Check the Device Manager to determine that:
   - The device is properly installed.
   - There are no red Xs or yellow exclamation marks.
   - There are no device conflicts.
   - No hardware 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**.
10. If the issue is not fixed, repeat the preceding steps and select an earlier time and date.
11. Reinstall the Operating System.
12. 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 FRU.



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**.

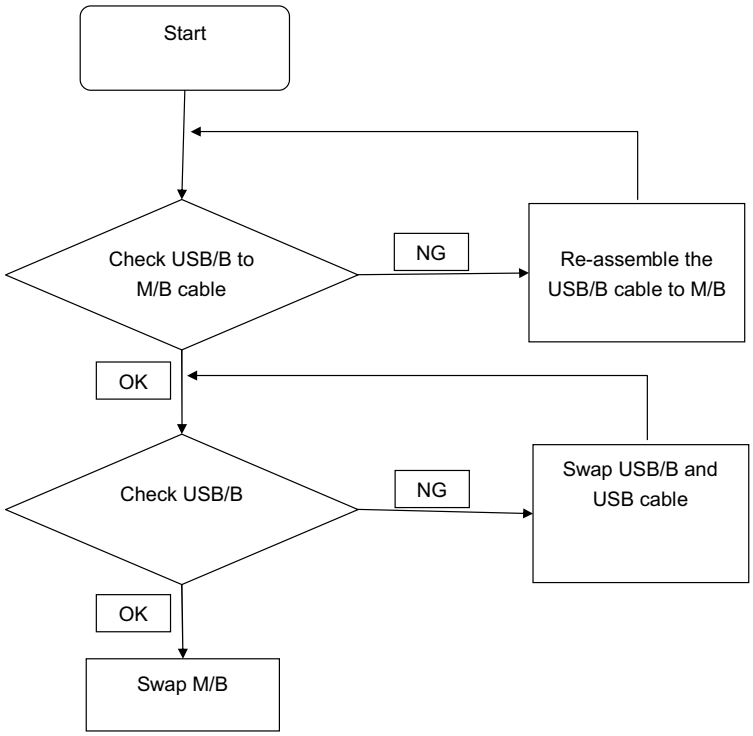
Note: Click **Load Drivers** if controller drives are required.

   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**.
11. If the issue is not fixed, repeat the preceding steps and select an earlier time and date.
12. Replace the HDD. See “LCD Module Disassembly Process” on page 91.

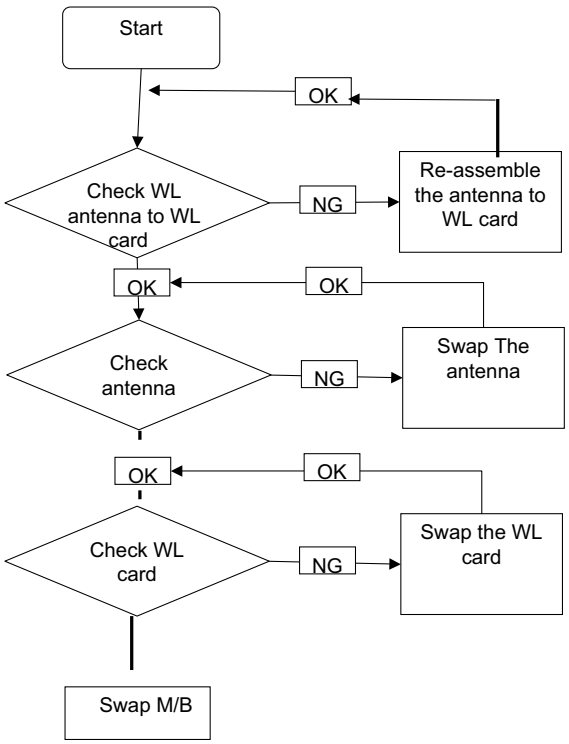
USB Failure

If the USB fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRU.



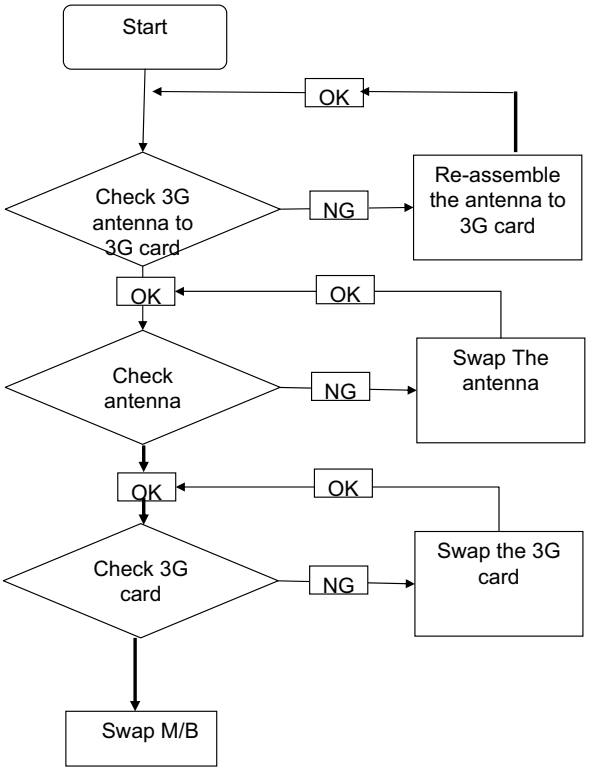
Wireless Function Failure

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



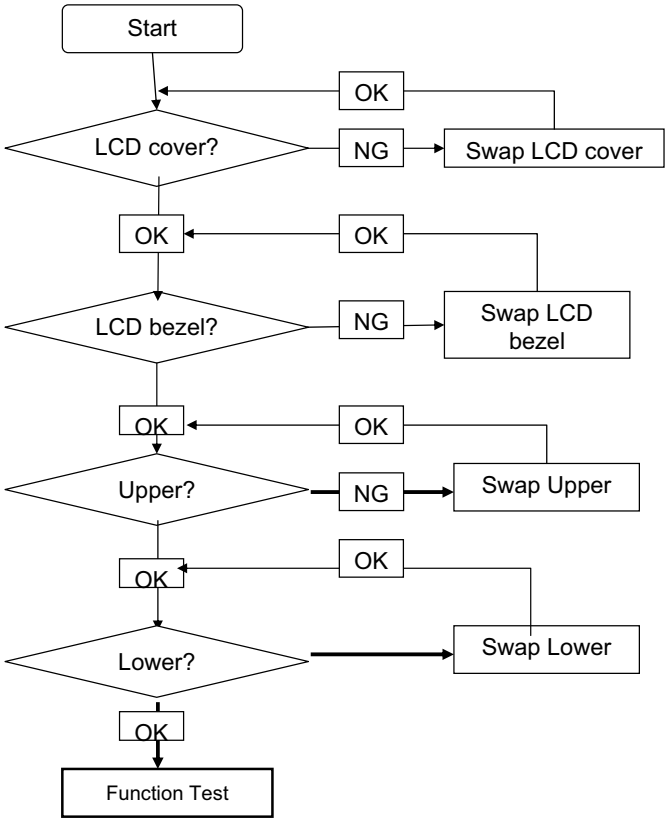
3G Function Failure

If the **3G module** fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRU.



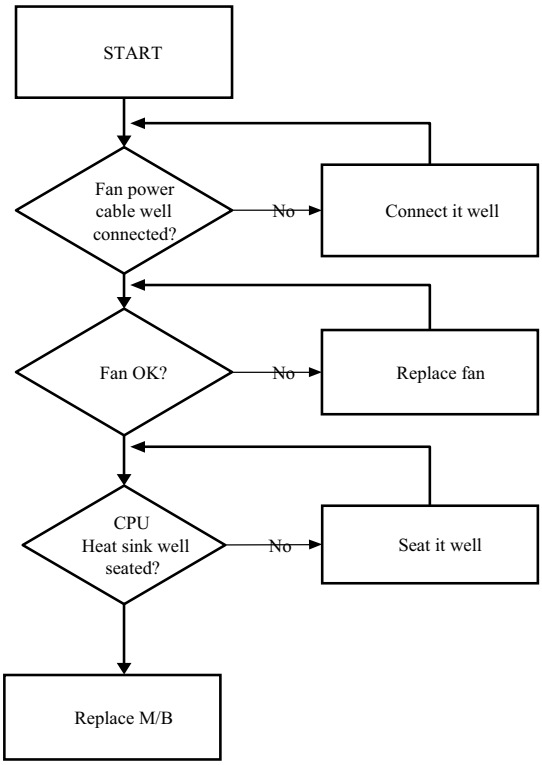
Cosmetic Failure

If an external component fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRU.



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 FRU.



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**.
9. If the issue is not fixed, repeat the preceding steps and select an earlier time and date.
10. Run the Event Viewer to check the events log for errors. For more information see Windows Help and Support.
11. Roll back the mouse driver to the previous version if updated recently.
12. Remove and reinstall the mouse driver.
13. 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.
14. 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, Card Reader or Volume Wheel fail, perform the following general steps to correct the problem. Do not replace a non-defective FRU.

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 a 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 146.):

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.

Sec:

NO_EVICTION_MODE_DEBUG EQU 1 (CommonPlatform\sec\Ia32\SecCore.inc)

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

Memory:

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

Code	Description
0xA0	First memory check point
0x01	Enable MCHBAR
0x02	Check for DRAM initialization interrupt and reset fail
0x03	Verify all DIMMs are DDR or DDR2 and unbuffered
0x04	Detect an improper warm reset and handle
0x05	Detect if ECC SO-DIMMs are present in the system
0x06	Verify all DIMMs are single or double sided and not asymmetric
0x07	Verify all DIMMs are x8 or x16 width
0x08	Find a common CAS latency between the DIMMS and the MCH
0x09	Determine the memory frequency and CAS latency to program
0x10	Determine the smallest common TRAS for all DIMMs
0x11	Determine the smallest common TRP for all DIMMs
0x12	Determine the smallest common TRCD for all DIMMs
0x13	Determine the smallest refresh period for all DIMMs
0x14	Verify burst length of 8 is supported by all DIMMs
0x15	Determine the smallest tWR supported by all DIMMs
0x16	Determine DIMM size parameters
0x17	Program the correct system memory frequency
0x18	Determine and set the mode of operation for the memory channels
0x19	Program clock crossing registers
0x20	Disable Fast Dispatch
0x21	Program the DRAM Row Attributes and DRAM Row Boundary registers
0x22	Program the DRAM Bank Architecture register
0x23	Program the DRAM Timing & and DRAM Control registers
0x24	Program ODT
0x25	Perform steps required before memory init
0x26	Program the receive enable reference timing control register Program the DLL Timing Control Registers, RCOMP settings
0x27	Enable DRAM Channel I/O Buffers

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

BDS & Specific action:

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

Each PEIM entry point used in 80_PORT

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

Each Driver entry point used in 80_PORT

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

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

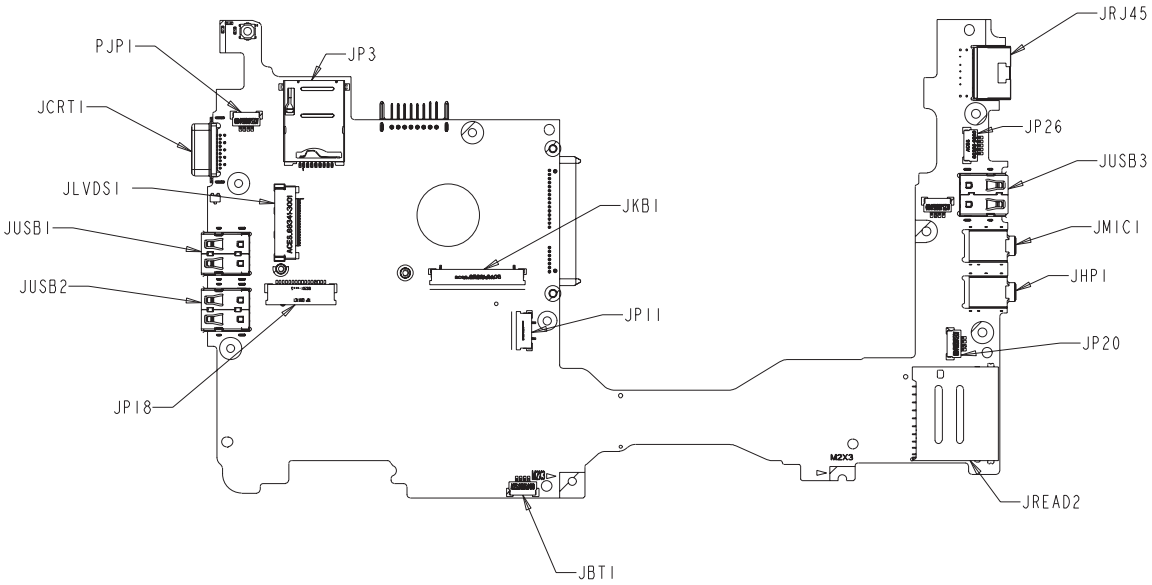
Code	Description
0x72	MONITER_KEY
0x73	LEGACY_BIOS
0x75	LEGACY_BIOS_PLATFORM
0x76	PCI_PLATFORM
0x6C	ISA_FLOOPY
0x6D	PS2_MOUSE
0x6E	USB_BOT
0x6F	USB_CBI0
0x74	USB_MOUSE
0xFA	SETUP_UTILITY
0x90	FW_BLOCK_SERVICE
0x78	SMM_USB_LEGACY
0x86	GRAPHICS_CONSOLE
0x87	TERMINAL
0x8A	DATA_HUB_STD_ERR
0x7C	FAT
0x7D	PARTITION
0x7E	ENGLISH
0x7F	FRENCH
0x9E	HII_DATABASE
0x9F	OEM_SETUP_BROWSER
0x8C	OEM_BADGING_SUPPORT
0xF9	SETUP_MOUSE
0x72	MONITOR_KEY
0xBD	PLATFORM_BDS
0x8D	RESERVED
0x8E	RESERVED
0x8F	RESERVED
0xA0	DXE_H2O_DEBUG_IO
0xB3	DXE_TPM_TCG
0xB4	DXE_TPM_PHYSICAL_PRESENCE
0xB7	DXE_OEM_SERVICE
0x9B	DXE_ SECURITY_HDD_PASSWORD_SERVICE
0xA9	DXE_LAN_IDER_CONTROLLER
0x9C	DXE_ SECURITY_SYSTEM_PASSWORD_SERVICE
0x9D	DXE_ SECURITY_ PASSWORD_CONSOLE
0xCB	DXE_ DATA_HUB_RECORD_POLICY
0xB5	DXE_TPM_DRIVER
0x11	CHINESE
0xB0	JAPANESE
0xB1	DXE_UNICODE_COLLACTION

Each SmmDriver entry point used in 80_PORT

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

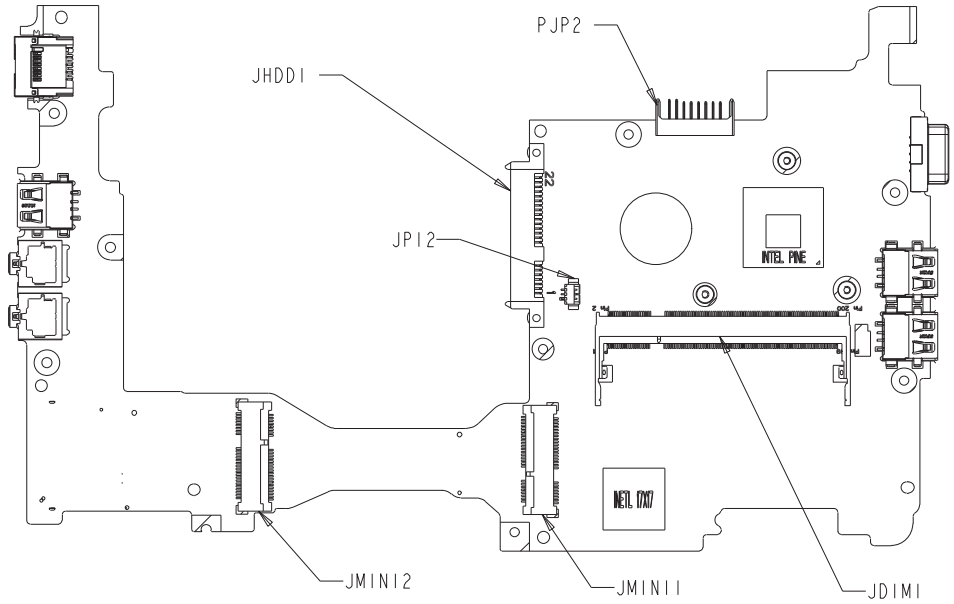
Jumper and Connector Locations

Mainboard Top View



Item	Description
JRJ45	RJ45 CONNECTOR
JP26	MICROPHONE CONNECTOR
JUSB3	USB CONNECTOR
JMIC 1	AUDIO JACK (MIC)
JHP 1	AUDIO JACK (HEAD PHONE)
JP20	SPEAKER CONNECTOR
JBT 1	BLUETOOTH CONNECTOR
JPI 1	TOUCH PAD CONNECTOR
JKB 1	KEYBOARD CONNECTOR
JPI 8	LED BOARD CONNECTOR
JUSB2	USB CONNECTOR
JUSB1	USB CONNECTOR
JLVDS 1	LVDS CONNECTOR
JCRT 1	D_SUB CONECTOR
PJP 1	DC-IN JACK CONNECTOR
JP3	SIM CARD CONNECTOR

Mainboard Bottom View



Item	Description
JDIMI	DDR2 CONNECTOR
JMINI 1	MINI CARD CONNECTOR
JMINI 2	MINI CARD CONNECTOR
JPI2	FAN CONNECTOR
JHDD1	HDD CONNECTOR
PJP2	BATTERY CONNECTOR

Clearing Password Check and BIOS Recovery

This section provide you the standard operating procedures of clearing password and BIOS recovery for the computer. There is one Hardware Open Gap on the mainboard for clearing password check, and one Hotkey for enabling BIOS Recovery.

Clearing Password Check

Hardware Open Gap Description is as follows:

Item	Description	Location
R1184	Clear CMOS Jumper	Located near DIMM Module

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:

1. Power Off the system, and remove HDD, AC and Battery from the machine.
2. Disconnect the RTC Battery cable and locate the CMOS jumper in the DIMM bay.
3. Use an electric conductivity tool to short the two points of the HW Gap.
4. 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.
5. Restart system. Press **F2** key to enter BIOS Setup menu.
6. If there is no Password request, BIOS Password is cleared. Otherwise, please follow the steps and try again.

Note: These 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 from USB Storage:

Before doing this, prepare the Crisis USB key. The Crisis USB key could be made by executing the Crisis Disk program in another system with Windows XP OS.

Follow the steps below:

1. Save ROM file (file name: **PAV70D2.fd** for **DDR2, PAV70D3.FD** for **DDR3**) to the root directory of USB storage.
2. Plug USB storage into USB port.
3. Press **Fn + ESC** button then plug in AC.

   The Power button flashes once.
4. Press **Power** button to initiate system CRISIS mode.

   When CRISIS is complete, the system auto restarts with a workable BIOS.
5. Update the latest version BIOS for this machine by regular BIOS flashing process.

Steps for BIOS Recovery by Crisis Disk:

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

Follow the steps below:

1. Power Off failed system.
2. Attach a USB floppy drive to the failed system.
3. Copy **xxxxx.wph** to tool's folder and rename it as **BIOS.wph**.
4. Execute **wincris.exe** to start the Crisis Disk Build.
5. Select **Removable** and click **Start**.
6. Select **Quick Format Disk** and click **Start**. A progress screen displays.
7. Click **OK** to complete the process.
8. Insert the Crisis Disk in to the USB floppy drive attached to the BIOS flash failed system.
9. 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.

Update to the latest version BIOS for the system using the regular BIOS flashing process.

FRU (Field Replaceable Unit) List

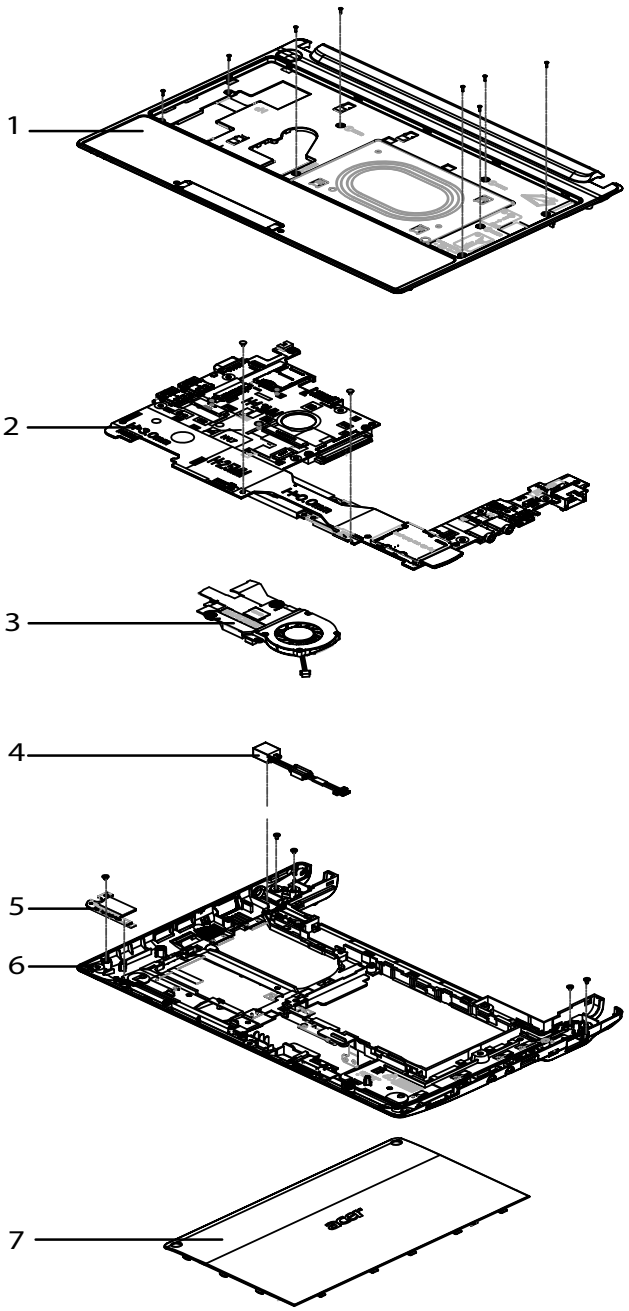
This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of the computer. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

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.

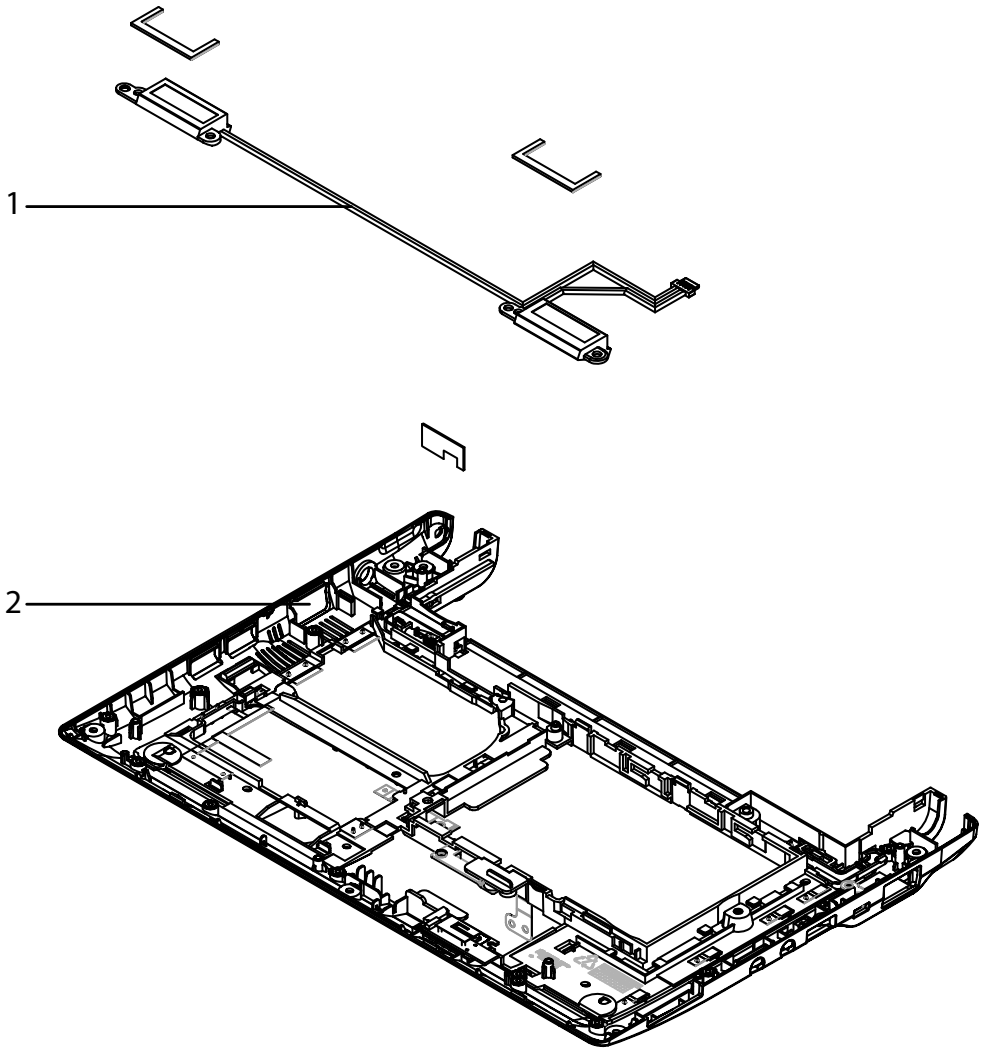
Exploded Diagrams

Main Assembly



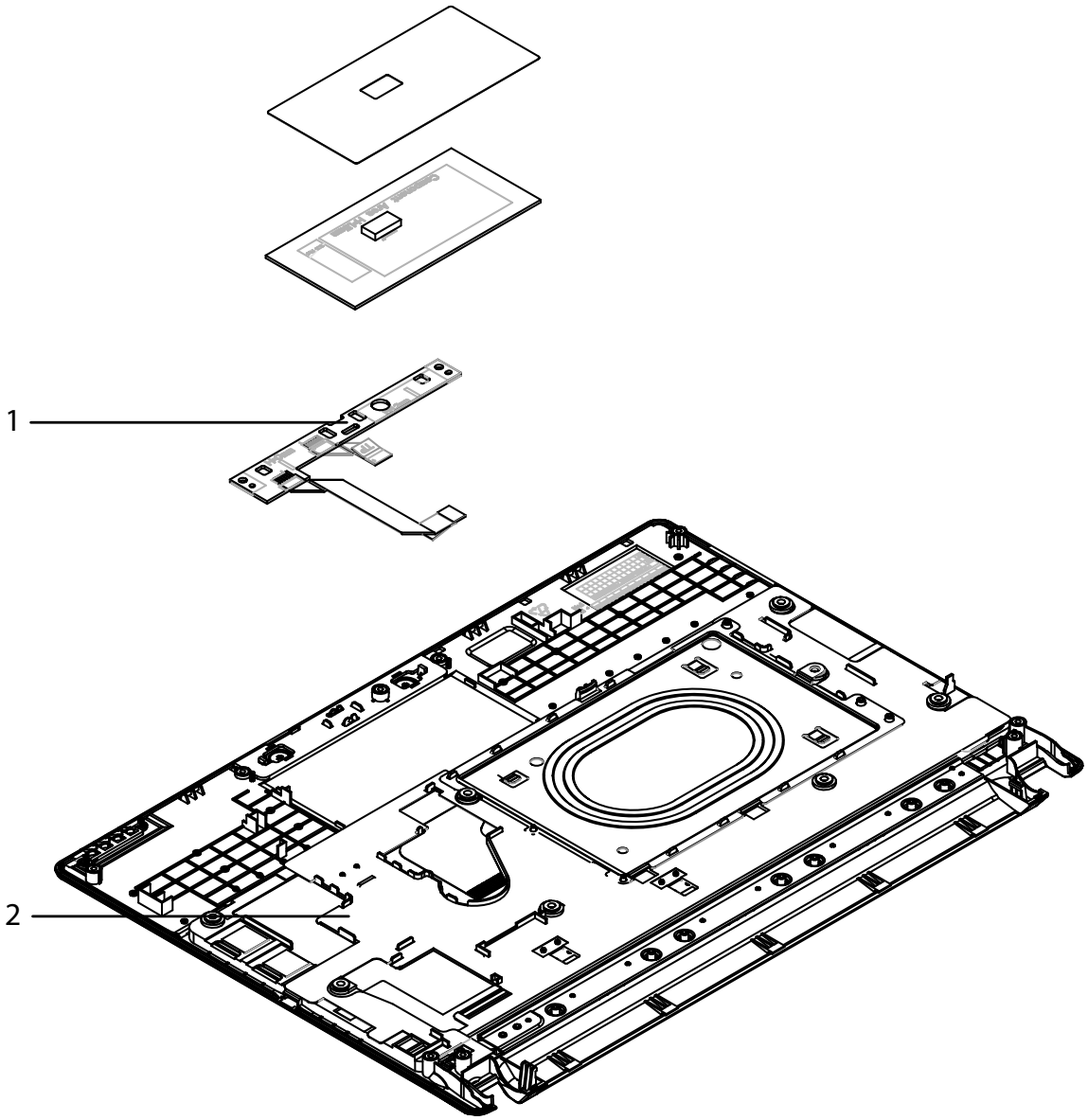
No.	Description	Acer P/N	No.	Description	Acer P/N
1	UPPER CASE	60.NE502.001	5	LED BOARD FOR W/O 3G	55.SDE02.002
2	MAINBOARD	MB.SDF02.001	6	LOWER CASE	60.SDE02.002
3	THERMAL MODULE W/FAN	60.SDE02.006	7	LOGIC DOOR	60.NE502.002
4	DC IN CABLE	50.SDE02.003			

Logic Lower Assembly



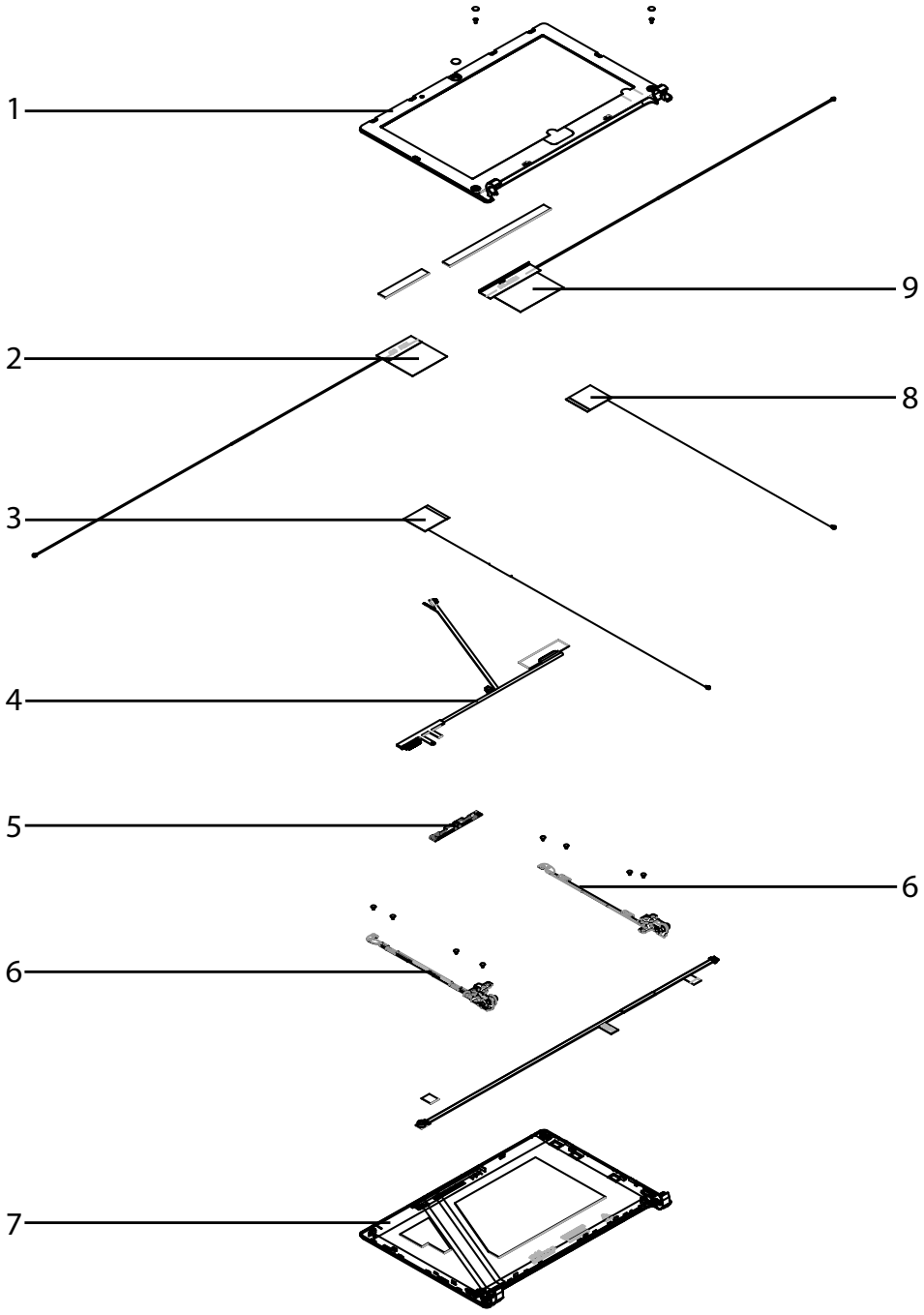
No.	Description	Acer P/N	No.	Description	Acer P/N
1	SPEAKER R+L	23.SDE02.002	2	LOWER CASE	60.SDE02.002

Logic Upper Assembly



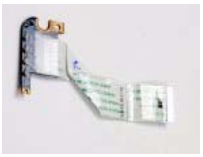
No.	Description	Acer P/N	No.	Description	Acer P/N
1	BUTTON BOARD	55.SDE02.001	2	UPPER CASE	60.NE502.001

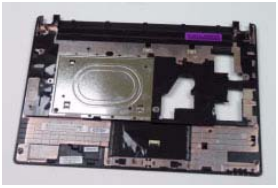
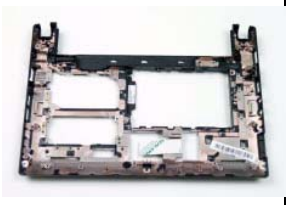
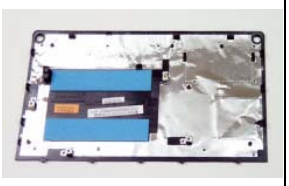
LCD Assembly



No.	Description	Acer P/N	No.	Description	Acer P/N
1	LCD BEZEL	60.NE502.004	6	LCD BRACKET R&L	33.SDE02.002
2	ANTENNA 3G AUX		7	LCD COVER IMR-BLACK W/O 3G	60.NE502.003
3	ANTENNA WLAN AUX	50.SDE02.005	8	ANTENNA WLAN MAIN	50.SDE02.004
4	LCD CABLE FOR W/O 3G	50.SDE02.008	9	ANTENNA 3G MAIN	
5	CAMERA 1.3M	57.SDE02.001			

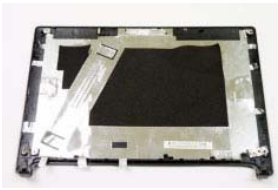
FRU List

CATEGORY	Description	P/N
ADAPTER		
	Adapter DELTA 40W 19V 1.7x5.5x11 Black ADP-40 TH AA, LV5 wall-mounted, OBL LF	AP.04001.002
	Adapter LEADER 40W 19V 1.7x5.5x11 Black IU40-11190-011S, wall-mounted, LV5+OBL LF	AP.04007.002
BATTERY		
	Battery SANYO AL10A Li-Ion 3S1P SANYO 3 cell 2200mAh Main COMMON ID:AL10A31	BT.00303.022
	Battery SANYO AL10B Li-Ion 3S2P SANYO 6 cell 4400mAh Main COMMON ID:AL10B31	BT.00603.114
BOARD		
	FOXCONN BLUETOOTH ATH AR3011 (BT3.0)	BH.21100.009
	FOXCONN BLUETOOTH BRM 2070 (T77H114.01) BT 3.0	BH.21100.010
	FOXCONN BLUETOOTH ATH BU12	BH.21100.011
	BUTTON BOARD	55.SDE02.001
	LED BOARD FOR W/O 3G	55.SDE02.002
	FOXCONN WIRELSS LAN BROADCOM 4313 1X1 BGN (HM) T77H194.00	NI.23600.076
	LITEON WIRELESS LAN ATHEROS HB95 1X1 BGN (HM) WN6601AH	NI.23600.070
	LITEON WIRELESS LAN RELTEK RTL8191SE 1X1 BGN (WN6605LH)	NI.23600.071
	FOXCONN WIRELSS LAN ATHEROS HB95 1X1 BGN (HM) T77H121.01	NI.23600.068
	QMI WIRELESS LAN ATHEROS HB95 1X1 BGN(HM) EM305	NI.23600.069
	Lan Intel WLAN 112BN.HMWG MM#903341	KI.CPH01.001
CABLE		
	BLUE TOOTH CABLE-8PIN	50.SDE02.001
	BLUE TOOTH CABLE-6PIN	50.SDE02.002
	DC IN CABLE	50.SDE02.003

CATEGORY	Description	P/N
	AC CLIP US	27.WH202.001
	AC CLIP EU	27.WH202.002
	AC CLIP AUSTRALIA	27.WH202.003
	AC CLIP UK	27.WH202.004
	AC CLIP ARGETINA	27.WH202.005
	AC CLIP CHINA	27.WH202.006
	AC CLIP BRAZIL	27.WH202.007
	AC CLIP S-AFRICA	27.WH202.008
	AC CLIP KOREA	27.WH202.009
	AC CLIP AF	27.WH202.010
	ANTENNA WLAN MAIN	50.SDE02.004
	ANTENNA WLAN AUX	50.SDE02.005
	LCD CABLE FOR W/O 3G	50.SDE02.008
CASE/COVER/BRACKET ASSEMBLY		
	UPPER CASE-BLACK	60.NE502.001
	LOWER CASE-BLACK	60.SDE02.002
	UNILOAD DOOR-BLACK	60.NE502.002
	HDD HOUSING	33.SDE02.001

CATEGORY	Description	P/N
HDD/HARD DISK DRIVE		
	HDD HGST 2.5" 5400RPM 160GB HTS545016B9A300 PANTHER B SATA LF F/W:C60F DISK IMBALANCE CRITERIA = 0.014G-CM	KH.16007.026
	HDD TOSHIBA 2.5" 5400RPM 160GB MK1665GSX, CAPRICORN BS, 320G/P SATA 8MB LF F/W:GJ002J	KH.16004.008
	HDD WD 2.5" 5400RPM 160GB WD1600BEVT-22A23T0 , WD, ML320S SATA 8MB LF F/W:01.01A01	KH.16008.027
	HDD SAMSUNG 2.5" 5400rpm 160GB M7E, 320G/P, HM161GI, Samsung SATA 8MB LF F/W:2AJ0002	KH.1600B.005
	HDD SEAGATE 2.5" 5400RPM 160GB ST9160314AS,9HH13C-189, SEAGATE(NEW PCB) SATA 8MB LF F/W:0001SDM1	KH.16001.045
	HDD SAMSUNG 1.8" 5400rpm 160GB HS16VJF/ACE SATA LF F/W:3AL103c4	KH.1600B.004
	HDD TOSHIBA 1.8" 5400rpm 160GB MK1629GSG Opal BS SATA LF F/W:PS110J	KH.16004.007
	HDD WD 2.5" 5400rpm 160GB WD1600BEVT-22ZCTO ML160 SATA LF F/W:11.01A11	KH.16008.022
	HDD HGST 2.5" 5400RPM 250GB HTS545025B9A300 PANTHER B SATA LF F/W:C60F DISK IMBALANCE CRITERIA = 0.014G-CM	KH.25007.016
	HDD TOSHIBA 2.5" 5400RPM 250GB MK2565GSX, CAPRICORN BS, 320G/P SATA 8MB LF F/W:GJ002J	KH.25004.005
	HDD WD 2.5" 5400RPM 250GB WD2500BEVT-22A23T0, WD, ML320S SATA 8MB LF F/W:01.01A01.	KH.25008.025
	HDD SEAGATE 2.5" 5400RPM 250GB ST9250315AS, 9HH132-189, WYATT WITH NEW PCB SATA 8MB LF F/W:0001SDM1	KH.25001.019
	HDD HGST 2.5" 5400rpm 250GB HTS543225A7A384, Eagle B7, 320G/P SATA 8MB LF+HF F/W:A60W	KH.25007.020
	HDD TOSHIBA 1.8" 5400rpm 250GB MK2529GSG Opal BS SATA LF F/W:PS110J	KH.25004.004
	HDD TOSHIBA 2.5" 5400rpm 250GB MK2559GSXP,Capricorn 3BS, 4K drive, 375G/P SATA 8MB LF+HF F/W:GN003J 4K drive	KH.25004.006
	HDD WD 2.5" 5400rpm 250GB WD2500BPVT-22ZEST0,ML320S-AF, 4K drive SATA 8MB LF F/W:01.01A01 4K drive	KH.25008.029
	HDD HGST 2.5" 5400RPM 320GB HTS545032B9A300 PANTHER B SATA LF F/W:C60F DISK IMBALANCE CRITERIA = 0.014G-CM	KH.32007.008
	HDD WD 2.5" 5400RPM 320GB WD3200BEVT-22A23T0,ML320S,WD SATA 8MB LF F/W:01.01A01	KH.32008.019
	HDD HGST 2.5" 5400rpm 320GB HTS543232A7A384, Eagle B7, 320G/P SATA LF+HF F/W:A60W	KH.32007.013
	HDD HGST 2.5" 5400rpm 500GB HTS545050B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm	KH.50007.010
	HDD WD 2.5" 5400rpm 500GB WD5000BPVT-22HXZT1,ML375_AF, 4K drive SATA 8MB LF+HF F/W:01.01A01	KH.50008.021

CATEGORY	Description	P/N
KEYBOARD		
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 84KS Black US International Texture	KB.I100A.086
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 84KS Black Greek Texture	KB.I100A.070
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 84KS Black Arabic Texture	KB.I100A.061
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 84KS Black Chinese Texture	KB.I100A.065
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 84KS Black Russian Texture	KB.I100A.078
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 84KS Black US International w/ Hebrew Texture	KB.I100A.087
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 84KS Black Thailand Texture	KB.I100A.083
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 84KS Black Korean Texture	KB.I100A.074
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black UK Texture	KB.I100A.085
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black German Texture	KB.I100A.069
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black Swiss/G Texture	KB.I100A.082
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black Belgium Texture	KB.I100A.062
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black Danish Texture	KB.I100A.066
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black Italian Texture	KB.I100A.072
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black French Texture	KB.I100A.068
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black Hungarian Texture	KB.I100A.071
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black Norwegian Texture	KB.I100A.076
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black Portuguese Texture	KB.I100A.077
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black Spanish Texture	KB.I100A.080
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black US w/ Canadian French Texture	KB.I100A.088
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black Turkish Texture	KB.I100A.084
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black Sweden Texture	KB.I100A.081
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black FR/Arabic Texture	KB.I100A.067
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black Nordic Texture	KB.I100A.075

CATEGORY	Description	P/N
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black SLO/CRO Texture	KB.I100A.079
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black CZ/SK Texture	KB.I100A.064
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black Brazilian Portuguese Texture	KB.I100A.063
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 88KS Black Japanese Texture	KB.I100A.073
LCD		
	ASSY LED MODULE 10.1" WSVGA Glare w/ ANTENNA, CCD-BLACK, eM355	6M.NE502.001
	ASSY LED MODULE 10.1" WSVGA None Glare w/ ANTENNA, CCD-BLACK, eM355	6M.NE502.002
	LCD COVER IMR-BLACK W/O 3G	60.NE502.003
	LCD BEZEL-BLACK	60.NE502.004
	LCD BRACKET R&L	33.SDE02.002
	CAMERA 1.3M	57.SDE02.001
	LED LCD CMO 10.1" WSVGA Glare N101L6-L0D LF 200nit 10ms 500:1	LK.1010D.004
	LED LCD CMI 10.1" WSVGA Glare N101L6-L0D C2 LF 200nit 10ms 500:1	LK.1010D.005
	LED LCD LPL 10.1" WSVGA None Glare LP101WSB-TLP2 LF 200nit 16ms 400:1	LK.10108.006
	LED LCD AUO 10.1" WSVGA NONE GLARE B101AW06 V0 LF 200NIT 16MS 400:1	LK.10105.006

CATEGORY	Description	P/N
MAINBOARD		
	MAINBOARD AOD255 INTEL NM10 LF N450 W/O 3G	MB.SDF02.001
	MAINBOARD AOD255 INTEL NM10 LF N455 CPU W/O 3G	MB.SDH02.002
	MAINBOARD AOD255 INTEL NM10 LF N475CPU, W/O 3G, W/O MCP	MB.SDJ02.001
	MAINBOARD AOD255 INTEL NM10 LF N550 W/O 3G	MB.SDH02.001
	Mainboard AOD255E Intel NM10 LF N570 CPU, w/o 3G	MB.SEW02.001
MEMORY		
	MEMORY HYNIX SO-DIMM DDRIII 1333 1GB HMT112S6TFR8C-H9 LF 128*8 0.055UM	KN.1GB0G.026
	Memory A-DATA SO-DIMM DDRIII 1333 1GB AD73I1A0873EU LF 128*8 0.065um	KN.1GB0C.009
	Memory UNIFOSA SO-DIMM DDRIII 1333 1GB GU672203EP0200 LF 128*8 0.065um	KN.1GB0H.017
	MEMORY HYNIX SO-DIMM DDRIII 1333 2GB HMT325S6BFR8C-H9 LF 256*8 46NM	KN.2GB0G.018
	Memory NANYA SO-DIMM DDRIII 1333 2GB NT2GC64B88B0NS-CG LF 256*8 0.055um	KN.2GB03.021
	MEMORY KINGSTON SO-DIMM DDRII 800 1GB ACR128X64D2S800C6 LF 128*8 0.065UM	KN.1GB07.003
	MEMORY SAMSUNG SO-DIMM DDRII 800 1GB M470T2864EH3-CF7 LF 64*16 0.055UM	KN.1GB0B.033
	MEMORY SAMSUNG SO-DIMM DDRII 800 2GB M470T5663EH3-CF7 LF 128*8 0.055UM	KN.2GB0B.018
	MEMORY KINGSTON SO-DIMM DDRII 800 2GB ACR256X64D2S800C6 LF 128*8 0.065UM	KN.2GB07.003
HEATSINK		
	THERMAL MODULE W/FAN	60.SDE02.006
	THERMAL MODULE W/FAN FOR N550 CPU	60.SDE02.007
MISCELLANEOUS		
	LCD SCREW MYLAR-BLACK	47.SDE02.001
	LOW SIM CARD MYLAR-BLACK	47.SDE02.002
	2 IN1 CARD READER MYLAR FOR W/3G	47.SDU02.003

CATEGORY	Description	P/N
SPEAKER		
	MIC SET	23.SDE02.001
	SPEAKER R+L	23.SDE02.002

Screw List

CATEGORY	Description	P/N
SCREW		
	SCREW 2D 3L K 4.5D ZK NL CR3 0.4T	86.SDE02.001
	SCREW 2D 3L K 4.5D ZK NL	86.SDE02.002
	SCREW 2D 4.0L K 4.0D NI NL 0.3T	86.SDE02.003
	SCREW 2D 5L K 4.6D ZK NL CR3	86.SDE02.004
	SCREW 2D 7L K 4.6D ZK NL CR3	86.SDE02.005
	SCREW 3.0D 3.0L K 4.9D NI	86.SDE02.006

Model Definition and Configuration

eMachines 355

Model	Country	P/N	RO	Description
eM355-131G16ikk	CN	LU.NE50C.001	CHINA	eM355-131G16ikk LinpusMGeCN1 UMACkk_3 1*1G/160/3L2.2/2R/ CBSDS_GN_0.3C_GEk_ZH41
eM355-131G16ikk	DE	LU.NE50D.011	EMEA	eM355-131G16ikk SNW7ST32eSDE1 UMACkk_3 1*1G/160/6L2.2/2R/ CBSDS_GN_0.3C_GEk_DE11
eM355-131G16ikk	MOYO	LU.NE50D.063	EMEA	eM355-131G16ikk EM SNW7ST32EMeSME1 UMACkk_3 1*1G/160/BT/3L2.2/2R/ CBSDS_GN_0.3C_GEk_ARA1
eM355-131G16ikk	RU	LU.NE50D.006	EMEA	eM355-131G16ikk SNW7ST32RUeSRU1 UMACkk_3 1*1G/160/3L2.2/2R/ CBSDS_GN_0.3C_GEk_ES61
eM355-131G16ikk	RU	LU.NE50D.007	EMEA	eM355-131G16ikk SNW7ST32RUeSRU1 UMACkk_3 1*1G/160/3L2.2/2R/ CBSDS_GN_0.3C_GEk_RU62
eM355-131G16ikk	SI/HR	LU.NE50C.002	EMEA	eM355-131G16ikk LinpusMGeSI1 UMACkk_3 1*1G/160/3L2.2/2R/ CBSDS_GN_0.3C_GEk_SL21
eM355-131G16ikk	SI/HR	LU.NE50D.061	EMEA	eM355-131G16ikk SNW7ST32eSSI1 UMACkk_3 1*1G/160/3L2.2/2R/ CBSDS_GN_0.3C_GEk_SL11
eM355-131G16ikk	UA	LU.NE50D.008	EMEA	eM355-131G16ikk SNW7ST32RUeSUK1 UMACkk_3 1*1G/160/3L2.2/2R/ CBSDS_GN_0.3C_GEk_RU62
eM355-131G25ikk	AL/MK	LU.NE50D.018	EMEA	eM355-131G25ikk SNW7ST32EReSAL1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_A111
eM355-131G25ikk	AT	LU.NE50D.036	EMEA	eM355-131G25ikk SNW7ST32eSAT1 UMACkk_3 1*1G/250/3L2.2/2R/ CBSDS_GN_0.3C_GEk_DE61
eM355-131G25ikk	BE	LU.NE50D.037	EMEA	eM355-131G25ikk SNW7ST32eSBE1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_NL11
eM355-131G25ikk	CA	LU.NE50D.001	PA	eM355-131G25ikk SNW7ST32eSCA2 UMACkk_3 1*1G/250/3L2.2/2R/ CBSDS_GN_0.3C_GEk_FR87
eM355-131G25ikk	CH	LU.NE50D.048	EMEA	eM355-131G25ikk SNW7ST32eSCH1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_IT41
eM355-131G25ikk	CY	LU.NE50D.038	EMEA	eM355-131G25ikk SNW7ST32eSCY1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_ES61

Model	Country	P/N	RO	Description
eM355-131G25ikk	Czech	LU.NE50D.039	EMEA	eM355-131G25ikk SNW7ST32eSCZ2 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_SK11
eM355-131G25ikk	DE	LU.NE50D.012	EMEA	eM355-131G25ikk SNW7ST32eSDE1 UMACkk_3 1*1G/250/6L2.2/2R/ NASD_GN_0.3C_GEk_DE11
eM355-131G25ikk	DE	LU.NE50D.044	EMEA	eM355-131G25ikk SNW7ST32eSDE1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_DE11
eM355-131G25ikk	DK	LU.NE50D.040	EMEA	eM355-131G25ikk SNW7ST32eSDK2 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_ENS1
eM355-131G25ikk	DK	LU.NE50D.041	EMEA	eM355-131G25ikk SNW7ST32eSDK1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_NO11
eM355-131G25ikk	DZ	LU.NE50D.020	EMEA	eM355-131G25ikk EM SNW7ST32EMeSDZ1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_ARB1
eM355-131G25ikk	ES	LU.NE50D.059	EMEA	eM355-131G25ikk SNW7ST32eSES1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_ES51
eM355-131G25ikk	ES	LU.NE50D.060	EMEA	eM355-131G25ikk SNW7ST32eSES1 UMACkk_3 1*1G/250/6L2.2/2R/ CBSDS_GN_0.3C_GEk_ES51
eM355-131G25ikk	FI	LU.NE50D.042	EMEA	eM355-131G25ikk SNW7ST32eSFI2 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_FI11
eM355-131G25ikk	FR	LU.NE50D.009	EMEA	eM355-131G25ikk SNW7ST32eSFR1 UMACkk_3 1*1G/250/3L2.2/2R/ CBSDS_GN_0.3C_GEk_FR21
eM355-131G25ikk	FR	LU.NE50D.043	EMEA	eM355-131G25ikk SNW7ST32eSFR1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_FR21
eM355-131G25ikk	GR	LU.NE50D.014	EMEA	eM355-131G25ikk SNW7ST32eSGR1 UMACkk_3 1*1G/250/3L2.2/2R/ CBSDS_GN_0.3C_GEk_EL31
eM355-131G25ikk	GR	LU.NE50D.045	EMEA	eM355-131G25ikk SNW7ST32eSGR1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_EL31
eM355-131G25ikk	HU	LU.NE50D.050	EMEA	eM355-131G25ikk SNW7ST32eSHU1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_HU11
eM355-131G25ikk	IL	LU.NE50D.051	EMEA	eM355-131G25ikk SNW7ST32eSIL1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_HE62
eM355-131G25ikk	IT	LU.NE50D.010	EMEA	eM355-131G25ikk SNW7ST32eSIT1 UMACkk_3 1*1G/250/3L2.2/2R/ CBSDS_GN_0.3C_GEk_IT11
eM355-131G25ikk	IT	LU.NE50D.052	EMEA	eM355-131G25ikk SNW7ST32eSIT1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_IT11

Model	Country	P/N	RO	Description
eM355-131G25ikk	LU	LU.NE50D.053	EMEA	eM355-131G25ikk SNW7ST32eSLU3 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_IT41
eM355-131G25ikk	MOYO	LU.NE50D.013	EMEA	eM355-131G25ikk EM SNW7ST32EMeSME1 UMACkk_3 1*1G/250/BT/6L2.2/2R/ CBSDS_GN_0.3C_BAG_GEk_ARA1
eM355-131G25ikk	MOYO	LU.NE50D.021	EMEA	eM355-131G25ikk EM SNW7ST32EMeSME6 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_ES61
eM355-131G25ikk	MOYO	LU.NE50D.022	EMEA	eM355-131G25ikk EM SNW7ST32EMeSME2 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_AR11
eM355-131G25ikk	MOYO	LU.NE50D.023	EMEA	eM355-131G25ikk EM SNW7ST32EMeSME4 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_ES61
eM355-131G25ikk	MOYO	LU.NE50D.024	EMEA	eM355-131G25ikk EM SNW7ST32EMeSMEB UMACkk_3 1*1G/250/ 3L2.2/2R/NASD_GN_0.3C_GEk_ARA1
eM355-131G25ikk	MOYO	LU.NE50D.025	EMEA	eM355-131G25ikk EM SNW7ST32EMeSME2 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_ES61
eM355-131G25ikk	MOYO	LU.NE50D.026	EMEA	eM355-131G25ikk EM SNW7ST32EMeSMEC UMACkk_3 1*1G/250/ 3L2.2/2R/NASD_GN_0.3C_GEk_ARA1
eM355-131G25ikk	MOYO	LU.NE50D.027	EMEA	eM355-131G25ikk EM SNW7ST32EMeSME2 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_ARA1
eM355-131G25ikk	MOYO	LU.NE50D.028	EMEA	eM355-131G25ikk EM SNW7ST32EMeSME9 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_ES81
eM355-131G25ikk	MOYO	LU.NE50D.029	EMEA	eM355-131G25ikk EM SNW7ST32EMeSME3 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_ES81
eM355-131G25ikk	MOYO	LU.NE50D.030	EMEA	eM355-131G25ikk EM SNW7ST32EMeSME1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_ARA1
eM355-131G25ikk	MOYO	LU.NE50D.062	EMEA	eM355-131G25ikk EM SNW7ST32EMeSME1 UMACkk_3 1*1G/250/BT/3L2.2/2R/ CBSDS_GN_0.3C_GEk_ARA1
eM355-131G25ikk	NL	LU.NE50D.046	EMEA	eM355-131G25ikk SNW7ST32eSNL1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_NL11
eM355-131G25ikk	NO	LU.NE50D.054	EMEA	eM355-131G25ikk SNW7ST32eSNO1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_NO11
eM355-131G25ikk	PL	LU.NE50D.055	EMEA	eM355-131G25ikk SNW7ST32eSPL1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_PL11
eM355-131G25ikk	PT	LU.NE50D.056	EMEA	eM355-131G25ikk SNW7ST32eSPT1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_PT11

Model	Country	P/N	RO	Description
eM355-131G25ikk	RO	LU.NE50D.057	EMEA	eM355-131G25ikk SNW7ST32eSRO2 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_RO11
eM355-131G25ikk	RS/MK	LU.NE50D.019	EMEA	eM355-131G25ikk SNW7ST32EReSCS1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_SL11
eM355-131G25ikk	RU	LU.NE50D.015	EMEA	eM355-131G25ikk SNW7ST32RUeSRU1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_ES61
eM355-131G25ikk	RU	LU.NE50D.016	EMEA	eM355-131G25ikk SNW7ST32RUeSRU1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_RU62
eM355-131G25ikk	SE	LU.NE50D.047	EMEA	eM355-131G25ikk SNW7ST32eSSE1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_FI11
eM355-131G25ikk	SI/HR	LU.NE50D.058	EMEA	eM355-131G25ikk SNW7ST32eSSI1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_SL11
eM355-131G25ikk	TR	LU.NE50D.034	EMEA	eM355-131G25ikk EM SNW7ST32EMeSTR1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_TR31
eM355-131G25ikk	UA	LU.NE50D.017	EMEA	eM355-131G25ikk SNW7ST32RUeSUK1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_RU62
eM355-131G25ikk	UK	LU.NE50D.004	EMEA	eM355-131G25ikk SNW7ST32eSGB1 UMACkk_3 1*1G/250/3L2.2/2R/ CBSDS_GN_0.3C_GEk_EN11
eM355-131G25ikk	UK	LU.NE50D.005	EMEA	eM355-131G25ikk SNW7ST32eSGB1 UMACkk_3 1*1G/250/6L2.2/2R/ CBSDS_GN_0.3C_GEk_EN11
eM355-131G25ikk	UK	LU.NE50D.049	EMEA	eM355-131G25ikk SNW7ST32eSGB1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_EN11
eM355-131G25ikk	US	LU.NE50D.002	PA	eM355-131G25ikk SNW7ST32eSUS1 UMACkk_3 1*1G/250/3L2.2/2R/ CBSDS_GN_0.3C_GEk_FRB8
eM355-131G25ikk	US	LU.NE50D.003	PA	eM355-131G25ikk SNW7ST32eSUS1 UMACkk_3 1*1G/250/3L2.2/2R/ CBSDS_GN_0.3C_GEk_FRB6
eM355-131G25ikk	ZA	LU.NE50D.031	EMEA	eM355-131G25ikk EM SNW7ST32EMeSZA2 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_ES61
eM355-131G25ikk	ZA	LU.NE50D.032	EMEA	eM355-131G25ikk EM SNW7ST32EMeSZA1 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_ES81
eM355-131G25ikk	ZA	LU.NE50D.033	EMEA	eM355-131G25ikk EM SNW7ST32EMeSZA5 UMACkk_3 1*1G/250/3L2.2/2R/ NASD_GN_0.3C_GEk_ES61
eM355-231G25ikk	MX	LU.NE50D.035	PA	eM355-231G25ikk EM SNW7ST32EMeSMX2 UMACkk_3 1*1G/250/3L2.2/2R/ CBSDS_GN_0.3C_GEk_PT22

Model	Country	P/N	BOM Name	CPU
eM355-131G16ikk	CN	LU.NE50C.001	eM355_UMACkk_3	ATMN455B
eM355-131G16ikk	DE	LU.NE50D.011	eM355_UMACkk_3	ATMN455B
eM355-131G16ikk	MOYO	LU.NE50D.063	eM355_UMACkk_3	ATMN455B
eM355-131G16ikk	RU	LU.NE50D.006	eM355_UMACkk_3	ATMN455B
eM355-131G16ikk	RU	LU.NE50D.007	eM355_UMACkk_3	ATMN455B
eM355-131G16ikk	SI/HR	LU.NE50C.002	eM355_UMACkk_3	ATMN455B
eM355-131G16ikk	SI/HR	LU.NE50D.061	eM355_UMACkk_3	ATMN455B
eM355-131G16ikk	UA	LU.NE50D.008	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	AL/MK	LU.NE50D.018	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	AT	LU.NE50D.036	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	BE	LU.NE50D.037	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	CA	LU.NE50D.001	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	CH	LU.NE50D.048	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	CY	LU.NE50D.038	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	Czech	LU.NE50D.039	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	DE	LU.NE50D.012	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	DE	LU.NE50D.044	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	DK	LU.NE50D.040	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	DK	LU.NE50D.041	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	DZ	LU.NE50D.020	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	ES	LU.NE50D.059	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	ES	LU.NE50D.060	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	FI	LU.NE50D.042	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	FR	LU.NE50D.009	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	FR	LU.NE50D.043	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	GR	LU.NE50D.014	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	GR	LU.NE50D.045	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	HU	LU.NE50D.050	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	IL	LU.NE50D.051	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	IT	LU.NE50D.010	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	IT	LU.NE50D.052	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	LU	LU.NE50D.053	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	MOYO	LU.NE50D.013	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	MOYO	LU.NE50D.021	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	MOYO	LU.NE50D.022	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	MOYO	LU.NE50D.023	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	MOYO	LU.NE50D.024	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	MOYO	LU.NE50D.025	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	MOYO	LU.NE50D.026	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	MOYO	LU.NE50D.027	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	MOYO	LU.NE50D.028	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	MOYO	LU.NE50D.029	eM355_UMACkk_3	ATMN455B

Model	Country	P/N	BOM Name	CPU
eM355-131G25ikk	MOYO	LU.NE50D.030	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	MOYO	LU.NE50D.062	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	NL	LU.NE50D.046	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	NO	LU.NE50D.054	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	PL	LU.NE50D.055	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	PT	LU.NE50D.056	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	RO	LU.NE50D.057	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	RS/MK	LU.NE50D.019	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	RU	LU.NE50D.015	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	RU	LU.NE50D.016	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	SE	LU.NE50D.047	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	SI/HR	LU.NE50D.058	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	TR	LU.NE50D.034	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	UA	LU.NE50D.017	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	UK	LU.NE50D.004	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	UK	LU.NE50D.005	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	UK	LU.NE50D.049	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	US	LU.NE50D.002	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	US	LU.NE50D.003	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	ZA	LU.NE50D.031	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	ZA	LU.NE50D.032	eM355_UMACkk_3	ATMN455B
eM355-131G25ikk	ZA	LU.NE50D.033	eM355_UMACkk_3	ATMN455B
eM355-231G25ikk	MX	LU.NE50D.035	eM355_UMACkk_3	ATMN475B

Model	Country	P/N	LCD	Memory 1
eM355-131G16ikk	CN	LU.NE50C.001	NLED10.1WSVGAGS	SO1GBIII10
eM355-131G16ikk	DE	LU.NE50D.011	NLED10.1WSVGAGS	SO1GBIII10
eM355-131G16ikk	MOYO	LU.NE50D.063	NLED10.1WSVGAGS	SO1GBIII10
eM355-131G16ikk	RU	LU.NE50D.006	NLED10.1WSVGAGS	SO1GBIII10
eM355-131G16ikk	RU	LU.NE50D.007	NLED10.1WSVGAGS	SO1GBIII10
eM355-131G16ikk	SI/HR	LU.NE50C.002	NLED10.1WSVGAGS	SO1GBIII10
eM355-131G16ikk	SI/HR	LU.NE50D.061	NLED10.1WSVGAGS	SO1GBIII10
eM355-131G16ikk	UA	LU.NE50D.008	NLED10.1WSVGAGS	SO1GBIII10
eM355-131G25ikk	AL/MK	LU.NE50D.018	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	AT	LU.NE50D.036	NLED10.1WSVGAGS	SO1GBIII10
eM355-131G25ikk	BE	LU.NE50D.037	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	CA	LU.NE50D.001	NLED10.1WSVGAGS	SO1GBIII10
eM355-131G25ikk	CH	LU.NE50D.048	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	CY	LU.NE50D.038	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	Czech	LU.NE50D.039	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	DE	LU.NE50D.012	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	DE	LU.NE50D.044	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	DK	LU.NE50D.040	NLED10.1WSVGAS	SO1GBIII10

Model	Country	P/N	LCD	Memory 1
eM355-131G25ikk	DK	LU.NE50D.041	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	DZ	LU.NE50D.020	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	ES	LU.NE50D.059	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	ES	LU.NE50D.060	NLED10.1WSVGAGS	SO1GBIII10
eM355-131G25ikk	FI	LU.NE50D.042	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	FR	LU.NE50D.009	NLED10.1WSVGAGS	SO1GBIII10
eM355-131G25ikk	FR	LU.NE50D.043	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	GR	LU.NE50D.014	NLED10.1WSVGAGS	SO1GBIII10
eM355-131G25ikk	GR	LU.NE50D.045	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	HU	LU.NE50D.050	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	IL	LU.NE50D.051	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	IT	LU.NE50D.010	NLED10.1WSVGAGS	SO1GBIII10
eM355-131G25ikk	IT	LU.NE50D.052	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	LU	LU.NE50D.053	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	MOYO	LU.NE50D.013	NLED10.1WSVGAGS	SO1GBIII10
eM355-131G25ikk	MOYO	LU.NE50D.021	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	MOYO	LU.NE50D.022	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	MOYO	LU.NE50D.023	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	MOYO	LU.NE50D.024	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	MOYO	LU.NE50D.025	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	MOYO	LU.NE50D.026	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	MOYO	LU.NE50D.027	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	MOYO	LU.NE50D.028	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	MOYO	LU.NE50D.029	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	MOYO	LU.NE50D.030	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	MOYO	LU.NE50D.062	NLED10.1WSVGAGS	SO1GBIII10
eM355-131G25ikk	NL	LU.NE50D.046	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	NO	LU.NE50D.054	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	PL	LU.NE50D.055	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	PT	LU.NE50D.056	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	RO	LU.NE50D.057	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	RS/MK	LU.NE50D.019	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	RU	LU.NE50D.015	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	RU	LU.NE50D.016	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	SE	LU.NE50D.047	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	SI/HR	LU.NE50D.058	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	TR	LU.NE50D.034	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	UA	LU.NE50D.017	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	UK	LU.NE50D.004	NLED10.1WSVGAGS	SO1GBIII10
eM355-131G25ikk	UK	LU.NE50D.005	NLED10.1WSVGAGS	SO1GBIII10
eM355-131G25ikk	UK	LU.NE50D.049	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	US	LU.NE50D.002	NLED10.1WSVGAGS	SO1GBIII10
eM355-131G25ikk	US	LU.NE50D.003	NLED10.1WSVGAGS	SO1GBIII10

Model	Country	P/N	LCD	Memory 1
eM355-131G25ikk	ZA	LU.NE50D.031	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	ZA	LU.NE50D.032	NLED10.1WSVGAS	SO1GBIII10
eM355-131G25ikk	ZA	LU.NE50D.033	NLED10.1WSVGAS	SO1GBIII10
eM355-231G25ikk	MX	LU.NE50D.035	NLED10.1WSVGAGS	SO1GBIII10

Model	Country	P/N	HDD 1(GB)	Wireless LAN1
eM355-131G16ikk	CN	LU.NE50C.001	N160GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G16ikk	DE	LU.NE50D.011	N160GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G16ikk	MOYO	LU.NE50D.063	N160GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G16ikk	RU	LU.NE50D.006	N160GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G16ikk	RU	LU.NE50D.007	N160GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G16ikk	SI/HR	LU.NE50C.002	N160GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G16ikk	SI/HR	LU.NE50D.061	N160GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G16ikk	UA	LU.NE50D.008	N160GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	AL/MK	LU.NE50D.018	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	AT	LU.NE50D.036	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	BE	LU.NE50D.037	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	CA	LU.NE50D.001	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	CH	LU.NE50D.048	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	CY	LU.NE50D.038	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	Czech	LU.NE50D.039	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	DE	LU.NE50D.012	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	DE	LU.NE50D.044	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	DK	LU.NE50D.040	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	DK	LU.NE50D.041	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	DZ	LU.NE50D.020	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	ES	LU.NE50D.059	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	ES	LU.NE50D.060	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	FI	LU.NE50D.042	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	FR	LU.NE50D.009	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	FR	LU.NE50D.043	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	GR	LU.NE50D.014	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	GR	LU.NE50D.045	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	HU	LU.NE50D.050	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	IL	LU.NE50D.051	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	IT	LU.NE50D.010	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	IT	LU.NE50D.052	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	LU	LU.NE50D.053	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	MOYO	LU.NE50D.013	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	MOYO	LU.NE50D.021	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	MOYO	LU.NE50D.022	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	MOYO	LU.NE50D.023	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	MOYO	LU.NE50D.024	N250GB5.4KS	3rd WiFi 1x1 BGN

Model	Country	P/N	HDD 1(GB)	Wireless LAN1
eM355-131G25ikk	MOYO	LU.NE50D.025	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	MOYO	LU.NE50D.026	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	MOYO	LU.NE50D.027	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	MOYO	LU.NE50D.028	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	MOYO	LU.NE50D.029	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	MOYO	LU.NE50D.030	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	MOYO	LU.NE50D.062	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	NL	LU.NE50D.046	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	NO	LU.NE50D.054	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	PL	LU.NE50D.055	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	PT	LU.NE50D.056	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	RO	LU.NE50D.057	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	RS/MK	LU.NE50D.019	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	RU	LU.NE50D.015	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	RU	LU.NE50D.016	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	SE	LU.NE50D.047	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	SI/HR	LU.NE50D.058	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	TR	LU.NE50D.034	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	UA	LU.NE50D.017	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	UK	LU.NE50D.004	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	UK	LU.NE50D.005	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	UK	LU.NE50D.049	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	US	LU.NE50D.002	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	US	LU.NE50D.003	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	ZA	LU.NE50D.031	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	ZA	LU.NE50D.032	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-131G25ikk	ZA	LU.NE50D.033	N250GB5.4KS	3rd WiFi 1x1 BGN
eM355-231G25ikk	MX	LU.NE50D.035	N250GB5.4KS	3rd WiFi 1x1 BGN

Model	Country	P/N	Bluetooth	NB Chipset	Battery	Adapter
eM355-131G16ikk	CN	LU.NE50C.001	N	NM10	3CELL2.2	40W
eM355-131G16ikk	DE	LU.NE50D.011	N	NM10	6CELL2.2	40W
eM355-131G16ikk	MOYO	LU.NE50D.063	BT 3.0	NM10	3CELL2.2	40W
eM355-131G16ikk	RU	LU.NE50D.006	N	NM10	3CELL2.2	40W
eM355-131G16ikk	RU	LU.NE50D.007	N	NM10	3CELL2.2	40W
eM355-131G16ikk	SI/HR	LU.NE50C.002	N	NM10	3CELL2.2	40W
eM355-131G16ikk	SI/HR	LU.NE50D.061	N	NM10	3CELL2.2	40W
eM355-131G16ikk	UA	LU.NE50D.008	N	NM10	3CELL2.2	40W
eM355-131G25ikk	AL/MK	LU.NE50D.018	N	NM10	3CELL2.2	40W
eM355-131G25ikk	AT	LU.NE50D.036	N	NM10	3CELL2.2	40W
eM355-131G25ikk	BE	LU.NE50D.037	N	NM10	3CELL2.2	40W
eM355-131G25ikk	CA	LU.NE50D.001	N	NM10	3CELL2.2	40W
eM355-131G25ikk	CH	LU.NE50D.048	N	NM10	3CELL2.2	40W

Model	Country	P/N	Bluetooth	NB Chipset	Battery	Adapter
eM355-131G25ikk	CY	LU.NE50D.038	N	NM10	3CELL2.2	40W
eM355-131G25ikk	Czech	LU.NE50D.039	N	NM10	3CELL2.2	40W
eM355-131G25ikk	DE	LU.NE50D.012	N	NM10	6CELL2.2	40W
eM355-131G25ikk	DE	LU.NE50D.044	N	NM10	3CELL2.2	40W
eM355-131G25ikk	DK	LU.NE50D.040	N	NM10	3CELL2.2	40W
eM355-131G25ikk	DK	LU.NE50D.041	N	NM10	3CELL2.2	40W
eM355-131G25ikk	DZ	LU.NE50D.020	N	NM10	3CELL2.2	40W
eM355-131G25ikk	ES	LU.NE50D.059	N	NM10	3CELL2.2	40W
eM355-131G25ikk	ES	LU.NE50D.060	N	NM10	6CELL2.2	40W
eM355-131G25ikk	FI	LU.NE50D.042	N	NM10	3CELL2.2	40W
eM355-131G25ikk	FR	LU.NE50D.009	N	NM10	3CELL2.2	40W
eM355-131G25ikk	FR	LU.NE50D.043	N	NM10	3CELL2.2	40W
eM355-131G25ikk	GR	LU.NE50D.014	N	NM10	3CELL2.2	40W
eM355-131G25ikk	GR	LU.NE50D.045	N	NM10	3CELL2.2	40W
eM355-131G25ikk	HU	LU.NE50D.050	N	NM10	3CELL2.2	40W
eM355-131G25ikk	IL	LU.NE50D.051	N	NM10	3CELL2.2	40W
eM355-131G25ikk	IT	LU.NE50D.010	N	NM10	3CELL2.2	40W
eM355-131G25ikk	IT	LU.NE50D.052	N	NM10	3CELL2.2	40W
eM355-131G25ikk	LU	LU.NE50D.053	N	NM10	3CELL2.2	40W
eM355-131G25ikk	MOYO	LU.NE50D.013	BT 3.0	NM10	6CELL2.2	40W
eM355-131G25ikk	MOYO	LU.NE50D.021	N	NM10	3CELL2.2	40W
eM355-131G25ikk	MOYO	LU.NE50D.022	N	NM10	3CELL2.2	40W
eM355-131G25ikk	MOYO	LU.NE50D.023	N	NM10	3CELL2.2	40W
eM355-131G25ikk	MOYO	LU.NE50D.024	N	NM10	3CELL2.2	40W
eM355-131G25ikk	MOYO	LU.NE50D.025	N	NM10	3CELL2.2	40W
eM355-131G25ikk	MOYO	LU.NE50D.026	N	NM10	3CELL2.2	40W
eM355-131G25ikk	MOYO	LU.NE50D.027	N	NM10	3CELL2.2	40W
eM355-131G25ikk	MOYO	LU.NE50D.028	N	NM10	3CELL2.2	40W
eM355-131G25ikk	MOYO	LU.NE50D.029	N	NM10	3CELL2.2	40W
eM355-131G25ikk	MOYO	LU.NE50D.030	N	NM10	3CELL2.2	40W
eM355-131G25ikk	MOYO	LU.NE50D.062	BT 3.0	NM10	3CELL2.2	40W
eM355-131G25ikk	NL	LU.NE50D.046	N	NM10	3CELL2.2	40W
eM355-131G25ikk	NO	LU.NE50D.054	N	NM10	3CELL2.2	40W
eM355-131G25ikk	PL	LU.NE50D.055	N	NM10	3CELL2.2	40W
eM355-131G25ikk	PT	LU.NE50D.056	N	NM10	3CELL2.2	40W
eM355-131G25ikk	RO	LU.NE50D.057	N	NM10	3CELL2.2	40W
eM355-131G25ikk	RS/MK	LU.NE50D.019	N	NM10	3CELL2.2	40W
eM355-131G25ikk	RU	LU.NE50D.015	N	NM10	3CELL2.2	40W
eM355-131G25ikk	RU	LU.NE50D.016	N	NM10	3CELL2.2	40W
eM355-131G25ikk	SE	LU.NE50D.047	N	NM10	3CELL2.2	40W
eM355-131G25ikk	SI/HR	LU.NE50D.058	N	NM10	3CELL2.2	40W
eM355-131G25ikk	TR	LU.NE50D.034	N	NM10	3CELL2.2	40W
eM355-131G25ikk	UA	LU.NE50D.017	N	NM10	3CELL2.2	40W

Model	Country	P/N	Bluetooth	NB Chipset	Battery	Adapter
eM355-131G25ikk	UK	LU.NE50D.004	N	NM10	3CELL2.2	40W
eM355-131G25ikk	UK	LU.NE50D.005	N	NM10	6CELL2.2	40W
eM355-131G25ikk	UK	LU.NE50D.049	N	NM10	3CELL2.2	40W
eM355-131G25ikk	US	LU.NE50D.002	N	NM10	3CELL2.2	40W
eM355-131G25ikk	US	LU.NE50D.003	N	NM10	3CELL2.2	40W
eM355-131G25ikk	ZA	LU.NE50D.031	N	NM10	3CELL2.2	40W
eM355-131G25ikk	ZA	LU.NE50D.032	N	NM10	3CELL2.2	40W
eM355-131G25ikk	ZA	LU.NE50D.033	N	NM10	3CELL2.2	40W
eM355-231G25ikk	MX	LU.NE50D.035	N	NM10	3CELL2.2	40W

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 with backwards compatibility to Windows® XP.

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 eMachines 355 Compatibility Test Report released by the Acer Mobile System Testing Department.

Vendor	Type	Description	P/N
3G			
60027216 ERICSSON	F3307-900MHz	Ericsson F3307-900MHz	LC.21300.039
60027216 ERICSSON	F3307-Moldavia	Ericsson F3307-Moldavia	LC.21300.058
PLM00023 Huawei	EM770-Unicom	Huawei EM770-Unicom	LC.21300.064
PLM00023 Huawei	EM770W-Megafon	Huawei EM770W-Megafon	LC.21300.067
PLM00023 Huawei	EM770W-Rev2	Huawei EM770W-Rev2	LC.21300.066
Adapter			
10001081 DELTA	40W	Adapter DELTA 40W 19V 1.7x5.5x11 Black ADP-40 TH AA, LV5 wall-mounted, OBL LF	AP.04001.002
60026861 LEADER	40W	Adapter LEADER 40W 19V 1.7x5.5x11 Black IU40-11190-011S, wall-mounted, LV5+OBL LF	AP.04007.002
Audio Codec			
10004786 REALTEK	ALC272X	Realtek Audio Codec ALC272X	LZ.21000.045
Battery			
60001921 SANYO	3CELL2.2	Battery SANYO AL10A Li-Ion 3S1P SANYO 3 cell 2200mAh Main COMMON ID:AL10A31	BT.00303.022
60001921 SANYO	3CELL2.2_w	Battery SANYO AL10AW Li-Ion 3S1P SANYO 3 cell 2200mAh Main COMMON ID:AL10A31 for white	BT.00303.023
60001921 SANYO	6CELL2.2	Battery SANYO AL10B Li-Ion 3S2P SANYO 6 cell 4400mAh Main COMMON ID:AL10B31	BT.00603.114
60001921 SANYO	6CELL2.2_w	Battery SANYO AL10BW Li-Ion 3S2P SANYO 6 cell 4400mAh Main COMMON ID:AL10B31 for white	BT.00603.121
Bluetooth			
10001018 HON HAI	BT 3.0	Foxconn Bluetooth BRM 2046 BT3.0 (T60H928.33) f/w:861	BH.21100.008
10001018 HON HAI	BT 3.0	Foxconn Bluetooth ATH AR3011 (BT3.0)	BH.21100.009
10001018 HON HAI	BT 3.0	Foxconn Bluetooth BRM 2070 (T77H114.01) BT 3.0	BH.21100.010
10001018 HON HAI	BT 3.0	Foxconn Bluetooth ATH BU12	BH.21100.011

Vendor	Type	Description	P/N
Camera			
10001023 LITE-ON	1.3M	Liteon 1.3M LT9665AL (09P2SF119)	AM.21400.069
10001044 CHICONY	1.3M	Chicony 1.3M CH9665SN (CNF9157)	AM.21400.067
PLM00012 Suyin	1.3M	Suyin 1.3M SY9665SN	AM.21400.068
Card Reader			
10000981 MISC	2-in-1 card reader	2-in-1 card reader	CR.21500.030
CPU			
10001067 INTEL	ATMN450B	CPU Intel Atom N450 BGA 1.66G 512K	KC.ANB01.450
10001067 INTEL	ATMN455B	CPU Intel Atom N455 1.66G 512K DDR2/ DDR3	KC.ANB01.455
10001067 INTEL	ATMN475B	CPU Intel Atom N475 1.83G 512K DDR2/ DDR3	KC.ANB01.475
10001067 INTEL	ATMN550B	CPU Intel Atom N550 BGA 1.5G 1M DDR3, 8.5W	KC.ANB01.550
HDD			
60001922 TOSHIBA DIGI	N160GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 160GB MK1665GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ002J	KH.16004.008
60001922 TOSHIBA DIGI	N250GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 250GB MK2565GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ002J	KH.25004.005
60001994 WD	N160GB5.4KS	HDD WD 2.5" 5400rpm 160GB WD1600BEVT-22A23T0 , WD, ML320S SATA 8MB LF F/W:01.01A01	KH.16008.027
60001994 WD	N250GB5.4KS	HDD WD 2.5" 5400rpm 250GB WD2500BEVT-22A23T0, WD, ML320S SATA 8MB LF F/W:01.01A01.	KH.25008.025
60001994 WD	N320GB5.4KS	HDD WD 2.5" 5400rpm 320GB WD3200BEVT-22A23T0,ML320S,WD SATA 8MB LF F/W:01.01A01	KH.32008.019
60002005 HGST SG	N160GB5.4KS	HDD HGST 2.5" 5400rpm 160GB HTS545016B9A300 Panther B SATA LF F/ W:C60F Disk imbalance criteria = 0.014g-cm	KH.16007.026
60002005 HGST SG	N250GB5.4KS	HDD HGST 2.5" 5400rpm 250GB HTS545025B9A300 Panther B SATA LF F/ W:C60F Disk imbalance criteria = 0.014g-cm	KH.25007.016
60002005 HGST SG	N320GB5.4KS	HDD HGST 2.5" 5400rpm 320GB HTS545032B9A300 Panther B SATA LF F/ W:C60F Disk imbalance criteria = 0.014g-cm	KH.32007.008
60002036 SEAGATE	N160GB5.4KS	HDD SEAGATE 2.5" 5400rpm 160GB ST9160314AS,9HH13C-189, Seagate(new pcb) SATA 8MB LF F/W:0001SDM1	KH.16001.045
60002036 SEAGATE	N250GB5.4KS	HDD SEAGATE 2.5" 5400rpm 250GB ST9250315AS Wyatt SATA LF F/ W:0001SDM1	KH.25001.016
60002036 SEAGATE	N250GB5.4KS	HDD SEAGATE 2.5" 5400rpm 250GB ST9250315AS, 9HH132-189, Wyatt with new pcb SATA 8MB LF F/W:0001SDM1	KH.25001.019

Vendor	Type	Description	P/N
Keyboard			
60004864 DARFON	NT0T_A10B	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard Black Y2010 Acer Legend Texture	KB.I100A.059
LAN			
10017383 Atheros	AR8152L	Atheros AR8152L	NI.22400.050
LCD			
10001038 CMO	NLED10.1WSV GAGS	LED LCD CMO 10.1" WSVGA Glare N101L6-L0D LF 200nit 10ms 500:1	LK.1010D.004
60002215 SAMSUNG	NLED10.1WSV GAGS	LED LCD SAMSUNG 10.1" WSVGA Glare LTN101NT05-A01 LF 200nit 16ms 300:1	LK.10106.007
60003316 AUO	NLED10.1WSV GAGS	LED LCD AUO 10.1" WSVGA Glare B101AW06 V1 LF 200nit 8ms 500:1	LK.10105.002
60003316 AUO	NLED10.1WSV GAS	LED LCD AUO 10.1" WSVGA None Glare B101AW06 V0 LF 200nit 16ms 400:1	LK.10105.006
Media Processor			
10001018 HON HAI	Media Processor_broadcom	Foxconn Broadcom BCM970015 Media Processor half Mini-card Flea w/ H.264/VC1/ MPEG2 decode Rev 1.0	LA.23700.002
10001018 HON HAI	Media Processor_Quartics	Foxconn Quartics QV1721 Media Co-Processor Mini-card TTH130.00 W. H264 decode. Video post processing for internet video streaming. Rev 1.0	LA.23700.001
MEM			
60002041 QIMONDA	SO1GBIII10	Memory NONE REG-ECC DDRIII 1066 1GB phantom p/n LF	KN.1GB00.003
60002045 HYNIX	SO1GBIII13	Memory HYNIX SO-DIMM DDRIII 1333 1GB HMT112S6TFR8C-H9 LF 128*8 0.055um	KN.1GB0G.026
60002045 HYNIX	SO2GBIII13	Memory HYNIX SO-DIMM DDRIII 1333 2GB HMT325S6BFR8C-H9 LF 256*8 46nm	KN.2GB0G.018
60002215 SAMSUNG	SO1GBIII13	Memory SAMSUNG SO-DIMM DDRIII 1333 1GB M471B2873FHS-CH9 LF 128*8 46nm	KN.1GB0B.035
60002215 SAMSUNG	SO2GBIII10	Memory NONE SO-DIMM DDRIII 1066 2GB dummy 1066 LF	KN.2GB00.001
60024207 KINGSTON-FAR EAST	SO1GBIII13	Memory KINGSTON SO-DIMM DDRIII 1333 1GB ACR128X64D3S1333C9 LF 128*8 0.065um	KN.1GB07.004
NB Chipset			
10001067 INTEL	NM10	NB Chipset Intel CS CG82NM10	KI.NM101.001
Wireless LAN			
10001023 LITE-ON	3rd WiFi 1x1 BGN	Liteon Wireless LAN Atheros HB95 1x1 BGN (HM) WN6601AH	NI.23600.070
10001023 LITE-ON	3rd WiFi 1x1 BGN	Liteon Wireless LAN Reltek RTL8191SE 1x1 BGN (WN6605LH)	NI.23600.071
10001067 INTEL	INT1000H	Lan Intel WLAN 112BN.HMWG MM#903341	KI.CPH01.001
10001067 INTEL	INT6250H	WiMax Intel WLAN 622ANXHMWG Kilmer Peak 2x2 AGN	KI.KPH01.001
10001067 INTEL	INT6250HABG	WiMax Intel WLAN 622AGXHRUG Kilmer Peak 2x2 ABG	KI.KPH01.002

Vendor	Type	Description	P/N
23707801 FOXCONN TW	3rd WiFi 1x1 BGN	Foxconn Wirelss LAN Atheros HB95 1x1 BGN (HM) T77H121.01	NI.23600.068
23707801 FOXCONN TW	3rd WiFi 1x1 BGN	Foxconn Wirelss LAN Broadcom 4313 1x1 BGN (HM) T77H194.00	NI.23600.076
23707801 FOXCONN TW	3rd WiFi BG	Foxconn Wirelss LAN Atheros HB95BG (HM) T77H121.10	NI.23600.077
PLM00010 QMI	3rd WiFi 1x1 BGN	QMI Wireless LAN Atheros HB95 1x1 BGN(HM) EM305	NI.23600.069

Appendix C

Online Support Information

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

If you are a distributor, dealer, ASP or TPM, please refer your technical queries to your local eMachines branch office. eMachines 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
- 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 eMachine'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.