Acer Aspire 1710 Series

Service Guide

Project Code: A15

Please note that Aspire 1710 has the same housing with Aspire 1700. And this model will not have service CD. Please refer to Aspire 1700 service CD (Part No.: VD.A08V7.001) for disassembling mpeg files.

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Revision History

Please refer to the table below for the updates made on Aspire 1710 service guide.

Date	Chapter	Updates

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Conventions

The following conventions are used in this manual:

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

Preface

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

1. This Service Guide provides you with all technical information relating to the BASIC CONFIGURATION decided for Acer "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.

Table of Contents

System Introduction

Features

This computer was designed with the user in mind. Here are just a few of its many features:

Performance

- Intel® Pentium® 4 FSB 800 processors
- L2 cache 1MB
- Intel 865G with ICH-5, support 800MHz Front Side Bus, dual channel and HTT support
- 80 GB or higher-capacity Desktop 5400rpm, 7200rpm HDD
- Microsoft® Windows® XP Home/Pro operating system
- Optional 6-in-1 Multimedia memory card reader module

Multimedia

- DVD/CD-RW combo
- DVD Dual drive
- Audio input and output jacks
- Hardware 3D graphic engine
- Two stereo speakers+one sub-woofer
- 17” Desktop SXGA LCD, 1280x1024, 16M colors

Connectivity

- Modem: Software Modem V.92 56Kbps (MDC)
- 10/100/1000 Mbps Gigabit Ethernet LAN
- Optional Mini-PCI 802.11g or 802.11 a/g
- One switch to enable or disable wireless function
- Keyboard and pointing device
- Four universal serial but (UBS) ports 2.0
- Two IEEE 1394 ports
- Bluetooth ready (manufacturing option)

Expansion

- PC card slot enableing a range of add-on options
- Upgrageable CPU, hard disk and memory modules

I/O Ports

- One type II PC Card slot (PCMCIA and CardBus)
- One RJ-11 modem jack (V.92, 56K)
- One RJ-45 network jack (Gigabit Ethernet)
- One DC-in port (AC adapter)
- One parallel port (ECP/EPP)

- One external monitor port
- Two IEEE 1394 ports
- One PS/2 port
- One microphone-in jack (3.5mm mini jack)
- One headphone jack (3.5mm mini jack)
- Four Universal Serial Bus (USB) ports

Display and video

- 17” Desktop liquid-crystal display (LCD) at 1280 x 1024 Super Graphics Array (SXGA) resolution
- Simultaneous LCD and CRT display
- Dual independent display support
- Hardware 3D graphic engine

Audio

- 16-bit stereo audio (AC’97)
- Two built-in stereo speakers
- Audio ports for microphone-in and headphones

Human-centric design and ergonomics

- All-in-one design (incorporating hard drive, optical drive and floppy disk drive)
- Rugged and space saving
- Full-size desktop keyboard
- No need to turn on the system for playing CD or MP3
- Large & comfortable palm rest area with well-positioned touchpad

Display

The 17” display panel provides a large viewing area for maximum efficiency and ease-of-use. The liquid crystal display (LCD) supports SXGA resolution with 16 million colors at 1280 x 1024.

Video Performance

Your Aspire 1710 series computer features an accelerated graphics port (AGP) video system with Intel 865G embedded VGA engine and 64MB UMA RAM, and nVIDIA NV-34M/NV-36M series (64M/128M AGP card) as an option. This provides a robust solution, while enabling high quality video output.

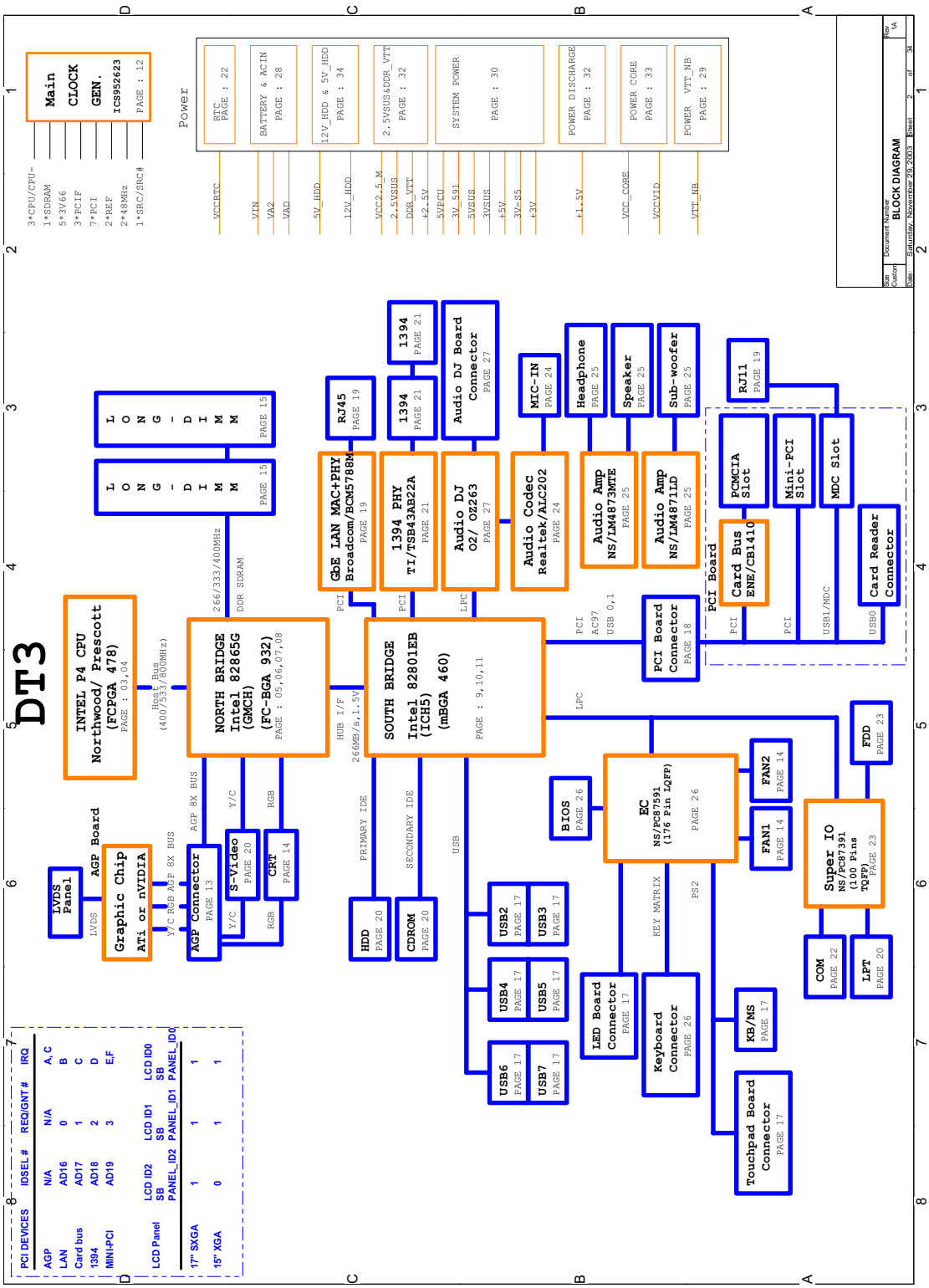
Simultaneous display

Your computer’s large display, combined with its multimedia capabilities, makes it ideally suited to delivering presentations.

You can also connect an external monitor or projector, and then choose to use the computer’s LCD panel only, the external device only, or the LCD panel and external device simultaneously.

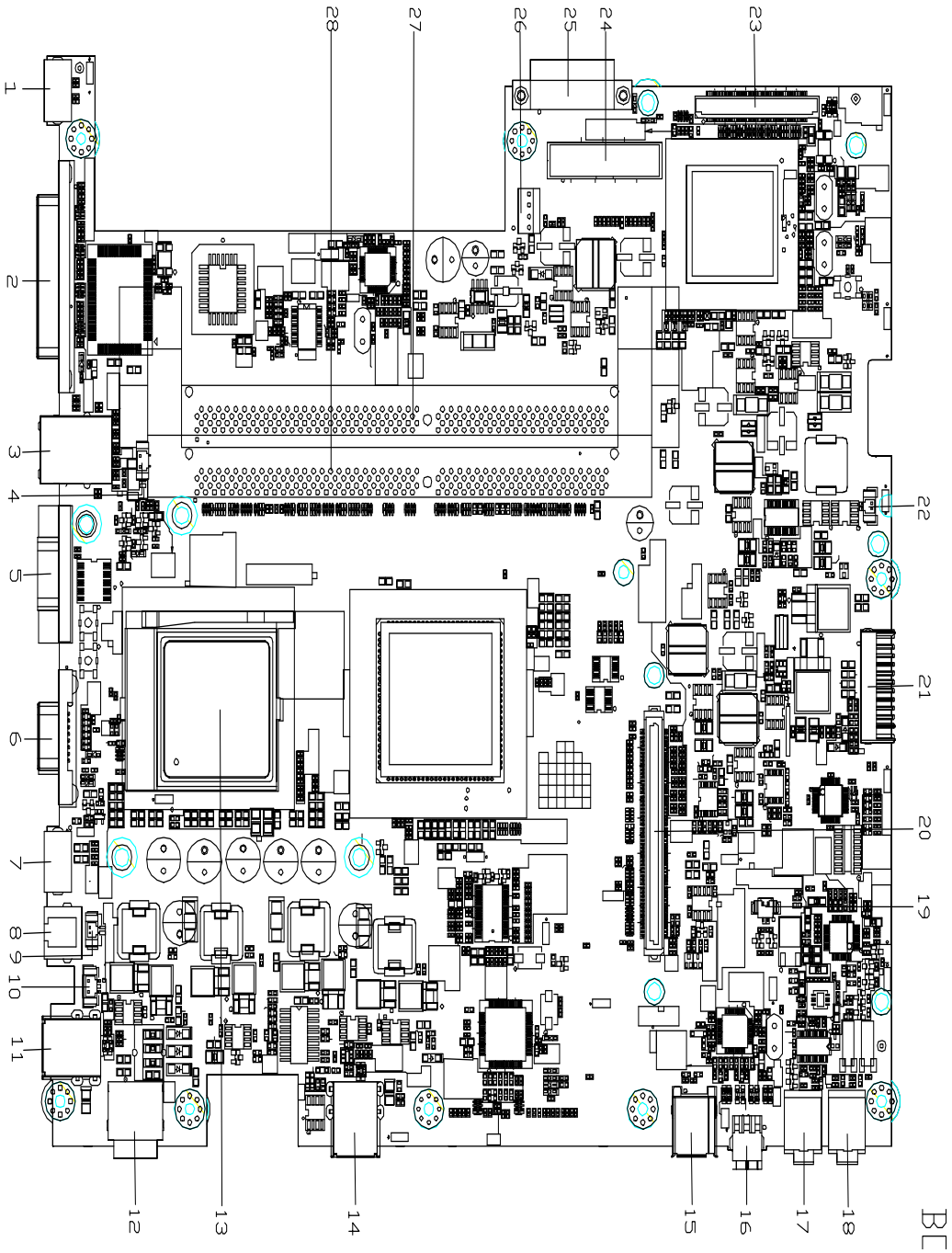
Simultaneous display allows you to manage a presentation on your computer, while your audience watches the monitor or projector screen.

System Block Diagram



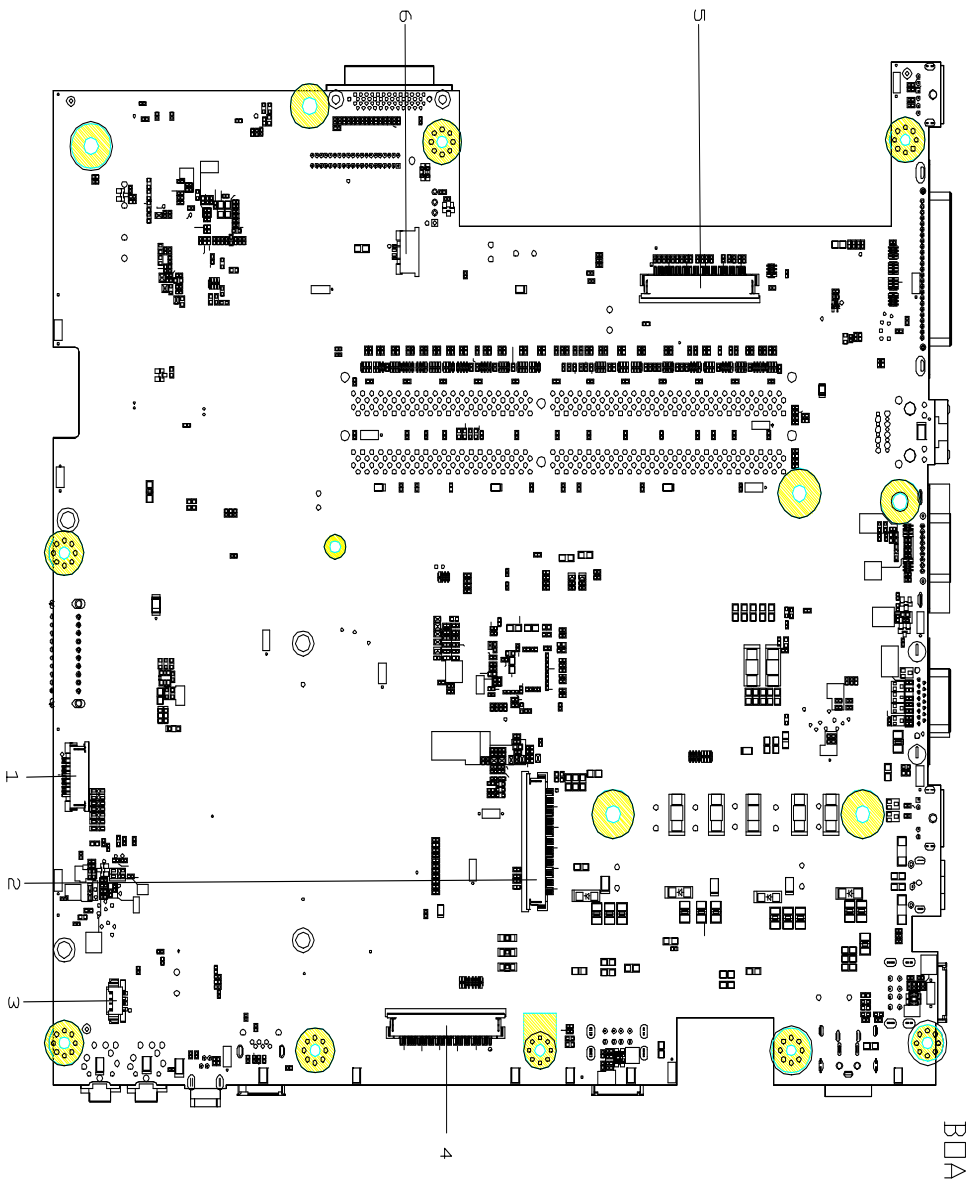
Board Layout

Top View



1	PS2 Port	16	Mini 1394 Connector
2	Parallel Port	17	MIC Connector
3	LAN Connector	18	Line Out Connector
4	CPU Fan Connector	19	Woofer Connector
5	COM1 Port	20	VGA Board Connector
6	VGA Port	21	Battery Connector
7	S-Video Port	22	RTC Battery Connector
8	Modem Connector	23	PCI Board Connector
9	MDC Connector	24	HDD Connector
11	USB Port	25	CD/DVD-ROM Module Connector
12	DC-In Connector	26	HDD Power Connector
13	CPU Socket	27	DDR RAM Socket-1
14	USB Port	28	DDR RAM Socket-2
15	1394 Connector		

Bottom View



1	Audio DJ FFC Connector
2	Keyboard Connector
3	Speaker Connector
4	LED Board FFC Connector
5	FDD FFC Connector
6	Touchpad FFC Connector

Panel

Ports allow you to connect peripheral devices to your computer as you would with a desktop PC.

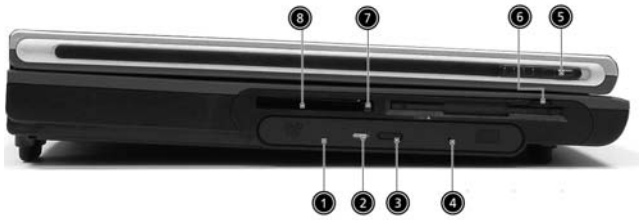
Front Panel

#	Item	Description
1	Display	Large liquid crystal display (LCD) provides visual output.
2	Power button	Turns the computer on and off.
3	Keyboard	Full-size keyboard for inputing typed data.
4	Touchpad	Touch sensitive pad that functions like a computer mouse.
5	Click buttons & scroll key	Right and left buttons that provide the same functions as buttons on a computer mouse. The scroll key scrolls the contents of a window up and down.
6	Audio DJ controls and indicator	Buttons and indicators for the Audio DJ function.
7	Palm rest	Provides a comfortable platform for your hands when typing on the keyboard.
8	Launch keys	1 switch button for wired/wireless LAN, or Bluetooth (optional) 1 e-mail launch button 1 launch button for Internet browser 2 programmable buttons
9	Status indicators	Light emitting diodes (LEDs) that show the status of the computer and its components.

Closed front view

#	Item	Description
1	Speakers	Left and right speakers deliver stereo audio output.
2	Wireless communication indicator	Lights when the Wireless LAN, or Bluetooth, capability is enabled.
3	Power indicator	Lights when the computer is on.

Left view

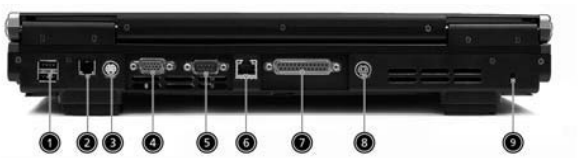


#	Item/ Port	Description
1	Optical drive	Depending on your model, the optical drive is one of the followin: ❑ DVD/CD-RW combo drive for reading CDs and DVDs, and writing to CD-Rs and CD-RWs. ❑ DVD Dual
2	Optical disc read indicator	Light emitting diode (LED) that indicates when an optical disc is being read.
3	Optical drive eject button	Press the eject button to remove a disc from the optical drive.
4	Optical drive emergency eject hole	Used to eject an optical disc when the computer is turned off.
5	Left latch	Locks and release the lid (one on the right and one on the left).
6	Floppy drive/Card reader	Accepts a 3.5 inch floppy disk, or a 6-in-1 card reader (optional).
7	PC card eject button	Press the eject button to remove a PC card from the PC card slot.
8	PC card slot	The slot supports a standard Type II PC card (PCMCIA).

Right view

#	Icon	Item/ Port	Description
1		Right latch	Locks and releases the lid (one on the right and one on the left.)
2		Speaker/Headphone-out jack	Connects to audio line-out devices (e.g. speakers, headphones).
3		Line-in/Mic-in jack	Accepts audio line-in devices (e.g. audio CD player, stereo walkman). Selection is through the OS Windows mixer.
4	1394	IEEE 1394 port	Connects to an IEEE 1394 device.
5	1394	IEEE 1394 port	Connects to an IEEE 1394 device.
6		Two USB ports	Connects USB 2.0 devices.
7		DC-in jack	Connects the AC adapter.

Rear Panel



#	Icon	Port	Description
1		Two USB ports	Connects USB 2.0 devices.
2		Modem jack	Connects the built-in fax/data modem to a phone line.
3		S-video	Connects to a television or display device with S-video input.
4		External display port	Connects an external (VGA) display devices monitor.
5		COM port	Connects to other serial interface devices.
6		Network jack	Connects to an Ethernet 10/100/1000-based network.
7		Parallel port	Connects a parallel device, such as a printer.
8		PS2 port	Connects to a PS2 mouse.
9		Kensington lock slot	Attaches a security connector.

Bottom Panel

#	Item	Description
1	Battery cover	Protects the battery bay.
2	Sub-woofer	Enhances the audio quality
3	Ventilation slots	Enable the computer to stay cool, even after prolonged use.

Indicators

The computer provides an array of five indicators located above the keyboard, in addition to two indicators positioned at the top right hand corner of the LCD panel. These indicators show the status of the computer and its components.

The five indicators located above the keyboard provide the following status information:

#	Icon	Function	Description
1		Hard Disk Drive Activity	Lights when the hard disk drive is active.
2		Battery Charge	Green--the AC adapter is connected and the battery is fully charged. Amber--the AC adapter is connected and the battery is charging. Off--the AC adapter is not connected, or the battery is not installed.
3		Caps Lock Activity	Lights when Caps Lock is activated.
4		Num Lock Activity	Lights when Numeric Lock is activated.
5		Scroll Lock Activity	Lights when Numeric Lock key is activated.

The two indicators located at the front of the unit provide the following status information:

#	Icon	Function	Description
1		Power Mode	Steady green--the computer is on (even if the display is turned off). Steady orange--the computer is in standby mode. Off--the computer is turned off, or in the hibernation mode.
2		InviLink Indicator	Indicates status of wireless or Bluetooth (optional) communications. Orange--WLAN Blue--Bluetooth

Keyboard

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

Special keys

Lock keys

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

Lock key	Description
Caps Lock 	When  is on, all alphabetic characters typed are in uppercase. Toggle on and off by pressing the Caps Lock key on the left side of the keyboard.
Num Lock (Fn-F11) 	When  is on, the embedded numeric keypad can be used. Toggle on and off by pressing the Num Lock Key.
Scroll Lock (Fn-F12) 	When  is on, the screen toggles up or down one line at a time when the up and down cursor control keys are pressed. Note: Scroll Lock doesn't work in all applications. Toggle on and off by pressing the Scroll Lock Key.

NOTE: If an external keyboard or keypad is connected to the computer, the Num Lock feature automatically shifts from the internal keyboard to the external keyboard or keypad.

Windows keys

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

Keys	Description
Windows logo key	Start button. Combinations with this key perform shortcut functions. Below are a few examples: + Tab (Activates next taskbar button) + E (Explores My Computer) + F (Finds Document) + M (Minimizes All) SHIFT + + M (Undoes Minimize All) + R (Displays the Run... dialog box)
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 hot keys or key combinations to access most of the computer's controls like screen contrast and brightness, volume output and the BIOS Utility.

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

Hot Key	Function	Description
Fn+F1	Hotkey help	Displays a list of the hotkeys and their functions.
Fn+F2	Device Manager	Accesses Windows Device Manager.
Fn-F3	Power Scheme Toggle	Select suitable power scheme to the system.
Fn-F4	Sleep	Puts the computer in Sleep Mode, which can be defined via the advanced section of the Power Management Properties in the Windows Control Panel.
Fn-F5	Display toggle	Switches display output between the system LCD, an external monitor and both the sytem LCD and external monitor. Note: UMA sku should use Ctrl+Alt+F1 Intel international hot key, when LCD monitor is hot plugged.
Fn-F6	Screen blank	Turns the LCD backlight off to save power; press any key to resume.
Fn-F7	Touchpad on/off	Turns the internal touchpad on and off.
Fn-F8	Speaker on/off	Turns the speakers on and off; mutes the sound.
Fn-→	Brightness up	Increases the screen brightness.
Fn-¨←	Brightness down	Decreases the screen brightness.
Fn-↑	Volume up	Increases the sound volume.
Fn-↓	Volume down	Decreases the sound volume.
Fn-PG UP	Home	Functions as the HOME key.
Fn-PG DN	End	Functions as the END key.

Euro key

Your computer supports the new Euro currency character. First, hold down the Alt Gr key, and then press the Euro key.

Keyboard ergonomics

The wide palm rest area provides a comfortable platform for your hands when typing on the keyboard. The ergonomic design enables you to adopt a relaxed, yet very efficienct, typing style.

Touchpad

The built-in touchpad is a PS/2 - compatible pointing device that senses movement on its surface. The cursor responds to your finger movements on the touchpad. In addition, the two click buttons provide the same functionality as a computer mouse, while the scroll key enables easy up and down scrolling in documents and web pages.

The touchpad is located in the middle of the palm rest area, providing maximum comfort and effiency.

Touchpad basics

Use the touchpad as follows:

- Slide your finger over the surface of the touchpad to control the movement of the cursor. Tap the touchpad to perform selection and execution functions.
- Press the left (1) and right (3) click buttons to perform selection and execution functions, just as you would use the buttons on a computer mouse.
- Use the scroll key (2) to scroll through long documents and web pages. Press the top of the key to scroll up, and the bottom to scroll down.

Function	Left Button	Right Button	Tap
Execute	Click twice quickly.		Tap twice quickly.
Select	Click one.		Tap once.
Drag	Click and hold. Then, slide your finger across the touchpad to drag the cursor over the selection.		Tap twice quickly. On the second tap, slide your finger across the touchpad to drag the cursor over the selection.
Access content menu		Click once.	

Launch Keys

Located at the top of the keyboard are five buttons. These buttons are called launch keys. These buttons are called launch keys. They are designated as key 1, key 2, key 3, key 4, key 5. By default, key 1 is used to launch wireless LAN/Bluetooth, key 2 is to launch the E-mail application, and key 3 is used to launch the internet browser. Keys 4 and 5 start the Launch Manager application. All five launch keys can be set by the user. To set the launch keys, run the Acer Manager.

Launch key	Icon	Description
InviLink		Enable or disables wireless or Bluetooth (optional) connectivity.
E-mail		Launch your E-mail application
Web browser		Launches your Internet browser.
P1	P1	User-programmable
P2	P2	User-programmable

System Board MajorChips

Item	Controller
System core logic	Intel Desktop Pentium 4 Northwood/Prescott processor at 2.6GHz to 3.4GHz or higher; FSB 533/800MHz 865G+ICH5, support 533/800MHz FSB, dual channel and HTT support
Super I/O controller	NS PC87391
Audio controller	Realtek ALC202
Video controller	Internal: 865G + Chrontel CH7017 External: Nvidia GF-FX-GO5200 or FG-FX-GO5700
Hard disk drive controller	Embedded in Intel ICH5
Keyboard controller	NS LPC keyboard controller PC87591
CardBus Controller	ENE CB1410
RTC	Intel ICH5

Processor

Item	Specification
CPU type	Intel Desktop Pentium 4 Northwood/Prescott Processor at 2.6GHz to 3.4GHz or higher
CPU package	To 3.40GHz mPGA-478
CPU core voltage	Base on processor speed/FSB/VCCID value
CPU I/O voltage	Base on processor speed/FSB/VCCID value

BIOS

Item	Specification
BIOS vendor	Phoenix BIOS
BIOS Version	3A02
BIOS ROM type	Flash ROM
BIOS ROM size	1024KB
BIOS package	32 Pin PLCC
Supported protocols	ACPI 2.0 (if available, at least 1.0b), SMBIOS 2.3, PCI 2.3 Boot Block, PXE 2.0, Mobile PC2001, Hard Disk Password, INT 13h Extensions, PCI Bus Power Management interface Specification, EI Torito-Bootable CD-ROM Format Specification V1.0, Simple Boot Flag 1.0
BIOS password control	Set by switch, see SW1 settings

Second Level Cache

Item	Specification
Cache controller	Built-in CPU
Cache size	1024KB
1st level cache control	Always Enabled
2nd level cache control	Always Enabled
Cache scheme control	Fixed-in write back

System Memory

Item	Specification
Memory controller	Intel 865G
Onboard memory size	0MB
DIMM socket number	2 Sockets
Supports maximum memory size per socket	1024MB
Supports maximum memory size	2048MB
Supports DIMM type	DDR-DRAM
Supports DIMM Speed	266 MHz/333 MHz/400 MHz
Supports DIMM voltage	2.5 V
Supports DIMM package	184-pin Long-DIMM
Memory module combinations	You can install memory modules in any combinations as long as they match the above specifications .

Memory Combinations

Slot 1	Slot 2	Total Memory
256MB	0MB	256MB
0MB	256MB	256MB
256MB	256MB	512MB
0MB	512MB	512MB
512MB	128MB	640MB
256MB	512MB	768MB
512MB	256MB	768MB
512MB	512MB	1024MB
0MB	512MB	512MB
1024MB	0MB	1024MB
1024MB	256MB	1280MB
1024MB	512MB	1536MB
0MB	1024MB	1024MB
256MB	1024MB	1280MB
512MB	1024MB	1536MB

Above table lists some system memory configurations. You may combine DIMMs with various capacities to form other combinations.

LAN Interface

Item	Specification
Chipset	Broadcom BCM5788M
Supports LAN protocol	10/100/1000Mbps
LAN connector type	RJ45
LAN connector location	Rear side

Modem Interface

Item	Specification
Chipset	Internal Agere Scorpio chipset (Scorpio+CSP1037B)

Modem Interface

Item	Specification
Fax modem data baud rate (bps)	14.4K
Data modem data baud rate (bps)	56K
Supports modem protocol	V.90/V.92MDC
Modem connector type	RJ11
Modem connector location	Rear side

Card Reader Interface

Item	Specification		
Vendor & model name	Mitsumi D353G 4515 MCI JU-226A033FC		
Floppy Disk Specifications			
Media recognition	2DD (720KB)	2HD (1.2 MB, 3 mode)	2HD (1.44MB)
Sectors/track	9	15	18
Tracks	80	80	80
Data transfer rate (Kbit/s)	1 MB	1.6 MB	2 MB
Rotational speed (RPM)	300	360	300
Read/write heads	2		
Encoding method	MFM		
Power Requirement			
Input Voltage (V)	+5V		

Hard Disk Drive Interface

Item	Specification
Vendor & Model Name	SEAGATE U9 ST380012A
Capacity (MB)	80000
Bytes per sector	512
Logical heads	16
Logical sectors	63
Drive Format	
Logical cylinders	16383
Physical read/write heads	2
Disks	1
Spindle speed (RPM)	5400RPM
Performance Specifications	
Buffer size	1MB
Interface	ATA-5
Data transfer, rate (host~buffer, Mbytes/s)	100 MB/Sec
DC Power Requirements	
Voltage tolerance (including noise)	5 +/- 5% 12V +/-10% Note: The drive receives DC power (5V or 12V) through a four-pin standard drive power connector

DVD-ROM Interface

Item	Specification	
Vendor & model name	Pioneer DVR-K12RA	
Performance Specification	With CD Diskette	With DVD Diskette
Transfer rate (KB/sec)	Average Sustained: CAV mode 775~1800 blocks/sec (10.3X to 24X) 1550~3600kBytes/sec (Mode 1) 1768~4106 kBytes/sec (Mode 2)	DVD-5: Normal Speed (1X) 11.08 Mbits/sec CAV mode 36.67~88.64 Mbits/sec DVD-9/DVD-R: Normal Speed (1X) 11.08 Mbits/sec CAV mode 36.67~88.64 Mbits/sec
Average Full Access time (typ.)	Random (*1) CAV mode 110 msec typical 150 msec average max Full Stroke (*2) CAV mode 200 msec typical 260 msec average max	DVD-5: Random (*4) 120 msec typical 160 msec average max Full Stroke (*5) 270 msec typical 350 msec average max DVD-9: Random (*7) 150 msec typical 200 msec average max Full Stroke (*8) 340 msec typical 450 msec average max DVD-RAM (2.6G) Random (*7) 200 msec typical 300 msec average max Full Stroke (*8) 300 msec typical 600 msec average max DVD-RAM (4.7G) Random (*9) 180 msec typical 300 msec average max Full Stroke (*10) 320 msec typical 700 msec average max
Data Buffer Capacity	512 kBytes	
Interface	IDE	
Applicable disc format	DVD: DVD-5, DVD-9, DVD-10, DVD-R (3.95G), DVD-RAM (2.6G), DVD-RAM (4.7G) CD: CD-Audio, CD-ROM (mode 1 and mode 2), CD-ROM XA (mode 2, form 1 and form 2), CD-I (mode 2, form 1 and form 2), CD-I Ready, CD-I Bridge, CD-WO, CD-RW, Photo CD, Video CD, Enhanced Music CD, CD-TEXT	
Loading mechanism	Soft eject (with emergency eject hole)	
Power Requirement		
Input Voltage	+5V[DC]+/-5%	

(*1) Average of Data read over the whole area from 00 min. 02 sec. 00 block to 59 min. 58 sec. 74 block more than 2000 times including latency and layered error correction time.
(*2) From 00 min. 02 sec. 00 block to 59 min. 58 sec. 74 block including latency and layered error correction time.
(*3) Disc: MNSU-005

(*4) Average of Data read over the whole area from starting data recorded area (LBA:0) to maximum data recorded area (LBA:23197F), more than 2000 times including latency and layered error correction time.
(*5) from starting data recorded area (LBA:0) to maximum data recorded area (LBA:23197F) including latency and layered error correction time.
(*6) Disk: MKE-D551.
(*7) Average of Data read over the whole area from starting data recorded area (LBA:0) to maximum data recorded area (LBA:3FA0DF), more than 2000 times including latency and layered error correction time.
(*8) from starting data recorded area (LBA:0) to maximum data recorded area (LBA:3FA0DF) including latency and layered error correction time.
(*9) Disk: ODSC-PARA

Combo Drive Interface

Item	Specification
Vendor & model name	KME UJDA740
Performance Specification	
Transfer rate (KB/sec)	Read Sustained: DVD-ROM MAX 8X CAV (MAX 10800 KB/sec) CD-ROM MAX 24X CAV (MAX 3600 KB/sec) Write: CD-R 4X, 8X (CLV), Max 16X, MAX 24X (ZCLV) CD-RW 4X (CLV) HS-RW 4X,8X, 10X (CLV) ATAPI Interface: PIO mode 16.6 MB/sec :PIO Mode 4 DMA mode 16.6 MB/sec:Multi word mode 2 Ultra DMA mode 33.3MB/sec: Ultra DMA mode 2
Buffer rate	2MB
Access time	DVD-ROM 180 ms typ. (1/3 stroke) CD-ROM 130 ms typ. (1/3 stroke)
Start up time	less than 15s
Stop time	less than 6s
Acoustic noise	less than 50 dBA
Interface	Enhanced IDE (ATAPI) compatible
Master/Slave	Set by Cable Select (By host)
PC compatible	PC2001 compatible
Applicable disc format	CD: CD-DA, CD-ROM, CD-ROM XA, CD-R, CD-RW, PhotoCD (multiSession), Video CD, CD-Extra(CD+), CD-text DVD: DVD-ROM, DVD-R, DVD-RW (Ver.1.1)
Slope	15 degree (Any direction)
Dimensions, Weight	128X129X12.7mm (WXDXH) (except protrusion) 200g+- 10g
Eject	Soft Eject (with emergency eject hole)

Audio Interface

Item	Specification
Audio Controller	Realtek ALC202
Audio onboard or optional	Built-in
Mono or Stereo	Stereo

Audio Interface

Item	Specification
Resolution	20 bit stereo Digital to Analog converter 18 bit stereo Analog to Digital converter
Compatibility	Microsoft PC98/PC99, AC97 2.2
Mixed sound source	Line-in, CD, Video, AUX
Voice channel	8/16 bit, mono/stereo
Sampling rate	44.1 KHz
Internal microphone	Yes
Internal speaker / Quantity	Yes
Supports PnP DMA channel	DMA channel 0 DMA channel 1
Supports PnP IRQ	IRQ10, IRQ11

Video Interface

Item	Specification
Vendor & Model Name	Intel 865G
Chip voltage	Core / 2.5V, 1.5V,
Supports ZV (Zoomed Video) port	NO
Graph interface	8X AGP (Accelerated Graphic Port) Bus
Maximum resolution (LCD)	1024 x768 (32bit colors)
Maximum resolution (CRT)	1024x768 (32 bit colors) 1280x1024 (32 bit colors) 1600x1200 (32 bit colors)

Video Memory

Item	Specification
Fixed or upgradeable	Fixed, share the system memory
Video memory size	32MB

Parallel Port

Item	Specification
Parallel port controller	NS PC87391
Number of parallel port	1
Location	Rear side
Connector type	25-pin D-type
Parallel port function control	Enable/Disable by BIOS Setup
Supports ECP/EPP	Yes (set by BIOS setup)
Optional ECP DMA channel (in BIOS Setup)	DMA channel 1 and 3
Optional parallel port I/O address (in BIOS Setup)	378, 278, 3BC
Optional parallel port IRQ (in BIOS Setup)	IRQ7, IRQ5

USB Port

Item	Specification
USB Compliancy Level	2.0
OHCI	USB 2.0
Number of USB port	4
Location	Rear side
Serial port function control	Enable/Disable by BIOS Setup

PCMCIA Port

Item	Specification
PCMCIA controller	ENE CB1410
Supports card type	Type II, Tpye III
Number of slots	Two type II, one type III
Access location	Left side
Supports ZV (Zoomed Video) port	Yes
Supports 32 bit CardBus	Yes (IRQ17)

Keyboard

Item	Specification
Keyboard controller	NS LPC keyboard controller PC87591
Keyboard vendor & model name	Sunrex
Total number of keypads	103- key
Windows 95 keys	Yes
Internal & external keyboard work simultaneously	Yes

Battery

Item	Specification
Vendor & model name	SIMPLO
Battery Type	Li-ION
Pack capacity	6600mAH
Cell voltage	3.8V
Number of battery cell	12
Package configuration	4S3P
Package voltage	14.4V

DC-AC LCD Inverter

Item	Specification
Vendor & model name	Ambit
Input voltage (V)	10 ~ 20V
Input current (mA)	1A (max.)
Output voltage	725Vrms
Output voltage frequency (kHz)	40 ~ 65Hz
Output Current	1.5 mArms ~ 3.75mArms

.

LCD

Item	Specification
Vendor & model name	QDI (Quanta Display Inc.) QD17EL07
Mechanical Specifications	
LCD display area (diagonal, inch)	17”
Active area	337.9mmX270.3mm
Display technology	TFT
Resolution	SXGA (1280X1024)
Support colors	262K
Optical Specification	
Brightness control	Keyboard hotkey
Contrast ratio	300(min.)/450(typ.)
Response time	16ms
Luminance of white (cd/m^2)	220(typ.)/270(max.)
White Uniformity	1.25(typ.)/1.33(max.)
Contrast control	None
Electrical Specification	
Supply voltage for LCD display (V)	5 (typ.)
Supply voltage for LCD backlight (Vrms)	725 (typ.)

AC Adapter

Item	Specification
Vendor & model name	DELTA ADP-180W PFC
Input Requirements	
Nominal voltage	100-240Vac input AC voltage
Maximum input current	2.5A Max. at 180W load and 100Vac input voltage.
Rated frequency (Hz)	50 or 60
Frequency variation range (Hz)	47-63
Input voltage range	90-264Vac
Inrush current limit (cold start)	100A max. at 115Vac and 200A max. at 240Vac
Efficiency	84% min. at normal (Min) input voltage, maximum load and measured at the end of DC cable.
Output Ratings (CV mode)	
DC output voltage	19V
Noise + Ripple	400mV
Load	0(min) 3.16A(max)
Output Ratings (CC mode)	
DC output voltage range	18.05-19.95V when the load is 0A-9.5A
Dynamic Output Characteristics	
Switch-on delay time	3 sec (at maximum load and nominal voltage input)
Hold up time	6ms within regulation requirement after loss nominal input voltage and maximum load (180W)
Over Voltage Protection (OVP)	25V
Electrostatic discharge (ESD)	15KV (at air discharge) 8KV (at contact discharge)
Dielectric Withstand Voltage	

AC Adapter

Item	Specification
Primary to secondary	3000Vac
Leakage current	0.25 mA max. (@ 254Vac, 60Hz)

Power Management

Power Saving Mode	Phenomenon
Standby Mode Enter Standby Mode when 1.Standby/Hibernation hot-key is pressed and system is not ready to enter Hibernation mode. 2.System standby/ Hibernation timer expires and system is not ready to enter Hibernation mode.	❑ The buzzer beeps ❑ The Sleep indicator lights up
Hibernation Mode **Enter Hibernation Mode (suspend to HDD) when** **1.Hibernation hot-key is pressed and system is ready to enter Hibernation mode** **2.System Hibernation timer expires and system is ready to enter Hibernation mode.**	❑ All power shuts off
Display Standby Mode Keyboard, built-in touchpad, and an external PS/2 pointing device are idle for a specified period.	❑ The display shuts off
Hard Disk Standby Mode Hard disk is idle within a specified period of time.	❑ Hard disk drive is in standby mode. (spindle turned-off)

System Utilities

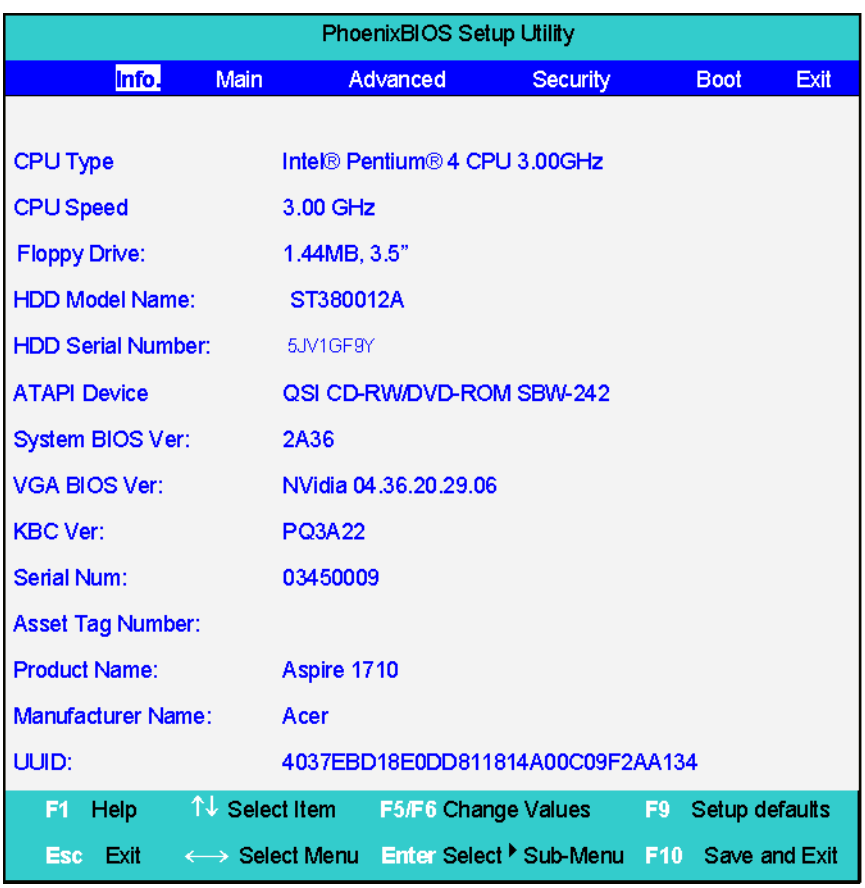
BIOS Setup Utility

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. 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: Info., Main, System Devices, Security, Boot, and Exit.

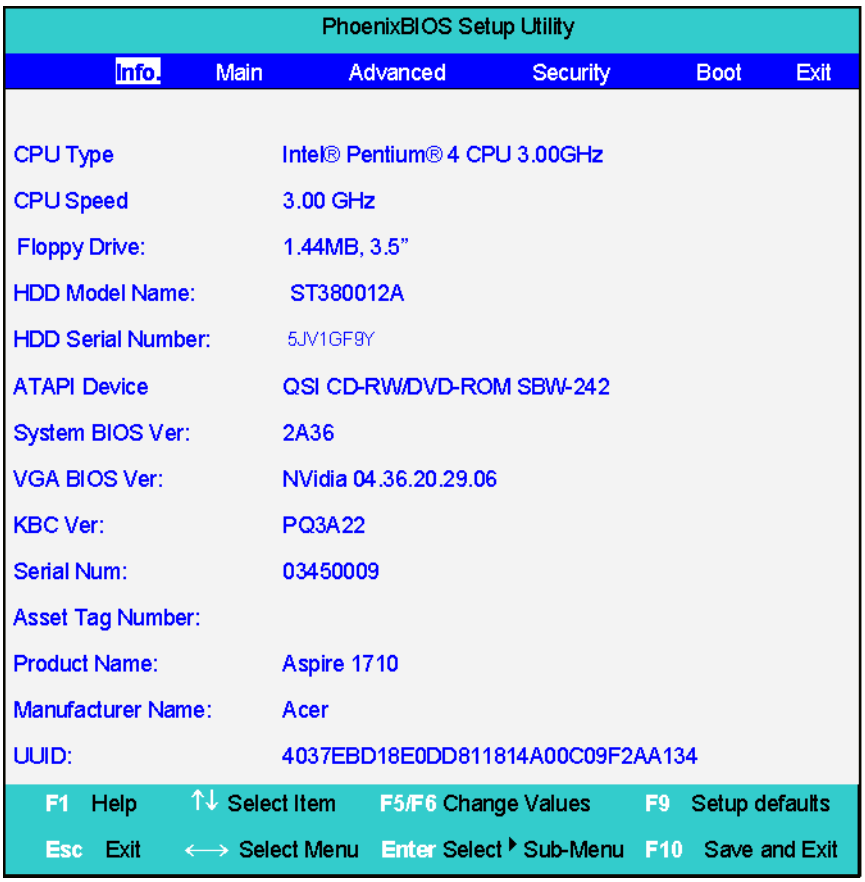
Follow these instructions:

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

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

This menu provides you the information of the system.

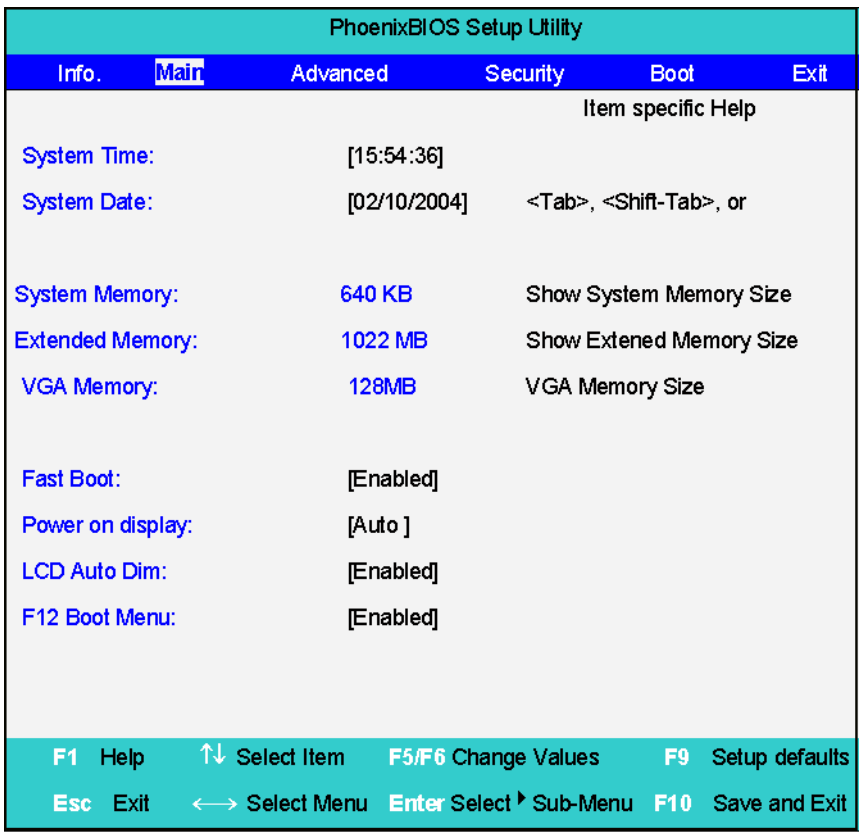
Info.



Parameter	Description
Floppy Disk Drive	Shows floppy drive type informaiton.
Serial Number	This field displays the serial number of this unit.
UUID Number	UUID=32bytes

Main

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



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

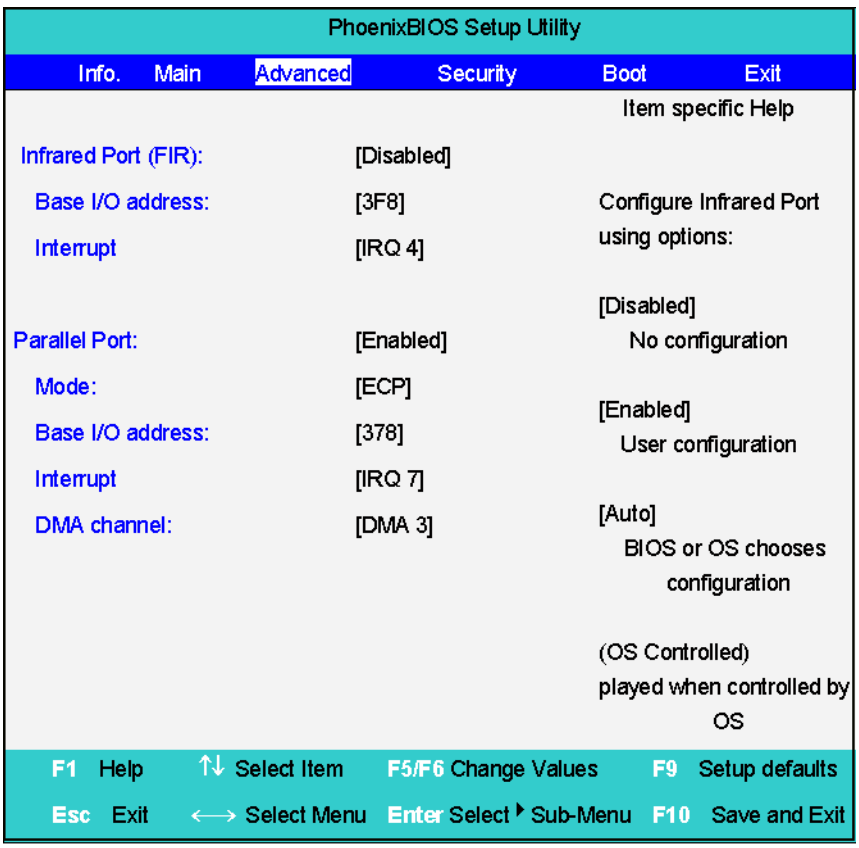
The table below describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

Parameter	Description	Format/Option
System Time	Sets the system time.	Format: HH:MM:SS (hour:minute:second) System Time
System Date	Sets the system date.	Format MM/DD/YYYY (month/day/ year) System Date
System Memory	This field reports the memory size of the system. Memory size is fixed to 640MB	
Extended Memory	This field reports the memory size of the extended memory in the system. Extended Memory size=Total memory size-1MB	
Video Memory	Shows the VGA memory size.	
Fast Boot	Determines if Customer Logo will be displayed or not; shows Summary Screen is disabled or enabled. Enabled: Customer Logo is displayed, and Summary Screen is disabled. Disabled: Customer Logo is not displayed, and Summary Screen is enabled.	Option: **Enabled** or Disabled
Power on display	Auto: During power process, the system will detect if any display device is connected on external video port. If any external display device is connected, the power on display will be in CRT (or projector) only mode. Otherwise it will be in LCD only mode. Both: Simultaneously enable both the integrated LCD screen and the system's external video port (for an external CRT or projector).	Option: **Auto** or Both
LCD Auto Dim	Determines if the system will automatically dim the LCD brightness in order to save power when AC is not present.	Option: **Enabled** or Disabled
F12 Boot Menu	Enables, disables Boot Menu during POST.	Option: **Disabled** or Enabled

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

Advanced

The Advanced menu screen contains parameters involving your hardware devices. It also provides advanced settings of the system.

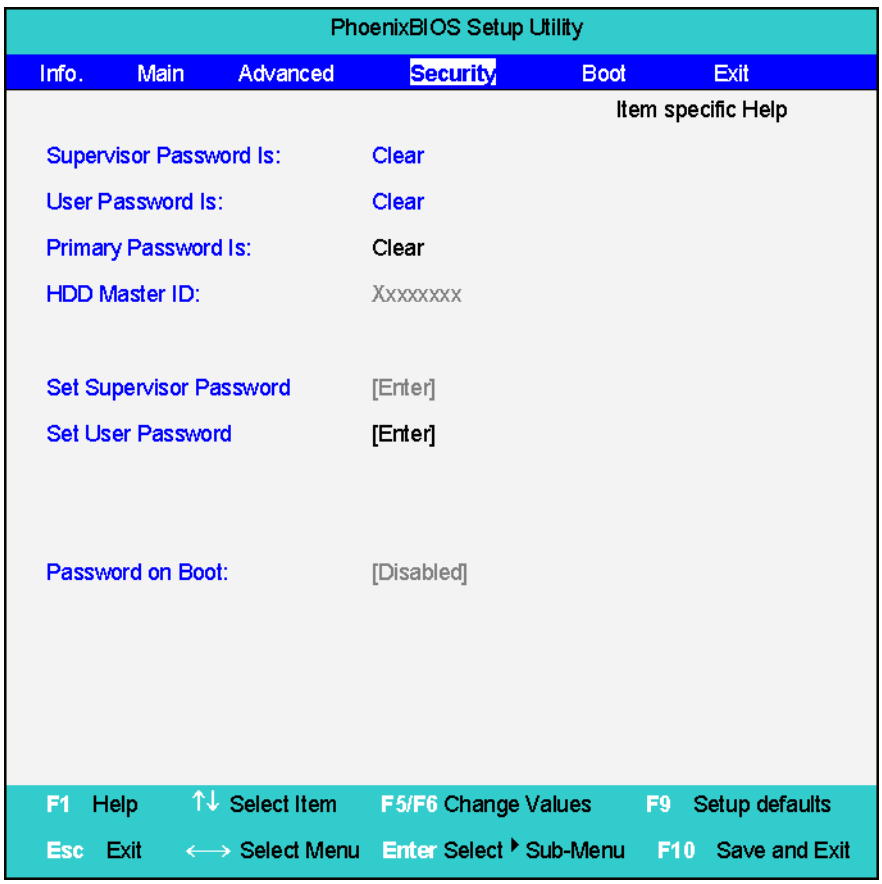


The table below describes the parameters in the screen. Settings in **boldface** are the default and suggested parameter settings.

Parameter	Description	Options
Infrared Port	Enables, disables or auto detects the infrared port.	**Disabled**/Disabled/Auto
Parallel Port	Enables, disables or auto detects the parallel port.	**Enabled**/Disabled/Auto
Mode	Sets the operation mode of the parallel port.	**ECP**, EPP, Normal or Bi-directional
Base I/O address	Sets the I/O address of the parallel port.	**378h**/278h/3BCH
Interrupt	Sets the interrupt request of the parallel port.	**IRQ7**/IRQ5
DMA channel	Sets a DMA channel for the printer to operate in ECP mode. This parameter is enabled only if Mode is set to ECP.	**DMA3**/DMA1
Legacy USB Support	Enables, disables USB interface devices support under DOS mode.	Option: **Disabled** or Enabled

Security

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



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

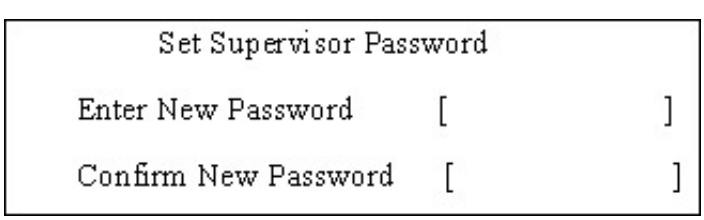
Parameter	Description	Option
User Password is	Shows the setting of the user password.	**Clear** or Set
Supervisor Password is	Shows the setting of the Supervisor password	**Clear** or Set
Set User Password	Press Enter to set the user password. When set, this password protects the BIOS Setup Utility from unauthorized access.	
Set Supervisor Password	Press Enter to set the supervisor password. When set, this password protects the BIOS Setup Utility from unauthorized access.	
Primary Harddisk Security	This feature is available to user when Supervisor password is set. Password can be written on HDD only when Supervisor password or user password is set and password on HDD is set to enabled. Supervisor Password is written to HDD only when Supervisor password is being set. User password is written to HDD when both passwords are set. When both Supervisor and user password are present, both passwords can unlock the HDD.	**Disabled** or Enabled
Password on Boot	Defines whether a password is required or not while the events defined in this group happened. The following sub-options are all requires the Supervisor password for changes and should be grayed out if the user password was used to enter setup.	**Disabled** or Enabled

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

Setting a Password

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

1. Use the ↑ 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.

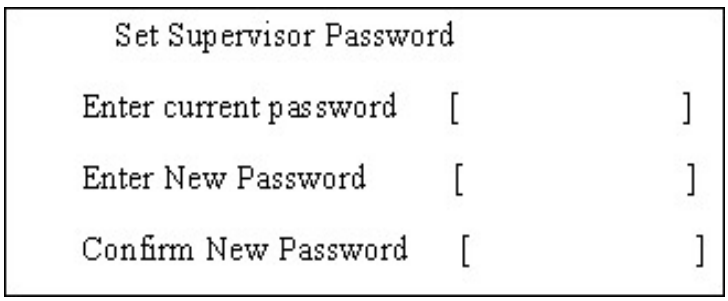
IMPORTANT: Be very careful when typing your password because the characters do not appear on the screen.

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:

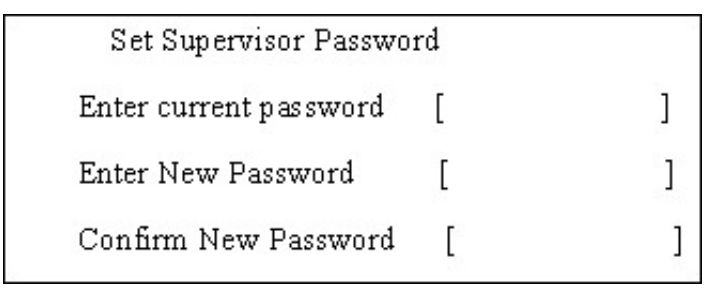
1. Use the ↑ and ↓ keys to highlight the Set Supervisor Password parameter and press the ENTER key. The Set Password box appears:



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. When you have changed the settings, press F10 to save the changes and exit the BIOS Setup Utility.

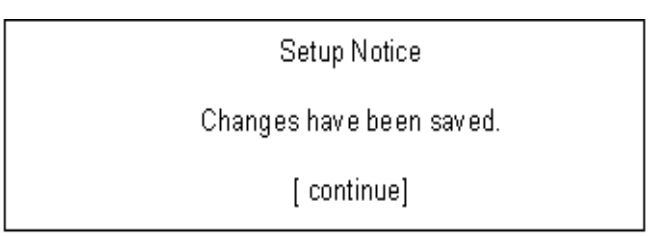
Changing a Password

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



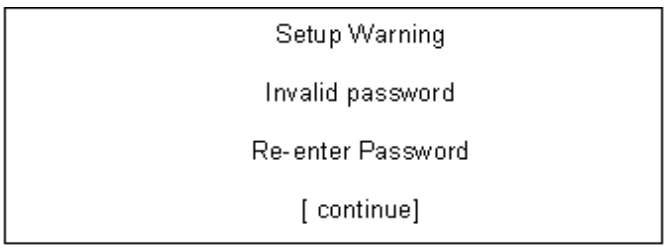
2. Type the current password in the Enter Current Password field and press ENTER.
3. Type a password in the Enter New Password field. Retype the password in the Confirm New Password field.
4. Press ENTER. After setting the password, the computer sets the User Password parameter to “Set”.
5. If desired,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

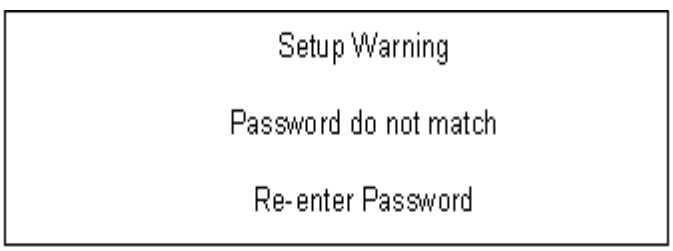


The password setting is complete after the user presses F10.

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

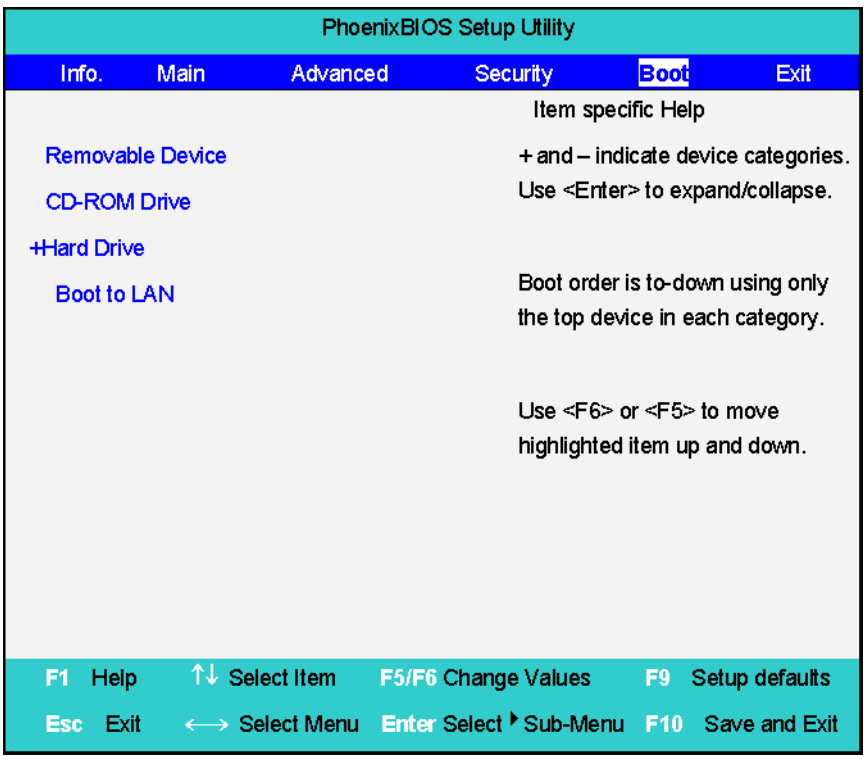


If the new password and confirm new password strings do not match, the screen will display the following message.



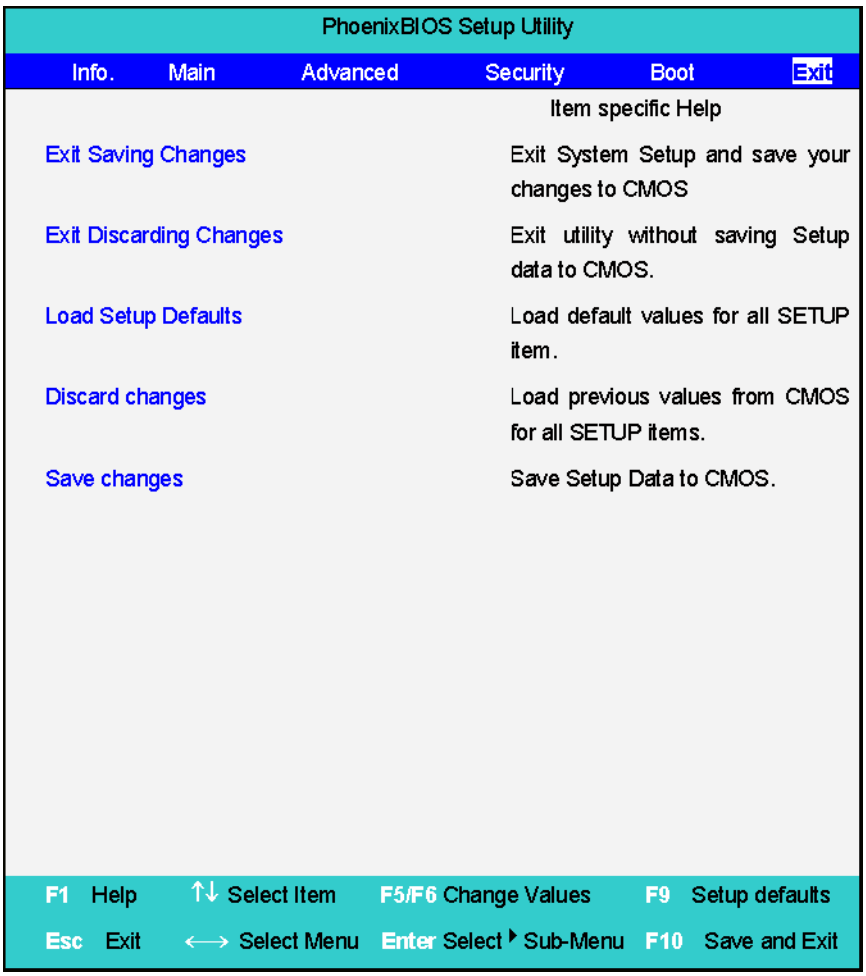
Boot

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



Exit

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



The table below describes the parameters in this screen.

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

BIOS Flash Utility

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

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

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

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

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

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

Fellow the steps below to run the Phlash.

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

Machine Disassembly and Replacement

This chapter contains step-by-step procedures on how to disassemble the notebook computer for maintenance and troubleshooting. To disassemble the computer, you need the following tools:

- An ESD mat
- A Philips screw driver
- A tweezers
- Hex screw driver

NOTE: Use an ESD wristband to avoid the risk of electronic discharge

General Information

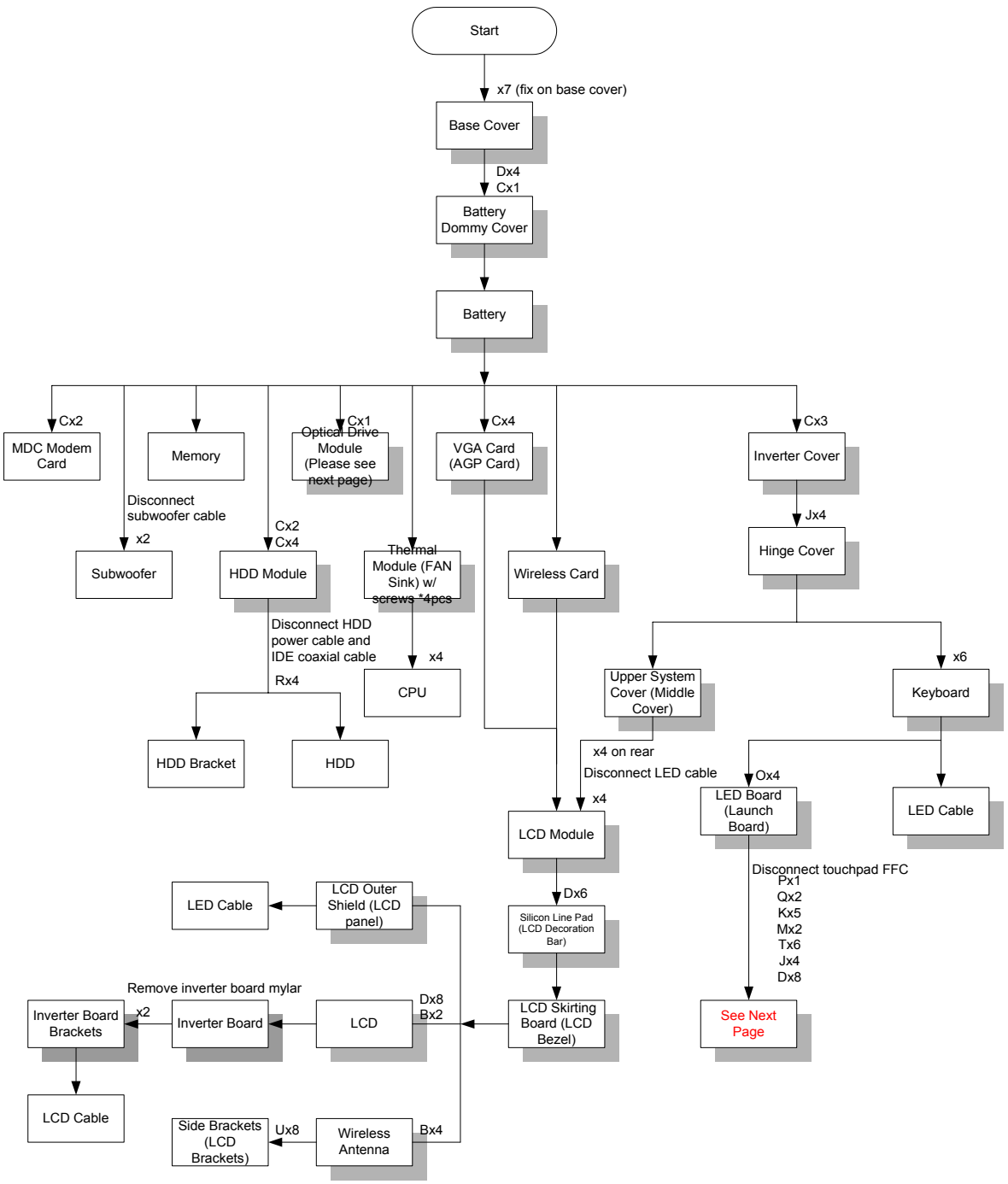
Before You Begin

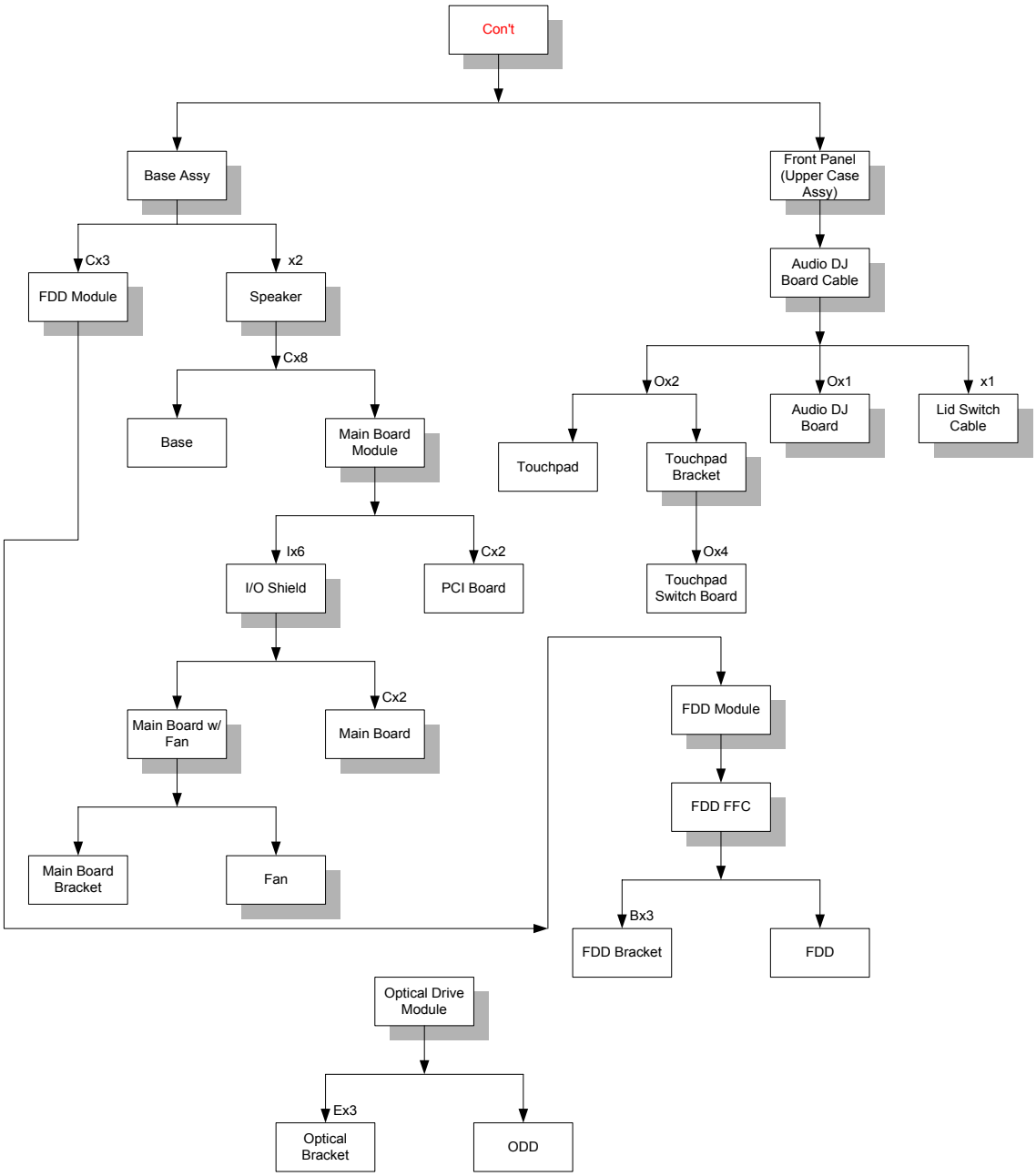
Before proceeding with the disassembly procedure, make sure that you do the following:

1. Turn off the power to the system and all peripherals.
2. Unplug the AC adapter and all power and signal cables from the system.
3. Jewelry such as watches, rings and bracelets should be removed before service disassembly.

Disassembly Procedure Flowchart

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




Con't
Base Assy
Front Panel (Upper Case Assy)
Cx3
FDD Module
x2
Speaker
Audio DJ Board Cable
Cx8
Ox2
Ox1
x1
Base
Main Board Module
Touchpad
Touchpad Bracket
Audio DJ Board
Lid Switch Cable
Ix6
Cx2
Ox4
I/O Shield
PCI Board
Touchpad Switch Board
Cx2
FDD Module
Main Board w/ Fan
Main Board
FDD FFC
Main Board Bracket
Fan
Bx3
FDD Bracket
FDD
Optical Drive Module
Ex3
Optical Bracket
ODD

Screw List

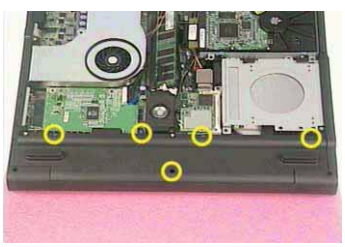
Item	Description
B	SCREW MM25025ICI0
C	SCREW MM25040IL60
D	SCREW MM25060IL69
E	SCREW MM20030ICI3
F	SCREW MM20080ICI6
G	SCREW MM20100ICI3
H	SCREW MS17025B202
I	SCREW MBEA1001012
J	SCREW MF30060PBJ5
K	SCREW MM25070ICI5
L	SCREW MS25060ILR1
M	SCREW MS25060P527
O	SCREW MS25025IBX8
P	SCREW MS25180I100
Q	SCREW MS25100B371
R	SCREW MS0601BILQ1
T	SCREW MS25060IM01
U	SCREW MM30050ICI4

Disassembling

Remove the battery

1. Release the seven screws as shown here.
2. Remove the bottom shield plate.


3. Remove the 5 screws as shown here.
4. Remove the battery or dummy battery module.




Remove the HDD module

1. Remove the 4 screws that secure the HDD module.
2. Lift the HDD module and detach the IDE connector and power connector at the same time.

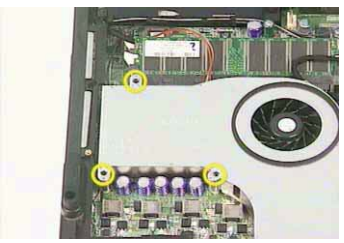


Remove the combo drive

1. Remove the one screw as shown here.
2. Detach the Combo drive.

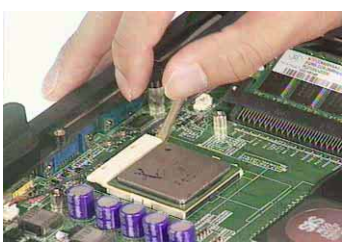
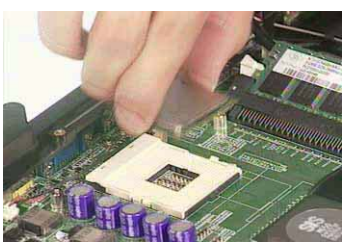
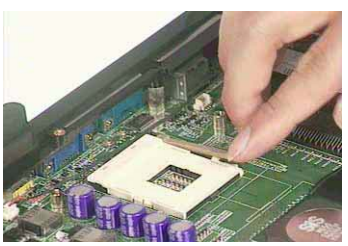

Remove the thermal module

1. Disconnect the fan power connector.
1. Remove the three screws as shown here.
2. Remove the thermal module.

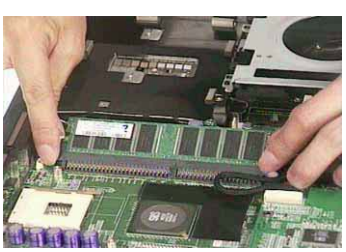
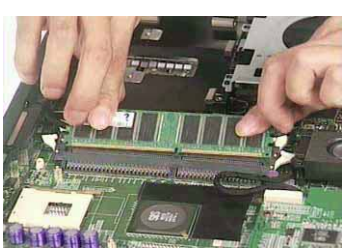

Remove CPU

1. Open the CPU lever, remove the CPU and close the lever.

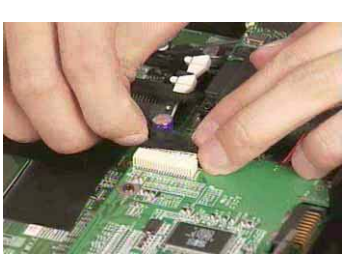
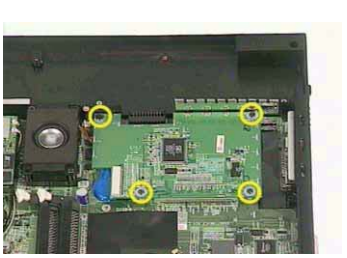
Remove the memory

1. Remove the memory

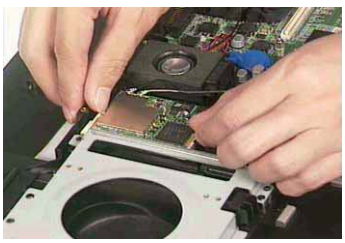
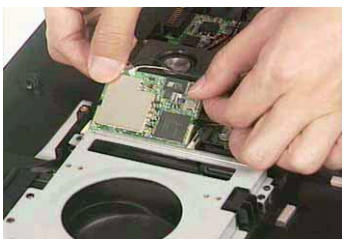
Remove VGA card

1. Disconnect the VGA connector.
2. Release the four screws that secure the VGA card.
3. Remove the VGA card.


Detach the wireless card

1. Detach the wireless card.
2. Disconnect the two wireless cables.


Remove moden card

1. Remove the screws on the MDC (modem card)
2. Detach the card from the modem cable.



3. Release the cable


Remove the inverter cover

1. Remove the screws as shown here.
2. Remove the inverter cover.


Detach the upper system cover

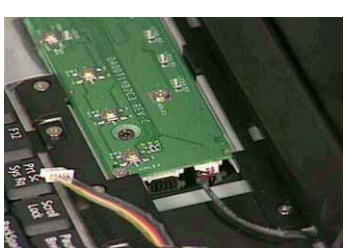
1. Remove the two screws on the one side, and the two screws on the other. .


2. Remove the hinge covers on each side


3. Detach the upper system cover (middle cover).

Remove the LCD module

1. Detach the LED cable from the LED board.
2. Remove the screws that secure the hinge. And the other side.



3. Detach the LCD panel from the main unit and place the panel by turning 180 degrees.
4. Release the cables by following the instructions here carefully.



Remove the LCD panel

1. Detach the silicon line pad by following the instruction here. And the other side.




2. Unscrew the three screws on the edge of the LCD panel on both sides.


3. Detach the LCD skirting board (LCD bezel) by following the instruction here.
4. Remove the TEN screws on the side mount.
5. Remove the LCD panel.



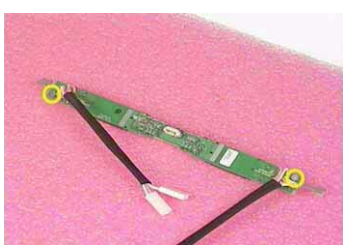
Remove the inverter board

1. Remove the tape and disconnect the inverter cable.

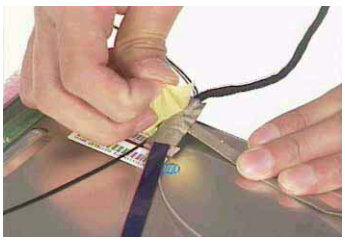
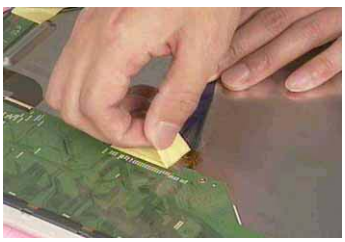

2. Follow the same procedure on the other inverter cable.

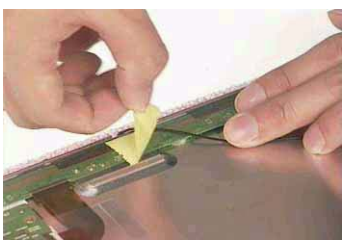

3. Disconnect the inverter power cable from the inverter board.
4. Remove the mylar that covering the inverter board.


5. Remove the two screws that secure the inverter board bracket.



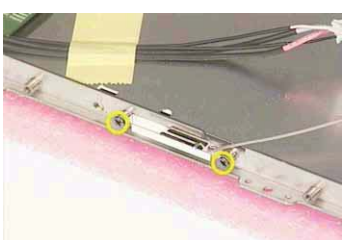
Remove the mylars

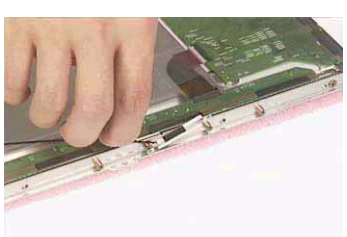



Remove the wireless module

1. Remove the two screws that secure the wireless antenna.
2. Remove the antenna.




3. Repeat the same procedure on the other side.
4. Remove the wireless module.

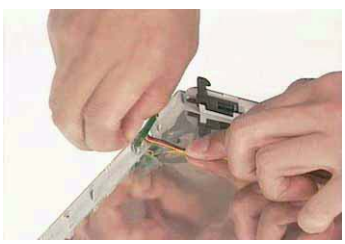




Remove the side bracket

1. Remove the two screws as shown here. Then remove the side bracket.


2. Repeat the same procedure on the other side bracket.

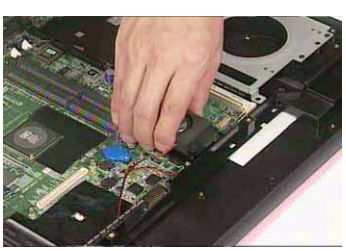

Remove the LED cable attached on the LCD outer shield.

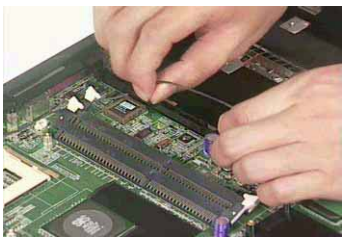
Remove the subwoofer

1. Disconnect the subwoofer cable.
2. Remove the two screws that secure the subwoofer.
3. Remove the subwoofer.





Release the MDC cable.

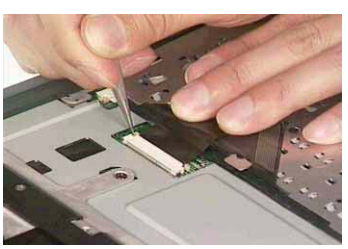


Disconnect the cable to the modem header.


Remove the keyboard

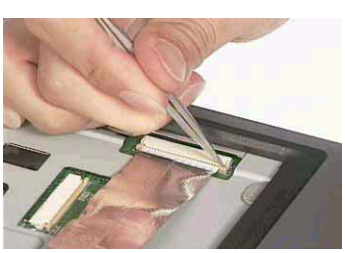
1. Remove the six screws the secure the keyboard.
2. Remove the keyboard and disconnect the attached cable.

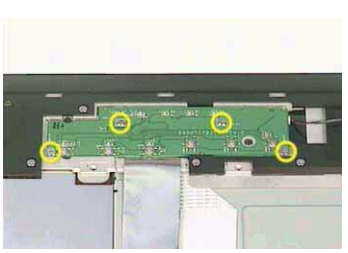




Remove the LED board

1. Detach the LED ribbon cable.
2. Remove the four screws that secure the LED board.





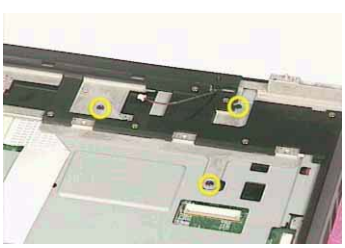
3. Lift the LED board and disconnect the LED cable at the same time.


4. Disconnect the LED ribbon cable from the LED board.

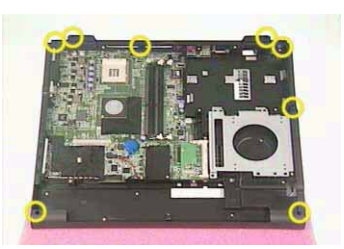
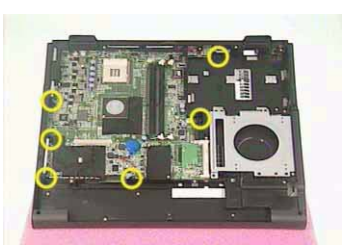

Detach the front panel

1. Disconnect the touch pad ribbon cable.
2. Remove the three screws as shown here.

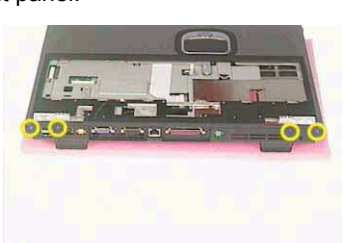




3. Turn the unit upside down, and then remove the group of FOUR, the group of EIGHT and the group of SIX screws.

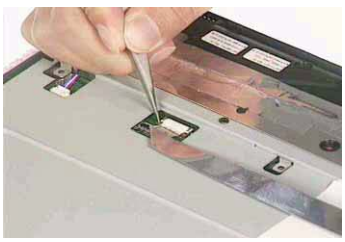




4. And finally the 4 screws on the rear side.
5. Detach the front panel.

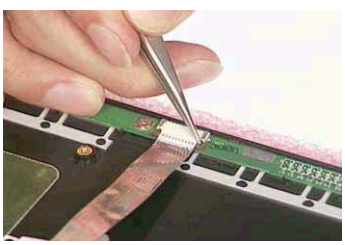



Remove the Audio DJ board

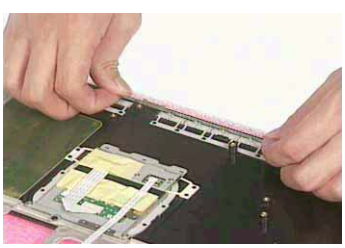
1. Disconnect the Audio DJ ribbon cable.




2. Disconnect the other side of the ribbon cable to the Audio DJ board.

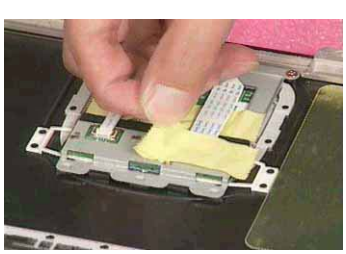
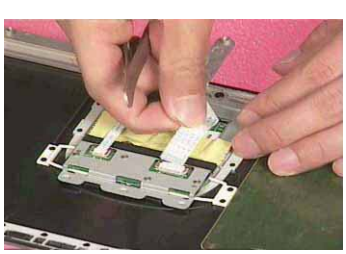



3. Remove the screw that secures the Audio DJ board.
4. Remove the DJ board.

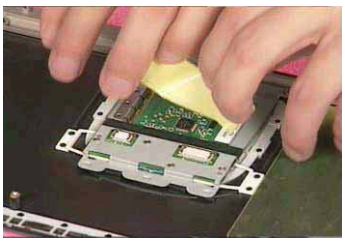
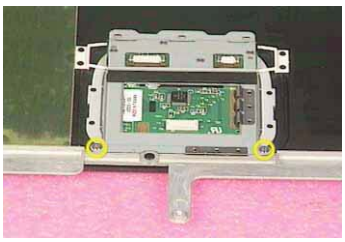
Remove the touch pad

1. Remove the mylar here.
2. Disconnect the two ribbon cables to the touch pad.

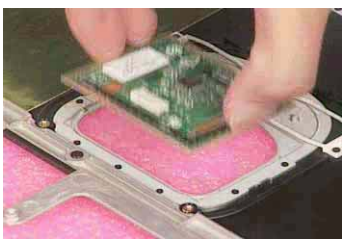




3. Remove the mylar.

4. Remove the two screws that secure the touch pad.

5. Remove the touch pad bracket.
6. Remove the touch pad.

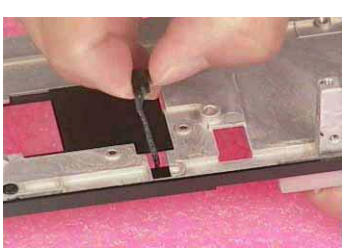



Remove the touch pad board

1. Remove the four screws that secure the touch pad board.
2. Remove the touch pad board.


Remove the lid switch cable

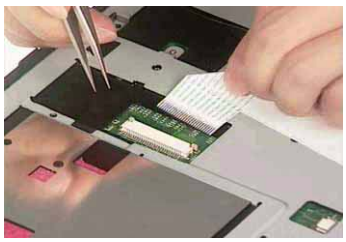
1. Disconnect the lid switch cable by releasing the screw.
2. Remove the lid switch cable.

Remove the floppy drive

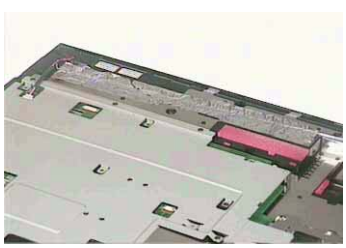
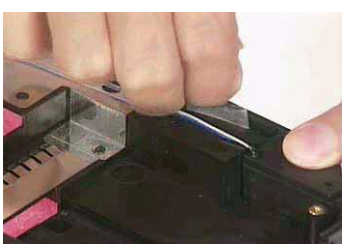
1. Disconnect the floppy cable
2. Remove the three screws

3. Remove the floppy drive.

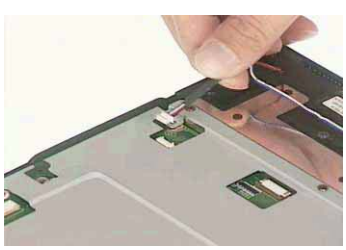


Remove the speaker set

1. Remove the tape
2. Remove the aluminum tape (the tape can be damaged while servicing, please make sure you have a spare one).
3. Remove the tape here.

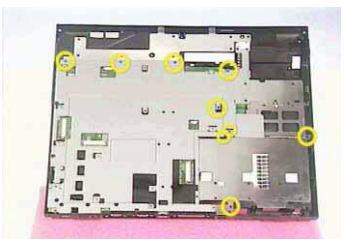
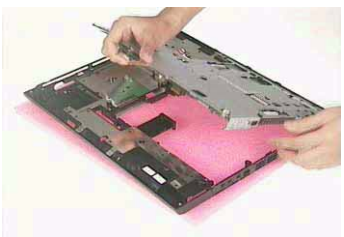
4. Disconnect the speaker cable.
5. Remove the screw as shown here.
6. And the one on the other side.



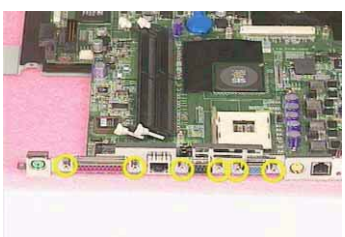
7. Remove the speaker set.

Remove the mainboard

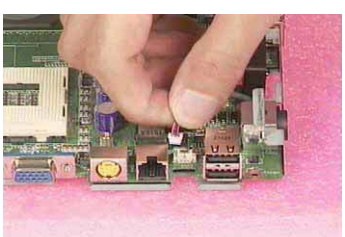
1. Remove the nine screws as shown
2. Detach the mainboard module from the base unit
3. Remove the screw as shown


4. Remove the PCI board.
5. Remove the six screws that secure the I/O shield.
6. Remove the I/O shield.


7. Disconnect the system fan power connector.
8. Remove the two screws, one on each side, that secure the mainboard.

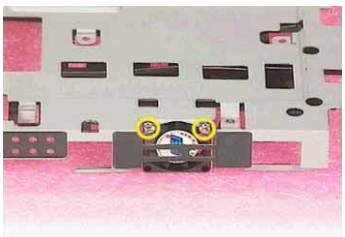


9. Remove the mainboard from the mainboard bracket.

Remove the system fan

1. Remove the two screws that secure the system fan.

2. Remove the system fan.




3. This completes the disassembly procedures of Aspire 1710.

FDD Module

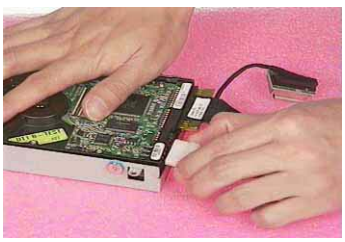
1. Disconnect the ribbon cable.
2. Remove the screws as shown here.



3. Remove the FDD bracket away from the floppy drive.

HDD Module

1. Disconnect the HDD power cable and then the IDE coaxial cable.




2. Remove the screws that secure the HDD, and the other side.
3. Remove the bracket from the HDD.



Combo Module

1. Remove the three screws as shown here.
2. Remove the bracket.


Troubleshooting

Use the following procedure as a guide for computer problems.

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

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

Symptoms (Verified)	Go To
Power failure. (The power indicator does not go on or stay on.)	"Power System Check" on page 70.
POST does not complete. No beep or error codes are indicated.	"Power-On Self-Test (POST) Error Message" on page 73. "Undetermined Problems" on page 81.
POST detects an error and displayed messages on screen.	"Error Message List" on page 74.
Other symptoms (i.e. LCD display problems or others).	"Power-On Self-Test (POST) Error Message" on page 73.
Symptoms cannot be re-created (intermittent problems).	Use the customer-reported symptoms and go to "Power-On Self-Test (POST) Error Message" on page 73. "Intermittent Problems" on page 80. "Undetermined Problems" on page 81.

System Check Procedures

External Diskette Drive Check

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

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

Do the following to select the test device.

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

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

If the error still remains:

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

External CD-ROM Drive Check

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

Do the following to select the test device:

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

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

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

Keyboard or Auxiliary Input Device Check

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

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

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

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

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

The following auxiliary input devices are supported by this computer:

- Numeric keypad
- External keyboard

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

Memory check

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

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

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

Power System Check

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

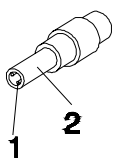
1. Remove the battery pack.
2. Connect the power adapter and check that power is supplied.
3. Disconnect the power adapter and install the charged battery pack; then check that power is supplied by the battery pack.

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

- ❑ “Check the Power Adapter” on page 71.
- ❑ “Check the Battery Pack” on page 72.

Check the Power Adapter

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



Pin 1: +19 to +20.5V
Pin 2: 0V, Ground

1. If the voltage is not correct, replace the power adapter.
2. If the voltage is within the range, do the following:
   - ❑ Replace the System board.
   - ❑ If the problem is not corrected, see “Undetermined Problems” on page 81.
   - ❑ If the voltage is not correct, go to the next step.

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

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

Check the Battery Pack

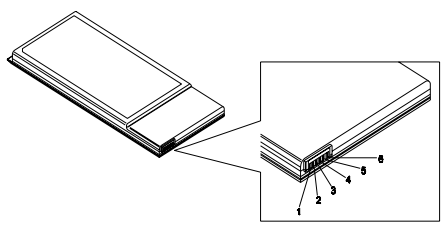
To check the battery pack, do the following:

From Software:

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

From Hardware:

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



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

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

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

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

Touchpad Check

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

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

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

Power-On Self-Test (POST) Error Message

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

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

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

If the symptom is not listed, see “Undetermined Problems” on page 81.

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

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

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

Index of Error Messages

Error Code List

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

Error Message List

Error Messages	FRU/Action in Sequence
Failure Fixed Disk	Reconnect hard disk drive connector. “Load Default Settings” in BIOS Setup Utility. Hard disk drive System board
Stuck Key	see “Keyboard or Auxiliary Input Device Check” on page 69.
Keyboard error	see “Keyboard or Auxiliary Input Device Check” on page 69.
Keyboard Controller Failed	see “Keyboard or Auxiliary Input Device Check” on page 69.
Keyboard locked - Unlock key switch	Unlock external keyboard
Monitor type does not match CMOS - Run Setup	Run “Load Default Settings” in BIOS Setup Utility.
Shadow RAM Failed at offset: nnnn	BIOS ROM System board
System RAM Failed at offset: nnnn	DIMM System board
Extended RAM Failed at offset: nnnn	DIMM System board
System battery is dead - Replace and run Setup	Replace RTC battery and Run BIOS Setup Utility to reconfigure system time, then reboot system.
System CMOS checksum bad - Default configuration used	RTC battery Run BIOS Setup Utility to reconfigure system time, then reboot system.
System timer error	RTC battery Run BIOS Setup Utility to reconfigure system time, then reboot system. System board

Error Message List

Error Messages	FRU/Action in Sequence
Real time clock error	RTC battery Run BIOS Setup Utility to reconfigure system time, then reboot system. System board
Previous boot incomplete - Default configuration used	Run “Load Default Settings” in BIOS Setup Utility. RTC battery System board
Memory size found by POST differed from CMOS	Run “Load Default Settings” in BIOS Setup Utility. DIMM System board
Diskette drive A error	Check the drive is defined with the proper diskette type in BIOS Setup Utility See “External Diskette Drive Check” on page 69.
Incorrect Drive A type - run SETUP	Check the drive is defined with the proper diskette type in BIOS Setup Utility
System cache error - Cache disabled	System board
CPU ID:	System board
DMA Test Failed	DIMM System board
Software NMI Failed	DIMM System board
Fail-Safe Timer NMI Failed	DIMM System board
Device Address Conflict	Run “Load Default Settings” in BIOS Setup Utility. RTC battery System board
Allocation Error for device	Run “Load Default Settings” in BIOS Setup Utility. RTC battery System board
Failing Bits: nnnn	DIMM BIOS ROM System board
Fixed Disk n	None
Invalid System Configuration Data	BIOS ROM System board
I/O device IRQ conflict	Run “Load Default Settings” in BIOS Setup Utility. RTC battery System board
Operating system not found	Enter Setup and see if fixed disk and drive A: are properly identified. Diskette drive Hard disk drive System board

Error Message List

No beep Error Messages	FRU/Action in Sequence
No beep, power-on indicator turns off and LCD is blank.	Power source (battery pack and power adapter). See “Power System Check” on page 70. Ensure every connector is connected tightly and correctly. Reconnect the DIMM. LED board. System board.
No beep, power-on indicator turns on and LCD is blank.	Power source (battery pack and power adapter). See “Power System Check” on page 70. Reconnect the LCD connector Hard disk drive LCD inverter ID LCD cable LCD Inverter LCD System board
No beep, power-on indicator turns on and LCD is blank. But you can see POST on an external CRT.	Reconnect the LCD connectors. LCD inverter ID LCD cable LCD inverter LCD System board
No beep, power-on indicator turns on and a blinking cursor shown on LCD during POST.	Ensure every connector is connected tightly and correctly. System board
No beep during POST but system runs correctly.	Speaker System board

LCD-Related Symptoms

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

Indicator-Related Symptoms

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

Power-Related Symptoms

Symptom / Error	Action in Sequence
Power shuts down during operation	Power source (battery pack and power adapter). See “Power System Check” on page 70. Battery pack Power adapter Hard drive & battery connection board System board
The system doesn’t power-on.	Power source (battery pack and power adapter). See “Power System Check” on page 70. Battery pack Power adapter Hard drive & battery connection board System board
The system doesn’t power-off.	Power source (battery pack and power adapter). See “Power System Check” on page 70. Hold and press the power switch for more than 4 seconds. System board
Battery can’t be charged	See “Check the Battery Pack” on page 72. Battery pack System board

PCMCIA-Related Symptoms

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

Memory-Related Symptoms

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

Speaker-Related Symptoms

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

Power Management-Related Symptoms

Symptom / Error	Action in Sequence
The system will not enter hibernation	Keyboard (if control is from the keyboard) Hard disk drive System board
The system doesn't enter hibernation mode and four short beeps every minute.	See “Hibernation Mode” on page 30. Press Fn+F4 and see if the computer enters hibernation mode. Touchpad Keyboard Hard disk connection board Hard disk drive System board
The system doesn’t enter standby mode after closing the LCD	See “Hibernation Mode” on page 30. LCD cover switch System board
The system doesn't resume from hibernation mode.	See “Hibernation Mode” on page 30. Hard disk connection board Hard disk drive System board
The system doesn't resume from standby mode after opening the LCD.	See “Hibernation Mode” on page 30. LCD cover switch System board
Battery fuel gauge in Windows doesn’t go higher than 90%.	Remove battery pack and let it cool for 2 hours. Refresh battery (continue use battery until power off, then charge battery). Battery pack System board

Power Management-Related Symptoms

Symptom / Error	Action in Sequence
System hangs intermittently.	Reconnect hard disk/CD-ROM drives. Hard disk connection board System board

Peripheral-Related Symptoms

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

Keyboard/Touchpad-Related Symptoms

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

Modem-Related Symptoms

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

NOTE: If you cannot find a symptom or an error in this list and the problem remains, see “Undetermined Problems” on page 81.

Intermittent Problems

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

When analyzing an intermittent problem, do the following:

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

Undetermined Problems

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

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

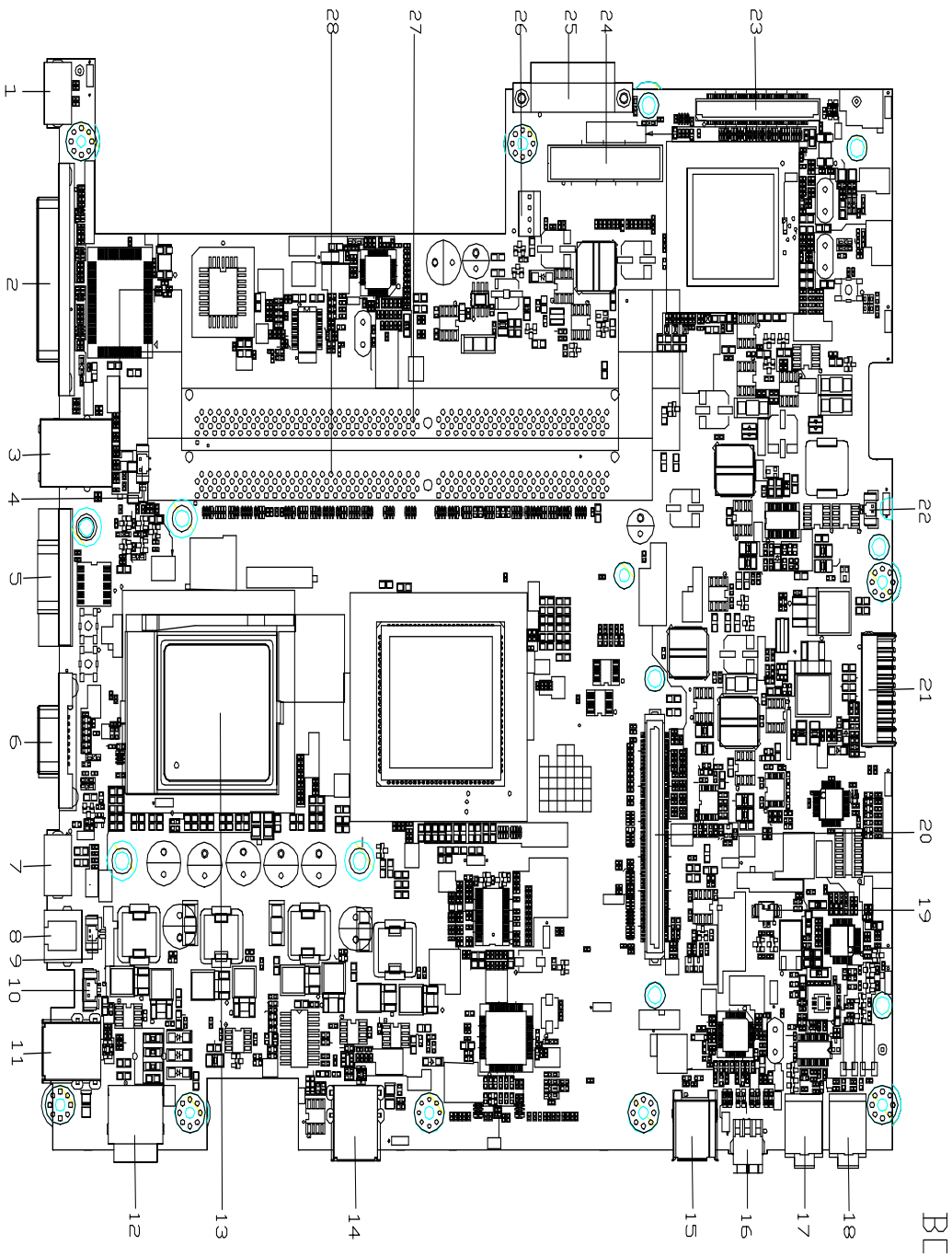
NOTE: Verify that all attached devices are supported by the computer.

NOTE: Verify that the power supply being used at the time of the failure is operating correctly. (See “Power System Check” on page 70):

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

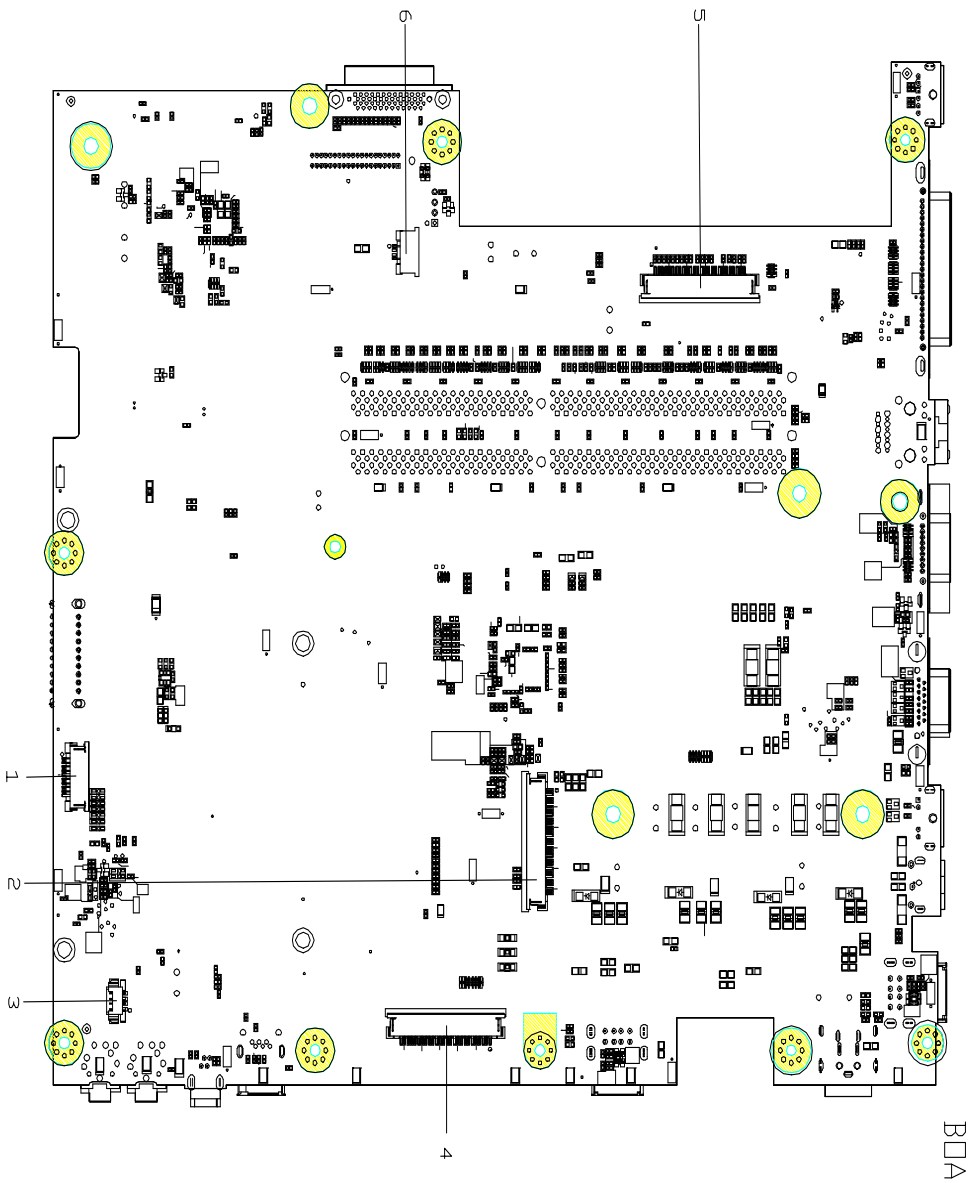
Jumper and Connector Locations

Top View



1	CON1	PS2 Port	16	CON21	Mini 1394 Connector
2	CON4	Parallel Port	17	CON24	MIC Connector
3	CON9	LAN Connector	18	CON25	Line Out Connector
4	CON11	CPU Fan Connector	19	CON23	Woofer Connector
5	CON3	COM1 Port	20	CON19	VGA Board Connector
6	CON5	VGA Port	21	CON26	Battery Connector
7	CON2	S-Video Port	22	CON27	RTC Battery Connector
8	CON6	Modem Connector	23	CON22	PCI Board Connector
9	CON8	MDC Connector	24	CON18	HDD Connector
11	CON7	USB Port	25	CON17	CD/DVD-ROM Module Connector
12	CON10	DC-In Connector	26	CON16	HDD Power Connector
13	U3	CPU Socket	27	CON15	DDR RAM Socket-1
14		USB Port	28	CON14	DDR RAM Socket-1
15	CON20	1394 Connector			

Bottom View



1	CON36	Audio DJ FFC Connector
2	CON31	Keyboard Connector
3	CON35	Speaker Connector
4	CON33	LED Board FFC Connector
5	CON30	FDD FFC Connector
6	CON34	Touchpad FFC Connector

FRU (Field Replaceable Unit) List

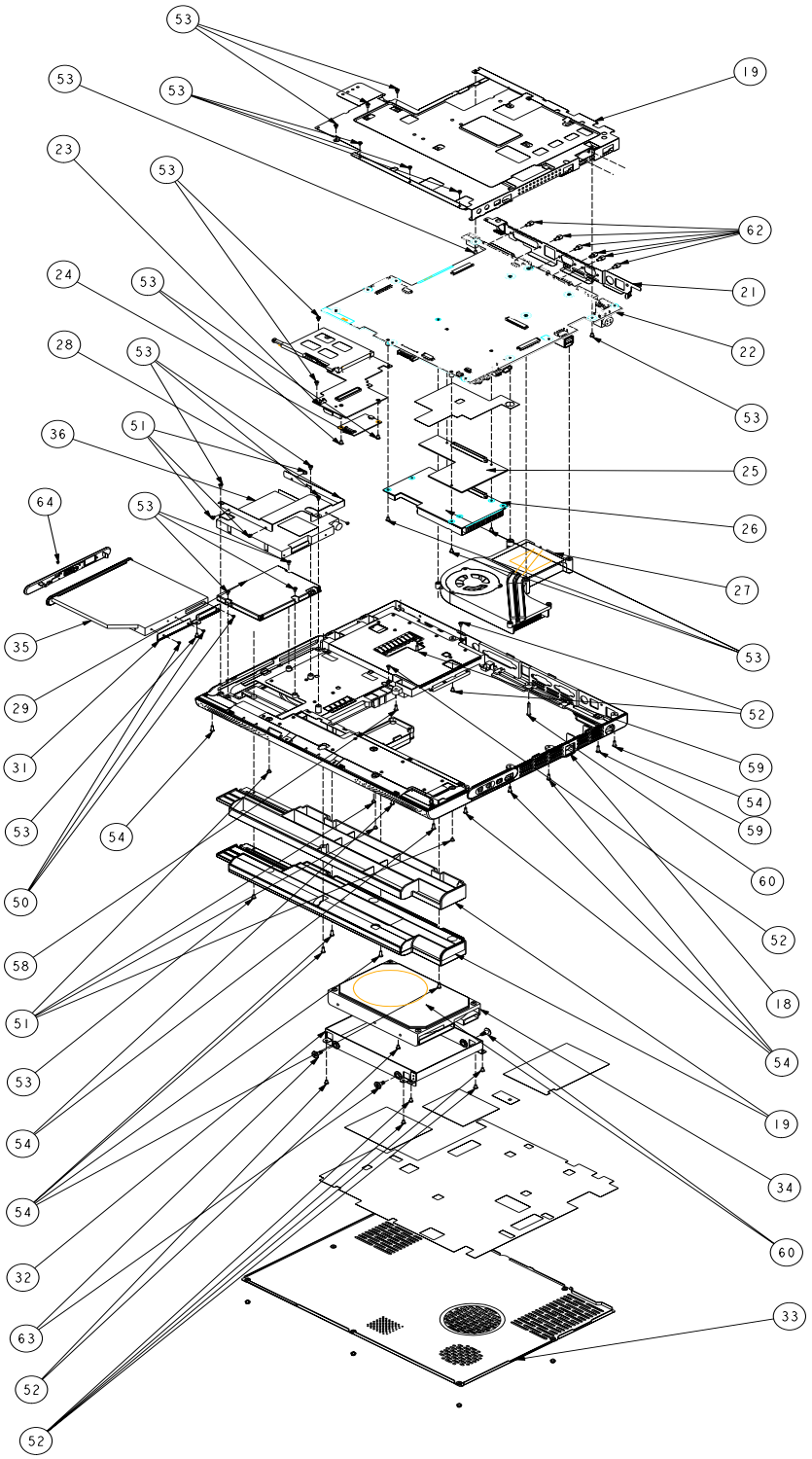
This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of Aspire 1710. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

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.

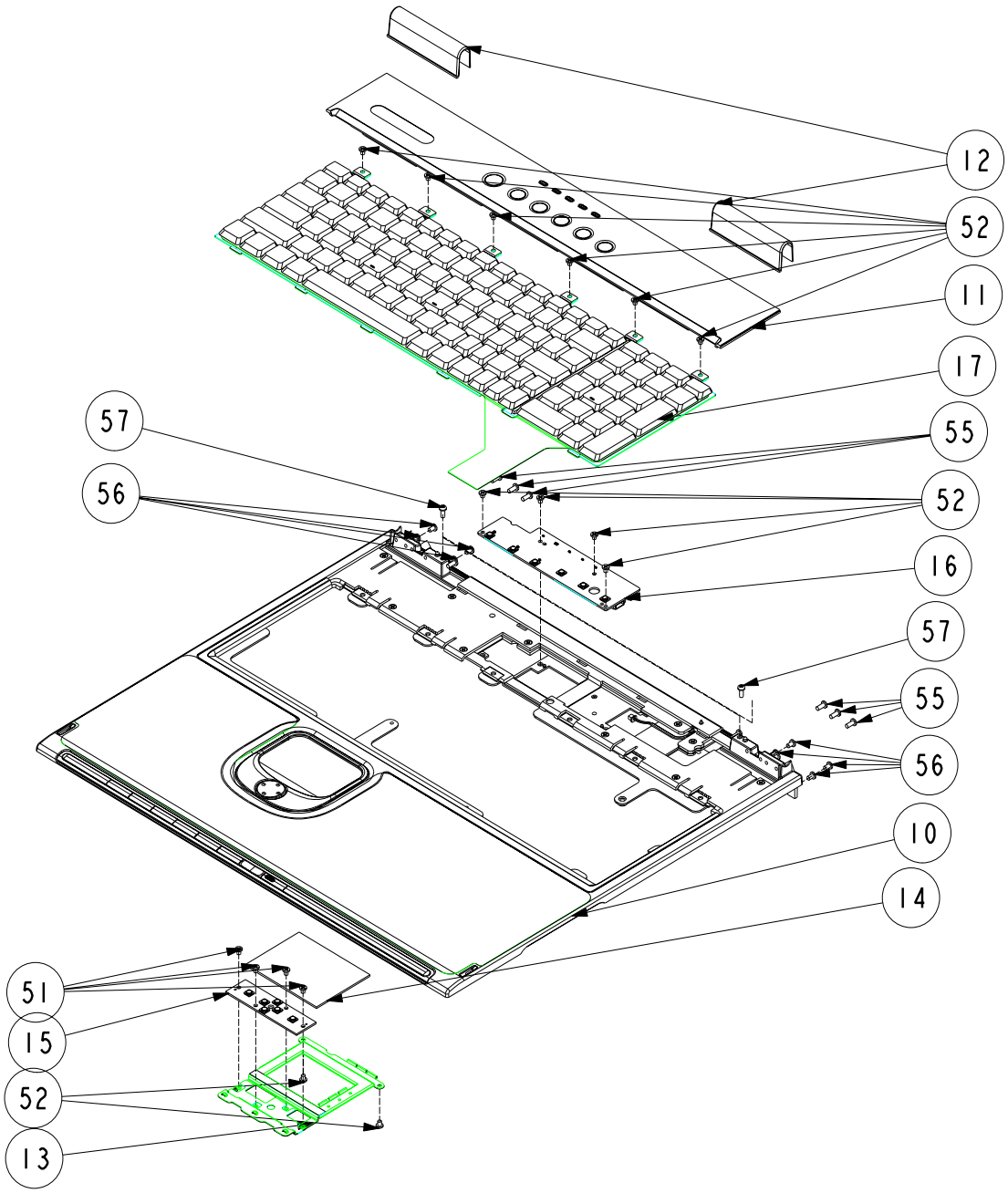
NOTE: To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how to dispose it properly, or follow the rules set by your regional Acer office on how to return it.

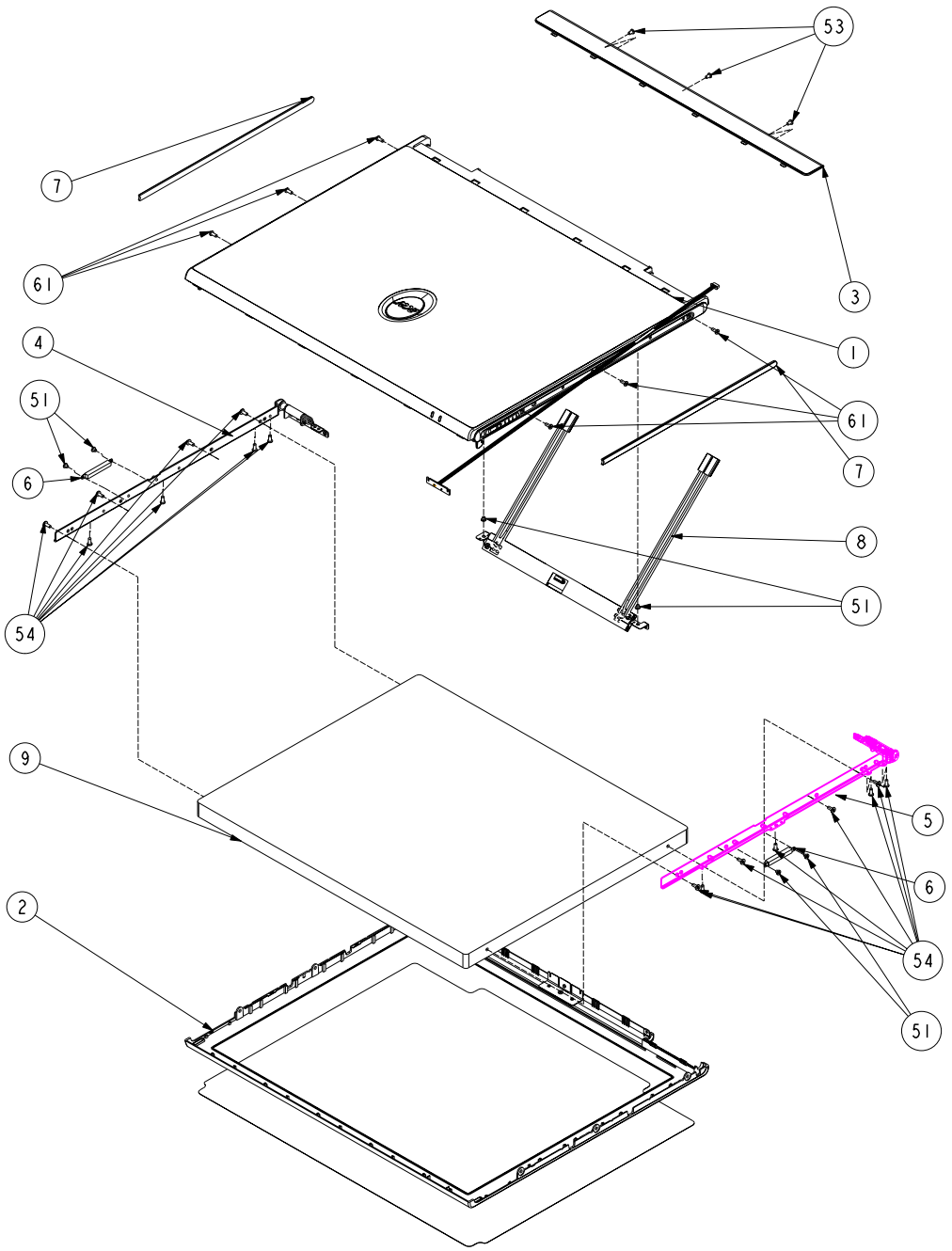
Exploded Diagram

Base Assy.



Top Assy.





NOTE: The part numbers appear on the exploded diagram are vendor's part number. Please refer to the FRU list for Acer part number.

Picture	No.	Partname	Part Number
Adapter			
		ADAPTER DELTA ADP-180W PFC 3 PINS	
Battery			
		BATTERY 2.2AHR 12CELLS LI-LON LISIMPL	
Board			
		WIRELESS LAN BOARD (802.11g) WNC	54.A08V7.001
		MDC MD BOARD AMBIT AGERE MODEM	54.T29V7.001
		nVIDIA GeForce FX Go5200 NV-34M 64MB AGP CARD	TBD
		nVIDIA GeForce FX Go5700 NV-36M 64MB AGP CARD	TBD
		nVIDIA GeForce FX Go5700 NV-36M 128MB AGP CARD	TBD
		INTEL 865G VEDIO BRIDAGE BOARD	TBD
		LAUNCH BOARD	55.A15V7.001
		AUDIO DJ BOARD	55.A15V7.002
		TOUCHPDA SWITCH BOARD	55.A15V7.003
		PCMCIA DAUGHTER BOARD W/ CARDBUS SLOT	55.A15V7.004
Mainboard			
		M/B W/ BATTERY DDR333 SUPPORT	
Case/Cover/Bracket Assembly			
		M/B PLATE	
BATTERY			
		M/B BATTERY	23.A08V7.001
Cable			
		POWER CORD US	27.A08V7.001
		POWER CORD CONTINENTAL	27.A08V7.002
		POWER CORD UK	27.A08V7.003

Picture	No.	Partname	Part Number
		POWER CORD ITALIAN	27.A08V7.004
		POWER CORD DANISH	27.A08V7.005
		POWER CORD SWISS	27.A08V7.006
		LAUNCH BOARD FFC CABLE (LAUNCH BOARD TO MB)	50.A15V7.001
		FFC CABLE (TOUCHPAD TO TOUCH SWITCH)	50.A08V7.002
		FFC CABLE (TOUCH SWITH TO M/B)	50.A08V7.003
		AUDIO DJ FFC CABLE (AUDIO BOARD TO M/B)	50.A15V7.002
		COVER SWITCH CABLE (LID SWITCH CABLE)	50.A08V7.010
		LED CABLE ON LCD PANEL	50.A15V7.003
PCMCIA SLOT/PC CARD SLOT			
		PCMCIA SLOT (CARDBUS SLOT)	22.A08V7.001
CASE/COVER/BRACKET ASSEMBLY			
		BASE COVER	60.A15V7.001
		BASE CASE W/FDD SKU W/O BLUETOOTH SKU	60.A15V7.002
		BASE CASE W/FDD BLUETOOTH SKU	60.A15V7.003
		BASE CASE W/ 6 IN 1 SKU W/O BLUETOOTH SKU	60.A15V7.004
		BASE CASE W/ 6 IN 1 BLUETOOTH SKU	60.A15V7.005
		BETTERY DOMMY COVER W/ FOOT	42.A08V7.001
		INVERTER COVER	42.A08V7.002
		HINGH COVER	42.A08V7.003
		UPPER CASE	60.A08V7.003
		I/O BRACKET	33.A08V7.001

Picture	No.	Partname	Part Number
		TOUCH PAD BRACKET	33.A08V7.002
		MIDDLE COVER W/ NAME PLATE	42.A15V7.001
CPU/Processor			
		INTEL PENTIUM 4 NORTHWOOD 3.0GHZ 512K 800FSB 478PIN SL6WK	KC.DP001.30C
		INTEL PENTIUM 4 NORTHWOOD 3.2GHZ 512K 800FSB SL6WG	KC.DP001.32C
		Intel DT FSB 800 P4 3.4G	KC.DP001.34C
FDD/Floppy Disc Drive			
		FDD MODULE 1.44MB SLIM PANASONIC JU226A273FC	TBD
		FDD 1.44MB SLIM PANASONIC/JU226A273FC	KF.A0302.001
		FDD FFC CABLE	50.A15V7.004
		FDD BRACKET	33.A08V7.005
HDD/Hard Disc Drive			
		HDD 3.5" 80G U7 5400RPM SEAGATE ST380022A HDD 3.5" 80G U9 5400RPM SEAGATE ST380012A HDD 3.5" 120G(L) 7200RPM MAXTOR CALYPSO 6Y120L0 HDD 3.5" 120G 7200RPM SEAGATE CUDA V	KH.38001.003 KH.08001.002 KH.12003.002 KH.31201.001
		HDD CABLE, 40PIN	50.A08V7.006
		HDD POWER CABLE, 4PIN, IDE	50.A08V7.007
		HDD CASE	33.A08V7.006
Heatsink			
		THERMAL MODULE	60.A15V7.007
Keyboard			

Picture	No.	Partname	Part Number
		KEYBOARD SUNREX ARABIC	KB.A1506.011
		KEYBOARD SUNREX BELGIUM	KB.A1506.013
		KEYBOARD SUNREX CZECH	KB.A1506.015
		KEYBOARD SUNREX DANISH	KB.A1506.018
		KEYBOARD SUNREX FRENCH	KB.A1506.006
		KEYBOARD SUNREX GERMAN	KB.A1506.003
		KEYBOARD SUNREX GREEK	KB.A1506.021
		KEYBOARD SUNREX HUNGAIAN	KB.A1506.016
		KEYBOARD SUNREX ITALIAN	KB.A1506.004
		KEYBOARD SUNREX NORWAY	KB.A1506.017
		KEYBOARD SUNREX PORTUGUESE	KB.A1506.010
		KEYBOARD SUNREX RUSSIAN	KB.A1506.009
		KEYBOARD SUNREX SPANISH	KB.A1506.009
		KEYBOARD SUNREX SWEDEN	KB.A1506.014
		KEYBOARD SUNREX SWISS/G	KB.A1506.008
		KEYBOARD SUNREX TC	KB.A1506.005
		KEYBOARD SUNREX UK	KB.A1506.002
		KEYBOARD SUNREX US INTERNATIONAL	KB.A1506.001
LCD Module			
		LCD MODULE 17 IN. TFT SXGA QDI QD17EL07	TBD
		LCD 17 IN. TFT SXGA QDI QD17EL07	LK.17009.001
		INVERTER BOARD	55.A08V7.006
		WIRELESS LAN ANTENNA Y CABLE	50.A15V7.005
		LCD CABLE SET	50.A15V7.006
		LCD HINGE R+L 17 IN.	6K.A15V7.001

Picture	No.	Partname	Part Number
		LCD PANEL W/ LED CABLE LOGO 17 IN.	60.A15V7.006
		LCD BUTTOM	42.A08V7.005
		LCD BEZEL W/ ACER LOGO 17 IN.	60.A08V7.006
		LCD LATCH 17 IN.	47.A08V7.001
		LCD SPRING 17 IN.	47.A08V7.002
		LCD DECORATION BAR 17 IN.	47.A08V7.004
Memory			
		DDR 333 256MB 0.11U, CL=2.5 INFINEON	KN.25602.010
		MEMORY DDR333 256MB NANYA NT256D64S88B1G-6K	KN.25603.008
		MEMORY DDR 333 512MB NANYA NT512D64S8HB1G-6K	KN.51203.004
ODD/Optical Disc Drive			
		DVD-RW COMBO MODULE 24X QSI SBW242	6M.A08V7.001
		DVD-RW COMBO MODULE 24X KME UJDA750	TBD
		DVD DUAL MODULE 4X PIONEER DVR-K12RA wait for FW	TBD
		DVD/CD-RW COMBO 24X QSI SBW242	KO.24X07.002
		DVD/CDRW COMBO DRIVE 24X KME UJDA750	TBD
		DVD DUAL DRIVE 4X PIONEER DVR-K12RA wait for FW	TBD
		DVD-RW COMBO DRIVE BEZEL for QSI	42.A08V7.004
		DVD-RW COMBO DRIVE BEZEL for KME	??
		DVD-RW DRIVE BEZEL	42.A08V7.007
		ODD BRACKET	33.A08V7.004
Pointing Device			

Picture	No.	Partname	Part Number
		TOUCHPAD	55.A08V7.004
Reader			
		WINTER SOLUTION 6-IN-1 CARD READER	LA.A0801.001
Speaker			
		SPEAKER R+L VECO 28KC04-1	23.A08V7.004
		SPEAKER FOIL	47.A08V7.005
		SUB-WOOFER 2PIN VECO 25KP04	23.A08V7.002
Screws			
		SCREW MM25025ICI0	86.A08V7.002
		SCREW MM25040IL60	86.A08V7.003
		SCREW MM25060IL69	86.A08V7.004
		SCREW MM20030ICI3	86.A08V7.005
		SCREW MM20080ICI6	86.A08V7.006
		SCREW MM20100ICI3	86.A08V7.007
		SCREW MS17025B202	86.A08V7.008
		SCREW MBEA1001012	86.A08V7.009
		SCREW MF30060PBJ5	86.A08V7.010
		SCREW MM25070ICI5	86.A08V7.011
		SCREW MS25060ILR1	86.A08V7.012
		SCREW MS25060P527	86.A08V7.013
		SCREW MS25025IBX8	86.A08V7.015
		SCREW MS25180I100	86.A08V7.016
		SCREW MS25100B371	86.A08V7.017
		SCREW MS0601BILQ1	86.A08V7.018
		SCREW MS25060IM01	86.A08V7.020
		SCREW MM30050ICI4	86.A08V7.021

Model Definition and Configuration

Model Name Definition

Model Number	LCD	CPU	Memory	HDD	CD/DVD	VGA Card	Wireless LAN
1711SCi	DT 17.0" SXGA	DTP4-2.8GHz	512MB	80GB	24x CDRW+DVD	N	11g
	DT 17.0" SXGA	DTP4-2.8GHz	512MB	80GB	24x CDRW+DVD	nVidia Geforce FX Go5700 64MB	11g
1711SMi	DT 17.0" SXGA	DTP4-2.8GHz	512MB	80GB	DVD-Dual	nVidia Geforce FX Go5700 64MB	11g
1712SMi	DT 17.0" SXGA	DTP4-3.0GHz	512MB	120GB	4x DVD-Dual	nVidia Geforce FX Go5700 64MB	11g
	DT 17.0" SXGA	DTP4-3.0GHz	2*512MB	120GB	4x DVD-Dual	nVidia Geforce FX Go5700 64MB	11g
1714SMi	DT 17.0" SXGA	DTP4-3.4GHz	2*512MB	120GB	4x DVD-Dual	nVidia Geforce FX Go5700 128MB	11g

Test Compatible Components

This computer's compatibility is a test plan released by Acer Internal Testing Department. Once the final report is available, this chapter will be revised accordingly.

Microsoft Windows XP Environment Test

Item	Specifications
Processor	Intel Pentium 4 Northwood 2.6GHZ 512K 400FSB SL6PP D-1 STEPPING Intel Pentium 4 Northwood 2.8GHZ 512K 533FSB SL6PF D-1 STEPPING Intel Prescott 2.8GHZ 1M 533FSB SL7DB D-1 STEPPING Intel Prescott 2.8GHZ 1M 800FSB SL79K D-1 STEPPING Intel Prescott 3.0GHZ 1M 800FSB SL79L D-1 STEPPING
Memory	256MB Infineon DDR 333 11U, CL=2.5 256MB Nanya DDR333 NT256D64S88B1G-6K 256MB Infineon DDR400 HYS64D32300GU-5-B 256MB Nanya DDR400 NT256D64S88B1G-5T EA 512MB Nanya DDR333 NT512D64S8HB1G-6K 512MB Infineon DDR333 HYS64D64320HU-6-C 512MB Infineon DDR400 HYS64D64320GU-5-B 512MB Nanya DDR400 NT512D64S8HB1G-5T
LCD	14” XGA TFT AU 15” XGA TFT LG/Hitachi 17” SXGA TFT QDI QD17EL07
Hard Disk Drive	80GB/5400RPM/ATA-100 /SEAGATE U9 ST380012A 80GB 5400RPM WD PROTEGE WD800EB-00DJF0 120GB 7200RPM SEAGATE CUDA VI ALPINE SEAGATE ST3120022A 120G 7200RPM WD 1200BB-00DWA0
DVD-ROM Drive 8X	Pioneer DVR-K12RA
DVD/CD-RW Combo	KME UJDA750 QSI SBW-242
AC Adapter (3 pin)	Delta ADP-180W PFC 3 PINS Lite-on PA-1181-08QA 180W 3 PINS
Power Cord	King Cord
Battery Li-Ion, 12 cells	2.2AHR 12CELLS LI-LON LISIMPL
CRT Port	**CRT Monitor:** View Sonic PF775 Philips Brilliance 109P 19” Silicon Graphics 21” Dell Trinitron 21” ViewSonic GS790 ViewSonic GS773 Dell 2000FP **LCD Monitor:** LCD Acer AL722 LCD akia KX1 **Projector:** Panasonic PT-L757U Panasonic PT-L556EA

Item	Specifications
Prarllel Port	**Printer:** HP Laser Jet 2100 HP Desk Jet 840C HP Desk Jet 930C **ZIP:** IOMega ZIP 100 (LPT Port) **Cable:** LL5 cable
1394 Port	**HDD:** IEEE 1394 (Fire Wire)/USB 1.1 Combo Hard Drive **CCD:** StealthFire tm **HUB:** Aten 1394HUB/FH-600 **Cable:** 1394 4 to 4 Cable **MO:** Fujitsu Limited MDF3130EE
USB 2.0	**HUB:** Highspeed\4 Port Adaptec\4 Port (XHUB4) for DELL **HDD:** USB HDD Easy BOX USB HDD LACIE for Dell **CD-ROM:** LACIE (16*10*40) for Dell Yamaha CD/RW-70 **DVD/CD-RW:** Pioneer DVR-104 Ricoh MP5125A **Cable:** Mini-LinQ USB 2.0 File transfer cable **Printer:** HP3425 Printer Handy Drive: USB Drive 256MB USB Drive 128MB
	USB Mouse: Acer USB Mouse M012B0 Microsoft Wireless Optical USB Mouse \MIC:P-LPD1-02-0047 Microsoft Optical Mouse USB & PS/2 Compatible Microsoft Optical USB Mouse \ITE 78CJ Logitech Cordless TrackMan Wheel Mouse T-RA18 Logitech MouseMan Dual Optical M-BP82 Logitech Wheel Mouse M-BD58 Logitech Wheel Mouse M-BE58 Logitech iFEEL Mouse M-UN58a TARGUS Wheel Mouse

Item	Specifications
	USB Keyboard: TARGUS Wheel Mouse SILITEK K/B SK-6000 NMB K/B ZIPPY USB K/B TK532 **USB Keypad:** ZIPPY USB Keypad KW-610 **Wireless Keyboard & Mouse:** ACER Keyboard+Mouse+Receiver Logitech Keyboard Mouse+Receiver **USB Camera:** Petaex optixo 330 **USB CCD:** Intel YC72 Dlin DSC 350 USB CCD Dlink WebCam DSB-C300 Lotitech QuicCam Home Creative WebCam **USB HDD:** HD530 Tested to comply with FCC Standards **USB Printer:** HP DeskJet 930C HP DeskJet 840C **USB Multi-Function Machine:** HP2110C **USB FDD:** Teac USB FDD Acer Y-E Data USB FDD MIC USB FDD YD-8U10 Logitec USB FDD **USB Handy Drive:** USB Drive 128MB Apacer HandyDrive 256MB **USB LAN:** Buffalo USB-10/100Methernet Billionton USB-10/100 FastEthernet USB-100B **USB Modem:** USB Cmmunicator JATON K56/V.90 Fax/Modem **USB Zip:** IOMEGA USB ZIP 250 IOMEGA USB ZIP 100

Item	Specifications
	USB Scanner: HP ScanJet 5300c HP ScanJet 5200c **USB Speaker:** Philips USB Speaker Dss330 Philips USB Speaker (DIGITAL Speaker System) **USB HUB:** PCI_USB HUB/UH-400 USB HUB NET \UH-124 **USB to Serial Adapter:** USB to serial Adapter UB-75 **USB Gamepad:** Microsoft Sidewider Precision Pro Logitech WingMan FORMULA FORCE Logitech WingMan GAMEPAD EXTREME **USB Card Reader:** CARRY 6 in 1 card reader Pro Compact Flash Card Reader Iwill 6 in 1 card reader
GB LAN	3COM Super Stack II \ 3C16611 24 port
LAN Hub	Logitech WingMan GAMEPAD EXTREME Accton CheetahSwitch Workgroup-3008A Cnet 8 Port Switch NETVIN 5-Port Switch
S-Video	**TV:** SONY Trinitron 14”\PVM-14M4U Dell \2000FP
PC Card	**Modem Card:** 3Com 56K Modem (3CXM756) Gold Card Glabal 56K+Fax Billionton 56K Modem (FM56C-BF) **16bit LAN Card:** 3COM 10M CardBus LAN Card (3CCFE589ET) D-Link Fast Ethernet DFE-650 ACCTON EN2228 **32bit LAN Card:** D-Link CardBus DFE-660 Xircom CreditCard Ethernet 10/100 (CE3B-100) Pci_ Fast Ethernet Card FNW-3602-TX Linksys EtherFast PC Card PCM100 **CardBus LAN Card:** 3COM 10/100 CardBus LAN Card (3CCFE575CT) Xircom CardBus Ethernet II 10/100 (CBE2-100) **SCSI:** Adaptec SlimSCSI APA-1460D Card Adaptec SlimSCSI 1480A CardBus UltraSCSI Card RATOC REX-CB80 LAN + Modem Card: Xircom CreditCard Ethernet + Modem 56k (CEM56-100)

Item	Specifications
PC Cards	**ATA Card:** PCMCIA IDE/ATAPI Controller(FLASH/32MB) **Microdrive:** IBM 340MB Microdrive **Click** IOMEGA Clik! PC CARD DRIVE **Zip Card:** IOMEGA USB ZIP 250 **1394 CardBus Card:** Compaq 1394 CardBus Card VST Fire Wire 1394 CardBus Card **Wireless LAN Card:** CISCO AIRONET 350 SERIES\AIR-PCM350 Wireless LAN Card \ WL-211F **CARD Reader:** Apapter PCMCIA 4 in 1 SONY Memory Stick Card Reader \MSAC-PC2 PQI CF CARD Reader PNY PCMCIA 4 in 1 **MMC Card:** Apacer32MB SanDisk 64MB PQI 64MB **MS Card:** Apacer 128MB SONY Memory Stick 128MB \MSA-128A **SD Card:** Toshiba 128MB Sundisk 128MB
PC Card	**SM Card:** Transcend 128MB SanDisk 128MB **CF Card:** SanDisk 128MB
Audio Jacks	**Speaker:** JS-100 Jazz 3D Speaker SANYO AMPUFIED Speaker System AIWA STEREO SANYO 3D Speaker/OTTO-301 **EarPhone:** AIWA HP-X121 Earphone PHILIPS Earphone Labtec Verse 504 **Microphone:** Labtec LVA-7330 Microphone
Access Point	Intel Wlgw201bak 802.11b Intel 802.11a Intel 802.11a+b SMC wireless Cable/DSL Broadband Router A+G

Item	Specifications
Bluetooth	**PDA:** Fujitsu PDA **Mobile phone:** Sony Ericsson T68 **Mouse & Keyboard:** Microsoft Bluetooth wireless Mouse and keyboard **Printer:** HP Deskjet 450 with Ericsson bluetooth card

Online Support Information

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

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

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

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

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

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

Also contained on this website are:

- Detailed information on Acer's International Traveller'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.