TravelMate2200/2700&Aspire1670

Service Guide

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

PRINTED IN TAIWAN

Revision History

Please refer to the table below for the updates made on TravelMate2200/2700 & Aspire1670 service guide.

Date	Chapter	Updates

Copyright

Disclaimer

The information in this guide is subject to change without notice.

Acer Incorporated makes no representations or warranties, either expressed or implied, with respect to the contents hereof and specifically disclaims any warranties of merchantability or fitness for any particular purpose. Any Acer Incorporated software described in this manual is sold or licensed "as is". Should the programs prove defective following their purchase, the buyer (and not Acer Incorporated, its distributor, or its dealer) assumes the entire cost of all necessary servicing, repair, and any incidental or consequential damages resulting from any defect in the software.

Conventions

The following conventions are used in this manual:

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

Preface

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

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

System Specifications

Features

CPU

- Intel DT/mobile Prescott(2.8G/3.0G/3.2G/3.4G/3.6G)
- Intel Celeron Prescott
- Intel DT/Celeron NW
- Support 533/800MHz FSB
- Support up to 2.8GHz

Chipset

- North Bridge : ATI RC300M
- South Bridge :SB200(IXP150)

Memory

- Socket Type: 184-pin socket.
- Socket Quantity: 2
- Memory Type:DDR-I 333 SDRAM
- Support 128MB, 256MB and 512MB DDR memory technologies
- Upgradeable to 2GB by Dual channels of SODIMM

Graphics

- ATI M11P and M11CL(64/128M) VRAM or UMA(manufacture option)
- Simultaneous display on LCD and CRT
- 3D Windows accelerator
- Supports 15/16/24bbp True Color on LCD&dual view
- Hardware expansion for high resolution LCD
- Support S-Video
- One DDC-2B compliant VGA port(15 pins)

PCMCIA/PCI-E

- PC Card & Cardbus card supported with one type II
- Reserve one Express card space for next generation

ODD

- Support 12.7mm DVD/RW, DVD-ROM, DVD Dual, and DVD super multi
- With LED on the ODD bezel

HDD

- 9.5mm, 2.5”
- Support Ultra DMA 66/100

- Support up to 80GB

Audio

- Chip : AC' 97
- Bulit-in two speakers
- Microphone-in/line-in jack(mono)
- Headphone-out/line-out/speaker-out jack

Display

- 14.1" TFT XGA(SPWG-B)
- 15"TFT XGA, SXGA+(SPWG-B)
- 15.4" Wide WXGA TFT LCD(SPWG-B)

I/O ports

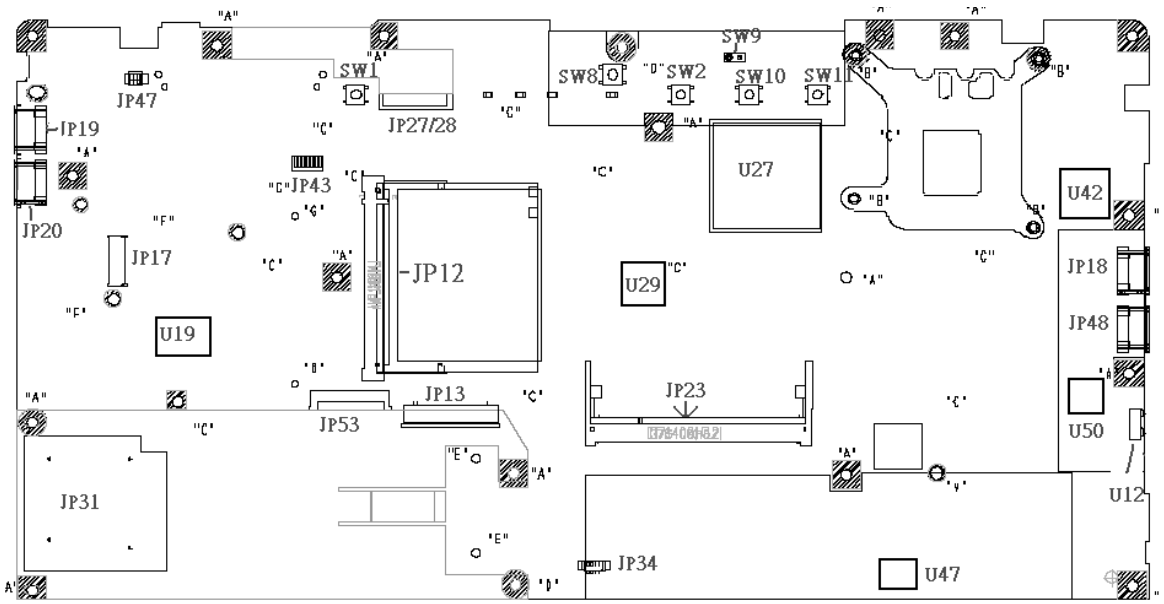
- DDC-2B compliant VGA port
- Microphone-in/line-in jack(mono)
- Headphone-out/line-out/speaker-out jack
- S-Video Out (Manufacturing option with IEEE 1394)
- 4 external USB 2.0 connectors.
- DC-jack
- RJ11 and RJ45
- IEEE 1394 port (Manufacturing option with S-video)
- FIR(IrDA 1.1)
- 5 in 1 card reader slot
- Kensington Lock

BIOS

- Phoenix BIOS
- 512KB Flash BIOS ROM
- ACPI 1.0b compliant

Board Layout

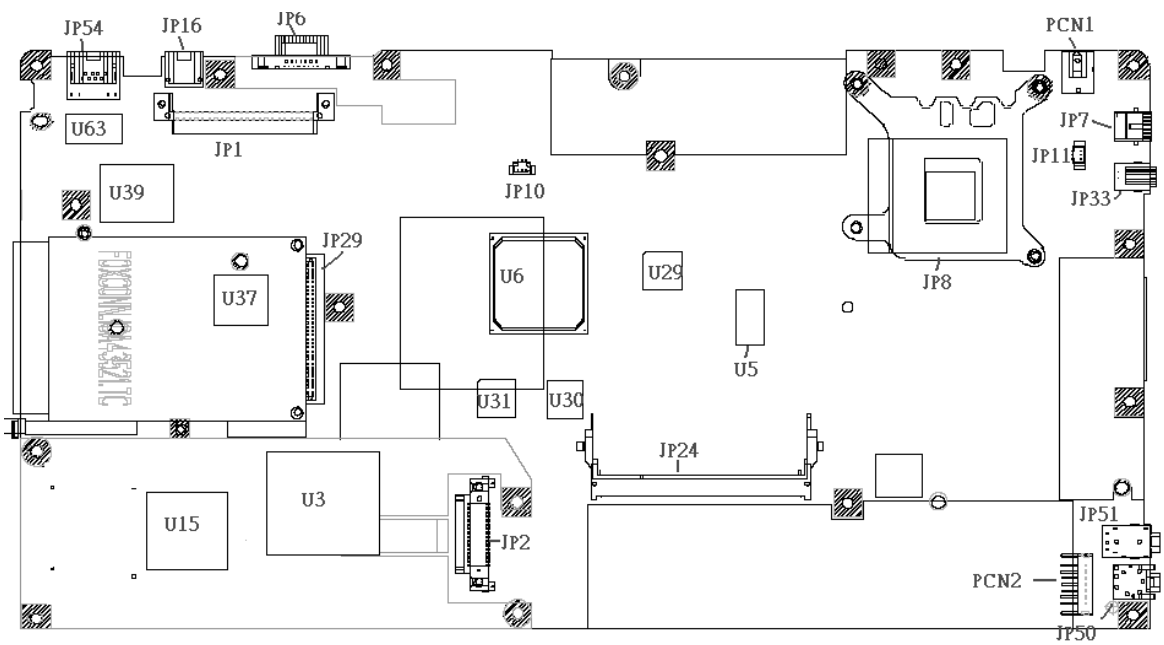
Top View



Label	Component
JP12	MINI PCI CONN
JP13	KBD CONN
JP17	MDC CONN
JP18	USB Connector
JP19	USB Connector
JP20	USB Connector
JP23	DIMM CONN
JP27	UMA LCD Connector
JP28	M11P LCD Connector
JP31	Card reader Connector
JP34	Speaker CONN
JP43	BT Connector
JP53	TP/B Connector
SW1	PWR BTN
SW2	Internet BTN
SW8	E-MAIL BTN
SW9	LID SW BTN
SW10	USER BTN1
SW11	USER BTN2
U12	FIR CONN
U19	ROM CONN
U27	NB Chipset
U29	VRAM Chipset

Label	Component
U42	1394 Chipset
U47	Audio Chipset
U50	Super I/O Chipset

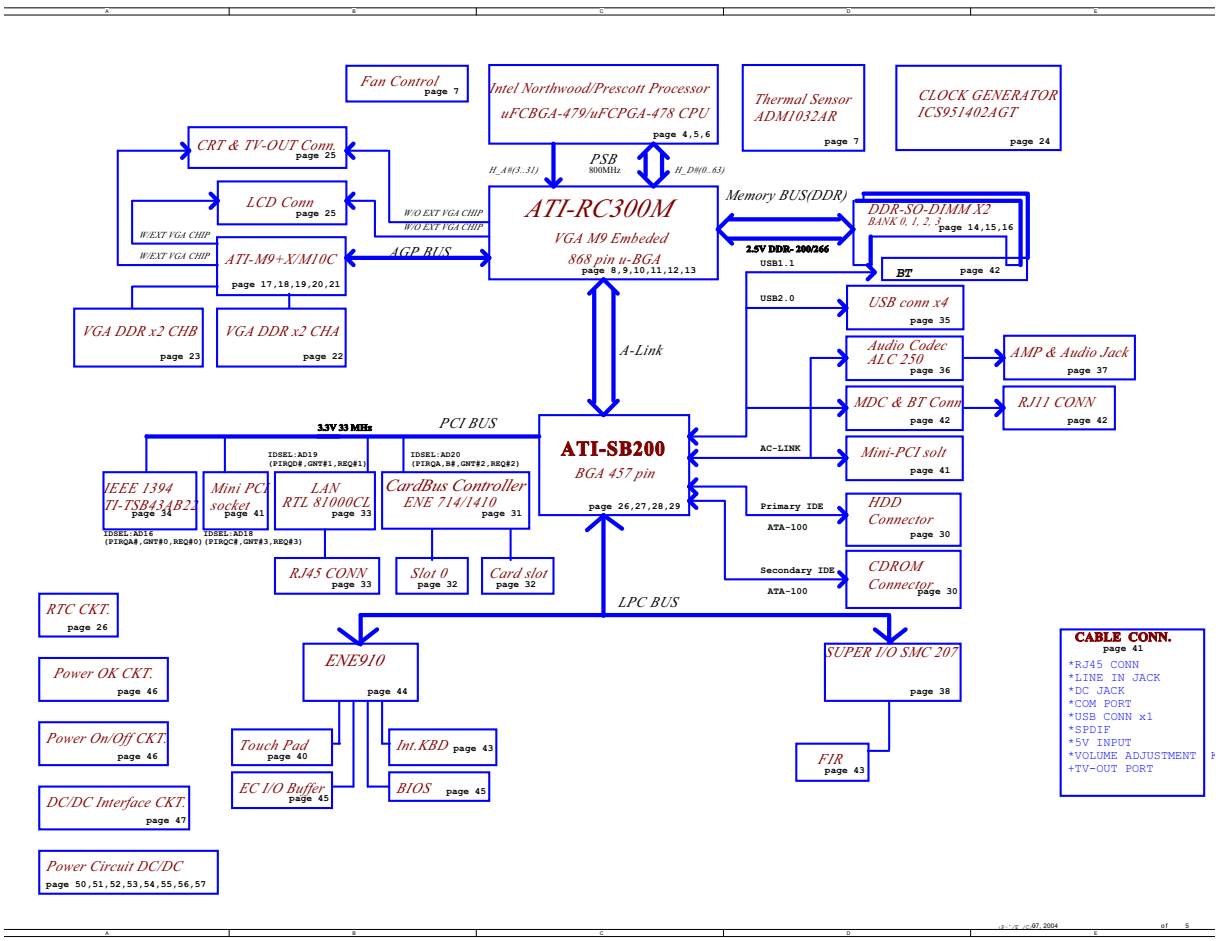
Buttom View



Label	Component
PCN1	PWR JACK
PCN2	BATTERY CONN
JP1	HDD CONN
JP2	ODD CONN
JP6	VGA CONN
JP7	TV-OUT CONN
JP8	CPU SOCKET
JP10	FAN CONN
JP11	FAN CONN
JP16	RJ11 I/O CONN
JP24	DIMM CONN
JP29	Cardbus CONN
JP33	1394 CONN
JP50	MICPHONE JACK
JP54	RJ45 CONN
U3	SB Chipset
U5	CLK GEN Chipset

Label	Component
U6	ATI VGA Chipset
U28	VRAM
U30	VRAM
U31	VRAM
U15	EC Chipset
U37	Card Reader Chipset
U39	LAN Chipset
U63	LAN transformer

System Block Diagram



Outlook View

Open View

TravelMate 2200/2700

Aspire 1670

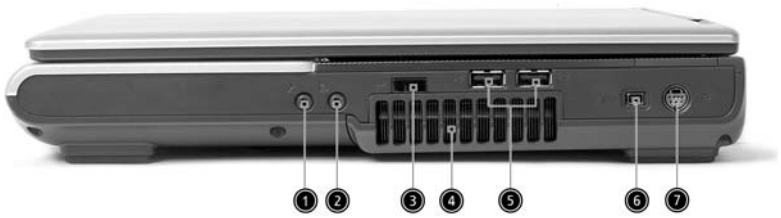
Label	Item	Description
1	Display Screen	Wide screen display provides visual output
2	Launch Keys	Buttons for launching frequently used programs.
3	Status Indicators	LED that turn on and off to show the status of the computer, its functions and components
4	Power Button	Turns on the computer power
5	Keyboard	Inputs datat into your computer
6	Touchpad	Touch-sensitive pointing device which functions like a computer mouse
7	Palmrest	Comfortable support area for your hands when you use the computer
8	Click Buttons (left, center, and right)	The left and right buttons function like the left and right mouse buttons; the center button serves as a 4-way scroll button

Front Panel

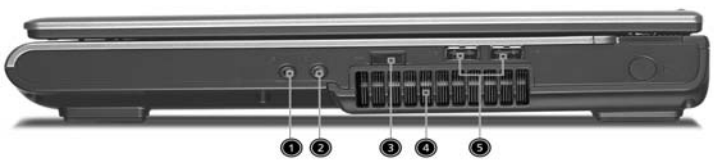
Label	Icon	Item	Description
1	N/A	Speakers	Left and right speakers deliver stereo audio output
2		Power indicator	Lights green when the computer is on and lights reange when the computer is in suspend mode
3		Battery indicator	Lights orange when the battery is being charged and lights green when the battery is full charged
4		Bluetooth communications	Lights to indicate the status of Bluetooth(optional) communications
5		Wireless communications	Lights to indicate the status of wireless LAN(optional) communications
6	N/A	Latch	Locks and releases the lid

Right Panel

Aspire 1670



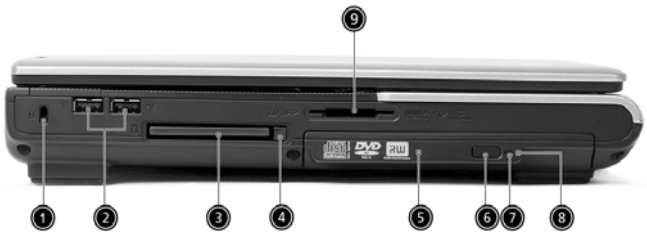
Label	Icon	Item	Description
1		Line-in/Mic-in jack	Accepts audio line-in devices
2		Speaker/Line-Out/ Headphone jack	Connects to audio line-out devices
3		Infrared port	Interfaces with infrared devices
4	N/A	Ventilation slots	Enable the computer to stay cool, even after prolonged use
5		Two USB 2.0 ports	Connect to Universal Serial Bus 2.0 devices
6	1394	IEEE 1394 port	Connects to IEEE1394 devices
7	S	S-video port	Connects to a television or display device with S-video input



Label	Icon	Item	Description
1		Line-in/Mic-in jack	Accepts audio line-in devices
2		Speaker/Line-Out/ Headphone jack	Connects to audio line-out devices
3		Infrared port	Interfaces with infrared devices
4	N/A	Ventilation slots	Enable the computer to stay cool, even after prolonged use
5		Two USB 2.0 ports	Connect to Universal Serial Bus 2.0 devices

Left Panel

Aspire 1670



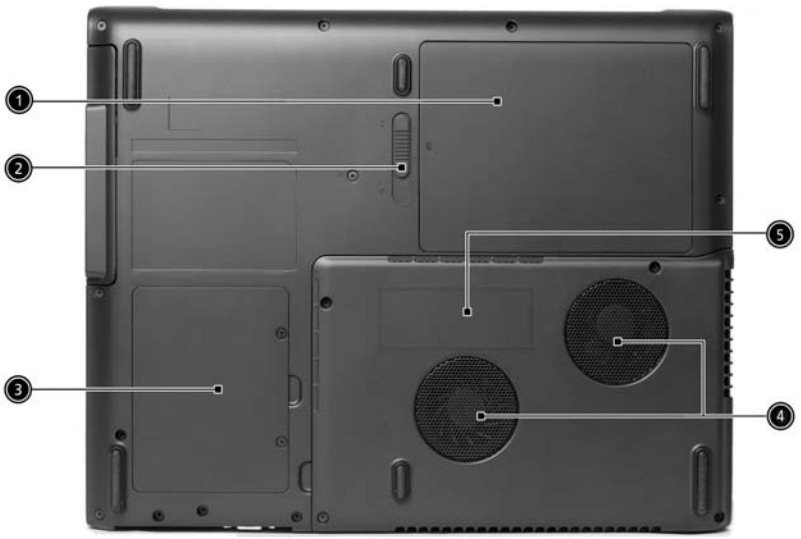
Label	Icon	Item	Description
1		Security keylock	Connects to a Kensington-compatible computer security lock
2		Two USB 2.0 ports	Connect to Universal Serial Bus(USB)2.0 devices
3		PC Card slots	Support one Type II CardBus PC Card
4	N/A	Eject Button	Ejects the PC Card(s) from the slot
5	N/A	Optical drive	Internal optical drive; accepts CDs or DVDs depending on the optical drive type
6	N/A	Eject button	Ejects the optical drive tray from the drive
7	N/A	LED indicator	Lights up when the optical drive is active
8	N/A	Emergency eject slot	Ejects the optical deive tray when the computer is turned off
9	N/A	5-in-1 card reader	Accepts SD/MMC/SM/xD/MS Pro card.Note: The 5-in-1 card reader is a manufacturing option, subject to configuration. Only one card can operate at any given time

Label	Icon	Item	Description
1		Security keylock	Connects to a Kensington-compatible computer security lock
2		Two USB 2.0 ports	Connect to Universal Serial Bus(USB)2.0 devices
3		PC Card slots	Support one Type II CardBus PC Card
4	N/A	Eject Button	Ejects the PC Card(s) from the slot
5	N/A	Optical drive	Internal optical drive; accepts CDs or DVDs depending on the optical drive type
6	N/A	LED indicator	Lights up when the optical drive is active
7	N/A	Eject button	Ejects the optical drive tray from the drive
8	N/A	Emergency eject slot	Ejects the optical deive tray when the computer is turned off

Rear Panel

Label	Icon	Item	Description
1		Power jack	Connects to an AC adapter
2	N/A	Ventilation	Enable the computer to stay cool, even after prolonged usd
3		External display port	Connects to a display device
4		Modem jack	Connects to a phone line
5		Network jack	Connects to an Ethernet LAN network

Bottom Panel



Label	Item	Description
1	Battery bay	Houses the computer's battery pack
2	Battery release latch	Unlatches to remove the battery pack
3	Hard disk bay	Houses the computer's hard disk
4	Cooling fans	Help keep the computer cool Note:Don't cover or obstruct the opening of the fans
5	Memory compartment	Houses the computer's main memory

Indicators

Label	Icon	Item	Description
1		Media activity	Lights when the hard disk or optical drive is active
2		Caps Lock	Lights when Caps Lock is activated
3		Num Lock	Lights when Num Lock is activated

In addition, there are two indicators at the front panel. Even when the cover is closed, the state or features can still be seen.

Label	Icon	Item	Description
4		Power	Lights green when the computer is on and lights orange when in suspend mode
5		Battery indicator	Lights orange when the battery is being charged and green when the battery is fully charged

Using the Keyboard

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

Lock keys

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

Aspire 1670

TravelMate 2200/2700

Lock Key	Description
Caps Lock	When Caps Lock is on, all alphabetic characters typed are in uppercase
Num Lock (**Fn-F11**)	When Num Lock is on, the embedded keypad is in numeric mode. The keys function as a calculator(complete with the arithmetic operators +,-,*, and/). Use this mode when you need to do a lot of numeric data entry. A better solution would be to connect an external keypad.
Scroll Lock (**Fn-F12**)	When Scroll Lock is on, the screen moves on line up or down when you press the up or down arrow keys respectively.Scroll Lock does not work with some applications

Embedded numeric keypad

The embedded numeric keypad functions like a desktop numeric keypad. It is indicated by small characters located on the upper right corner of the keycaps. To simplify the keyboard legend, cursor-control key symbols are not printed on the keys.

Aspire 1670

TravelMate 2200/2700

Desired Access	Num Lock On	Num Lock Off
Number keys on embedded keypad	Type numbers in a normal manner	
Cursor-control keys on embedded keypad	Hold Shift while using cursor-control keys	Hold **Fn** while using cursor-control keys
Main keyboard keys	Hold Fn while typing letters on embedded keypad	Type the letters in a normal manner

Windows keys

Aspire 1670

TravelMate 2200/2700

Windows logo key	Pressed alone, this key has the same effect as clicking on the Windows Start button; it launches the Start menu. It can also be used with other keys to provide a variety of functions: + Tab (Activates the next Taskbar button) + E (Opens the My Computer window) + F1 (opens Help and Support) + F (opens the Find: All Files dialog box) + M (minimizes all windows) SHIFT + Windows logo key + M (undoes the minimize all windows action) + R (opens 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 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.

Aspire 1670

Hot Key	Icon	Item	Description
Fn+F1	?	Hot key help	This key will cause a help message to appear on the display device that describes the definition and functionality of the unit hot keys. It is preferred to have the key activate a graphical display.
Fn+F2		Acer eSetting	Launches the Acer eSetting in the Acer eManager set by the Acer Empowering Key.
Fn+F3		Acer ePower Management	Launches the Acer ePower Management in the Acer eManager set by the Acer Empowering Key.
Fn+F4	z z	Sleep	Puts the computer in Sleep mode
Fn+F5		Display toggle	Switches display output between the display screen, external monitor(if connected)and both the display screen and external nomitor
Fn+F6		Screen blank	Turns the display screen backlight off to save power. Press any key to return
Fn+F7		Touchpad toggle	Turns the internal touchpad on and off
Fn+F8		Speaker toggle	Turns the speakers on and off
Fn+		Volume up	Increases the sound volume
Fn+		Volume down	Decreases the sound volume
Fn+		Brightness up	Increases the screen brightness
Fn+		Brightness down	Decrease the screen brightness
Fn+Home		PlayPause	Press to start playing the audio track or video file. Press again to pause

Hot Key	Icon	Item	Description
Fn+Pg Up		Stop	Preww to stop playing the audio track or video file
Fn+Pg Dn		Backwards	Press to skip backward to the previous track or video file and start playing
Fn+End		Forward	Press to skip forward to the next track or video file

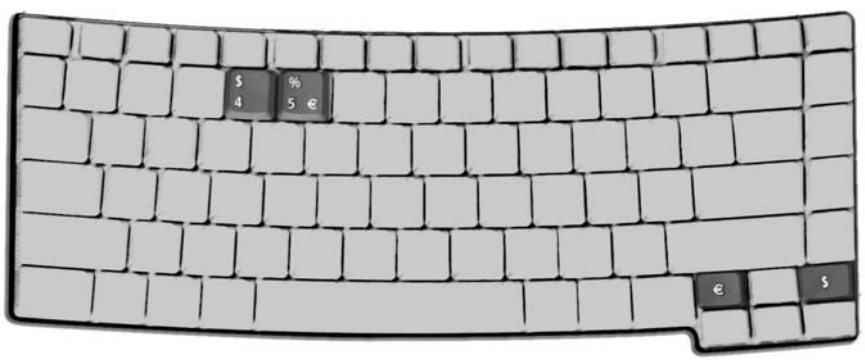
Hot Key	Icon	Item	Description
Fn+F1	?	Hot key help	This key will cause a help message to appear on the display device that describes the definition and functionality of the unit hot keys. It is preferred to have the key activate a graphical display.
Fn+F2		Acer eSetting	Launches the Acer eSetting in the Acer eManager set by the Acer Empowering Key.
Fn+F3		Acer ePower Management	Launches the Acer ePower Management in the Acer eManager set by the Acer Empowering Key.
Fn+F4	z z	Sleep	Puts the computer in Sleep mode
Fn+F5		Display toggle	Switches display output between the display screen, external monitor(if connected)and both the display screen and external nomitor
Fn+F6		Screen blank	Turns the display screen backlight off to save power. Press any key to return
Fn+F7		Touchpad toggle	Turns the internal touchpad on and off

Hot Key	Icon	Item	Description
Fn+F8		Speaker toggle	Turns the speakers on and off
Fn+↑		Volume up	Increases the sound volume
Fn+↓		Volume down	Decreases the sound volume
Fn+→		Brightness up	Increases the screen brightness
Fn+←		Brightness down	Decrease the screen brightness
Alt Gr+$		US dollar	Types the US dollar sign
Alt Gr+Euro		Euro	Types the Euro symbol

Special Keys

Aspire 1670

TravelMate 2200/2700



The Euro symbol

1. Open a text editor or word processor.
2. Either directly press the **Euro** symbol at the bottom-right of the keyboard, or hold **Alt Gr** and then press the **Euro** symbol at the upper-center of the keyboard.

The US dollar sign

1. Open a text editor or word processor.
2. Either directly press the **dollar** sign at the bottom-right of the keyboard , or hold **Alt Gr** and then press the **dollar** sign at the opper-center of the keyboard.

Note: This function varies by the operating system version.

Launch Keys

Located at theupper-right above the keyboard are four buttons, These buttons are called launch keys. They are designated as the mail, Web browser, Empowering and programmable keys.

Press the Acer Empowering Key to run the Acer eManager. The mail and Web browser are default for Email and Internet programs, but can be reset by users. To set the mail, Web browser and programmable keys, run the Acer Launch Manager.

Label	Launch Key	Specification
1	Email	Launches your email application
2	Web browser	Launches your internet browser
3	e	Acer eManager application(User-programmable)
4	p	User-programmable

In addition, there are rwo launch keys at the front panet. Even when the cover is closed, you can easily access the features of Wireless and Bluetooth. However, the Wireless and Bluetooth keys cannot be reset by users.

Launch Key	Icon	Specification
Bluetooth communications		Enables your Bluetooth.(optional)
Wireless communications		Enables your 802.11b/g Wireless LAN.(optional)

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 4-way scrolling in documents and web pages.

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

Touchpad basics

Use the touchpad as follows:

- Slide your finger over the surface of the touchpad 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, bottom to scroll down; left to scroll left, and right to scroll right.

Function	Left Button	Right Button	Scroll Button	Tap
Execute	Click twice quickly			Tap twice quickly
Select	Click once			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.

Function	Left Button	Right Button	Scroll Button	Tap
Access content menu		Click once.		
Scroll			Click and hold the up/down/ left/right button	

Note: Keep your finger, as well as the surface of the touchpad, clean and dry. The touchpad is sensitive to your finger movements: the lighter your touch, the better the response. Tapping fard will not increase the touchpad's responsiveness.

Hardware Specifications and Configurations

Processor

Item	Specification
CPU type	Intel Pentium4 processors 2.8/3.0/3.2/3.4/3.6 GHz or Intel Celeron processors 2.6 GHz and above
CPU package	PGA 478 package
CPU core voltage	1.25V-1.525V
CPU I/O voltage	1.05V

BIOS

Item	Specification
BIOS vendor	Phoenix
BIOS Version	V0.08
BIOS ROM type	Flash ROM
BIOS ROM size	512KB
BIOS package	PLCC32
BIOS Support Protocol	ACPI 1.0b/2.0, PCI 2.2, PnP BIOS 1.0a SMBIOS 2.3.1 WFM2.0, Intel AC97 CNR Specification, IrDA1.0, USB Specification 1.1/ 2.0PCMCIA 3.0 compliant, PC 99a and Mobile PC2001 compliant, Simple Boot Flag 1.0
BIOS password control	Set by setup manual

Second Level Cache

Item	Specification
Cache controller	Intel CPU
Cache size	1M to 512K
1st level cache control	Always enabled
2nd level cache control	Always enabled
Cache scheme control	Always enabled

System Memory

Item	Specification
Memory controller	ATI RC300M
Memory size	256MB/512MB
DIMM socket number	2 slots
Supports memory size per slot	1024MB
Supports maximum memory size	2GB (by two 1024MB SO-DIMM module)
Supports DIMM type	DDR Synchronous DRAM
Supports DIMM Speed	333MHz
Supports DIMM voltage	2.5V/1.25V
Supports DIMM package	200-pin SODIMM
Memory module combinations	You can install memory modules in any combinations as long as they match the above specifications.

Memory Combinations

Slot 1	Slot 2	Total Memory
256/512MB	0 MB	256MB/512MB
256/512MB	256MB	512MB/768MB
256/512MB	512MB	768MB/1024MB

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

.

LAN Interface

Item	Specification
Chipset	RTL 8100CL
Supports LAN protocol	10/100 Mbps and Giga LAN on board(manufacture option)
LAN connector type	RJ45
LAN connector location	Rear side
PXE version	V2.13

.

Modem / Bluethooth Interface

Item	Specification
Data modem data baud rate (bps)	56K
Supports modem/bluetooth protocol	V.90/V.92 AC-Link modem card (MDC)
Modem connector type	RJ11
Modem connector location	Rear side

Hard Disk Drive Interface

Item	Specification			
Vendor & Model Name	Hitachi HTS424030M9AT00 HTS424040M9AT00 IC25N060ATMR04-0 IC25N080ATMR04-0	Toshiba MK3025GAS MK4025GAS MK6025GAS MK8025GAS	FUJITSU FUJITSU MHT2060AT FUJITSU MHT2080AT	SEAGATE ST94019A
Capacity (GB)	30/40/60/80	30/40/60/80	60/80	40
Bytes per sector	512	512	512	512
Data heads	2/2/3/4	2/2/3/4	3/4	2
Drive Format				
Disks	1/1/2/2	1/1/2/2	2/2	1
Spindle speed (RPM)	4200	4200	4200	4200
Performance Specifications				
Buffer size	2/2/8/8	8	2	2
Interface	ATA 100	ATA 100	ATA 100	ATA 100

Hard Disk Drive Interface

Item	Specification			
Max. media transfer rate (disk-buffer, Mbytes/s)	46.5 46.5 46.5 46.5	42.8	41.3	48.2
Data transfer rate (host~buffer, Mbytes/s)	100	100	100	100
DC Power Requirements				
Voltage tolerance	5V+/-5%	5V+/-5%	5V+/-5%	5V+/-5%

Combo Drive Interface

Item	Specification
Vendor & model name	QSI SBW-242C LiteOn SOSC-2483K KME UJDA-760 HLDS GCC-4243N ATek TSB24H1
Performance Specification	
Transfer rate (KB/sec) (1) Read DVD-ROM CD-ROM (2) Write CD-R CD-RW (3) ATAPI Interface PIO mode Ultra DMA mode	 24x 8x 24x 24x 16.6MB/s 33MB/s
Buffer Memory	2MB
Interface	ATAPI
Applicable disc format	DVD
Loading mechanism	Tray
Power Requirement	9W(Maximum)
Input Voltage	5V+/-5%

DVD Dual/Super Multi Interface

Item	Specification
Vendor & model name	QSI SDW-042 LiteOn SOSW-852S Pioneer DVR-K14RA KME UJ-830B HLDS GSA-4080N
Performance Specification	
Transfer rate (KB/sec) (1) Read DVD-ROM CD-ROM (2) Write CD-R CD-RW (3) ATAPI Interface PIO mode Ultra DMA mode	 8x 24x 24x 10x 16.6MB/s 33MB/s
Buffer Memory	2MB
Interface	ATAPI
Applicable disc format	CD-ROM/CD-R/CD-RW/DVD-ROM/DVD+R/DVD+RW/DVD-R/DVD-RW/DVD-RAM
Loading mechanism	Tray
Power Requirement	9.5W(Maximum)
Input Voltage	5V+/-5%

Audio Interface

Item	Specification
Audio Controller	Realtek ALC250, AC97 Codec
Audio onboard or optional	Built-in
Mono or Stereo	Stereo
Resolution	20 bit stereo Digital to analog converter 18 bit stereo Analog to Ditial converter
Compatibility	Microsoft PC99/2001, AC97 2.3 & WHQL/WLP2.0
Mixed sound source	CD
Sampling rate	48 KHz
Internal microphone	No
Internal speaker / Quantity	Yes / 2

Video Interface

Item	Specification
Chipset	ATI Mobility RADEON 9000 IGP
package	BGA748
interface	AGP Bus 8x
Supports ZV(Zoomed Video) port	No

Video Memory

Item	Specification
Chipset	ATI Mobility RADEON 9000 IGP
Memory size	64MB VRAM or UMA
Interface	DDR

USB Port

Item	Specification
Chipset	ATI SB200
USB compliancy level	2.0
OHCI	USB 2.0
Number of USB port	4
Location	Left side and right side

IEEE 1394 Port

Item	Specification
Chipset	TI-TSB43AB22
Number of IEEE 1394 port	1
Location	right side
Connector type	IEEE 1394

PCMCIA Port

Item	Specification
PCMCIA controller	ENE 714/1410
Supports card type	Type II
Number of slots	One type-II
Access location	left Side
Supports ZV (Zoomed Video) port	No
Supports 32 bit CardBus	Yes

System Board Major Chips

Item	Controller
System core logic	ATI RC300M+SB200(IXP150)
Super I/O controller	SMSC 207, LPC interface
Audio controller	Realtek ALC250 Codec
Video controller	ATI M11p/M11CL/UMA
Hard disk drive controller	ATI SB200
Keyboard controller	ENE 910
RTC	ATI SB200
USB 2.0	ATI SB200
MODEM	Agere Scorpio-I + CSP 1037B

System Board Major Chips

Item	Controller
Wireless 802.11b/g	Inprocomm IPN2220
PCMCIA	CB714B
5-in-1 card reader	CB714B

Keyboard

Item	Specification
Keyboard controller	ENE KB910
Keyboard vendor & model name	Standard keyboard w/o launch button embeded
Total number of keypads	85 keys(US),86 keys(EU), 89 keys(JP)
Windows logo key	Yes
Internal & external keyboard work simultaneously	Yes

Battery

Item	Specification
Vendor & model name	Sony/Sanyo
Battery Type	Li-ion
Pack capacity	59/63Wh
Cell voltage	3.7V
Number of battery cell	8
Package configuration	
Pin 1 Pin 2	BATT+
Pin 3	TS
Pin 4	SMD
Pin 5	SMC
Pin 6 Pin 7	GND

LCD

Item	Specification	
Vendor & model name	AU B141XG05	CMO N141XB-L01
Screen Diagonal (mm)	357(14.1inch)	14inch
Active Area (mm)	285.7(H)x214.3(V)	285.7(H)x214.3(V)
Display resolution (pixels)	XGA (1024x768)	XGA (1024x768)
Pixel Pitch	0.279(H)x0.279(H)mm	0.279(H)x0.279(H)mm
Pixel Arrangement	RGB vertical stripe	RGB vertical stripe
Display Mode	Normally white	Normally white
Typical White Luminance (cd/m^2) also called Brightness	150	130(min)/160(typ)

LCD

Item	Specification	
Luminance Uniformity	1.2(5 points) 1.5(13 points)	not show
Contrast Ratio	250 (min)/ 300 (typ)	300(min)/450(typ)
Response Time (Optical Rise Time/Fall Time)msec	15/10	6/17(typ) 10/25(max)
Nominal Input Voltage VDD	+3.3V	not show
Typical Power Consumption (watt)	5.3	4.03 (for backlight unit)
Weight	400g (w/o inverter)	420
Physical Size(mm)	299(W)x228(H)x5.5(D)	299(W)x228(H)x5.2(D)
Electrical Interface	R/G/B Data, 3Sync, Signals, Clock (4 pairs LVDS)	1 channel LVDS
Support Color	Native 262K colours	262K colours
Viewing Angle (degree) Horizontal: Right/Left Vertial: Upper/Lower	 45/45 15/35	 45/45 15/35
Temperature Range(° C) Operating Storage (shipping)	 0 to 50 -20 to -60	 0 to 50 -20 to -60

LCD Inverter

Item	Specification
Vendor & model name	14.1 and 15.0° DELTA DAC-07B037 A DELTA DAC-07B038 A SUMIDA TWS-442-172 YEC YNV-C01 15.4° DELTA DAC-07B035A SUMIDA TWS-442-174 DELTA DAC-09B017 YEC YNV-C02
Brightness conditions	Duty 30~100%
Input voltage (V)	9~21V
Input current (mA)	330mA typ
Output voltage (V, rms)	650Vrms typ
Output current (mA, rms)	3.0~6.0mA
Output voltage frequency (k Hz)	45~65KHz

AC Adaptor

Item	Specification
Input rating	100 ~ 240VAC, 47Hz to 63Hz
Maximum input AC current	2.2A Max@90V/50Hz
Inrush current	220A@240VAC
Efficiency	83% min. @115VAC input full load

System Power Management

ACPI mode	Power Management
Mech. Off (G3)	All devices in the system are turned off completely.
Soft Off (G2/S5)	OS initiated shutdown. All devices in the system are turned off completely.
Working (G0/S0)	Individual devices such as the CPU and hard disc may be power managed in this state.
Suspend to RAM (S3)	CPU set Power Down VGA Suspend PCMCIA Suspend Audio Power Down Hard Disk Power Down CD-ROM Power Down Super I/O Low Power mode
Save to Disk (S4)	Also called Hibernate state. System saves all system states and data onto the disc prior to power off the whole system.

Power Management Function (ACPI support function)

Device Standby Mode

- Independent power management timer for hard disk drive devices (0-15 minutes, time step=1 minute).
- Hard disk drive goes into Standby mode (for ATA standard interface).
- Disable V-sync to control the VESA DPMS monitor.
- Resume method: device activated (Keyboard for DOS, keyboard & mouse for Windows).
- Resume recovery time: 3-5 sec.

Global Standby Mode

- Global power management timer (2-120 minutes, time step=10 minute).
- Hard disk drive goes into Standby mode (for ATA standard interface).
- Disable H-sync and V-sync signals to control the VESA DPMS monitor.
- Resume method: Return to original state by pushing external switch button, modem ring in, keyboard and mouse for APM mode.
- Resume recovery time: 7-10 sec.

Suspend Mode

- Independent power management timer (2-120 minutes, time step=10 minutes) or pushing external switch button.
- CPU goes into SMM.
- CPU asserts STPCLK# and goes into the Stop Grant State.
- LED on the panel turns amber colour.
- Hard disk drive goes into SLEEP mode (for ATA standard interface).
- Disable H-sync and V-sync signals to control the VESA DPMS monitor.
- Ultra I/O and VGA chip go into power saving mode.
- Resume method: Return to original state by pushing external switch button, modem ring in, keyboard and mouse for APM mode.
- Return to original state by pushing external switch button, modem ring in and USB keyboard for ACPI mode.

ACPI

- ACPI specification 1.0b.
- S0, S1, S3 and S5 sleep state support.
- On board device power management support.
- On board device configuration support.

System Utilities

BIOS Setup Utility

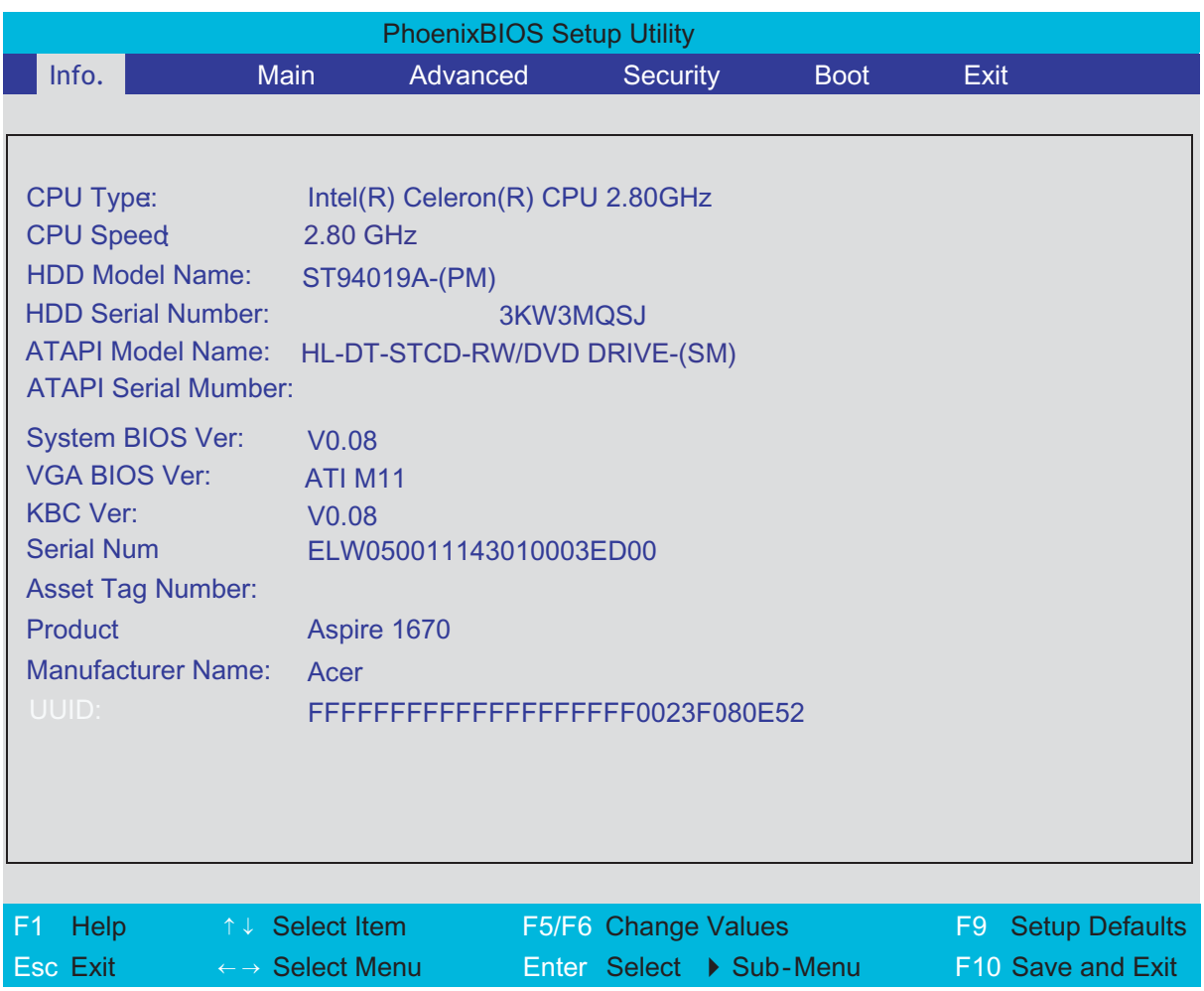
The BIOS Setup Utility is a hardware configuration program built into your computer's BIOS(Basic Input Output System).

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 wheb problem arises.

To activate the BIOS Utility, press F2 during POST(when"Press<F2>to enter Setup"message is prompted on the bottom of screen).

Press F2 to enter setup. The default parameter of F12 Boot Menu is set to "disabled". If you want to change boot device without wntering BIOS Set Utility, please set the parameter to "enabled".

Press<F12> during POST to enter multi-boot menu. In this menu,user can change boot device without entering BIOS SETUP Utility.



Navigating the BIOS Utility

There are six menu options: Info, Main, System, Devices, Security, Boot, and Exit.

Follow these instructions:

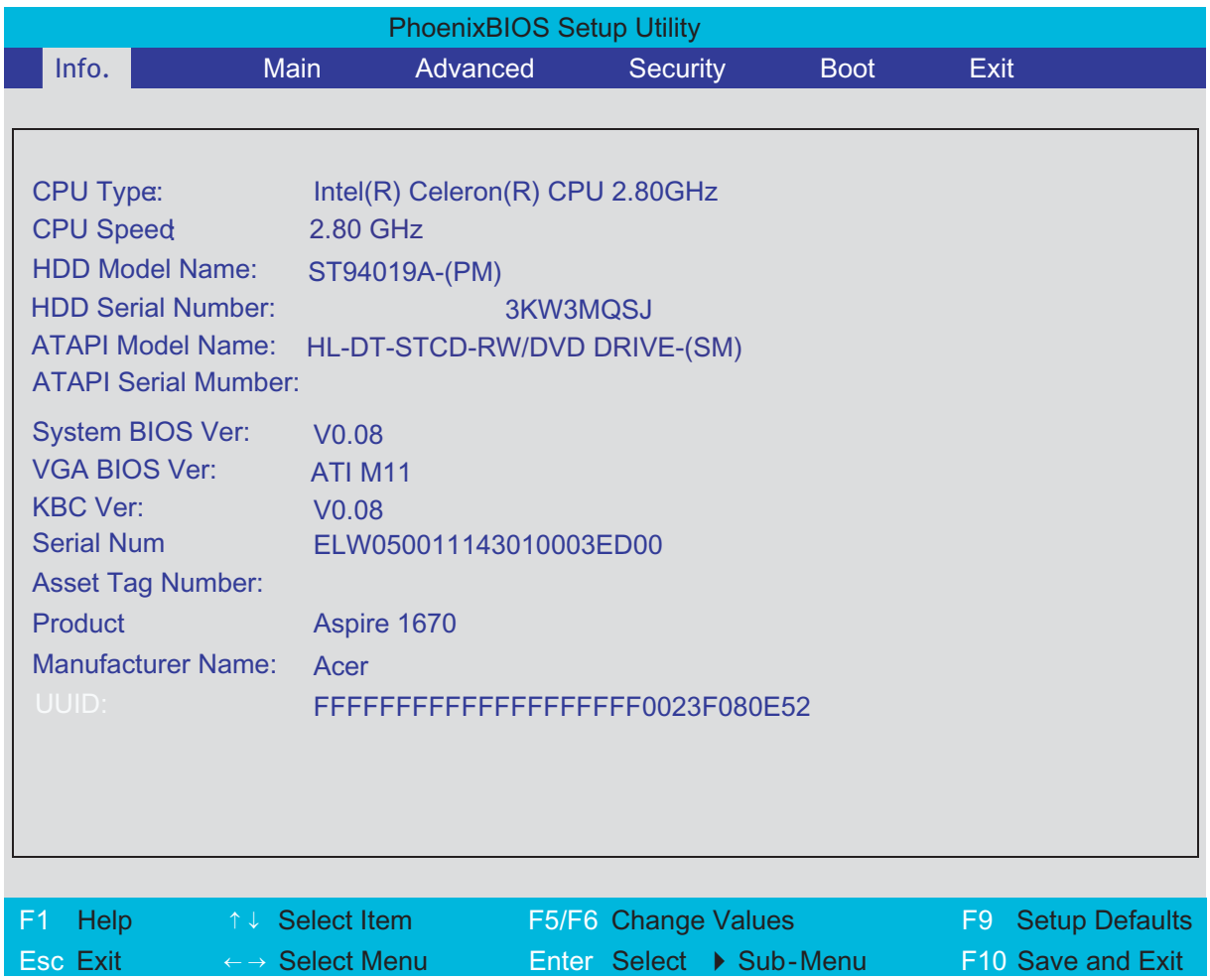
- To choose a parameter, use the cursor up/down keys(↑ or ↓)
- To choose a menu, use the cursor left/right keys(← or →).
- To change the value of a parameter, press F5 or F6
- A plus sign (+) indicates the item has sub-items. Press ENTER to expand this item.
- Press ESC while you are in any of the menu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

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

Information

The screen below appears if you select Product Information from the main menu:

The Product Information menu contains general data about the system, such as the product name, serial number, BIOS version, etc. These information is necessary for troubleshooting (maybe required when asking for technical support).



Note: This system information is subject to different medels.

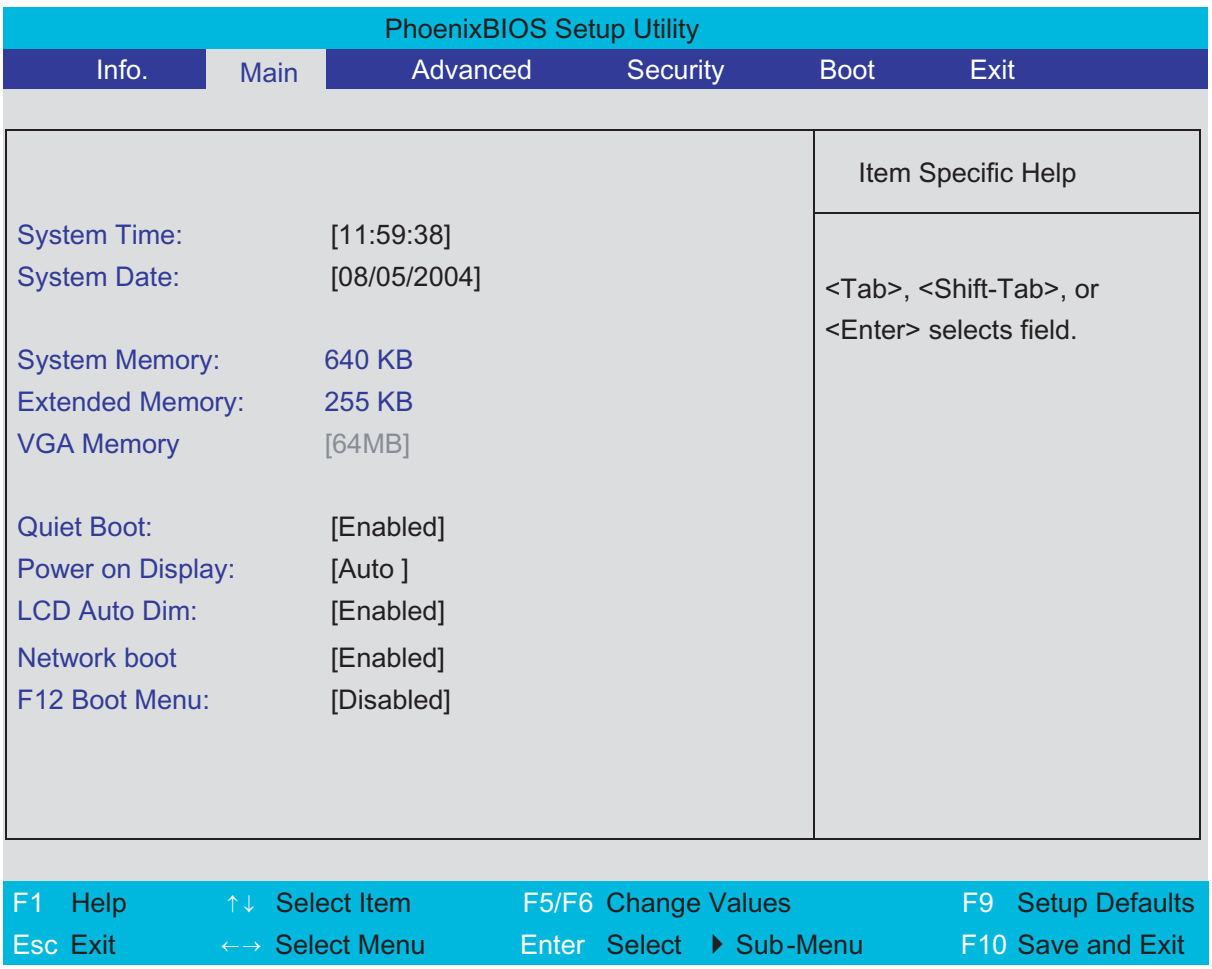
The following table describes the parameters found in this menu:

Parameter	Description
CPU Type/speed	Display CPU type and speed information
HDD Model Name	Display the model name of HDD installed on primary IDE master
HDD Serial Number	Display the serial number of HDD installed on primary IDE master
ATAPI Model Name	This field displays the medel name of devices installed on secondary IDE master. The hard disk drive or optical drive model name is automatically detected by the system
ATAPI Serial Number	Display the seiral number of devices installed on secondary IDE master
System BIOS Ver	Display system BIOS version
VGA BIOS Ver	Display VGA BIOS version
KBC Ver	Display Keyboard controller version

Parameter	Description
Serial Num	Display the serial number of this unit
Asset Tag Number	An Asset Tag with 32 bytes will be stored in EEPROM.
Product/manufacturer Name	Display the product and manufacturer name
UUID	Universal Uinque Identifier. A UUID string will be stored in the secured data area which is an alphanumeric string og Max. 16 bytes in length. This will be visible only when there is an internal LAN device present.

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.



The following table describes the parameters found in this menu. Settings in **boldface** are the default and suggested settings.

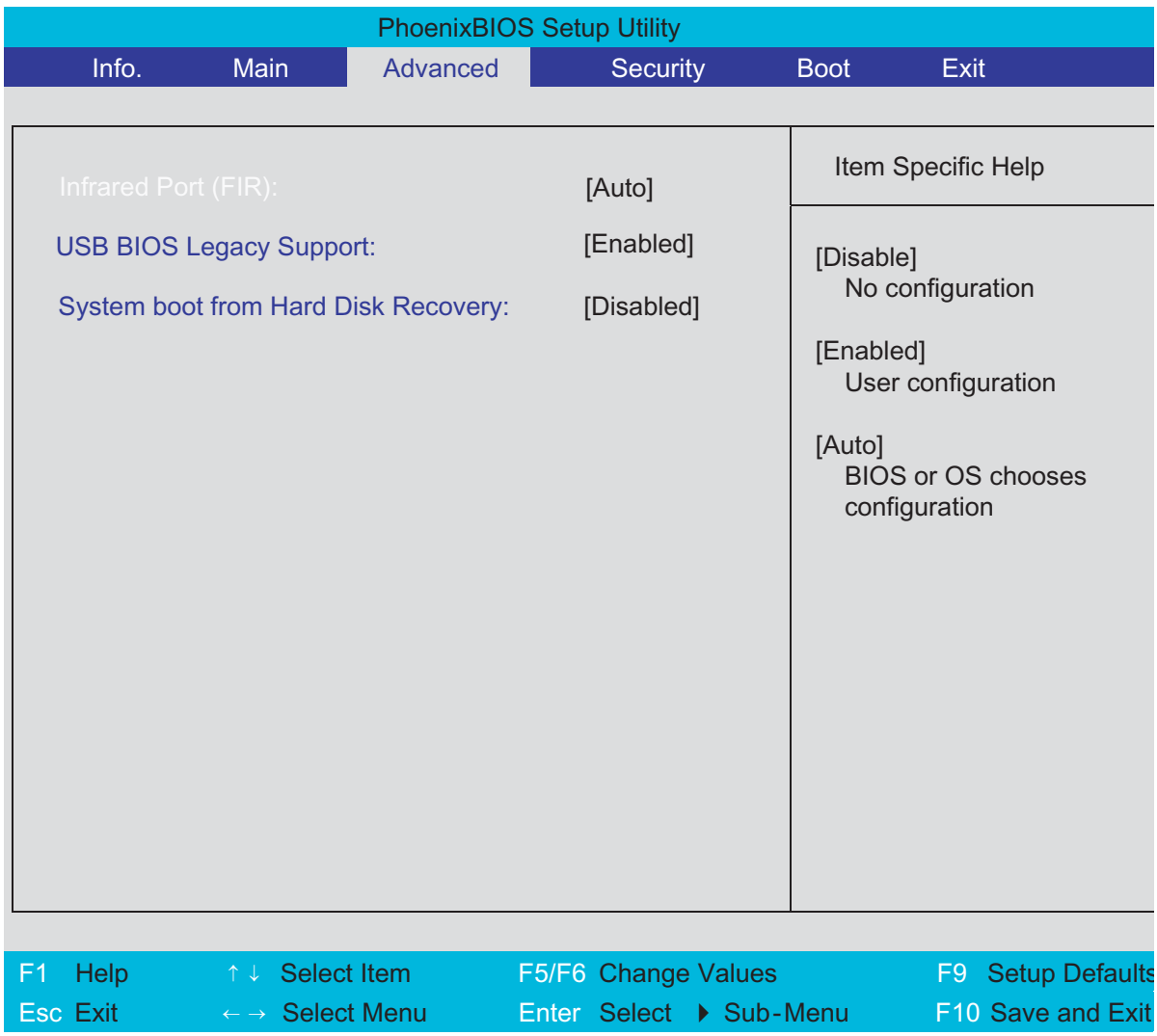
Parameter	Description	Options
System Time	Sets the system time. The hours are displayed with 24-hour format.	Format HH:MM:SS (hour:minute:second)
System Date	Sets the system date	Format MM/DD/YYYY (month/day/year)
System Memory	This field reports the memory size of the system. Memory size is fixed to 640MB	
Extended Memory	This field reports the memory size of the extended memory in the system. Extended Memory size = Total memory size-1MB	
VGA Memory	Shows the VGA memory size. VGA Memory size = 64/128 MB	

Parameter	Description	Options
Quiet Boot	Quiet Boot replaces the customary technical messages during POST with a more visually pleasing and comfortable display(OEM Logo screen). During POST, right after the initialization of VGA, The notebook displays an illustration called the OEM screen during system boot instead of the traditional POST screen that displays the normal diagnostic messages.	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. The system will support and automatic dimming of the LCD back light when the AC power is NOT available(running on battery power)	Option: **Enabled** or Disabled
Network Boot	This feature allows the system to boot off of a LAN when the hard disk is absent or has not been loaded with the operating system.	Option: **Enabled** or Disabled
F12 Boot Menu	Enables, disables Boot Menu during POST	Option: **DIsabled** of 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 following table describes the parameters found in this menu. Settings in **boldface** are the default and suggested settings.

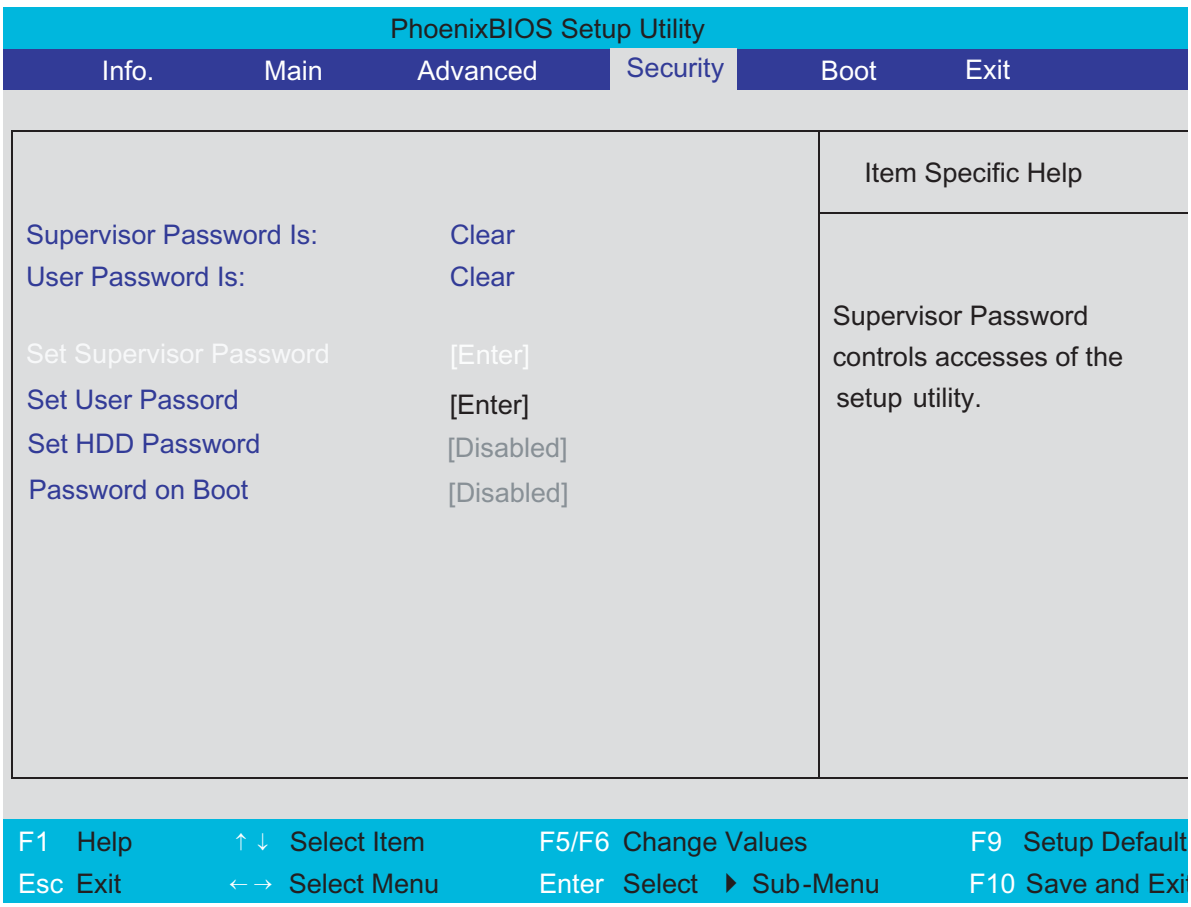
Parameter	Description	Options
Infrared Port(FIR)	Enables, disables or auto detects the infrared port. Disabled: Infrared port is not active Enabled: Infrared port is active and is user configured Auto: BIOS or OS chooses configuration	Disabled Enabled **Auto**
USB BIOS Legacy Support	This feature enables or disables support for USB Keyboard and Mice. (Enable for use with a non-USB award Operating System such as DOS or UNIX)	Disabled **Enabled**

Parameter	Description	Options
System Boot from Hard Disk Recovery	Once the system boot from hard disk recovery is enabled, the boot menu will added D2D recovery item, but it still need user change the boot sequence to first. The system will process the disk to disk recovery step.	**Disabled** Enabled

Security

The advanced chipset features setup option is used to change the values of the chipset registers. These registers control most of the system options in the computer.

NOTE: Change these settings only if you are familiar with the chipset.



Parameter	Description	Option
Supervisor Password Is	Shows the setting of the user password	**Clear** or Set
User Password Is	Shows the setting of the Supervisor password	**Clear** or Set
Set Supervisor Password	Press Enter to set the supervisor password. When set, this password protects the BIOS Setup Utility from unauthorized access. The user can not either enter the Setup menu nor change the value of parameters.	[Enter]
Set User Password	Press Enter to set the user password. When user password is set, this password protects the BIOS Setup Utility from unauthorized access. The user can enter Setup menu only and does not have right to change the value of parameters.	[Enter]

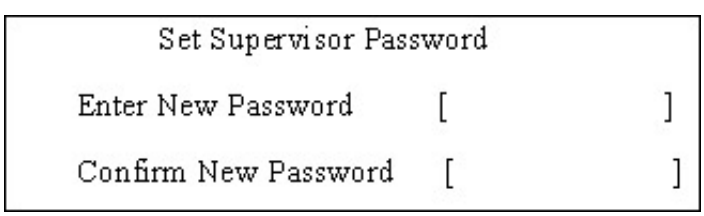
Parameter	Description	Option
Set HDD Password	This feature is available to uwer when Supervisor is set. Password can be written on HDD only when Supervisor password or user password is set and password on HDD is set to enabled. Supervisor Password is written to HDD only when Supervisor password is being set. User password is written to HDD when both passwords are set. When both Supervisor and user passwords are present, both passwords can unlock the HDD.	**Disabled** or Enabled
Password on Boot	Define whether a password is required or not while the events defined in this group happened. The following sub-options are all requires the Supervis or 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.

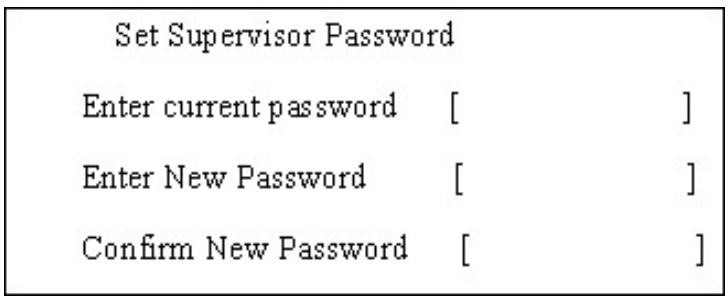
IMPORTANT: Be very careful when typing your password because the characters do not appear on the screen.

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:

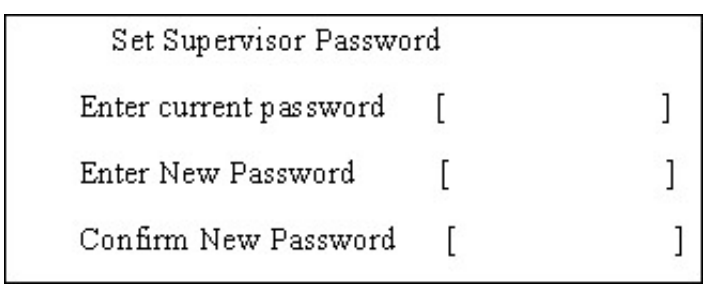
1. Use the ↑ and ↓ keys to highlight the Set Supervisor Password parameter and press the ENTER key. The Set Password box appears:



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.

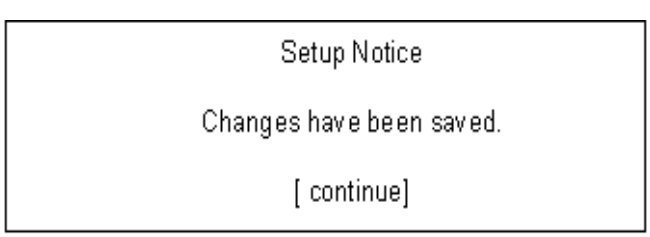
Changing a password

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



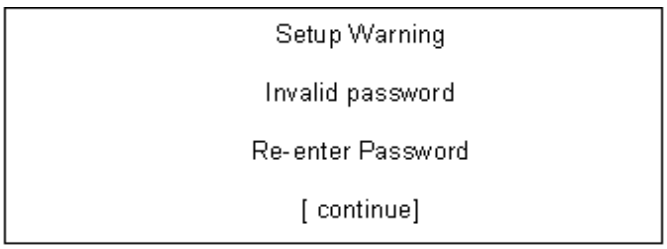
2. Type the current password in the Enter Current Password field and press ENTER.
3. Type a password in the Enter New Password field. Retype the password in the Confirm New Password field.
4. Press ENTER. After setting the password, the computer sets the User Password parameter to “Set”.
5. If desired,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

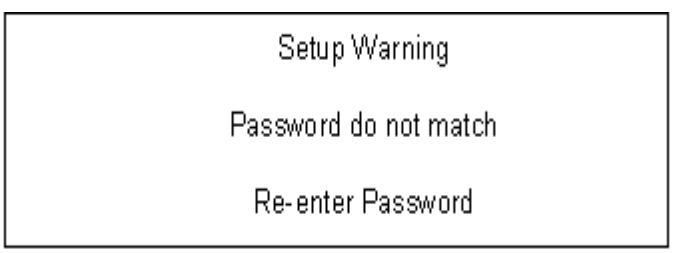


The password setting is complete after the user presses F10.

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

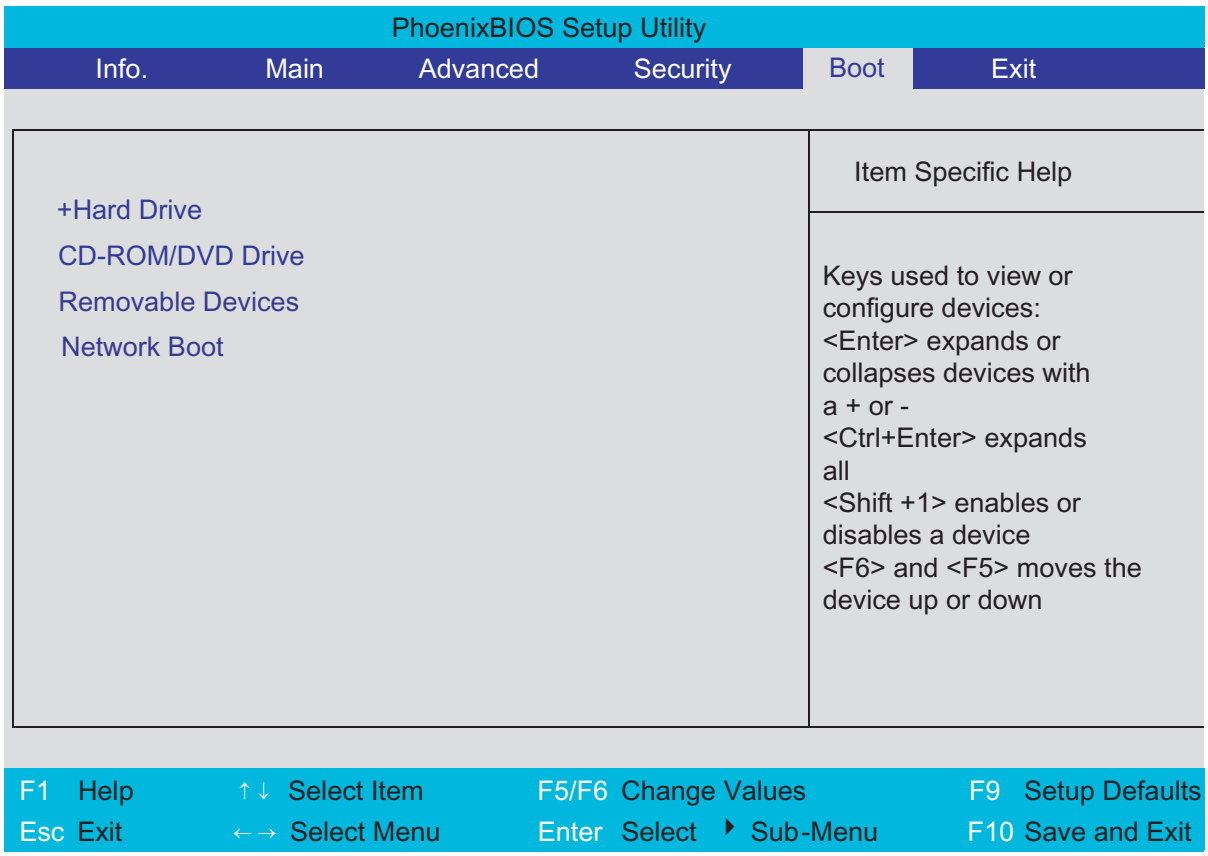


If the new password and confirm new password strings do not match, the screen will display the following message.



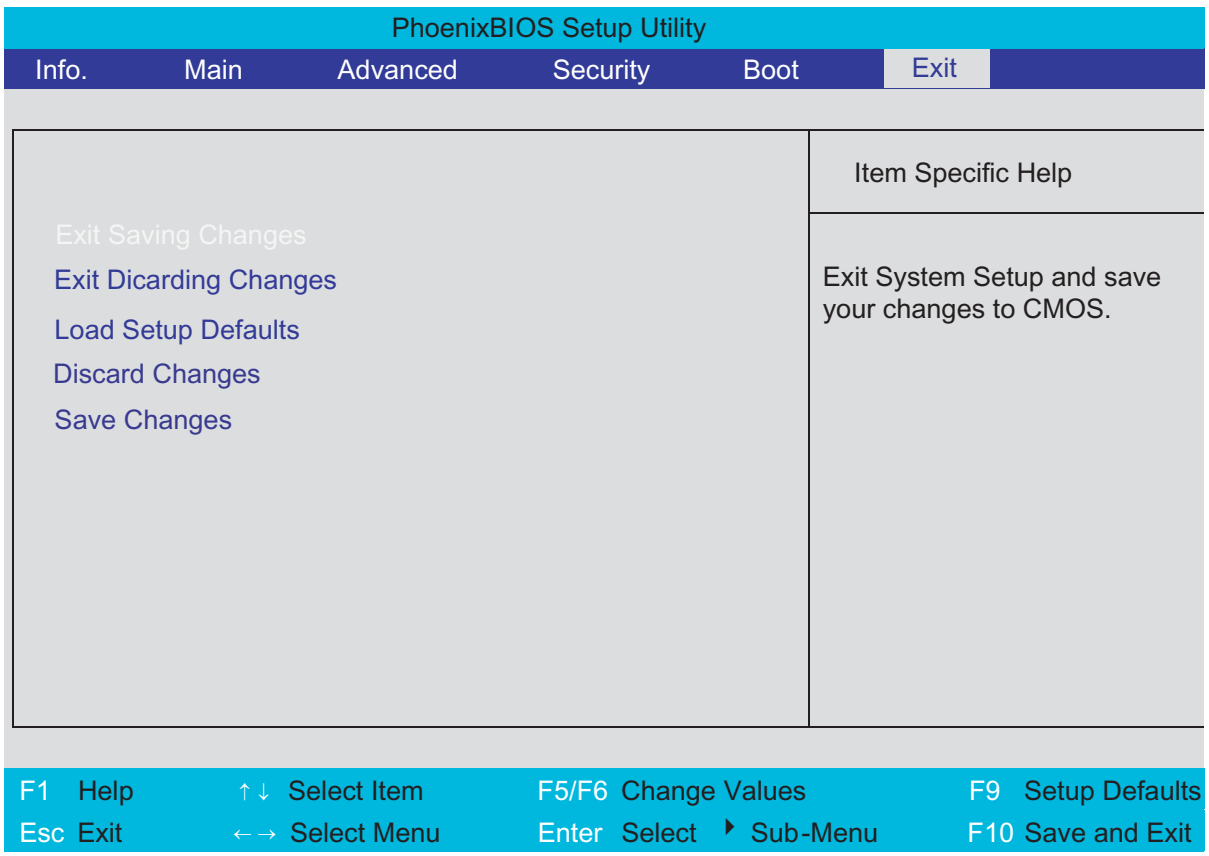
Boot

This menu allows the user to decide the order of boot devices to load the operating system. Bootabledevices 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.



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 Defaults	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 will guide you how to disassemble and reassemble the [1]Aspire series of Tern I.

To disassemble the computer, you need the following tools:

- Electrostatic discharge protective sponge.
- Flat screwdriver.
- Hex screwdriver
- Tweezers
- Phillips screwdriver (may require different size).

NOTE: [2]The screws for the different components vary in size.

[1] The TravelMate series will have different keyboard and surface color.

[2] During the disassembly process, group the screws with the corresponding components to avoid mismatches when putting back the components.

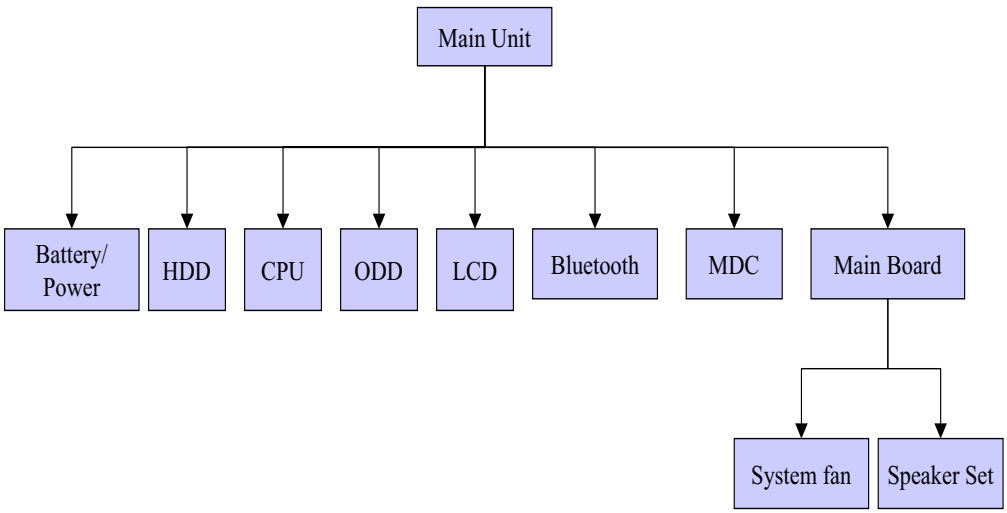
General Information

Before You Begin

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

1. Turn off the power and remove the power adapter from the system.
2. Remove the system battery as well.
3. Please note that watches, rings, and necklaces should be removed bofore service disassembly.

Disassembly Flow Chart



Standard Disassembly Procedure

This section tells you how to disassemble the system when you need to perform system service. Please also refer to the disassembly video, if available.

CAUTION: Before you proceed, make sure you have turned off the system and all peripherals connected to it.

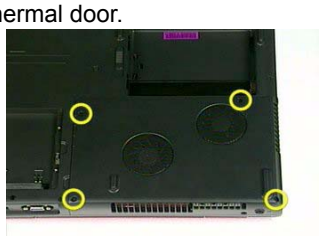
Disassemble the Battery and HDD

1. Now let's begin to disassemble the main unit.
2. Slide the battery latch and remove the battery.
3. Remove two screws that secure the HDD cover.
4. Remove the HDD cover.
5. Hold the black Mylar, push the HDD detached, and remove the HDD module



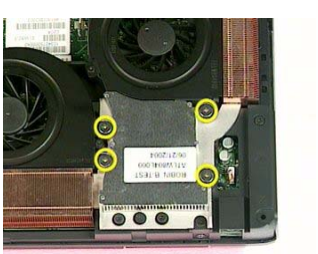

Remove the Thermal Door

1. Remove the four screws that secure the thermal door.
2. Remove the thermal door.



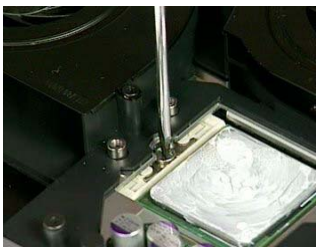

Remove the Thermal Module

1. Remove the three screws that secure the thermal module.
2. Remove the thermal module.



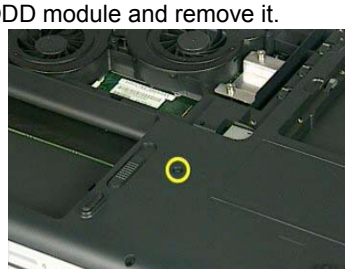

Remove the CPU

1. Remove one screw that secures the CPU.
2. Remove the CPU.



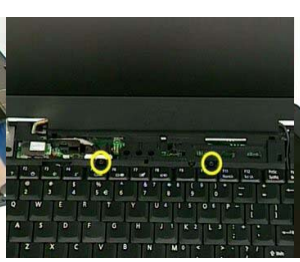

Remove the ODD module

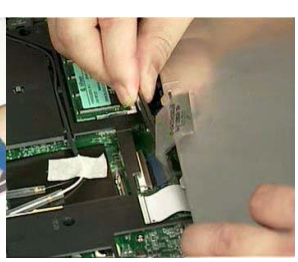
1. Remove one screw that secures the ODD.
2. Pull out the ODD module and remove it.




Remove Middle Cover and Keyboard

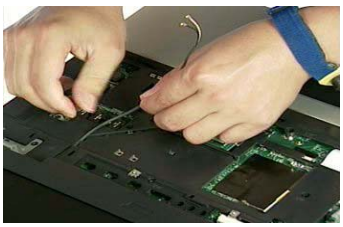
1. Release the middle cover hinge and remove the middle cover.
2. Remove two screws the secure the keyboard.
3. Pull the keyboard outward then turn over the keyboard.
4. Disconnect the keyboard cable with tweezers and remove the keyboard.



Disconnect Wireless antenna

1. Remove wireless antenna from the groove with wire clips as shown.
2. Disconnect the inverter cable with tweezers and remove the inverter cable from the groove..



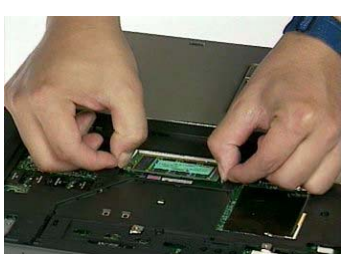
Remove the LCD module

1. Remove the two screws that secure the LCD hinge on both side.
2. Remove the screw that secure the LCD on each side of the rear of the main unit.
3. Pull the LCD module upward and remove it.



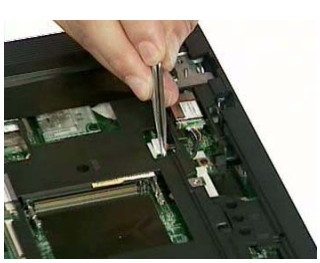
Remove Memory

1. Press the latch on left and right side and pop up the memory.
2. Then remove the memory



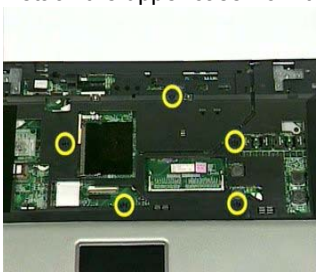
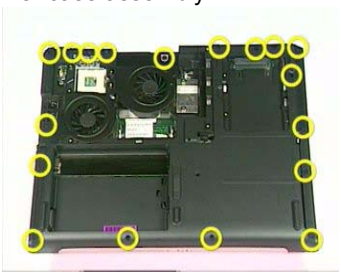

Remove the Touchpad FFC and Bluetooth cable

1. Release touchpad FFC latch with tweezers and disconnect the touchpad FFC from the main board.
2. Disconnect the Bluetooth cable from the main board with tweezers.

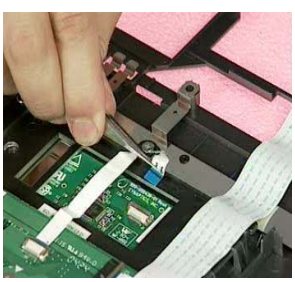
Remove the Upper Case

1. Remove five screws that secure the upper case.
2. Remove eighteen screws that secure the lower case.
3. Detach the upper case from the lower case assembly.


Disconnect the Touchpad FFC and Touchpad

1. Lift the touchpad FFC latch and disconnect the touchpad FFC from the touchpad board.
2. Disconnect the other side of the touchpad FFC from the touchpad button board.
3. Release another touchpad FFC latch and disconnect the touchpad FFC from the touchpad button board

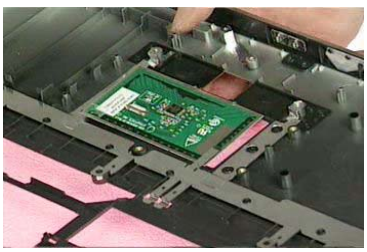
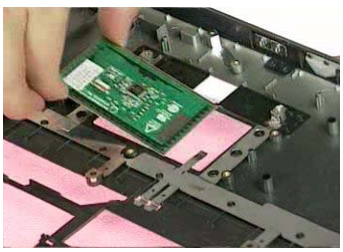


Remove Touchpad Board and Touchpad Button Board

1. Remove three screws that secure the touchpad button board
2. Then remove the touchpad button board
3. Remove three screws that secure the touchpad support.
4. Remove the touchpad support from the upper case.

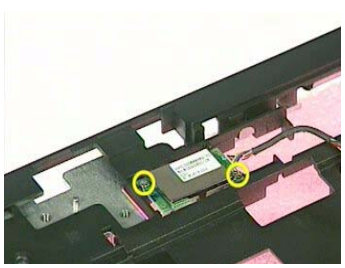
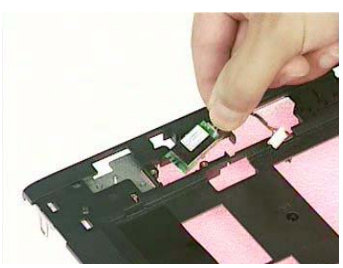



5. Push the touchpad upward.
6. Slide the touchpad out of the upper case.

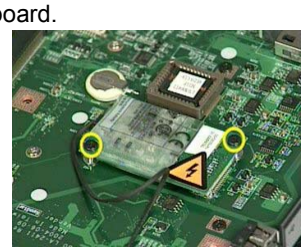
Remove BlueTooth

1. Remove two screws that secure the Bluetooth module.
2. Remove the Bluetooth module from the upper case

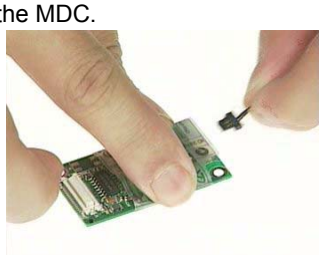



Remove the MDC

1. Disconnect the MDC cable from the main board.
2. Remove two screws that secure the MDC.
3. Remove the MDC from the main board.

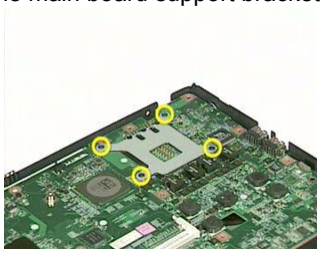




4. Then disconnect the cabel from the MDC.



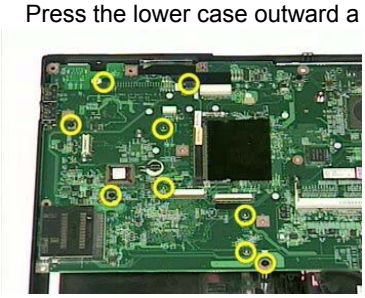
Removing the Main Board Support Bracket

1. Remove four screws that secure the main board support bracket.
2. Then remove the main board support bracket from the main board



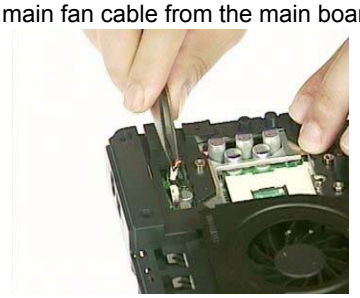
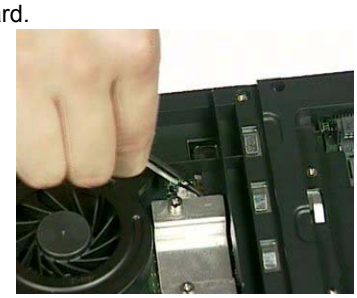

Disassemble the Main Board

1. Remove night screws that secure the main board.
2. Remove two screws on the rear that secure the VGA connector.
3. Press the lower case outward a little bit and remove the main board from the lower case.

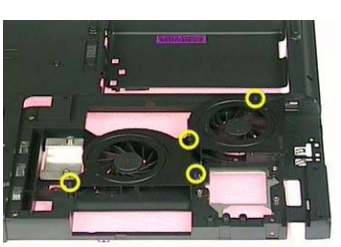


Disassemble the system fan

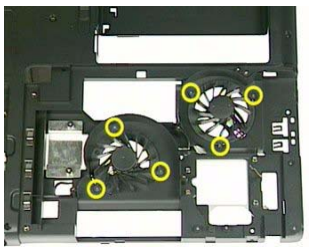
1. Remove the Secondary fan cable from the main board.
2. Remove the main fan cable from the main board.

3. Remove four screws that secure the main and secondary fan cover.
4. Remove the secondary fan cover.
5. Remove the main fan cover.

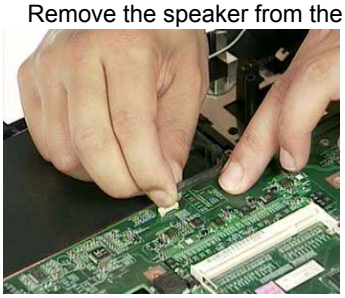
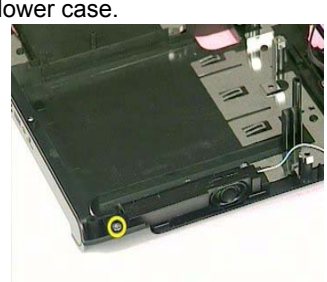
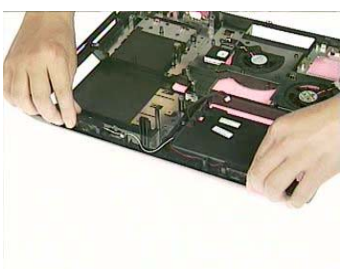


6. Remove six screws that secure the main and secondary fan.
7. Remove the secondary fan from the lower case.
8. Remove the main fan from the lower case.



Remove the Speaker Set

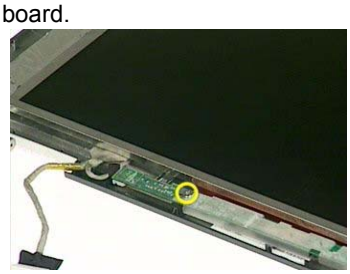
1. Disconnect the speaker set cable from the main board.
2. Remove the screw that secure the speaker set on both side.
3. Remove the speaker from the lower case.

Disassemble the LCD module

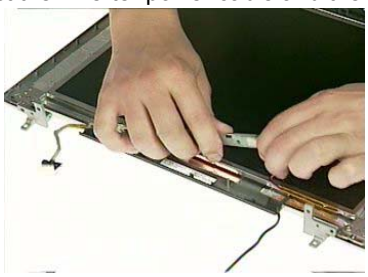
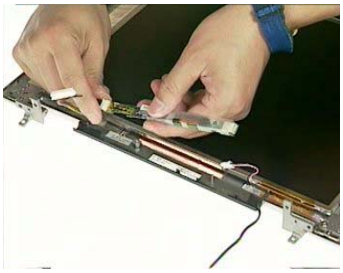
1. Detach four screw caps as shown.
2. Remove four screws that secure the LCD bezel.
3. Snap off the snaps of the LCD bezel with fingers and detach the LCD bezel carefully.


4. Disconnect the inverter cable with tweezers and remove the inverter cable from the groove
5. Remove one screw that secures the inverter board.

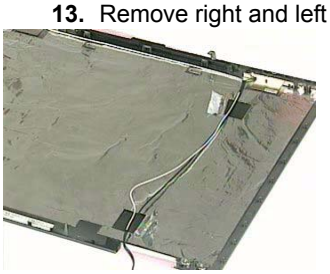
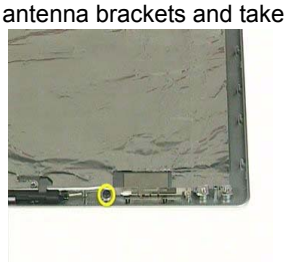
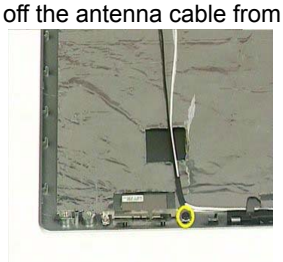
6. Pull up the inverter board

7. 7. Disconnect the inverter power cable and the LVDS cable from the inverter board.

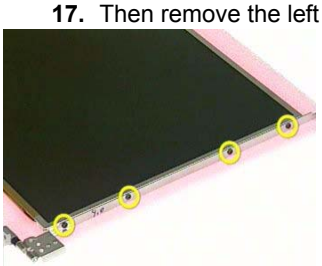
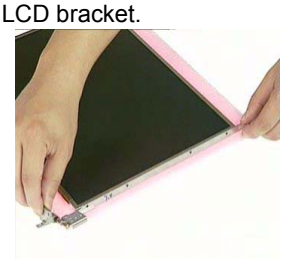
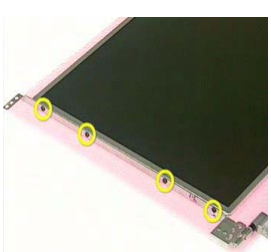



8. Remove four screws that secure the LCD.
9. Remove the LCD from the LCD cover.

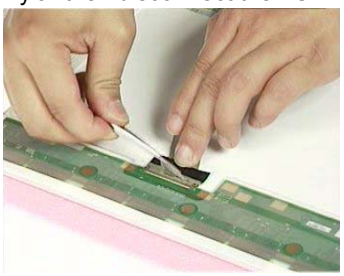
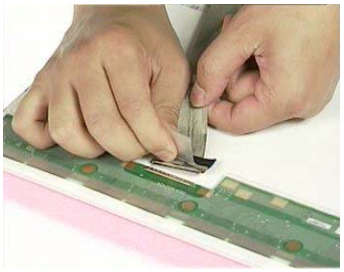

10. Uncover the antenna cable.
11. Remove one screw that secures the left antenna bracket.
12. Remove one screw that secures the right antenna bracket
13. Remove right and left antenna brackets and take off the antenna cable from the LCD cover.


14. Remove four screws that secure the right LCD bracket.
15. Then remove the right LCD bracket.
16. Remove four screws that secure the left LCD bracket
17. Then remove the left LCD bracket.


18. Tear off the Mylar then disconnect the LCD LVDS cable.

Disassemble ODD module

1. Remove the three screws that secure the ODD bracket.
2. Then remove the ODD bracket.


Disassemble HDD module

1. Remove the two screws secure the HDD holder on one side.
2. Remove the two screws secure the HDD holder on the other side.
3. Take the HDD off the HDD holder.



Troubleshooting

Use the following procedure as a guide for computer problems.

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

1. Duplicate symptom and obtain the failing symptoms in as much detail as possible.
2. Distinguish symptom. Verify the symptoms by attempting to re-create the failure by running the diagnostic test or by repeating the same operation.
3. Disassemble and assemble the unit without any power sources.
4. If any problem occurs, you can perform visual inspection before you fellow this chapter's instructions. You can check the following:

   power cords are properly connected and secured;

   there are no obvious shorts or opens;

   there are no obviously burned or heated components;

   all components appear normal.
5. 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 66
POST does not complete. No beep or error codes are indicated.	"Power-On Self-Test (POST) Error Message" on page 69 "Undetermined Problems" on page 80
POST detects an error and displayed messages on screen.	"Index of Error Messages" on page 70
Other symptoms (i.e. LCD display problems or others).	"Power-On Self-Test (POST) Error Message" on page 69
Symptoms cannot be re-created (intermittent problems).	Use the customer-reported symptoms and go to "Power-On Self-Test (POST) Error Message" on page 69 "Intermittent Problems" on page 79 "Undetermined Problems" on page 80

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.

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. Insert an audio CD into the CD/DVD drive. If the CD/DVD drive can read the data from the audio CD. The drive does not have problem, then go to next step. If the CD/DVD LED on the front panel does not emit light as it read the data from the audio CD, then go to next step. However, if the CD/DVD drive can not read data from the audio CD, you may need to clean the CD/DVD drive with a CD/DVD drive cleaning disk.
2. Make sure that the appropriate driver has been installed on the computer for the CD/DVD drive.
3. Boot from the diagnostics diskette and start the diagnostics program
4. See if CD-ROM Test is passed when the program runs to CD-ROM/DVD-ROM Test.
5. 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 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. Currently, we do not provide memory test program. However, if you need to check memory but have no testing program or diagonositc utility at hand, please go to http://www.passmark.com to download the shareware “BurnIn Test V.3.0”. You may test the memory with this program under Window XP environment.

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 Battery Pack” on page 67

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. After rebooting, run Tracking Pad PS2 Mode Driver. For example, run Syn touch driver.
2. Run utility with the PS/2 mouse function and check if the mouse is working.
3. If the PS/2 mouse does not work, then check if the main board to switch board FPC is connected O.K.
4. If the main board to switch board FPC is connected well, then check if the FCC on touch pad PCB connects properly.
5. If the FFC on touch pad PCB connects properly, then check if LS851 JP1 Pin6=5V are pulsed. If yes, then replace switch board. If no, then go to next step.
6. Replace touch pad PCB.
7. If the touch pad still does not work, then replace FPC on Track Pad PCB.

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.

Display Check

1. Connect an external display to the computer's external monitor port, the boot the computer. The computer can automatically detect the external display. Press Fn+ F5 to switch to the external display.
2. If the external display works fine, the internal LCD may be damaged. Then perform the following steps:

   Make sure the DDRRAM module is seated properly. Then run the diplay test again. If the problem still exists, go to next step.

   Replace the inverter board, then run the display test program again. If the problem still occurs, go on next step.

   Replace the LCD module with a new one then run the display test again. If the probelm still happens, continue next step.

Replace LCD/FL cable with a new one then execute the display diagnostic again. If the problem still occurs, continue next step.

Replace the CPU with another of the same specifications. If the problems still occurs, go to next step.

The main board may be damaged. Replace main board.

3. If the external monitor has the same problem as the internal monitor, the main board may be damaged. Please insert the diagnostic disk and run the display test program and go through the sub-steps under step 2.

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 80

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 Message List

Error Messages	FRU/Action in Sequence
Struck Key	See “Keyboard or Auxiliary Input Device Check” on page 65
System CMOS checksum bad - Default configuration used	RTC battery Run BIOS Setup Utility to reconfigure system, then reboot system.
Real time clock error	RTC battery Run BIOS Setup Utility to reconfigure system time, then reboot system. Main board
Previous boot incomplete - Default configuration used	“Load Setup Defaults” in BIOS Setup Utility. RTC batter Main board.
Invalid System Configuration Data	“Load Setup Defaults” in BIOS Setup Utility. Main board.
Operating system not found	Enter Setup and see if fixed disk and drive A are properly identified. Diskette drive Hard disk drive Main board.

Error Message List

No beep Error Messages	FRU/Action in Sequence
Power-on indicator turns off and LCD is blank.	Power source (battery pack and power adapter.) See “Power System Check” on page 66. Ensure every connector is connected tightly and correctly. Reconnect the DIMM. Main board.
Power-on indicator turns on and LCD is blank.	Power source (battery pack and power adapter.) See “Power System Check” on page 66. Reconnect the LCD connector Hard disk drive LCD cable LCD inverter LCD Main board
Power-on indicator turns on and LCD is blank. But you can see POST on an external CRT.	Reconnect the LCD connectors. LCD cable LCD inverter LCD Main board
Power-on indicator turns on and a blinking cursor shown on LCD during POST.	Ensure every connector is connected tightly and correctly. Main board

Phoenix BIOS Beep Codes

Code	Beeps	POST Routine Description
02h		Verify Real Mode
03h		Disable Non-Maskable Interrupt (NMI)
04h		Get CPU type
06h		Initialize system hardware
08h		Initialize chipset with initial POST values
09h		Set IN POST flag
0Ah		Initialize CPU registers
0Bh		Enable CPU cache
0Ch		Initialize caches to initial POST values
0Eh		Initialize I/O component
0Fh		Initialize the local bus IDE
10h		Initialize Power Management
11h		Load alternate registers with initial POST values
12h		Restore CPU control word during warm boot
13h		Initialize PCI Bus Mastering devices
14h		Initialize keyboard controller
16h	1-2-2-3	BIOS ROM checksum
17h		Initialize cache before memory autosize
18h		8254 timer initialization
1Ah		8237 DMA controller initialization
1Ch		Reset Programmable Interrupt Controller
20h	1-3-1-1	Test DRAM refresh
22h	1-3-1-3	Test 8742 Keyboard Controller
24h		Set ES segment register to 4 GB
26h		Enable A20 line
28h		Autosize DRAM
29h		Initialize POST Memory Manager
2Ah		Clear 215 KB base RAM
2Ch	1-3-4-1	RAM failure on address line xxxx
2Eh	1-3-4-3	RAM failure on data bits xxxx of low byte of memory bus
2Fh		Enable cache before system BIOS shadow
30h	1-4-1-1	RAM failure on data bits xxxx of high byte of memory bus
32h		Test CPU bus-clock frequency
33h		Initialize Phoenix Dispatch Manager
36h		Warm start shut down
38h		Shadow system BIOS ROM
3Ah		Autosize cache
3Ch		Advanced configuration of chipset registers
3Dh		Load alternate registers with CMOS values
42h		Initialize interrupt vectors
45h		POST device initialization
46h	2-1-2-3	Check ROM copyright notice

Code	Beeps	POST Routine Description
48h		Check video configuration against CMOS
49h		Initialize PCI bus and devices
4Ah		Initialize all video adapters in system
4Bh		QuietBoot start (optional)
4Ch		Shadow video BIOS ROM
4Eh		Display BIOS copyright notice
50h		Display CPU type and speed
51h		Initialize EISA board
52h		Test keyboard
54h		Set key click if enabled
58h	2-2-3-1	Test for unexpected interrupts
59h		Initialize POST display service
5Ah		Display prompt “Press F2 to enter SETUP”
5Bh		Disable CPU cache
5Ch		Test RAM between 512 and 640 KB
60h		Test extended memory
62h		Test extended memory address lines
64h		Jump to User Patch1
66h		Configure advanced cache registers
67h		Initialize Multi Processor APIC
68h		Enable external and CPU caches
69h		Setup System Management Mode (SMM) area
6Ah		Display external L2 cache size
6Bh		Load custom defaults (optional)
6Ch		Display shadow-area message
6Eh		Display possible high address for UMB recovery
70h		Display error messages
72h		Check for configuration errors
76h		Check for keyboard errors
7Ch		Set up hardware interrupt vectors
7Eh		Initialize coprocessor if present
80h		Disable onboard Super I/O ports and IRQs
81h		Late POST device initialization
82h		Detect and install external RS232 ports
83h		Configure non-MCD IDE controllers
84h		Detect and install external parallel ports
85h		Initialize PC-compatible PnP ISA devices
86h		Re-initialize onboard I/O ports
87h		Configure Motherboard Configurable Devices (optional)
88h		Initialize BIOS Area
89h		Enable Non-Maskable Interrupts (NMIs)
8Ah		Initialize Extended BIOS Data Area
8Bh		Test and initialize PS/2 mouse
8Ch		Initialize floppy controller

Code	Beeps	POST Routine Description
8Fh		Determine number of ATA drives (optional)
90h		Initialize hard-disk controllers
91h		Initialize local-bus hard-disk controllers
92h		Jump to UserPatch2
93h		Build MPTABLE for multi-processor boards
95h		Install CD ROM for boot
96h		Clear huge ES segment register
97h		Fixup Multi Processor table
98h	1-2	Search for option ROMs. One long, two short beeps on checksum failure.
99h		Check for SMART drive (optional)
9Ah		Shadow option ROMs
9Ch		Set up Power Management
9Dh		Initialize security engine (optional)
9Eh		Enable hardware interrupts
9Fh		Determine number of ATA and SCSI drives
A0h		Set time of day
A2h		Check key lock
A4h		Initialize Typematic rate
A8h		Erase F2 prompt
AAh		Scan for F2 key stroke
ACh		Enter SETUP
AEh		Clear Boot flag
B0h		Check for errors
B2h		POST done- prepare to boot operating system
B4h	1	One short beep before boot
B5h		Terminate QuietBoot (optional)
B6h		Check password (optional)
B9h		Prepare Boot
BAh		Initialize DMI parameters
BBh		Initialize PnP Option ROMs
BCh		Clear parity checkers
BDh		Display MultiBoot menu
BEh		Clear screen (optional)
BFh		Check virus and backup reminders
C0h		Try to boot with INT 19
C1h		Initialize POST Error Manager (PEM)
C2h		Initialize error logging
C3h		Initialize error display function
C4h		Initialize system error handler
C5h		PnPnd dual CMOS (optional)
C6h		Initialize notebook docking (optional)
C7h		Initialize notebook docking late
C8h		Force check (optional)
C9h		Extended checksum (optional)
D2h		Unknown interrupt

Code	Beeps	POST Routine Description
E0h		Initialize the chipset
E1h		Initialize the bridge
E2h		Initialize the CPU
E3h		Initialize the system timer
E4h		Initialize system I/O
E5h		Check force recovery boot
E6h		Checksum BIOS ROM
E7h		Go to BIOS
E8h		Set Huge Segment
E9h		Initialize Multi Processor
EAh		Initialize OEM special code
EBh		Initialize PIC and DMA
ECh		Initialize Memory type
EDh		Initialize Memory size
EEh		Shadow Boot Block
EFh		System memory test
F0h		Initialize interrupt vectors
F1h		Initialize Run Time Clock
F2h		Initialize video
F3h		Initialize System Management Mode
F4h	1	Output one beep before boot
F5h		Boot to Mini DOS
F6h		Clear Huge Segment
F7h		Boot to Full DOS

Index of Sympton-to-FRU Error Message

LCD-Related Symptoms

Symptom / Error	Action in Sequence
LCD backlight doesn't work	First, plug a monitor to CRT port. Next, enter BIOS utility to running “Load Setup Defaults” then reboot the system. Reconnect the LCD connectors. Keyboard (if the brightness function key doesn't work). LCD cable LCD inverter LCD Main board
LCD is too dark LCD brightness cannot be adjusted	Enter BIOS Utility to execute “Load Setup Defaults”, then reboot system. Reconnect the LCD connectors. Keyboard (if the brightness function key doesn't work). LCD cable LCD inverter LCD Main board
Unreadable LCD screen Missing pels in characters Abnormal screen Wrong color displayed LCD has extra horizontal or vertical lines displayed.	Reconnect the LCD cable LCD cable LCD Main board

Indicator-Related Symptoms

Symptom / Error	Action in Sequence
Indicator incorrectly remains off or on, but system runs correctly	Main board
HDD/CD-ROM active indicators cannot work	HDD/CD-ROM drive Device driver Main 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 66. Battery pack AC adapter See if the thermal module is overheat (Heat sink or fan). Main board
The system cannot power-on.	Power source (battery pack and power adapter). See “Power System Check” on page 66. Battery pack Power adapter CPU Main board
The system cannot power-off.	In Windows XP operating system, hold and press the power switch for more than 4 seconds. If the system can power off, then the main board is OK. Verify OS in the HDD. Main board

Power-Related Symptoms

Symptom / Error	Action in Sequence
Battery can't be charged or discharged	See "Check the Battery Pack" on page 67. Battery pack Main board
System hang during POST	ODD/HDD/FDD/RAM module Main board

PCMCIA-Related Symptoms

Symptom / Error	Action in Sequence
System cannot detect the PC Card (PCMCIA)	PCMCIA slot assembly Main board
PCMCIA slot pin is damaged.	PCMCIA slot assembly
PC Card cannot be inserted or ejected	Check if the PCMCIA slot is blocked Main board

Memory-Related Symptoms

Symptom / Error	Action in Sequence
Memory count (size) appears different from actual size.	Enter BIOS Setup Utility to execute "Load Setup Defaults" then reboot system. RAM module Main board Check BIOS revision
System can power on, but you hear two long beeps: "B--, B--" and the LCD is blank.	Reinsert DIMM DIMM Main board

Speaker-Related Symptoms

Symptom / Error	Action in Sequence
In Windows, multimedia programs, no sound comes from the computer.	OS volume control Audio driver Speaker Main board
Internal speakers make noise or emit no sound.	Speaker Main board
Microphone cannot work	Audio driver Volume control in Windows XP Main board

Power Management-Related Symptoms

Symptom / Error	Action in Sequence
The system will not enter hibernation mode	Power option in Windows XP Hard disk drive Main board
The system doesn't enter standby mode after closing the lid of the portable computer.	Driver of Power Option Properties Lid close switch in upper case Main board

Power Management-Related Symptoms

Symptom / Error	Action in Sequence
The system doesn't resume from hibernation/ standby mode.	Connect AC adapter then check if the system resumes from Standby/Hibernation mode. Check if the battery is low. Hard disk drive Main board
The system doesn't resume from standby mode after opening the lid of the portable computer.	LCD cover switch Main board
Battery fuel gauge in Windows doesn't go higher than 90%.	Refresh battery (continue use battery until power off, then charge battery). Battery pack Main board
System hangs intermittently.	Reconnect hard disk/CD-ROM drives. Main board

Peripheral-Related Symptoms

Symptom / Error	Action in Sequence
System configuration does not match the installed devices.	Enter BIOS Setup Utility to execute “Load Setup Defaults”, then reboot system. Reconnect hard disk/CD-ROM drives/FDD or other peripherals. Main board
External display does not work correctly.	Press Fn+F5, LCD/CRT/Both display switching Keyboard Main board
USB does not work correctly	Main board
Print problems.	Enter BIOS Setup Utility to execute “Load Setup Defaults” then reboot the system. Run printer self-test. Printer driver Printer cable Printer Main board
Parallel port device problems	Enter BIOS Setup Utility to execute “Load Setup Defaults” then reboot the system. Device driver Device cable Device Main board

Keyboard/Touchpad-Related Symptoms

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

Modem/LAN-Related Symptoms

Symptom / Error	Action in Sequence
Internal modem does not work correctly.	Phone cable Driver Reconnect the Internal modem cable to the main board tightly. Main board
Internal LAN does not work correctly	Lan cable Driver Main board

NOTE: If you cannot find a symptom or an error in this list and the problem remains, see “Undetermined Problems” on page 80.

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 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 66):

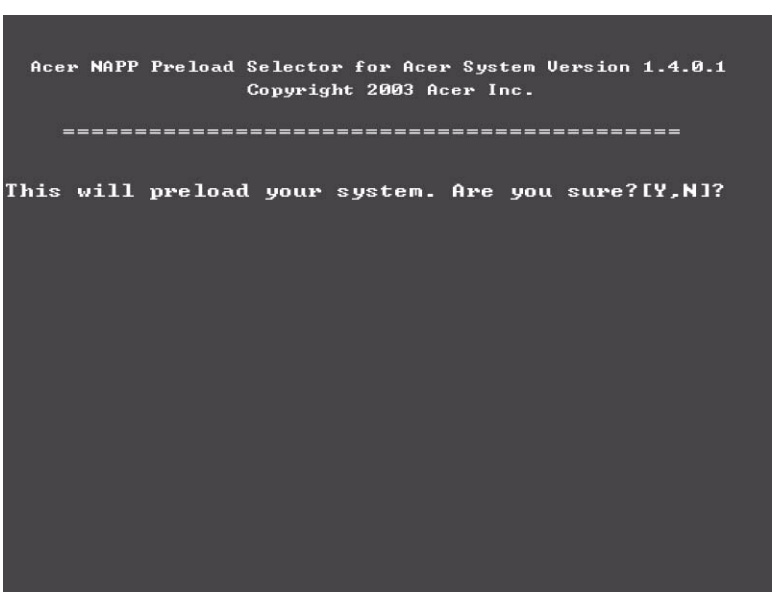
1. Power-off the computer.
2. Visually check them for damage. If any problems are found, replace the FRU.
3. Remove or disconnect all of the following devices:
    - ❑ Non-Acer devices
    - ❑ Printer, mouse, and other external devices
    - ❑ Battery pack
    - ❑ Hard disk drive
    - ❑ DIMM
    - ❑ 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

How to Build NAPP Master Hard Disc Drive

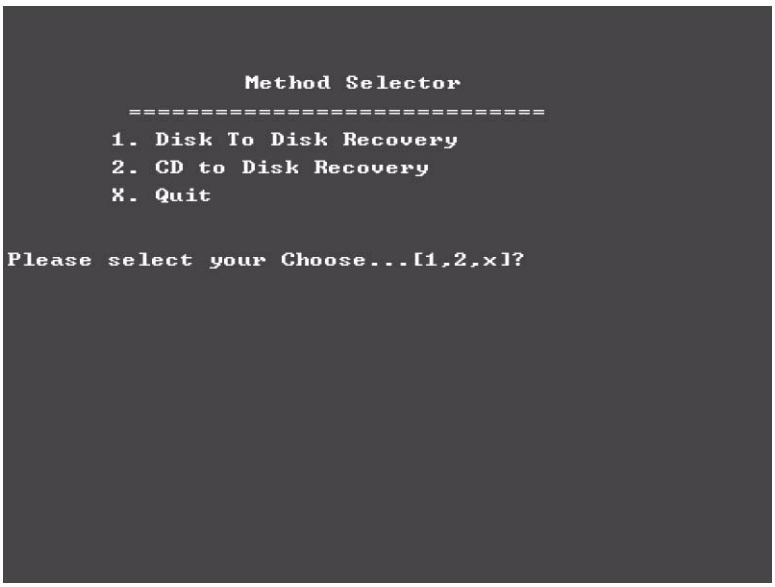
CD to Disk Recovery

1. Prepare NAPP CD, Recovery CD and System CD.
2. Put NAPP CD into the optical drive. Then boot up the system.
3. The system will ask you if you want to build NAPP Master HDD. Please press any key to continue.

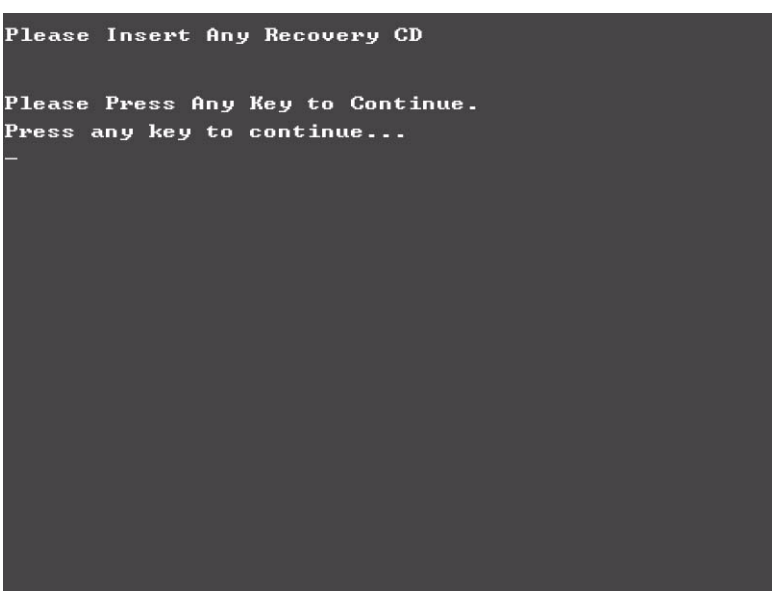
4. NAPP CD will start to preload the system, please click [Y].



5. Select CD to Disk Revocery.



6. Put the Recovery CD to the optical drive. This step is to create image files to the system, you do not have to put the Recovery CD to the optical drive in order. Place one Recovery CD to the drive at one time till you finish all Recovery CDs.



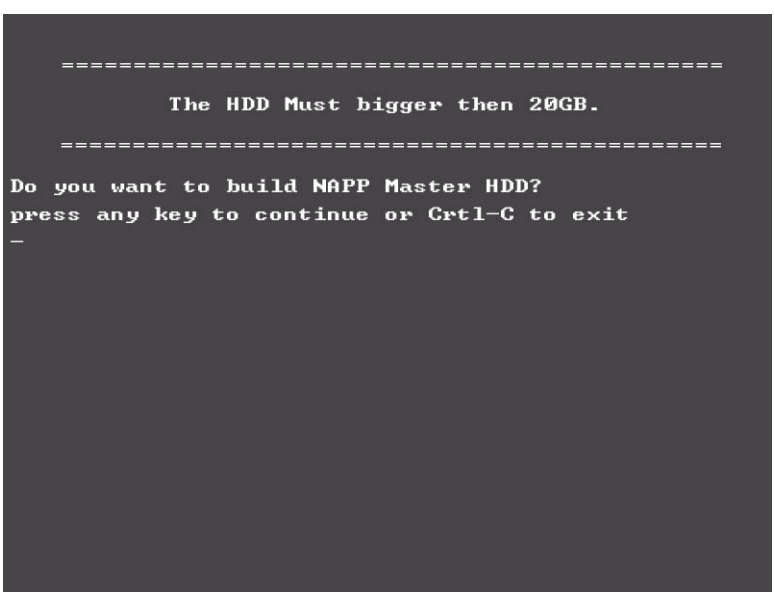
After you place the Recovery CD to the optical drive, you will see the display below.

7. Then insert the System CD to the optical drive.

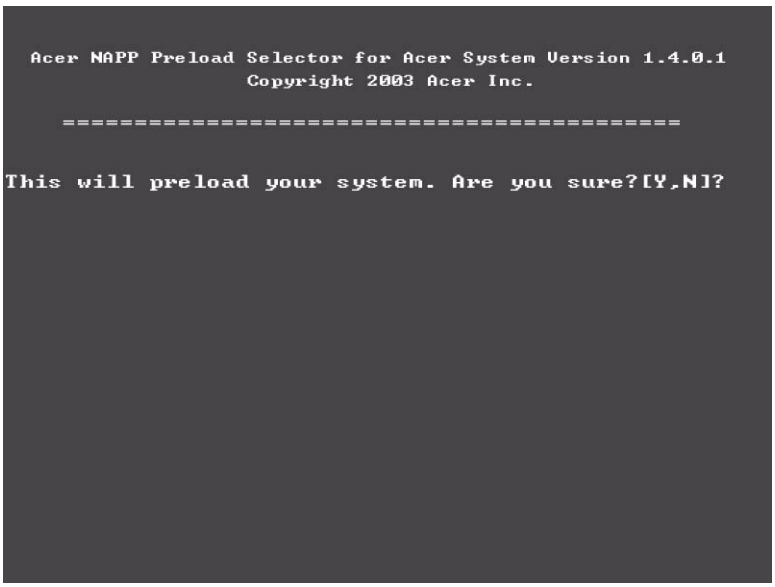
8. You will see the screen displaying “PASS” when the system has buit NAPP Master hard disc drive.

Disk to Disk Recovery

1. Prepare NAPP CD, Recovery CD and System CD.
2. Put NAPP CD into the optical drive. Then boot up the system.
3. The system will ask you if you want to build NAPP Master HDD. Please press any key to continue.

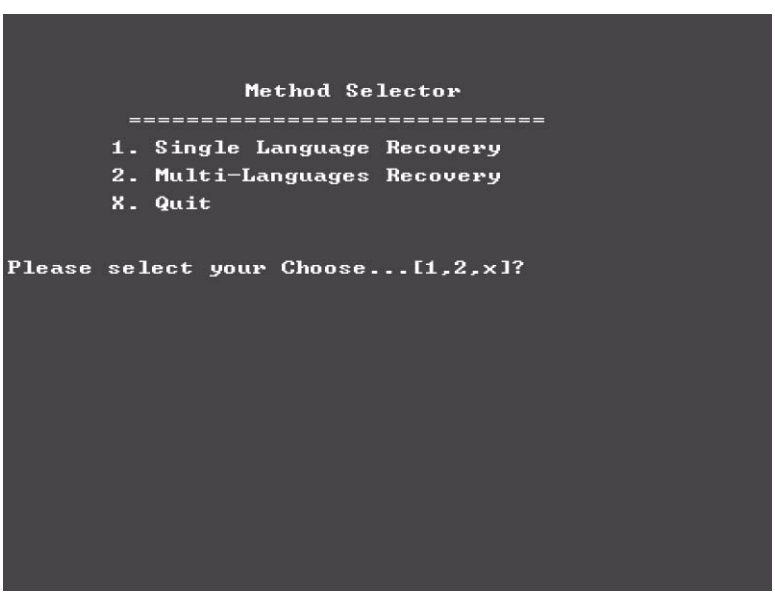


4. NAPP CD will start to preload the system, please click [Y].

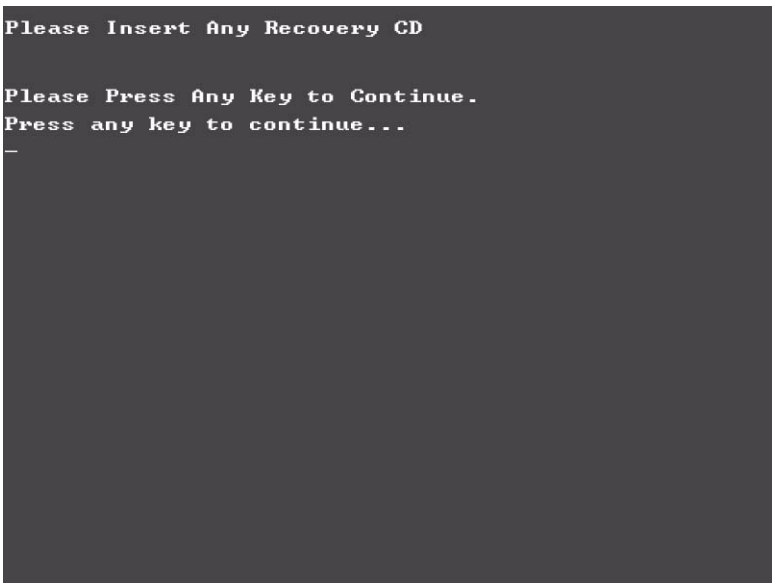


5. Select Disk to Disk Recovery. Then choose Single Language or Multi-Languages Recovery.

NOTE: For Multi-Languages Recovery, not more than five languages could be loaded to the system.

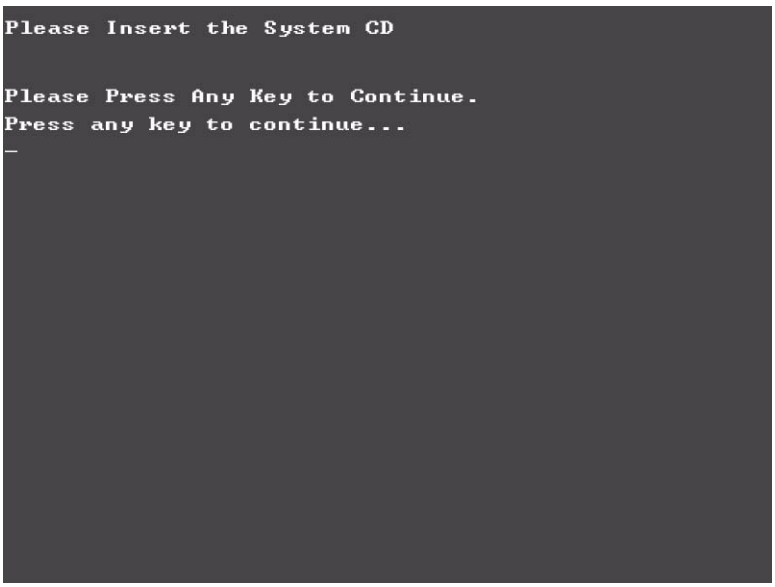


6. Put the Recovery CD to the optical drive. This step is to create image files to the system, you do not have to put the Recovery CD to the optical drive in order. Place one Recovery CD to the drive at one time till you finish all Recovery CDs.



After you place the Recovery CD to the optical drive, you will see the display below.

7. Then insert the System CD to the optical drive.

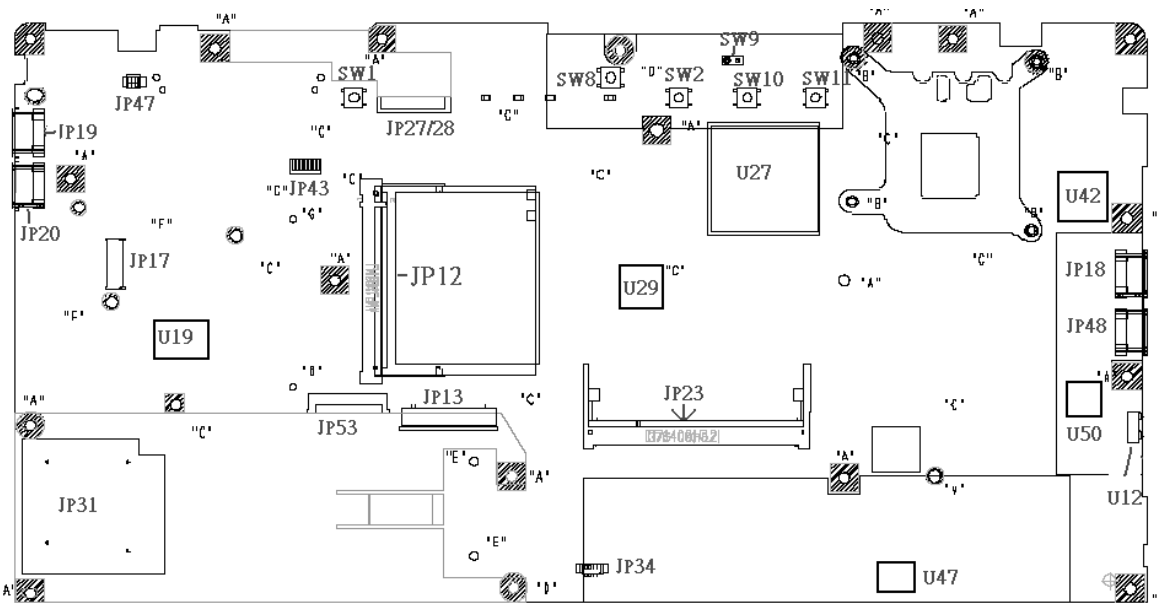


8. You will see the screen displaying “PASS” when the system has buit NAPP Master hard disc drive.

Jumper and Connector Location

MainBoard

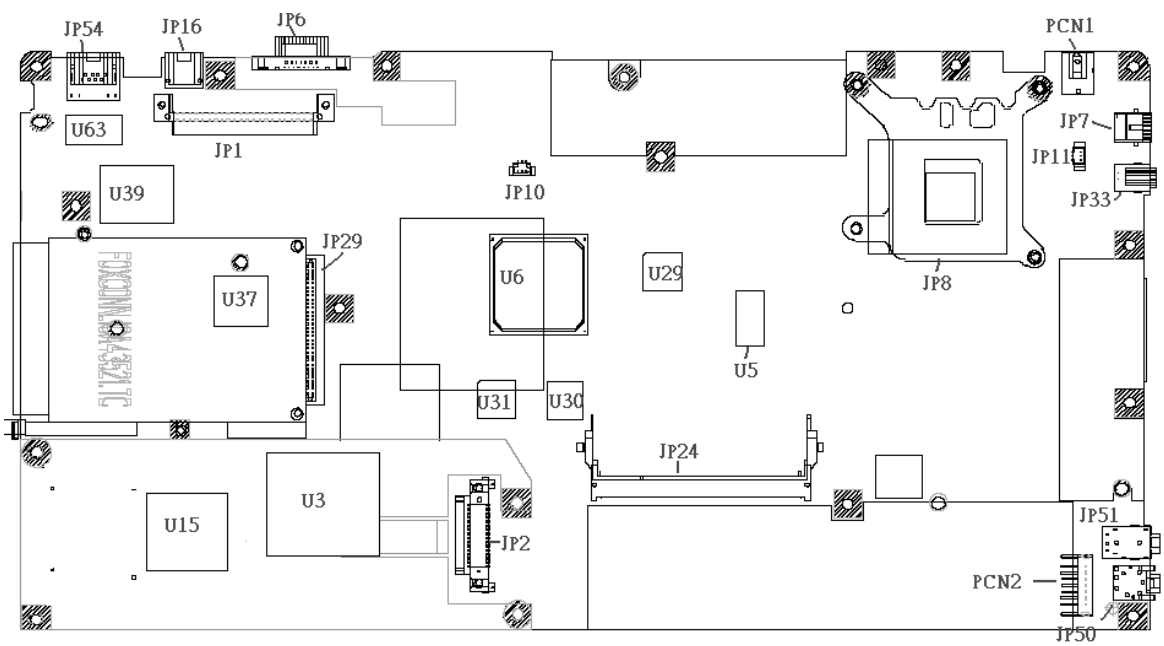
Top view



Label	Component
JP12	MINI PCI CONN
JP13	KBD CONN
JP17	MDC CONN
JP18	USB Connector
JP19	USB Connector
JP20	USB Connector
JP23	DIMM CONN
JP27	UMA LCD Connector
JP28	M11P LCD Connector
JP31	Card reader Connector
JP34	Speaker CONN
JP43	BT Connector
JP53	TP/B Connector
SW1	PWR BTN
SW2	Internet BTN
SW8	E-MAIL BTN

Label	Component
SW9	LID SW BTN
SW10	USER BTN1
SW11	USER BTN2
U12	FIR CONN
U19	ROM CONN
U27	NB Chipset
U29	VRAM Chipset
U42	1394 Chipset
U47	Audio Chipset
U50	Super I/O Chipset

Bottom View

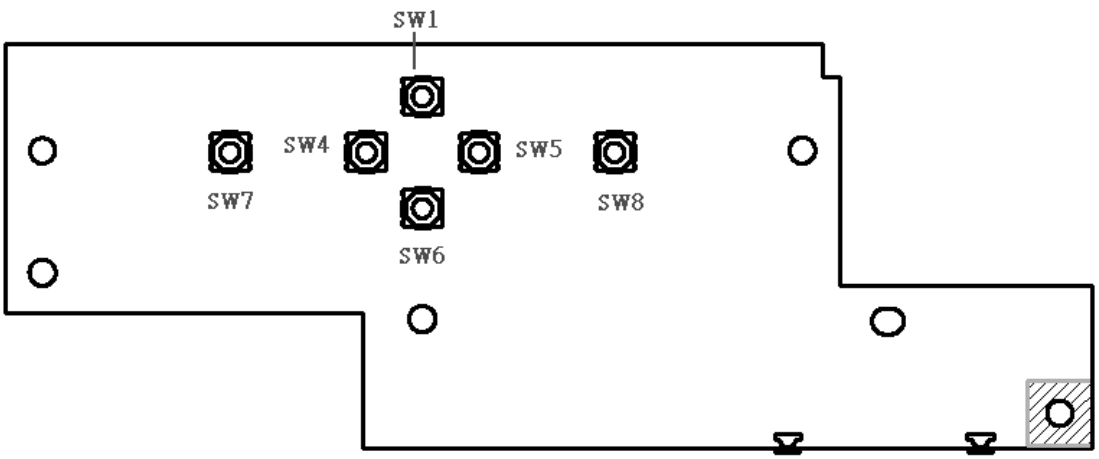


Label	Component
PCN1	PWR JACK
PCN2	BATTERY CONN
JP1	HDD CONN
JP2	ODD CONN
JP6	VGA CONN
JP7	TV-OUT CONN
JP8	CPU SOCKET
JP10	FAN CONN
JP11	FAN CONN

Label	Component
JP16	RJ11 I/O CONN
JP24	DIMM CONN
JP29	Cardbus CONN
JP33	1394 CONN
JP50	MICPHONE JACK
JP54	RJ45 CONN
U3	SB Chipset
U5	CLK GEN Chipset
U6	ATI VGA Chipset
U28	VRAM
U30	VRAM
U31	VRAM
U15	EC Chipset
U37	Card Reader Chipset
U39	LAN Chipset
U63	LAN transformer

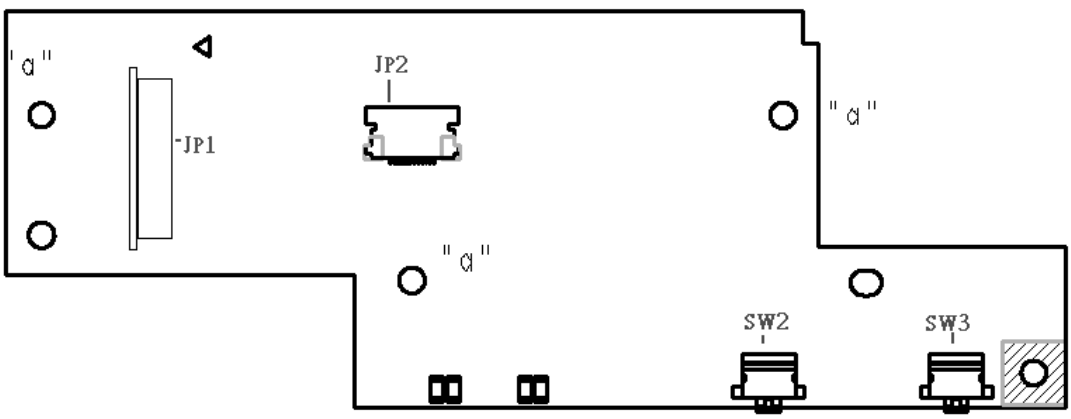
Touchpad Board

Top View



Item	Description
SW1	SCRL UP BTN
SW4	SCRL LEFT BTN
SW5	SCRL RIGHT BTN
SW6	SCRL DOWN BTN
SW7	LEFT BTN
SW8	RIGHT BTN

Bottom View



Item	Description
SW2	ENABLE BT BTN
SW3	ENABLE WL BTN
JP1	TP/B TO M/B CONN
JP2	TP/B TO TP CONN

FRU (Field Replaceable Unit) List

This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of Aspire 1670 and TravelMate 2200/2700.

Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

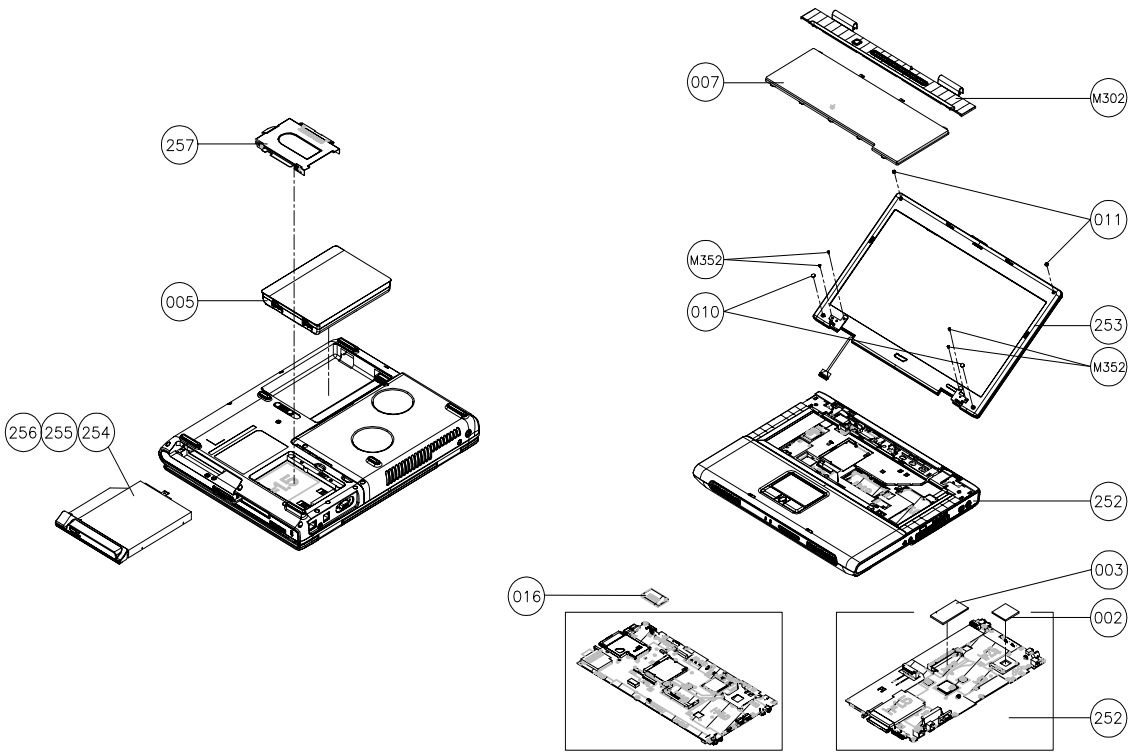
Please also note that there are some common parts for Aspire 2000, yet the LCD modules are different in two model.

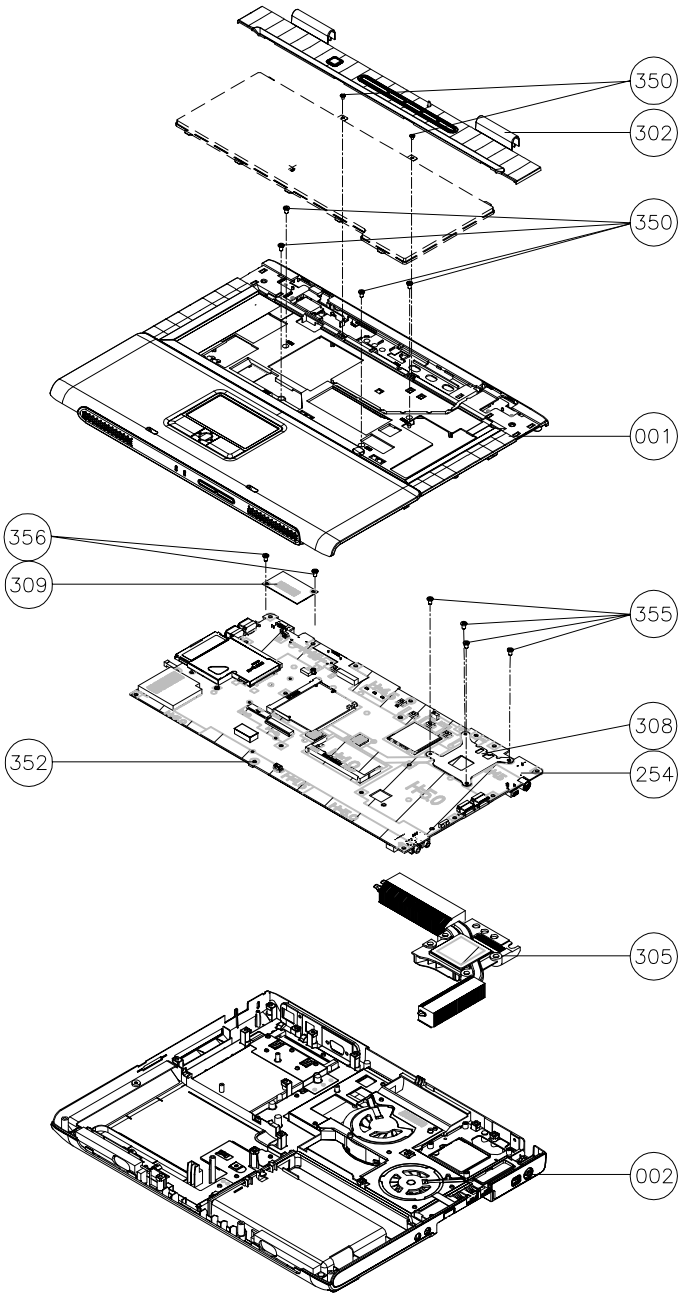
Please note that WHEN ORDERING FRU PARTS, you should check the most up-to-date information available on your regional web or channel. For whatever reasons a part number change is made, it will not be noted on the printed Service Guide. For ACER AUTHORIZED SERVICE PROVIDERS, your Acer office may have 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.

NOTE: Please visit website http://aicsl.acer.com.tw/spl/ for the up to date SPL

Exploded Diagram




350
302
350
001
356
309
355
308
352
254
305
002

Aspire 1670 Parts List

PHOTO	PARTNAME	ACER P/N
ADAPTER		
	ADAPTER W/LED 3 PIN 135W DELTA ADP-135DB BBE	AP.13501.001
	ADAPTER W/O LED 3 PIN 135W LITEON PA-1131-08CR	AP.13503.001
	ADAPTER W/O LED 3PIN 135W HIPRO HP-OW135FCP	AP.1350A.001
BATTERY		
	Li-Ion Tern 4S2P 4.0Ah High rate Sanyo pack and cells	BT.00803.001
	Li-Ion Tern 4S2P 4.0Ah High rate sony pack and cells	BT.00804.001
BOARD		
	MODEM BOARD AMBIT	54.T59V5.001
	MINI PCI WIRELESS BOARD 802.11 b/g FOXCONN T60N871.00	54.T59V5.002
	BLUETOOTH CARD WNC 91.BU513.001 BT+ANT	54.T59V5.003
	T/P BOARD	55.T59V5.001
CABLES		

PHOTO	PARTNAME	ACER P/N
	MODEM CABLE	50.T59V5.001
	FFC CABLE - T/P TO T/P BOARD	50.T59V5.002
	FFC CABLE - T/P TO MB	50.T59V5.003
	POWER CORD US 3 PIN POWER CORD EC 3 PIN POWER CORD UK 3 PIN POWER CORD ITALIAN 3 PIN POWER CORD AUS 3 PIN POWER CORD CHINA 3 PIN POWER CORD DENMARK 3 PIN POWER CORD SWISS 3 PIN	27.T59V5.001 27.T59V5.002 27.T59V5.003 27.T59V5.004 27.T59V5.005 27.T59V5.006 27.T59V5.007 27.T59V5.008
CASE/COVER/BRACKET ASSEMBLY		
	MIDDLE COVER W/BUTTON LOGO	42.A35V5.001
	LOWER CASE ASSY W/SPEAKER SET W/O FAN	60.A35V5.001
	UPPER CASE ASSY W/FRONT COVER (W/UMA) - Aspire	60.A35V5.002
	UPPER CASE ASSY W/FRONT COVER (DISCRETE) - Aspire	60.A35V5.006
	TOUCHPAD SUPPORT PLATE	33.T59V5.001

PHOTO	PARTNAME	ACER P/N
	CPU SUPPORT PLATE	33.T59V5.002
	FAN COVER - MAIN	33.T59V5.003
	FAN COVER - SECOND	33.T59V5.004
	THERMAL DOOR	33.T59V5.005
	PCMCIA DUMMY CARD	42.T59V5.003
COMMUNICATION MODULE		
	WIRELESS ANTENNA ASSY	50.T59V5.004
COMBO DRIVE		
	DVD/CDRW COMBO MODULE 24X QSI SBW-242C	6M.T59V5.001
	DVD/CDRW COMBO DRIVE 24X QSI SBW-242C	KO.02407.013
	DVD/CDRW COMBO 24X MODULE LITEON SOSC-2483K	6M.T59V5.002
	DVD/CDRW COMBO 24X DRIVE LITEON SOSC-2483K	KO.02409.006
	DVD/CDRW COMBO 24X MODULE KME UJDA-760	6M.T59V5.003
	DVD/CDRW COMBO 24X DRIVE KME UJDA-760	KO.02406.010
	DVD/CDRW COMBO 24X MODULE HLDS GCC-4243N	6M.T59V5.004
	DVD/CDRW COMBO 24X DRIVE HLDS GCC-4243N	KO.02405.005
	DVD/CDRW COMBO 24X MODULE COMPAL 650/4.7	6M.T59V5.005
	DVD/CDRW COMBO 24X DRIVE COMPAL 650/4.7	TBD
	DVD DUAL MODULE 4X QSI SDW-042	6M.T59V5.006
	DVD DUAL 4X DRIVE QSI SDW-042	KU.00403.002
	DVD DUAL MODULE 8X LITEON SOSW-852S	6M.T59V5.007
	DVD DUAL 8X DRIVE LITEON SOSW-852S	KU.00804.004
	DVD DUAL MODULE 8X PIONEER DVR-K14RA	6M.T59V5.008
	DVD DUAL 8X DRIVE PIONEER DVR-K14RA	KU.00805.002
	DVD SUPER MULTI MODULE 8X KME (UJ-830)	6M.T59V5.009
	DVD SUPER MULTI 8X DRIVE KME (UJ-830)	KU.00807.002
	DVD SUPER MULTI MODULE 8X HLDS (GSA-4080N)	6M.T59V5.010
	DVD SUPER MULTI 8X DRIVE HLDS (GSA-4080N)	KU.0080D.004
CASE/COVER/BRACKET ASSEMBLY		
	DVD/CDRW BEZEL FOR QSI	42.T59V5.004
	OPTICAL DEVICE BRACKET	33.T59V5.006
	DVD/CDRW BEZEL FOR LITEON	42.T59V5.005
	DVD/CDRW BEZEL FOR KME	42.T59V5.006
	DVD/CDRW BEZEL FOR HLDS	42.T59V5.007
	DVD/CDRW BEZEL FOR COMPAL	42.T59V5.008
	DVD DUAL BEZEL FOR QSI	42.T59V5.009

PHOTO	PARTNAME	ACER P/N
	DVD DUAL BEZEL FOR LITEON	42.T59V5.010
	DVD DUAL BEZEL FOR LITEON	42.T59V5.011
	DVD SUPER MULTI BEZEL FOR KME	42.T59V5.012
	DVD SUPER MULTI BEZEL FOR HLDS	42.T59V5.013
HDD/HARD DISK DRIVE		
	30G HGST 2.5 IN. 4200 MORAGA+ HTS424030M9AT00 13G1486 FW:DA1017	KH.03007.006
	TOSHIBA PLUTO 30G 4200RPM MK3025GAS	KH.03004.002
	40G HGST 2.5 IN. 4200 MORAGA+ HTS424040M9AT00 13G1132 FW:DA1017	KH.04007.010
	TOSHIBA PLUTO 40G 4200RPM MK4025GAS ,KA100A F/W:KA100A	KH.04004.002
	SEAGATE 40G 4200RPM ST94019A, 2MB F/W:3.05	KH.04001.010
	HGST 60G 4200RPM MORAGA IC25N060ATMR04-0 08K0634 F/W:AD4A	KH.06007.006
	TOSHIBA PLUTO 60G 4200RPM MK6025GAS (PHASE IN MAR/APR) F/W:KA200A	KH.06004.003
	HGST 80G 4200RPM MORAGA IC25N080ATMR04-0 08K635 F/W:AD4A	KH.08007.007
	TOSHIBA PLUTO 80G 4200RPM MK8025GAS, 8MB F/W:KA023A	KH.08004.001
CASE/COVER/BRACKET ASSEMBLY		
	HDD CARRIER	33.T59V5.007
	HDD CONNECTOR	42.T59V5.014
KEYBOARD		

PHOTO	PARTNAME	ACER P/N
	KEYBOARD DARFON (ASPIRE) CHINESE	KB.A3502.001
	KEYBOARD DARFON (ASPIRE) US INTERNATIONAL	KB.A3502.002
	KEYBOARD DARFON (ASPIRE) THAI	KB.A3502.003
	KEYBOARD DARFON (ASPIRE) GERMAN	KB.A3502.004
	KEYBOARD DARFON (ASPIRE) UK	KB.A3502.005
	KEYBOARD DARFON (ASPIRE) ITALIAN	KB.A3502.006
	KEYBOARD DARFON (ASPIRE) FRENCH	KB.A3502.007
	KEYBOARD DARFON (ASPIRE) SWISS/G	KB.A3502.008
	KEYBOARD DARFON (ASPIRE) BELGIUM	KB.A3502.009
	KEYBOARD DARFON (ASPIRE) SPANISH	KB.A3502.010
	KEYBOARD DARFON (ASPIRE) PORTUGUESE	KB.A3502.011
	KEYBOARD DARFON (ASPIRE) CZECH	KB.A3502.012
	KEYBOARD DARFON (ASPIRE) HUNGARIAN	KB.A3502.013
	KEYBOARD DARFON (ASPIRE) RUSSIAN	KB.A3502.014
	KEYBOARD DARFON (ASPIRE) SWEDEN	KB.A3502.015
	KEYBOARD DARFON (ASPIRE) NORWEGIAN	KB.A3502.016
	KEYBOARD DARFON (ASPIRE) DANISH	KB.A3502.017
	KEYBOARD DARFON (ASPIRE) ARABIC	KB.A3502.018
	KEYBOARD DARFON (ASPIRE) BRAZILIAN PORTUGUESE	KB.A3502.019
	KEYBOARD DARFON (ASPIRE) CANADIAN FRENCH	KB.A3502.020
	KEYBOARD DARFON (ASPIRE) GREEK	KB.A3502.021
	KEYBOARD DARFON (ASPIRE) TURKISH	KB.A3502.022
	KEYBOARD DARFON (ASPIRE) HEBREW	KB.A3502.023
	KEYBOARD DARFON (ASPIRE) KOREA	
	KEYBOARD DARFON (ASPIRE) HL	
	KEYBOARD DARFON (ASPIRE) LA	
	KEYBOARD DARFON (ASPIRE) ICE LAND	
	KEYBOARD DARFON (ASPIRE) JAPAN	
LCD		
	ASSY LCD MODULE 14 IN. XGA AU (B141XG05) WIRELESS	6M.A35V5.001
	ASSY LCD MODULE 14 IN. XGA CMO (N141XB0L01) WIRELESS	6M.A35V5.002
	ASSY LCD MODULE 14 IN. XGA TOPPOLY (TD141TGCD1) WIRELESS	6M.A35V5.003
	ASSY LCD MODULE 15 IN. XGA AU (B150XG01 V.2) WIRELESS	6M.A35V5.004
	ASSY LCD MODULE 15 IN. XGA HIT (TX38D81VC1CAB Rev.B) WIRELESS	6M.A35V5.005
	ASSY LCD MODULE 15 IN. XGA CMO (N150X3-L07) WIRELESS	6M.A35V5.006

PHOTO	PARTNAME	ACER P/N
	ASSY LCD MODULE 15 IN. XGA SAM (LTN150XB-L03-C00) WIRELESS	6M.A35V5.007
	ASSY LCD MODULE 15 IN. XGA LG (LP150X08-A3) WIRELESS	6M.A35V5.008
	ASSY LCD MODULE 15.4 IN. WXGA AU (B154EW01 V5) WIRELESS	6M.A35V5.009
	ASSY LCD MODULE 15.4 IN. WXGA HIT (TX39D85VC1FAA) WIRELESS	6M.A35V5.010
	ASSY LCD MODULE 15.4 IN. WXGA CMO (N154I1-09) WIRELESS	6M.A35V5.011
	ASSY LCD MODULE 15.4 IN. WXGA QDI (QD15TL02) WIRELESS	6M.A35V5.012
	ASSY LCD MODULE 14 IN. XGA AU (B141XG05)	6M.A35V5.013
	ASSY LCD MODULE 14 IN. XGA CMO (N141XB0L01)	6M.A35V5.014
	ASSY LCD MODULE 14 IN. XGA TOPPOLY (TD141TGCD1)	6M.A35V5.015
	ASSY LCD MODULE 15 IN. XGA AU (B150XG01 V.2)	6M.A35V5.016
	ASSY LCD MODULE 15 IN. XGA HIT (TX38D81VC1CAB Rev.B)	6M.A35V5.017
	ASSY LCD MODULE 15 IN. XGA CMO (N150X3-L07)	6M.A35V5.018
	ASSY LCD MODULE 15 IN. XGA SAM (LTN150XB-L03-C00)	6M.A35V5.019
	ASSY LCD MODULE 15 IN. XGA LG (LP150X08-A3)	6M.A35V5.020
	ASSY LCD MODULE 15.4 IN. WXGA AU (B154EW01 V5)	6M.A35V5.021
	ASSY LCD MODULE 15.4 IN. WXGA HIT (TX39D85VC1FAA)	6M.A35V5.022
	ASSY LCD MODULE 15.4 IN. WXGA CMO (N154I1-09)	6M.A35V5.023
	ASSY LCD MODULE 15.4 IN. WXGA QDI (QD15TL02)	6M.A35V5.024
	LCD 14 IN. XGA AU (B141XG05)	LK.14105.006
	LCD 14 IN. XGA CMO (N141XB-L01)	LK.1410D.003
	LCD 14 IN. XGA TOPPOLY (TD141TGCD1)	LK.14101.002
	LCD 15 IN. XGA AU (B150XG01 V.2)	LK.15005.001
	LCD 15 IN. XGA HIT (TX38D81VC1CAB Rev.B)	LK.15004.006
	LCD 15 IN. XGA CMO (N150X3-L07)	LK.1500D.006
	LCD 15 IN. XGA SAM (LTN150XB-L03-C00)	LK.15006.005
	LCD 15 IN. XGA LG (LP150X08-A3)	LK.15008.007
	LCD 15.4 IN. WXGA AU (B154EW01 V5)	LK.15405.002
	LCD 15.4 IN. WXGA HIT (TX39D85VC1FAA)	LK.15404.003

PHOTO	PARTNAME	ACER P/N
	LCD 15.4 IN. WXGA CMO (N154I1-09)	LK.1540D.002
	LCD 15.4 IN. WXGA QDI (QD15TL02)	TBD
	LCD 14 IN. XGA AU (B141XG05)	LK.14105.006
	LCD 14 IN. XGA CMO (N141XB-L01)	LK.1410D.003
	LCD 14 IN. XGA TOPPOLY (TD141TGCD1)	LK.14101.002
	LCD 15 IN. XGA AU (B150XG01 V.2)	LK.15005.001
	LCD 15 IN. XGA HIT (TX38D81VC1CAB Rev.B)	LK.15004.006
	LCD 15 IN. XGA CMO (N150X3-L07)	LK.1500D.006
	LCD 15 IN. XGA SAM (LTN150XB-L03-C00)	LK.15006.005
	LCD 15 IN. XGA LG (LP150X08-A3)	LK.15008.007
	LCD 15.4 IN. WXGA AU (B154EW01 V5)	LK.15405.002
	LCD 15.4 IN. WXGA HIT (TX39D85VC1FAA)	LK.15404.003
	LCD 15.4 IN. WXGA CMO (N154I1-09)	LK.1540D.002
	LCD 15.4 IN. WXGA QDI (QD15TL02)	TBD
BOARD		
	LCD INVERTER 14 IN. & 15 IN.	19.T59V5.001
	LCD INVERTER 15.4 IN.	19.T59V5.002
CASE/COVER/BRACKET ASSEMBLY		
	LCD PANEL WITH LOGO W/ANTENNA - 14 IN. & 15 IN.	60.A35V5.007
	LCD BEZEL - 14 IN. - W/AS1670 NAME PLATE	60.A35V5.003
	LCD BRACKET 14 IN. - L	33.T59V5.008
	LCD BRACKET 14 IN. - R	33.T59V5.009
	LCD BEZEL - 15 IN. - W/AS1670 NAME PLATE	60.A35V5.004
	LCD BRACKET 15 IN. - L	33.T59V5.010
	LCD BRACKET 15 IN. - R	33.T59V5.011
	LCD PANEL WITH LOGO W/ANTENNA - 15.4 IN.	60.A35V5.008
	LCD BEZEL - 15.4 IN. W/AS1670 NAME PLATE	60.A35V5.005
	LCD BRACKET 15.4 IN. - L	33.T59V5.012
	LCD BRACKET 15.4 IN. - R	33.T59V5.013
	LCD PANEL WITH LOGO W/O ANTENNA - 14 IN. & 15 IN.	60.A35V5.009
	LCD PANEL WITH LOGO W/O ANTENNA - 15.4 IN.	60.A35V5.010
CABLE		
	LCD WIRE - 14 IN.	50.T59V5.005
	LCD WIRE - 15 IN.	50.T59V5.006
	LCD WIRE - 15.4 IN.	50.T59V5.007
MISCELLANEOUS		
	LCD RUBBER	47.T59V5.001
	LCD SCREW PAD	47.T59V5.002
MAINBOARD		
	MAINBOARD DISCRETE ATi M11P W/1394, S-VIDEO, CARD READER, W/O CPU MEMORY	LB.T5902.003
CASE/COVER/BRACKET ASSEMBLY		

PHOTO	PARTNAME	ACER P/N
	PCMCIA SLOT	22.T59V5.001
FAN		
	FAN - MAIN	23.T59V5.001
	FAN - SECOND	23.T59V5.002
HEATSINK		
	THERMAL MODULE	60.T59V5.007
POINTING DEVICE		
	TOUCHPAD TM42PUF1372	56.T59V5.001
SPEAKER		
	SPEAKER SET (R&L) 2W	23.T59V5.003
MISCELLANEOUS		
	RUBBER FOOT - BIG	447.T59V5.003
	RUBBER FOOT - SMALL	47.T59V5.004
SCREW LIST		
	SCREW M2.5*5 NI-NYLOK	86.T59V5.001
	SCREW M2.5*6 NYLOK	86.T59V5.002
	SCREW M2.5*18 NYLOK	86.T59V5.003
	SCREW M2*3 NYLOK	86.T59V5.004
	SCREW BTP M2*3 NYLOK	86.T59V5.005
	SCREW M2*6 NYLOK	86.T59V5.006
	SCREW M3*4 NYLOK	86.T59V5.007
	SCREW M2*3 NI-NYLOK	86.T59V5.008
	SCREW D-SUB NUT	86.T59V5.009
	SCREW THERMAL SCREW	86.T59V5.010
	SCREW M2*3	86.T59V5.011
	SCREW M2*4	86.T59V5.012
	SCREW M2*10	86.T59V5.013
	SCREW VGA THERMAL SCREW	86.T59V5.014
MEMORY		
	256MB NANYA SO-DIMM DDR333 256MB NT256D64SH8BAGM-6K (.14u)	KN.25603.009
	256M Infineon SO-DIMM DDR333 256MB HYS64D32020HDL-6-C 32x64 (.11u/G) (MP in Sept.)	KN.25602.012
	256M Micron SO-DIMM DDR333 256MB MT4VDDT3264HG-335C2	KN.25604.016
	256M Samsung SO-DIMM DDR333 256MB M470L3224FT0-CB3 (.13u)	KN.2560B.008
	512M Infineon SO-DIMM DDR333 512MB HYS64D64020GBDL-6-C (.11u/B)	KN.51202.013
	512MB Micron SO-DIMM DDR333 512MB MT8VDDT6464HDG-335C1 (.11u),	KN.51204.013
CPU/PROCESSOR		

PHOTO	PARTNAME	ACER P/N
ADAPTER		
	ADAPTER W/LED 3 PIN 135W DELTA ADP-135DB BBE	AP.13501.001
	ADAPTER W/O LED 3 PIN 135W LITEON PA-1131-08CR	AP.13503.001
	ADAPTER W/O LED 3PIN 135W HIPRO HP-OW135FCP	AP.1350A.001
BATTERY		
	Li-Ion Tern 4S2P 4.0Ah High rate Sanyo pack and cells	BT.00803.001
	Li-Ion Tern 4S2P 4.0Ah High rate sony pack and cells	BT.00804.001
BOARD		
	MODEM BOARD AMBIT	54.T59V5.001
	MINI PCI WIRELESS BOARD 802.11 b/g FOXCONN T60N871.00	54.T59V5.002
	BLUETOOTH CARD WNC 91.BU513.001 BT+ANT	54.T59V5.003
	T/P BOARD	55.T59V5.001
CABLES		
	MODEM CABLE	50.T59V5.001
	FFC CABLE - T/P TO T/P BOARD	50.T59V5.002
	FFC CABLE - T/P TO MB	50.T59V5.003
	POWER CORD US 3 PIN	27.T59V5.001
	POWER CORD EC 3 PIN	27.T59V5.002
	POWER CORD UK 3 PIN	27.T59V5.003
	POWER CORD ITALIAN 3 PIN	27.T59V5.004
	POWER CORD AUS 3 PIN	27.T59V5.005
	POWER CORD CHINA 3 PIN	27.T59V5.006
	POWER CORD DENMARK 3 PIN	27.T59V5.007
	POWER CORD SWISS 3 PIN	27.T59V5.008
CASE/COVER/BRACKET ASSEMBLY		
	MIDDLE COVER W/BUTTON LOGO	42.A35V5.001

PHOTO	PARTNAME	ACER P/N
	LOWER CASE ASSY W/SPEAKER SET W/O FAN	60.A35V5.001
	UPPER CASE ASSY ERGO W/FRONT COVER (W/ UMA) - Travelmate	60.T59V5.002
	UPPER CASE ASSY ERGO W/FRONT COVER (DISCRETE) - Travelmate	60.T59V5.010
	TOUCHPAD SUPPORT PLATE	33.T59V5.001
	CPU SUPPORT PLATE	33.T59V5.002
	FAN COVER - MAIN	33.T59V5.003

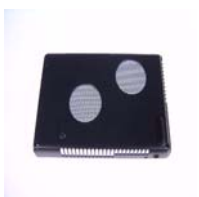
PHOTO	PARTNAME	ACER P/N
	FAN COVER - SECOND	33.T59V5.004
	THERMAL DOOR	33.T59V5.005
	PCMCIA DUMMY CARD	42.T59V5.003
COMMUNICATION MODULE		
	WIRELESS ANTENNA ASSY	50.T59V5.004
COMBO DRIVE		
	DVD/CDRW COMBO MODULE 24X QSI SBW-242C	6M.T59V5.001
	DVD/CDRW COMBO DRIVE 24X QSI SBW-242C	KO.02407.013
	DVD/CDRW COMBO 24X MODULE LITEON SOSC-2483K	6M.T59V5.002
	DVD/CDRW COMBO 24X DRIVE LITEON SOSC-2483K	KO.02409.006
	DVD/CDRW COMBO 24X MODULE KME UJDA-760	6M.T59V5.003
	DVD/CDRW COMBO 24X DRIVE KME UJDA-760	KO.02406.010
	DVD/CDRW COMBO 24X MODULE HLDS GCC-4243N	6M.T59V5.004
	DVD/CDRW COMBO 24X DRIVE HLDS GCC-4243N	KO.02405.005
	DVD/CDRW COMBO 24X MODULE COMPAL 650/4.7	6M.T59V5.005
	DVD/CDRW COMBO 24X DRIVE COMPAL 650/4.7	TBD
	DVD DUAL MODULE 4X QSI SDW-042	6M.T59V5.006
	DVD DUAL 4X DRIVE QSI SDW-042	KU.00403.002
	DVD DUAL MODULE 8X LITEON SOSW-852S	6M.T59V5.007

PHOTO	PARTNAME	ACER P/N
	DVD DUAL 8X DRIVE LITEON SOSW-852S	KU.00804.004
	DVD DUAL MODULE 8X PIONEER DVR-K14RA	6M.T59V5.008
	DVD DUAL 8X DRIVE PIONEER DVR-K14RA	KU.00805.002
	DVD SUPER MULTI MODULE 8X KME (UJ-830)	6M.T59V5.009
	DVD SUPER MULTI 8X DRIVE KME (UJ-830)	KU.00807.002
	DVD SUPER MULTI MODULE 8X HLDS (GSA-4080N)	6M.T59V5.010
	DVD SUPER MULTI 8X DRIVE HLDS (GSA-4080N)	KU.0080D.004
CASE/COVER/BRACKET ASSEMBLY		
	DVD/CDRW BEZEL FOR QSI	42.T59V5.004
	OPTICAL DEVICE BRACKET	33.T59V5.006
	DVD/CDRW BEZEL FOR LITEON	42.T59V5.005
	DVD/CDRW BEZEL FOR KME	42.T59V5.006
	DVD/CDRW BEZEL FOR HLDS	42.T59V5.007
	DVD/CDRW BEZEL FOR COMPAL	42.T59V5.008
	DVD DUAL BEZEL FOR QSI	42.T59V5.009
	DVD DUAL BEZEL FOR LITEON	42.T59V5.010
	DVD DUAL BEZEL FOR LITEON	42.T59V5.011
	DVD SUPER MULTI BEZEL FOR KME	42.T59V5.012
	DVD SUPER MULTI BEZEL FOR HLDS	42.T59V5.013
HDD/HARD DISK DRIVE		
	30G HGST 2.5 IN. 4200 MORAGA+ HTS424030M9AT00 13G1486 FW:DA1017	KH.03007.006
	TOSHIBA PLUTO 30G 4200RPM MK3025GAS	KH.03004.002
	40G HGST 2.5 IN. 4200 MORAGA+ HTS424040M9AT00 13G1132 FW:DA1017	KH.04007.010
	TOSHIBA PLUTO 40G 4200RPM MK4025GAS ,KA100A F/W:KA100A	KH.04004.002
	SEAGATE 40G 4200RPM ST94019A, 2MB F/W:3.05	KH.04001.010
	HGST 60G 4200RPM MORAGA IC25N060ATMR04-0 08K0634 F/W:AD4A	KH.06007.006
	TOSHIBA PLUTO 60G 4200RPM MK6025GAS (PHASE IN MAR/APR) F/W:KA200A	KH.06004.003
	HGST 80G 4200RPM MORAGA IC25N080ATMR04-0 08K635 F/W:AD4A	KH.08007.007
	TOSHIBA PLUTO 80G 4200RPM MK8025GAS, 8MB F/W:KA023A	KH.08004.001
CASE/COVER/BRACKET ASSEMBLY		

PHOTO	PARTNAME	ACER P/N
	HDD CARRIER	33.T59V5.007
	HDD CONNECTOR	42.T59V5.014
KEYBOARD		
	KEYBOARD DARFON CZECH KEYBOARD DARFON CHINESE KEYBOARD DARFON THAI KEYBOARD DARFON HEBREW KEYBOARD DARFON KOREA KEYBOARD DARFON ARABIC KEYBOARD DARFON US INTERNATIONAL KEYBOARD DARFON RUSSIAN KEYBOARD DARFON UK KEYBOARD DARFON SWEDEN KEYBOARD DARFON FRENCH KEYBOARD DARFON PORTUGUESE	KB.T5902.012 KB.T5902.001 KB.T5902.003 KB.T5902.023 KB.T5902.018 KB.T5902.002 KB.T5902.014 KB.T5902.005 KB.T5902.015 KB.T5902.007 KB.T5902.011
	KEYBOARD DARFON HL KEYBOARD DARFON BRAZILIAN PORTUGUESE KEYBOARD DARFON SWISS/G KEYBOARD DARFON DANISH KEYBOARD DARFON ITALIAN KEYBOARD DARFON BELGIUM KEYBOARD DARFON GERMAN KEYBOARD DARFON GREEK KEYBOARD DARFON CANADIAN FRENCH KEYBOARD DARFON NORWEGIAN KEYBOARD DARFON HUNGARIAN KEYBOARD DARFON SPANISH	 KB.T5902.019 KB.T5902.008 KB.T5902.017 KB.T5902.006 KB.T5902.009 KB.T5902.004 KB.T5902.021 KB.T5902.020 KB.T5902.016 KB.T5902.013 KB.T5902.010
	KEYBOARD DARFON LA KEYBOARD DARFON ICE LAND KEYBOARD DARFON TURKISH KEYBOARD DARFON JAPAN	KB.T5902.022
LCD		
	ASSY LCD MODULE 14 IN. XGA AU (B141XG05) WIRELESS	6M.T59V5.011
	ASSY LCD MODULE 14 IN. XGA CMO (N141XB0L01) WIRELESS	6M.T59V5.012
	ASSY LCD MODULE 14 IN. XGA TOPPOLY (TD141TGCD1) WIRELESS	6M.T59V5.013
	ASSY LCD MODULE 15 IN. XGA AU (B150XG01 V.2) WIRELESS	6M.T59V5.014

PHOTO	PARTNAME	ACER P/N
	ASSY LCD MODULE 15 IN. XGA HIT (TX38D81VC1CAB Rev.B) WIRELESS	6M.T59V5.015
	ASSY LCD MODULE 15 IN. XGA CMO (N150X3-L07) WIRELESS	6M.T59V5.016
	ASSY LCD MODULE 15 IN. XGA SAM (LTN150XB-L03-C00) WIRELESS	6M.T59V5.017
	ASSY LCD MODULE 15 IN. XGA LG (LP150X08-A3) WIRELESS	6M.T59V5.018
	ASSY LCD MODULE 15.4 IN. WXGA AU (B154EW01 V5) WIRELESS	6M.T59V5.019
	ASSY LCD MODULE 15.4 IN. WXGA HIT (TX39D85VC1FAA) WIRELESS	6M.T59V5.020
	ASSY LCD MODULE 15.4 IN. WXGA CMO (N154I1-09) WIRELESS	6M.T59V5.021
	ASSY LCD MODULE 15.4 IN. WXGA QDI (QD15TL02) WIRELESS	6M.T59V5.022
	ASSY LCD MODULE 14 IN. XGA AU (B141XG05)	6M.T59V5.023
	ASSY LCD MODULE 14 IN. XGA CMO (N141XB0L01)	6M.T59V5.024
	ASSY LCD MODULE 14 IN. XGA TOPPOLY (TD141TGCD1)	6M.T59V5.025
	ASSY LCD MODULE 15 IN. XGA AU (B150XG01 V.2)	6M.T59V5.026
	ASSY LCD MODULE 15 IN. XGA HIT (TX38D81VC1CAB Rev.B)	6M.T59V5.027
	ASSY LCD MODULE 15 IN. XGA CMO (N150X3-L07)	6M.T59V5.028
	ASSY LCD MODULE 15 IN. XGA SAM (LTN150XB-L03-C00)	6M.T59V5.029
	ASSY LCD MODULE 15 IN. XGA LG (LP150X08-A3)	6M.T59V5.030
	ASSY LCD MODULE 15.4 IN. WXGA AU (B154EW01 V5)	6M.T59V5.031
	ASSY LCD MODULE 15.4 IN. WXGA HIT (TX39D85VC1FAA)	6M.T59V5.032
	ASSY LCD MODULE 15.4 IN. WXGA CMO (N154I1-09)	6M.T59V5.033
	ASSY LCD MODULE 15.4 IN. WXGA QDI (QD15TL02)	6M.T59V5.034
	LCD 14 IN. XGA AU (B141XG05)	LK.14105.006
	LCD 14 IN. XGA CMO (N141XB-L01)	LK.1410D.003
	LCD 14 IN. XGA TOPPOLY (TD141TGCD1)	LK.14101.002
	LCD 15 IN. XGA AU (B150XG01 V.2)	LK.15005.001
	LCD 15 IN. XGA HIT (TX38D81VC1CAB Rev.B)	LK.15004.006
	LCD 15 IN. XGA CMO (N150X3-L07)	LK.1500D.006
	LCD 15 IN. XGA SAM (LTN150XB-L03-C00)	LK.15006.005

PHOTO	PARTNAME	ACER P/N
	LCD 15 IN. XGA LG (LP150X08-A3)	LK.15008.007
	LCD 15.4 IN. WXGA AU (B154EW01 V5)	LK.15405.002
	LCD 15.4 IN. WXGA HIT (TX39D85VC1FAA)	LK.15404.003
	LCD 15.4 IN. WXGA CMO (N154I1-09)	LK.1540D.002
	LCD 15.4 IN. WXGA QDI (QD15TL02)	TBD
	LCD 14 IN. XGA AU (B141XG05)	LK.14105.006
	LCD 14 IN. XGA CMO (N141XB-L01)	LK.1410D.003
	LCD 14 IN. XGA TOPPOLY (TD141TGCD1)	LK.14101.002
	LCD 15 IN. XGA AU (B150XG01 V.2)	LK.15005.001
	LCD 15 IN. XGA HIT (TX38D81VC1CAB Rev.B)	LK.15004.006
	LCD 15 IN. XGA CMO (N150X3-L07)	LK.1500D.006
	LCD 15 IN. XGA SAM (LTN150XB-L03-C00)	LK.15006.005
	LCD 15 IN. XGA LG (LP150X08-A3)	LK.15008.007
	LCD 15.4 IN. WXGA AU (B154EW01 V5)	LK.15405.002
	LCD 15.4 IN. WXGA HIT (TX39D85VC1FAA)	LK.15404.003
	LCD 15.4 IN. WXGA CMO (N154I1-09)	LK.1540D.002
	LCD 15.4 IN. WXGA QDI (QD15TL02)	TBD
BOARD		
	LCD INVERTER 14 IN. & 15 IN.	19.T59V5.001
	LCD INVERTER 15.4 IN.	19.T59V5.002
CASE/COVER/BRACKET ASSEMBLY		
	LCD PANEL WITH LOGO W/ANTENNA - 14 IN. & 15 IN.	60.T59V5.003
	LCD BEZEL - 14 IN. - W/TM2200 NAME PLATE	60.T59V5.004
	LCD BRACKET 14 IN. - L	33.T59V5.008
	LCD BRACKET 14 IN. - R	33.T59V5.009

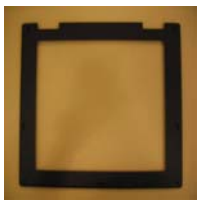
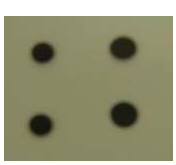
PHOTO	PARTNAME	ACER P/N
	LCD BEZEL - 15 IN. - W/TM2200 NAME PLATE	60.T59V5.005
	LCD BRACKET 15 IN. - L	33.T59V5.010
	LCD BRACKET 15 IN. - R	33.T59V5.011
	LCD PANEL WITH LOGO W/ANTENNA - 15.4 IN.	60.T59V5.011
	LCD BEZEL - 15.4 IN. W/TM2200 NAME PLATE	60.T59V5.006
	LCD BRACKET 15.4 IN. - L	33.T59V5.012
	LCD BRACKET 15.4 IN. - R	33.T59V5.013
	LCD PANEL WITH LOGO W/O ANTENNA - 14 IN. & 15 IN.	60.T59V5.008
	LCD PANEL WITH LOGO W/O ANTENNA - 15.4 IN.	60.T59V5.009
CABLE		
	LCD WIRE - 14 IN.	50.T59V5.005
	LCD WIRE - 15 IN.	50.T59V5.006
	LCD WIRE - 15.4 IN.	50.T59V5.007
MISCELLANEOUS		
	LCD RUBBER	47.T59V5.001
	LCD SCREW PAD	47.T59V5.002
MAINBOARD		
	MAINBOARD UMA W/O 1394, S-VIDEO, CARD READER, CPU, MEMORY	LB.T5902.001
CASE/COVER/BRACKET ASSEMBLY		
	PCMCIA SLOT	22.T59V5.001
FAN		

PHOTO	PARTNAME	ACER P/N
	FAN - MAIN	23.T59V5.001
	FAN - SECOND	23.T59V5.002
HEATSINK		
	THERMAL MODULE	60.T59V5.007
POINTING DEVICE		
	TOUCHPAD TM42PUF1372	56.T59V5.001
SPEAKER		
	SPEAKER SET (R&L) 2W	23.T59V5.003
MISCELLANEOUS		
	RUBBER FOOT - BIG	47.T59V5.003
	RUBBER FOOT - SMALL	47.T59V5.004
SCREW LIST		

PHOTO	PARTNAME	ACER P/N
	SCREW M2.5*5 NI-NYLOK	86.T59V5.001
	SCREW M2.5*6 NYLOK	86.T59V5.002
	SCREW M2.5*18 NYLOK	86.T59V5.003
	SCREW M2*3 NYLOK	86.T59V5.004
	SCREW BTP M2*3 NYLOK	86.T59V5.005
	SCREW M2*6 NYLOK	86.T59V5.006
	SCREW M3*4 NYLOK	86.T59V5.007
	SCREW M2*3 NI-NYLOK	86.T59V5.008
	SCREW D-SUB NUT	86.T59V5.009
	SCREW THERMAL SCREW	86.T59V5.010
	SCREW M2*3	86.T59V5.011
	SCREW M2*4	86.T59V5.012
	SCREW M2*10	86.T59V5.013
	SCREW VGA THERMAL SCREW	86.T59V5.014
MEMORY		
	256MB NANYA SO-DIMM DDR333 256MB NT256D64SH8BAGM-6K (.14u)	KN.25603.009
	256M Infineon SO-DIMM DDR333 256MB HYS64D32020HDL-6-C 32x64 (.11u/G) (MP in Sept.)	KN.25602.012
	256M Micron SO-DIMM DDR333 256MB MT4VDDT3264HG-335C2	KN.25604.016
	256M Samsung SO-DIMM DDR333 256MB M470L3224FT0-CB3 (.13u)	KN.2560B.008
	512M Infineon SO-DIMM DDR333 512MB HYS64D64020GBDL-6-C (.11u/B)	KN.51202.013
	512MB Micron SO-DIMM DDR333 512MB MT8VDDT6464HDG-335C1 (.11u),	KN.51204.013

PHOTO	PARTNAME	ACER P/N
ADAPTER		
	ADAPTER W/LED 3 PIN 135W DELTA ADP-135DB BBE	AP.13501.001
	ADAPTER W/O LED 3 PIN 135W LITEON PA-1131-08CR	AP.13503.001
	ADAPTER W/O LED 3PIN 135W HIPRO HP-OW135FCP	AP.1350A.001
BATTERY		
	Li-Ion Tern 4S2P 4.0Ah High rate Sanyo pack and cells	BT.00803.001
	Li-Ion Tern 4S2P 4.0Ah High rate sony pack and cells	BT.00804.001
BOARD		
	MODEM BOARD AMBIT	54.T59V5.001
	MINI PCI WIRELESS BOARD 802.11 b/g FOXCONN T60N871.00	54.T59V5.002
	BLUETOOTH CARD WNC 91.BU513.001 BT+ANT	54.T59V5.003
	T/P BOARD	55.T59V5.001
CABLES		
	MODEM CABLE FFC CABLE - T/P TO T/P BOARD FFC CABLE - T/P TO MB POWER CORD US 3 PIN POWER CORD EC 3 PIN POWER CORD UK 3 PIN POWER CORD ITALIAN 3 PIN POWER CORD AUS 3 PIN POWER CORD CHINA 3 PIN POWER CORD DENMARK 3 PIN POWER CORD SWISS 3 PIN	50.T59V5.001 50.T59V5.002 50.T59V5.003 27.T59V5.001 27.T59V5.002 27.T59V5.003 27.T59V5.004 27.T59V5.005 27.T59V5.006 27.T59V5.007 27.T59V5.008
CASE/COVER/BRACKET ASSEMBLY		
	MIDDLE COVER W/BUTTON LOGO	42.A35V5.001
	LOWER CASE ASSY W/SPEAKER SET W/O FAN	60.A35V5.001
	UPPER CASE ASSY ERGO W/FRONT COVER (W/ UMA) - Travelmate	60.T59V5.002
	UPPER CASE ASSY ERGO W/FRONT COVER (DISCRETE) - Travelmate	60.T59V5.010
	TOUCHPAD SUPPORT PLATE	33.T59V5.001
	CPU SUPPORT PLATE	33.T59V5.002
	FAN COVER - MAIN	33.T59V5.003
	FAN COVER - SECOND	33.T59V5.004
	THERMAL DOOR	33.T59V5.005
	PCMCIA DUMMY CARD	42.T59V5.003
COMMUNICATION MODULE		

PHOTO	PARTNAME	ACER P/N
	WIRELESS ANTENNA ASSY	50.T59V5.004
COMBO DRIVE		
	DVD/CDRW COMBO MODULE 24X QSI SBW-242C	6M.T59V5.001
	DVD/CDRW COMBO DRIVE 24X QSI SBW-242C	KO.02407.013
	DVD/CDRW COMBO 24X MODULE LITEON SOSC-2483K	6M.T59V5.002
	DVD/CDRW COMBO 24X DRIVE LITEON SOSC-2483K	KO.02409.006
	DVD/CDRW COMBO 24X MODULE KME UJDA-760	6M.T59V5.003
	DVD/CDRW COMBO 24X DRIVE KME UJDA-760	KO.02406.010
	DVD/CDRW COMBO 24X MODULE HLDS GCC-4243N	6M.T59V5.004
	DVD/CDRW COMBO 24X DRIVE HLDS GCC-4243N	KO.02405.005
	DVD/CDRW COMBO 24X MODULE COMPAL 650/4.7	6M.T59V5.005
	DVD/CDRW COMBO 24X DRIVE COMPAL 650/4.7	TBD
	DVD DUAL MODULE 4X QSI SDW-042	6M.T59V5.006
	DVD DUAL 4X DRIVE QSI SDW-042	KU.00403.002
	DVD DUAL MODULE 8X LITEON SOSW-852S	6M.T59V5.007
	DVD DUAL 8X DRIVE LITEON SOSW-852S	KU.00804.004
	DVD DUAL MODULE 8X PIONEER DVR-K14RA	6M.T59V5.008
	DVD DUAL 8X DRIVE PIONEER DVR-K14RA	KU.00805.002
	DVD SUPER MULTI MODULE 8X KME (UJ-830)	6M.T59V5.009
	DVD SUPER MULTI 8X DRIVE KME (UJ-830)	KU.00807.002
	DVD SUPER MULTI MODULE 8X HLDS (GSA-4080N)	6M.T59V5.010
	DVD SUPER MULTI 8X DRIVE HLDS (GSA-4080N)	KU.0080D.004
CASE/COVER/BRACKET ASSEMBLY		
	DVD/CDRW BEZEL FOR QSI	42.T59V5.004
	OPTICAL DEVICE BRACKET	33.T59V5.006
	DVD/CDRW BEZEL FOR LITEON	42.T59V5.005
	DVD/CDRW BEZEL FOR KME	42.T59V5.006
	DVD/CDRW BEZEL FOR HLDS	42.T59V5.007
	DVD/CDRW BEZEL FOR COMPAL	42.T59V5.008
	DVD DUAL BEZEL FOR QSI	42.T59V5.009
	DVD DUAL BEZEL FOR LITEON	42.T59V5.010
	DVD DUAL BEZEL FOR LITEON	42.T59V5.011
	DVD SUPER MULTI BEZEL FOR KME	42.T59V5.012
	DVD SUPER MULTI BEZEL FOR HLDS	42.T59V5.013
HDD/HARD DISK DRIVE		
	30G HGST 2.5 IN. 4200 MORAGA+ HTS424030M9AT00 13G1486 FW:DA1017	KH.03007.006

PHOTO	PARTNAME	ACER P/N
	TOSHIBA PLUTO 30G 4200RPM MK3025GAS	KH.03004.002
	40G HGST 2.5 IN. 4200 MORAGA+ HTS424040M9AT00 13G1132 FW:DA1017	KH.04007.010
	TOSHIBA PLUTO 40G 4200RPM MK4025GAS ,KA100A F/W:KA100A	KH.04004.002
	SEAGATE 40G 4200RPM ST94019A, 2MB F/ W:3.05	KH.04001.010
	HGST 60G 4200RPM MORAGA IC25N060ATMR04-0 08K0634 F/W:AD4A	KH.06007.006
	TOSHIBA PLUTO 60G 4200RPM MK6025GAS (PHASE IN MAR/APR) F/W:KA200A	KH.06004.003
	HGST 80G 4200RPM MORAGA IC25N080ATMR04-0 08K635 F/W:AD4A	KH.08007.007
	TOSHIBA PLUTO 80G 4200RPM MK8025GAS, 8MB F/W:KA023A	KH.08004.001
CASE/COVER/BRACKET ASSEMBLY		
	HDD CARRIER	33.T59V5.007
	HDD CONNECTOR	42.T59V5.014
KEYBOARD		
	KEYBOARD DARFON CHINESE KEYBOARD DARFON US INTERNATIONAL KEYBOARD DARFON THAI KEYBOARD DARFON GERMAN KEYBOARD DARFON UK KEYBOARD DARFON ITALIAN KEYBOARD DARFON FRENCH KEYBOARD DARFON SWISS/G KEYBOARD DARFON BELGIUM KEYBOARD DARFON SPANISH KEYBOARD DARFON PORTUGUESE KEYBOARD DARFON CZECH KEYBOARD DARFON HUNGARIAN KEYBOARD DARFON RUSSIAN KEYBOARD DARFON SWEDEN KEYBOARD DARFON NORWEGIAN KEYBOARD DARFON DANISH KEYBOARD DARFON ARABIC KEYBOARD DARFON BRAZILIAN PORTUGUESE KEYBOARD DARFON CANADIAN FRENCH	KB.T5902.001 KB.T5902.002 KB.T5902.003 KB.T5902.004 KB.T5902.005 KB.T5902.006 KB.T5902.007 KB.T5902.008 KB.T5902.009 KB.T5902.010 KB.T5902.011 KB.T5902.012 KB.T5902.013 KB.T5902.014 KB.T5902.015 KB.T5902.016 KB.T5902.017 KB.T5902.018 KB.T5902.019 KB.T5902.020
	KEYBOARD DARFON GREEK KEYBOARD DARFON TURKISH KEYBOARD DARFON HEBREW KEYBOARD DARFON KOREA KEYBOARD DARFON HL KEYBOARD DARFON LA KEYBOARD DARFON ICE LAND KEYBOARD DARFON JAPAN	KB.T5902.021 KB.T5902.022 KB.T5902.023

PHOTO	PARTNAME	ACER P/N
LCD		
	ASSY LCD MODULE 14 IN. XGA AU (B141XG05) WIRELESS	6M.T60V5.001
	ASSY LCD MODULE 14 IN. XGA CMO (N141XB0L01) WIRELESS	6M.T60V5.002
	ASSY LCD MODULE 14 IN. XGA TOPPOLY (TD141TGCD1) WIRELESS	6M.T60V5.003
	ASSY LCD MODULE 15 IN. XGA AU (B150XG01 V.2) WIRELESS	6M.T60V5.004
	ASSY LCD MODULE 15 IN. XGA HIT (TX38D81VC1CAB Rev.B) WIRELESS	6M.T60V5.005
	ASSY LCD MODULE 15 IN. XGA CMO (N150X3-L07) WIRELESS	6M.T60V5.006
	ASSY LCD MODULE 15 IN. XGA SAM (LTN150XB-L03-C00) WIRELESS	6M.T60V5.007
	ASSY LCD MODULE 15 IN. XGA LG (LP150X08-A3) WIRELESS	6M.T60V5.008
	ASSY LCD MODULE 15.4 IN. WXGA AU (B154EW01 V5) WIRELESS	6M.T60V5.009
	ASSY LCD MODULE 15.4 IN. WXGA HIT (TX39D85VC1FAA) WIRELESS	6M.T60V5.010
	ASSY LCD MODULE 15.4 IN. WXGA CMO (N154I1-09) WIRELESS	6M.T60V5.011
	ASSY LCD MODULE 15.4 IN. WXGA QDI (QD15TL02) WIRELESS	6M.T60V5.012
	ASSY LCD MODULE 14 IN. XGA AU (B141XG05)	6M.T60V5.013
	ASSY LCD MODULE 14 IN. XGA CMO (N141XB0L01)	6M.T60V5.014
	ASSY LCD MODULE 14 IN. XGA TOPPOLY (TD141TGCD1)	6M.T60V5.015
	ASSY LCD MODULE 15 IN. XGA AU (B150XG01 V.2)	6M.T60V5.016
	ASSY LCD MODULE 15 IN. XGA HIT (TX38D81VC1CAB Rev.B)	6M.T60V5.017
	ASSY LCD MODULE 15 IN. XGA CMO (N150X3-L07)	6M.T60V5.018
	ASSY LCD MODULE 15 IN. XGA SAM (LTN150XB-L03-C00)	6M.T60V5.019
	ASSY LCD MODULE 15 IN. XGA LG (LP150X08-A3)	6M.T60V5.020
	ASSY LCD MODULE 15.4 IN. WXGA AU (B154EW01 V5)	6M.T60V5.021
	ASSY LCD MODULE 15.4 IN. WXGA HIT (TX39D85VC1FAA)	6M.T60V5.022
	ASSY LCD MODULE 15.4 IN. WXGA CMO (N154I1-09)	6M.T60V5.023

PHOTO	PARTNAME	ACER P/N
	ASSY LCD MODULE 15.4 IN. WXGA QDI (QD15TL02)	6M.T60V5.024
	LCD 14 IN. XGA AU (B141XG05)	LK.14105.006
	LCD 14 IN. XGA CMO (N141XB-L01)	LK.1410D.003
	LCD 14 IN. XGA TOPPOLY (TD141TGCD1)	LK.14101.002
	LCD 15 IN. XGA AU (B150XG01 V.2)	LK.15005.001
	LCD 15 IN. XGA HIT (TX38D81VC1CAB Rev.B)	LK.15004.006
	LCD 15 IN. XGA CMO (N150X3-L07)	LK.1500D.006
	LCD 15 IN. XGA SAM (LTN150XB-L03-C00)	LK.15006.005
	LCD 15 IN. XGA LG (LP150X08-A3)	LK.15008.007
	LCD 15.4 IN. WXGA AU (B154EW01 V5)	LK.15405.002
	LCD 15.4 IN. WXGA HIT (TX39D85VC1FAA)	LK.15404.003
	LCD 15.4 IN. WXGA CMO (N154I1-09)	LK.1540D.002
	LCD 15.4 IN. WXGA QDI (QD15TL02)	TBD
	LCD 14 IN. XGA AU (B141XG05)	LK.14105.006
	LCD 14 IN. XGA CMO (N141XB-L01)	LK.1410D.003
	LCD 14 IN. XGA TOPPOLY (TD141TGCD1)	LK.14101.002
	LCD 15 IN. XGA AU (B150XG01 V.2)	LK.15005.001
	LCD 15 IN. XGA HIT (TX38D81VC1CAB Rev.B)	LK.15004.006
	LCD 15 IN. XGA CMO (N150X3-L07)	LK.1500D.006
	LCD 15 IN. XGA SAM (LTN150XB-L03-C00)	LK.15006.005
	LCD 15 IN. XGA LG (LP150X08-A3)	LK.15008.007
	LCD 15.4 IN. WXGA AU (B154EW01 V5)	LK.15405.002
	LCD 15.4 IN. WXGA HIT (TX39D85VC1FAA)	LK.15404.003
	LCD 15.4 IN. WXGA CMO (N154I1-09)	LK.1540D.002
	LCD 15.4 IN. WXGA QDI (QD15TL02)	TBD
BOARD		
	LCD INVERTER 14 IN. & 15 IN.	19.T59V5.001
	LCD INVERTER 15.4 IN.	19.T59V5.002
CASE/COVER/BRACKET ASSEMBLY		
	LCD PANEL WITH LOGO W/ANTENNA - 14 IN. & 15 IN.	60.T59V5.003
	LCD BEZEL - 14 IN. - W/TM2700 NAME PLATE	60.T60V5.001
	LCD BRACKET 14 IN. - L	33.T59V5.008
	LCD BRACKET 14 IN. - R	33.T59V5.009
	LCD BEZEL - 15 IN. - W/TM2700 NAME PLATE	60.T60V5.002
	LCD BRACKET 15 IN. - L	33.T59V5.010
	LCD BRACKET 15 IN. - R	33.T59V5.011
	LCD PANEL WITH LOGO W/ANTENNA - 15.4 IN.	60.T59V5.011
	LCD BEZEL - 15.4 IN. W/TM2700 NAME PLATE	60.T60V5.003
	LCD BRACKET 15.4 IN. - L	33.T59V5.012
	LCD BRACKET 15.4 IN. - R	33.T59V5.013

PHOTO	PARTNAME	ACER P/N
	LCD PANEL WITH LOGO W/O ANTENNA - 14 IN. & 15 IN.	60.T59V5.008
	LCD PANEL WITH LOGO W/O ANTENNA - 15.4 IN.	60.T59V5.009
CABLE		
	LCD WIRE - 14 IN.	50.T59V5.005
	LCD WIRE - 15 IN.	50.T59V5.006
	LCD WIRE - 15.4 IN.	50.T59V5.007
MISCELLANEOUS		
	LCD RUBBER	47.T59V5.001
	LCD SCREW PAD	47.T59V5.002
MAINBOARD		
	MAINBOARD UMA W/O 1394, S-VIDEO, CARD READER, CPU, MEMORY	LB.T5902.001
CASE/COVER/BRACKET ASSEMBLY		
	PCMCIA SLOT	22.T59V5.001
FAN		
	FAN - MAIN	23.T59V5.001
	FAN - SECOND	23.T59V5.002
HEATSINK		
	THERMAL MODULE	60.T59V5.007
POINTING DEVICE		
	TOUCHPAD TM42PUF1372	56.T59V5.001
SPEAKER		
	SPEAKER SET (R&L) 2W	23.T59V5.003
MISCELLANEOUS		
	RUBBER FOOT - BIG	47.T59V5.003
	RUBBER FOOT - SMALL	47.T59V5.004
SCREW LIST		
	SCREW M2.5*5 NI-NYLOK SCREW M2.5*6 NYLOK SCREW M2.5*18 NYLOK SCREW M2*3 NYLOK SCREW BTP M2*3 NYLOK SCREW M2*6 NYLOK SCREW M3*4 NYLOK SCREW M2*3 NI-NYLOK SCREW D-SUB NUT SCREW THERMAL SCREW SCREW M2*3 SCREW M2*4 SCREW M2*10 SCREW VGA THERMAL SCREW	86.T59V5.001 86.T59V5.002 86.T59V5.003 86.T59V5.004 86.T59V5.005 86.T59V5.006 86.T59V5.007 86.T59V5.008 86.T59V5.009 86.T59V5.010 86.T59V5.011 86.T59V5.012 86.T59V5.013 86.T59V5.014
MEMORY		
	256MB NANYA SO-DIMM DDR333 256MB NT256D64SH8BAGM-6K (.14u)	KN.25603.009

PHOTO	PARTNAME	ACER P/N
	256M Infineon SO-DIMM DDR333 256MB HYS64D32020HDL-6-C 32x64 (.11u/G) (MP in Sept.)	KN.25602.012
	256M Micron SO-DIMM DDR333 256MB MT4VDDT3264HG-335C2	KN.25604.016
	256M Samsung SO-DIMM DDR333 256MB M470L3224FT0-CB3 (.13u)	KN.2560B.008
	512M Infineon SO-DIMM DDR333 512MB HYS64D64020GBDL-6-C (.11u/B)	KN.51202.013
	512MB Micron SO-DIMM DDR333 512MB MT8VDDT6464HDG-335C1 (.11u),	KN.51204.013

Model Definition and Configuration

Model Name Definition

TravelMate 2200 Model Name Definition

Model Number	LCD	CPU	Memory	HDD	ODD	Wireless LAN	OS
2201XC	14.1" XGA	ICP-D 330 (2.66GHz/ 533)	DDR333 1x256MB	30GB	24xCombo	N	XPH XPP
2201LC	15.0" XGA	ICP-D 330 (2.66GHz/ 533)	DDR333 1x256MB	40GB	24xCombo	N	XPH
2201LMi	15.0" XGA	ICP-D 330 (2.66GHz/ 533)	DDR333 1x256MB	40GB	4xDVD-Dual	802.11g-Tern	XPH
2203LC	15.0" XGA	ICP 2.8GHz	DDR333 1x256MB	40GB	24xCombo	N	XPP XPH
2203LMi	15.0" XGA	ICP 2.8GHz	DDR333 1x256MB	40GB	4xDVD-Dual	802.11g-Tern	XPH
2203LM	15.0" XGA	ICP 2.8GHz	DDR333 1x256MB	40GB	4xDVD-Dual	N	XPP
2201WLC	15.4" XGA	ICP-D 330 (2.66GHz/ 533)	DDR333 1x256MB	40GB	24xCombo	N	XPH
2201WLMi	15.4" XGA	ICP-D 330 (2.66GHz/ 533)	DDR333 1x256MB	40GB	4xDVD-Dual	802.11g-Tern	XPH
2201LM	15.0" XGA	ICP-D 330 (2.66GHz/ 533)	DDR333 1x256MB	40GB	4xDVD-Dual	N	XPP XPH

TravelMate 2700 Model Name Definition

Model Number	LCD	CPU	Memory	HDD	ODD	Wireless LAN	OS
2701LC	15.0"XGA	DT P4 2.8GHz/400	DDR3331x256MB DDR3332x256MB	40GB	24xCombo	N	XPH XPP
2701WLCi	15.4"WXGA	DT P4 2.8GHz/400	DDR3331x256MB	40GB	24xCombo	802.11g-Tern	XPH
2701WLMi	15.4"WXGA	DT P4 2.8GHz/400 DT P4 3.0EGHz/800/ 1M	DDR3331x256MB DDR2662x256MB DDR3332x256MB	40GB	4xDVD-Dual	802.11g-Tern	XPH XPP
2701LM	15.0"XGA	DT P4 2.8GHz/400	DDR3331x256MB	40GB	4xDVD-Dual	N	XPH
2702WLMi	15.4"WXGA	DT P4 3.0EGHz/800/ 1M	DDR3331x256MB DDR3332x256MB	40GB	4xDVD-Dual	802.11g-Tern	XPH XPP
2702LC	15.0"XGA	DT P4 3.0EGHz/800/ 1M	DDR3331x256MB	40GB	24xCombo	N	XPH XPP

TravelMate 2700 Model Name Definition

Model Number	LCD	CPU	Memory	HDD	ODD	Wireless LAN	OS
2702LM	15.0”XGA	DT P4 3.0EGHz/800/1M	DDR3331x256MB	40GB	4xDVD-Dual	802.11g-Tern	XPH XPP
2702WLM	15.4”WXGA	DT P4 3.0EGHz/800/1M	DDR3332x256MB	40GB	4xDVD-Dual	802.11g-Tern	XPH XPP

Aspire 1670 Model Name Definition

Model Number	LCD	CPU	Memory	HDD	ODD	Wireless LAN	OS
1671LMi	15.0”XGA	DT P4 2.8GHz/400/512K	DDR333 2x256MB	40G	4xDVD-Dual	802.11g-Tern	XPH
1672LMi	15.0”XGA	DT P4 2.8GHz/800/1M	DDR333 2x256MB	60G	4xDVD-Dual	802.11g-Tern	XPH
1671WLMi	15.4”WXGA	DT P4 2.8GHz/400/512K	DDR333 2x256MB	40G	4xDVD-Dual	802.11g-Tern	XPH
1672WLCi	15.4”WXGA	DT P4 3.0EGHz/800/1M	DDR333 2x256MB	60G	24xCombo	802.11g-Tern	XPH
1672WLMi	15.4”WXGA	DT P4 3.0GHz/800/1M	DDR333 2x256MB	60G	4xDVD-Dual	802.11g-Tern	XPH
1673WLMi	15.4”WXGA	DT P4 3.2EGHz/800/1M	DDR333 2x256MB	60G	4xDVD-Dual	802.11g-Tern	XPH
1674WLMi	15.4”WXGA	DT P4 3.4EGHz/800/1M	DDR333 2x256MB	80G	4xDVD-Dual	802.11g-Tern	XPH

Test Compatible Components

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

Refer to the following lists for components, adapter cards, and peripherals which have passed these tests. Regarding configuration, combination and test procedures, please refer to the Aspire 1670 and TravelMate 2200/2700 Compatibility Test. Report released by the Acer Mobile System Testing Department.

Aspire 1670

Aspire 1670

Item	Description
CPU	Northwood 2.80GHz/.13m/512K L2/400Mhz FSB
	Northwood 2.80GHz/.13m/512K L2/533Mhz FSB/HT Northwood 3.06GHz/.13m/512K L2/533Mhz FSB/HT Northwood 3.0GHz/.13m/512K L2/800Mhz FSB/HT Northwood 3.20GHz/.13m/512K L2/800Mhz FSB/HT Northwood 3.4Ghz/.13m/512k/800FSB/HT Precott 3 GHz/1MB L2/800 FSB/HT Precott 3.2GHz/1MB L2/800 FSB/HT Precott 3.4GHz/1MB L2/800 FSB/HT Precott 3.6GHz/1MB L2/800 FSB/HT Precott 3.8GHz/1MB L2/800 FSB/HT
	Northwood 2.80GHz/.13m/512K L2/533Mhz FSB/HT Northwood 3.0GHz/.13m/512K L2/800Mhz FSB/HT Northwood 3.20GHz/.13m/512K L2/800Mhz FSB/HT Precott 3 GHz/1MB L2/800 FSB/HT Precott 3.2GHz/1MB L2/800 FSB/HT Precott 3.4GHz/1MB L2/800 FSB/HT Precott 3.6GHz/1MB L2/800 FSB/HT
HDD	HDD 2.5" 30G HGST MORAGA+ HTS424030M9AT00 13G1486, f/w:A60M HDD 2.5" 30G TOSHIBA Pluto MK3025GAS (Phase in : Apr/May), f.w: KA300A HDD 2.5" 40G HGST MORAGA+ HTS424040M9AT00 13G1132, f/w: A60M HDD 2.5" 40G TOSHIBA Pluto MK4025GAS ,KA100A, f/w:KA100A HDD 2.5" 40G Seagate N1 ST94019A, 2MB, f/w: 3.05 HDD 2.5" 60G HGST MORAGA IC25N060ATMR04-0 08K0634, f/w: AD4A HDD 2.5" 60G TOSHIBA Pluto MK6025GAS, f/w:KA200A HDD 2.5" 60G FUJITSU V-40+ MHT2060AT, A3 f/w:0022 HDD 2.5" 60G Seagate N2 (50) HDD 2.5" 80G Moraga HGST IC25N080ATMR04-0 08K635 f/w: AD4A HDD 2.5" 80G TOSHIBA Pluto MK8025GAS, 8MB f/w:KA023A HDD 2.5" 60G V-40+ FUJITSU MHT2080AT, A3, f/w:0022

Aspire 1670

Item	Description
LCD	14.1"XGAB141XG05 14.1"XGAB141XG10 14.1"XGAQD141X1LH12 14.1"XGAN141XB-L01 14.1"XGATD141TGCD1
	15"XGAB150XG01 V2 15"XGAB150XG02 V.2 15"XGAQD150XL06-01 15"XGALP150X08-A3 15"XGALTN150XB-L03-C00 15"XGATX38D81VC1CAB Rev.B 15"XGAN150X3-L07
	15.4"WXGALOW COST 15.4"WXGALOW COST 15.4"WXGAN154I1-L09 (LOW COST) 15.4"WXGAB154EW01 V.5 (LOW COST) 15.4"WXGATX39D85VC1FAA (LOW COST)
Optical Drive	Combo 24XSBW-242C Combo 24XSOSC-2483K Combo 24XUJDA-760 Combo 24XGCC-4243N Combo 24X650/4.7 .5"H TSB24H1
	DVD Dual 8XSDW-042 DVD Dual 8XSOSW-852S DVD Dual 8XDVR-K14RA DVD Super Multi 8XUJ-830B DVD Super Multi 8XGSA-4080N
Memory	SO-DIMM DDR333 256MB NT256D64SH8BAGM-6K (.14u) SO-DIMM DDR333 256MB HYS64D32020HDL-6-C 32x64 (.11u/G) SO-DIMM DDR333 256MB MT4VDDT3264HG-335C2 (0.11u/ 512Mb) SO-DIMM DDR333 256MB M470L3224FT0-CB3 (.13u) SO-DIMM DDR333 256MB MT8VDDT3264HDG-335F4 SO-DIMM DDR333 512MB HYS64D64020GBDL-6-C (.11u/B) SO-DIMM DDR333 512MB MT8VDDT6464HDG-335C1 (.11u/ 512Mb) SO-DIMM DDR333 512MB M470L6524BT0-CB3
Battery	Li-Ion Tern 4S2P 4.0Ah High rate Sanyo pack and cells Li-Ion Tern 4S2P 4.0Ah High rate sony pack and cells Li-Ion Tern 4S2P 4.4Ah Sanyo pack and cells Li-Ion Tern 4S2P 4.4Ah sony pack and cells
Mainboard	Tern1 MAINBOARD (Discreet VGA-M11P, w/ 1394+S-Video&Card Reader)
Adapter	PA-1131-08AC, 135W
	ADP-135DB BBA, 135W
	HP-OW135F, 135W

Aspire 1670

Item	Description
Keyboard	Aspire 1670 KEYBOARD Chinese Aspire 1670 KEYBOARD US International Aspire 1670 KEYBOARD ThaiAspire 1670 KEYBOARD German Aspire 1670 KEYBOARD UK Aspire 1670 KEYBOARD Italian Aspire 1670 KEYBOARD French Aspire 1670 KEYBOARD Swiss/G
	Aspire 1670 KEYBOARD Belgium Aspire 1670 KEYBOARD Spanish Aspire 1670 KEYBOARD Portuguese Aspire 1670 KEYBOARD Czech Aspire 1670 KEYBOARD Hungarian Aspire 1670 KEYBOARD Russian Aspire 1670 KEYBOARD Sweden Aspire 1670 KEYBOARD Norwegian Aspire 1670 KEYBOARD Danish Aspire 1670 KEYBOARD Arabic Aspire 1670 KEYBOARD Brazilian Portuguese Aspire 1670 KEYBOARD Canadian French Aspire 1670 KEYBOARD Greek Aspire 1670 KEYBOARD Turkish Aspire 1670 KEYBOARD Hebrew

TravelMate 2200

TravelMate 2200

Item	Description
CPU	Celeron 2.4GHz/400FSB/128K Celeron 2.5GHz/400FSB/128K Celeron 2.6GHz/400FSB/128K Celeron 2.7GHz/400FSB/128K Celeron 2.8GHz/400FSB/128K
	Celeron Precott 2.53GHz/533FSB/512K Celeron Precott 2.66GHz/533FSB/512K, C-stepping Celeron Precott 2.66GHz/533FSB/512K, D-stepping Celeron Precott 2.80GHz/533FSB/512K Celeron Precott 3.06GHz/533FSB/512K Celeron Precott 3.2GHz/533FSB/512K
HDD	 HDD 2.5" 30G HGST MORAGA+ HTS424030M9AT00 13G1486, f/w:A60M HDD 2.5" 30G TOSHIBA Pluto MK3025GAS (Phase in : Apr/May), f.w: KA300A HDD 2.5" 40G HGST MORAGA+ HTS424040M9AT00 13G1132, f/w: A60M HDD 2.5" 40G TOSHIBA Pluto MK4025GAS ,KA100A, f/w:KA100A HDD 2.5" 40G Seagate N1 ST94019A, 2MB, f/w: 3.05 HDD 2.5" 60G HGST MORAGA IC25N060ATMR04-0 08K0634, f/w: AD4A HDD 2.5" 60G TOSHIBA Pluto MK6025GAS, f/w:KA200A HDD 2.5" 60G FUJITSU V-40+ MHT2060AT, A3 f/w:0022 HDD 2.5" 60G Seagate N2 (50) HDD 2.5" 80G Moraga HGST IC25N080ATMR04-0 08K635 f/w: AD4A HDD 2.5" 80G TOSHIBA Pluto MK8025GAS, 8MB f/w:KA023A HDD 2.5" 60G V-40+ FUJITSU MHT2080AT, A3, f/w:0022
LCD	14.1"XGAB141XG05 14.1"XGAB141XG10 14.1"XGAQD141X1LH12 14.1"XGAN141XB-L01 14.1"XGATD141TGCD1
	15"XGAB150XG01 V2 15"XGAB150XG02 V.2 15"XGAQD150XL06-01 15"XGALP150X08-A3 15"XGALTN150XB-L03-C00 15"XGATX38D81VC1CAB Rev.B 15"XGAN150X3-L07

TravelMate 2200

Item	Description
	15.4"WXGALOW COST 15.4"WXGALOW COST 15.4"WXGAN154I1-L09 (LOW COST) 15.4"WXGAB154EW01 V.5 (LOW COST) 15.4"WXGATX39D85VC1FAA (LOW COST)
Optical Drive	Combo 24XSBW-242C Combo 24XSOSC-2483K Combo 24XUJDA-760 Combo 24XGCC-4243N Combo 24X650/4.7 .5"H TSB24H1
	DVD Dual 8XSDW-042 DVD Dual 8XSOSW-852S DVD Dual 8XDVR-K14RA DVD Super Multi 8XUJ-830B DVD Super Multi 8XGSA-4080N
Memory	SO-DIMM DDR333 256MB NT256D64SH8BAGM-6K (.14u) SO-DIMM DDR333 256MB HYS64D32020HDL-6-C 32x64 (.11u/G) SO-DIMM DDR333 256MB MT4VDDT3264HG-335C2 (0.11u/ 512Mb) SO-DIMM DDR333 256MB M470L3224FT0-CB3 (.13u) SO-DIMM DDR333 256MB MT8VDDT3264HDG-335F4 SO-DIMM DDR333 512MB HYS64D64020GBDL-6-C (.11u/B) SO-DIMM DDR333 512MB MT8VDDT6464HDG-335C1 (.11u/ 512Mb) SO-DIMM DDR333 512MB M470L6524BT0-CB3
Battery	Li-Ion Tern 4S2P 4.0Ah High rate Sanyo pack and cells Li-Ion Tern 4S2P 4.0Ah High rate sony pack and cells Li-Ion Tern 4S2P 4.4Ah Sanyo pack and cells Li-Ion Tern 4S2P 4.4Ah sony pack and cells
Mainboard	Tern1 MAINBOARD (UMA VGA, w/o 1394+S-Video&Card Reader)
Adapter	PA-1131-08AC, 135W
	ADP-135DB BBA, 135W
	HP-OW135F, 135W
Keyboard	TravelMate 2200/2700 KEYBOARD Chinese TravelMate 2200/2700 KEYBOARD US International TravelMate 2200/2700 KEYBOARD Thai TravelMate 2200/2700 KEYBOARD German TravelMate 2200/2700 KEYBOARD UK TravelMate 2200/2700 KEYBOARD Italian TravelMate 2200/2700 KEYBOARD French TravelMate 2200/2700 KEYBOARD Swiss/G TravelMate 2200/2700 KEYBOARD Belgium TravelMate 2200/2700 KEYBOARD Spanish TravelMate 2200/2700 KEYBOARD Portuguese TravelMate 2200/2700 KEYBOARD Czech TravelMate 2200/2700 KEYBOARD Hungarian TravelMate 2200/2700 KEYBOARD Russian

TravelMate 2200

Item	Description
	TravelMate 2200/2700 KEYBOARD Sweden
	TravelMate 2200/2700 KEYBOARD Norwegian
	TravelMate 2200/2700 KEYBOARD Danish
	TravelMate 2200/2700 KEYBOARD Arabic
	TravelMate 2200/2700 KEYBOARD Brazilian Portuguese
	TravelMate 2200/2700 KEYBOARD Canadian French
	TravelMate 2200/2700 KEYBOARD Greek
	TravelMate 2200/2700 KEYBOARD Turkish
	TravelMate 2200/2700 KEYBOARD Hebrew

TravelMate 2700

Item	Description
CPU	Northwood 2.80GHz/.13m/512K L2/400Mhz FSB
	Northwood 2.80GHz/.13m/512K L2/533Mhz FSB/HT Northwood 3.0GHz/.13m/512K L2/800Mhz FSB/HT Northwood 3.20GHz/.13m/512K L2/800Mhz FSB/HT
	Northwood 2.80GHz/.13m/512K L2/533Mhz FSB/HT Northwood 3.06GHz/.13m/512K L2/533Mhz FSB/HT Northwood 3.0GHz/.13m/512K L2/800Mhz FSB/HT Northwood 3.20GHz/.13m/512K L2/800Mhz FSB/HT Northwood 3.4Ghz/.13m/512k/800FSB/HT Precott 3 GHz/1MB L2/800 FSB/HT Precott 3.2GHz/1MB L2/800 FSB/HT Precott 3.4GHz/1MB L2/800 FSB/HT Precott 3.6GHz/1MB L2/800 FSB/HT Precott 3.8GHz/1MB L2/800 FSB/HT
HDD	HDD 2.5" 30G HGST MORAGA+ HTS424030M9AT00 13G1486, f/w:A60M HDD 2.5" 30G TOSHIBA Pluto MK3025GAS (Phase in : Apr/May), f.w: KA300A HDD 2.5" 40G HGST MORAGA+ HTS424040M9AT00 13G1132, f/w: A60M HDD 2.5" 40G TOSHIBA Pluto MK4025GAS ,KA100A, f/w:KA100A HDD 2.5" 40G Seagate N1 ST94019A, 2MB, f/w: 3.05 HDD 2.5" 60G HGST MORAGA IC25N060ATMR04-0 08K0634, f/w: AD4A HDD 2.5" 60G TOSHIBA Pluto MK6025GAS, f/w:KA200A HDD 2.5" 60G FUJITSU V-40+ MHT2060AT, A3 f/w:0022 HDD 2.5" 60G Seagate N2 (50) HDD 2.5" 80G Moraga HGST IC25N080ATMR04-0 08K635 f/w: AD4A HDD 2.5" 80G TOSHIBA Pluto MK8025GAS, 8MB f/w:KA023A HDD 2.5" 60G V-40+ FUJITSU MHT2080AT, A3, f/w:0022
LCD	14.1"XGAB141XG05 14.1"XGAB141XG10 14.1"XGAQD141X1LH12 14.1"XGAN141XB-L01 14.1"XGATD141TGCD1
	15"XGAB150XG01 V2 15"XGAB150XG02 V.2 15"XGAQD150XL06-01 15"XGALP150X08-A3 15"XGALTN150XB-L03-C00 15"XGATX38D81VC1CAB Rev.B 15"XGAN150X3-L07

TravelMate 2700

Item	Description
	15.4"WXGALOW COST 15.4"WXGALOW COST 15.4"WXGAN154I1-L09 (LOW COST) 15.4"WXGAB154EW01 V.5 (LOW COST) 15.4"WXGATX39D85VC1FAA (LOW COST)
Optical Drive	Combo 24XSBW-242C Combo 24XSOSC-2483K Combo 24XUJDA-760 Combo 24XGCC-4243N Combo 24X650/4.7 .5"H TSB24H1
	DVD Dual 8XSDW-042 DVD Dual 8XSOSW-852S DVD Dual 8XDVR-K14RA DVD Super Multi 8XUJ-830B DVD Super Multi 8XGSA-4080N
Memory	SO-DIMM DDR333 256MB NT256D64SH8BAGM-6K (.14u) SO-DIMM DDR333 256MB HYS64D32020HDL-6-C 32x64 (.11u/G) SO-DIMM DDR333 256MB MT4VDDT3264HG-335C2 (0.11u/ 512Mb) SO-DIMM DDR333 256MB M470L3224FT0-CB3 (.13u) SO-DIMM DDR333 256MB MT8VDDT3264HDG-335F4
	SO-DIMM DDR333 512MB HYS64D64020GBDL-6-C (.11u/B) SO-DIMM DDR333 512MB MT8VDDT6464HDG-335C1 (.11u/ 512Mb) SO-DIMM DDR333 512MB M470L6524BT0-CB3
Battery	Li-Ion Tern 4S2P 4.0Ah High rate Sanyo pack and cells Li-Ion Tern 4S2P 4.0Ah High rate sony pack and cells Li-Ion Tern 4S2P 4.4Ah Sanyo pack and cells Li-Ion Tern 4S2P 4.4Ah sony pack and cells
Mainboard	Tern1 MAINBOARD (Discreet VGA-M11P, w/ 1394+S-Video&Card Reader)
Adapter	PA-1131-08AC, 135W
	ADP-135DB BBA, 135W
	HP-OW135F, 135W
Keyboard	Aspire 1670 KEYBOARD Chinese Aspire 1670 KEYBOARD US International Aspire 1670 KEYBOARD ThaiAspire 1670 KEYBOARD German Aspire 1670 KEYBOARD UK Aspire 1670 KEYBOARD Italian Aspire 1670 KEYBOARD French Aspire 1670 KEYBOARD Swiss/G

TravelMate 2700

Item	Description
	Aspire 1670 KEYBOARD Belgium
	Aspire 1670 KEYBOARD Spanish
	Aspire 1670 KEYBOARD Portuguese
	Aspire 1670 KEYBOARD Czech
	Aspire 1670 KEYBOARD Hungarian
	Aspire 1670 KEYBOARD Russian
	Aspire 1670 KEYBOARD Sweden
	Aspire 1670 KEYBOARD Norwegian
	Aspire 1670 KEYBOARD Danish
	Aspire 1670 KEYBOARD Arabic
	Aspire 1670 KEYBOARD Brazilian Portuguese
	Aspire 1670 KEYBOARD Canadian French
	Aspire 1670 KEYBOARD Greek
	Aspire 1670 KEYBOARD Turkish
	Aspire 1670 KEYBOARD Hebrew

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
- 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.