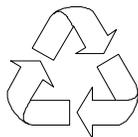


# TravelMate 360

## Service Guide

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



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PRINTED IN TAIWAN

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## Revision History

Please refer to the table below for the updates made on TravelMate 360 service guide.

Date	Chapter	Updates
01/03/2001	Cover	Replace AIPG/CSD with CSD, located on the top cover.
01/24/2002	Chapter 1	Change the expansion port to Easy Link Port/ Replicator Port
05/07/2002	Chapter 5	Update Switch Setting information
05/09/2002	Chapter 5	Correct Switch Setting information

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## Conventions

The following conventions are used in this manual:

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

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## Preface

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

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



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# System Specifications

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## Features

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

### Performance

- Intel® Mobile Pentium® III Processor-M with 512 KB L2 cache featuring the new Enhanced Intel® SpeedStep™ technology
- Memory expandable up to 1024MB or 1GB and supports PC133 MHz bus speed
- External EasyLink™ combo drive (floppy and CD-ROM/DVD-ROM/DVD-RW drive)
- High-capacity, Enhanced-IDE hard disk
- Power management system with ACPI (Advanced Configuration Power Interface)
- Smart Li-Ion Battery Pack
- Smart Card interface with pre-boot authentic action system for added-security

### Display

- 13.3"Thin-Film Transistor (TFT) liquid-crystal display (LCD) displaying 24-bit true-color at 1024x768 extended Graphics Array (XGA) resolution
- 8 MB Video DRAM with DVMT (Dynamic Video Memory Technology™) up to 32 MB
- 3D capabilities
- Simultaneous LCD and CRT display support
- Supports other output display devices such as LCD projection panels for large-audience presentations
- "Automatic LCD dim" feature that automatically decides the best settings for your display and conserves power
- Dual display capability (except Windows 2000)

### Multimedia

- 16-bit high-fidelity AC'97 PCI stereo audio with 3-D sound and wavetable synthesizer
- Built-in single speaker
- High-speed optical drive (CD-ROM, DVD-ROM or DVD-RW)
- External USB video capture kit option

### Connectivity

- High-speed fax/data modem port
- Fast infrared wireless communication
- USB (Universal Serial Bus) ports
- Ethernet/Fast Ethernet port
- IEEE 1394 port
- Optional 802.11b wireless LAN
- Optional USB Bluetooth dongle solution

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## Expansion

- Type II CardBus PC Card (formerly PC MCIA) slot
- Upgradeable memory
- EasyPort port replicator

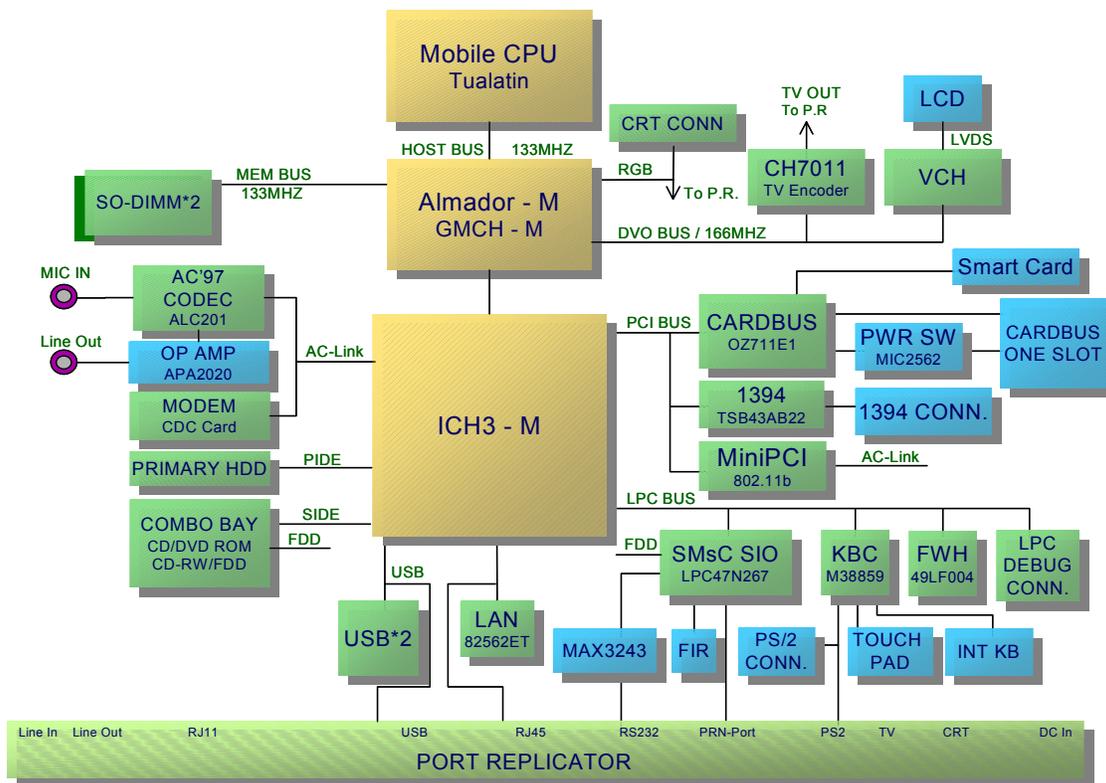
## Keyboard and Pointing Device

- 84-/85-/87-key PS/2 and AT-compatible keyboard
- Ergonomically-centered touchpad pointing device with scroll function

## I/O Ports

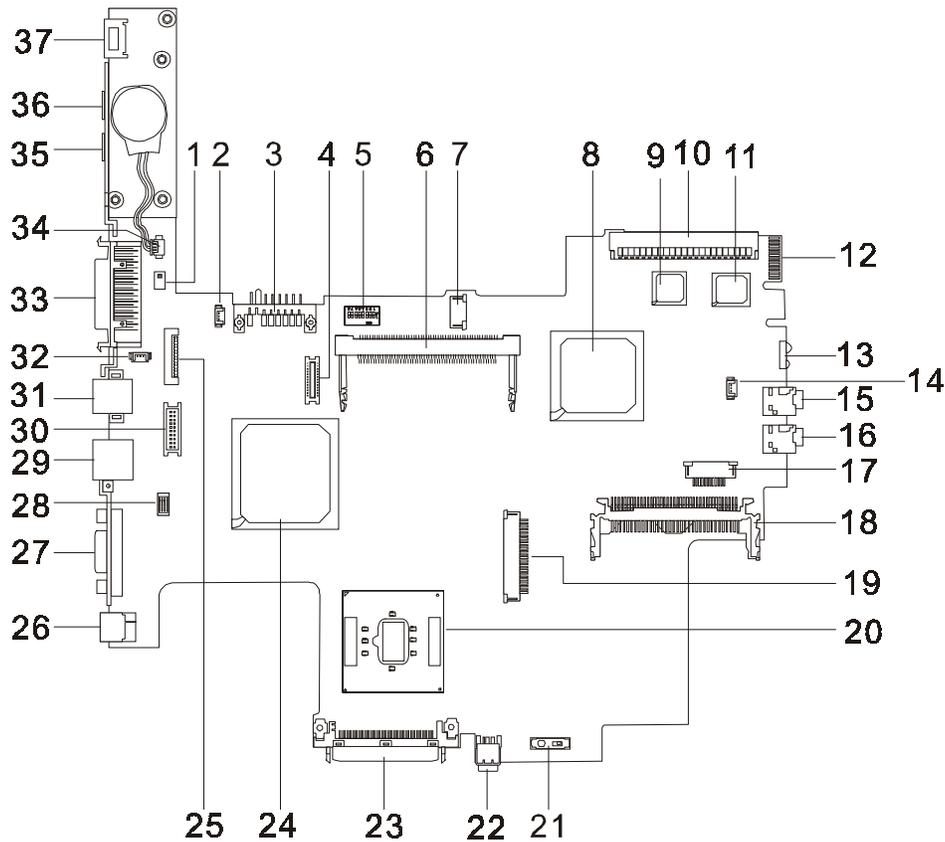
- One Type II CardBus PC Card slot
- One RJ-45 jack for Ethernet
- One RJ-11 phone jack
- One DC-in jack (AC adapter)
- One VGA port, I2C compatible (DDC II)
- One PS/2 keyboard/keypad/mouse port
- One high quality stereo speaker/headphone-out jack
- One audio line-out
- One line-in jack/ microphone
- One SmartCard slot
- Two USB ports
- One 100-pin replicator port
- One FIR port
- One IDE connector
- One IEEE 1394 port

# System Block Diagram



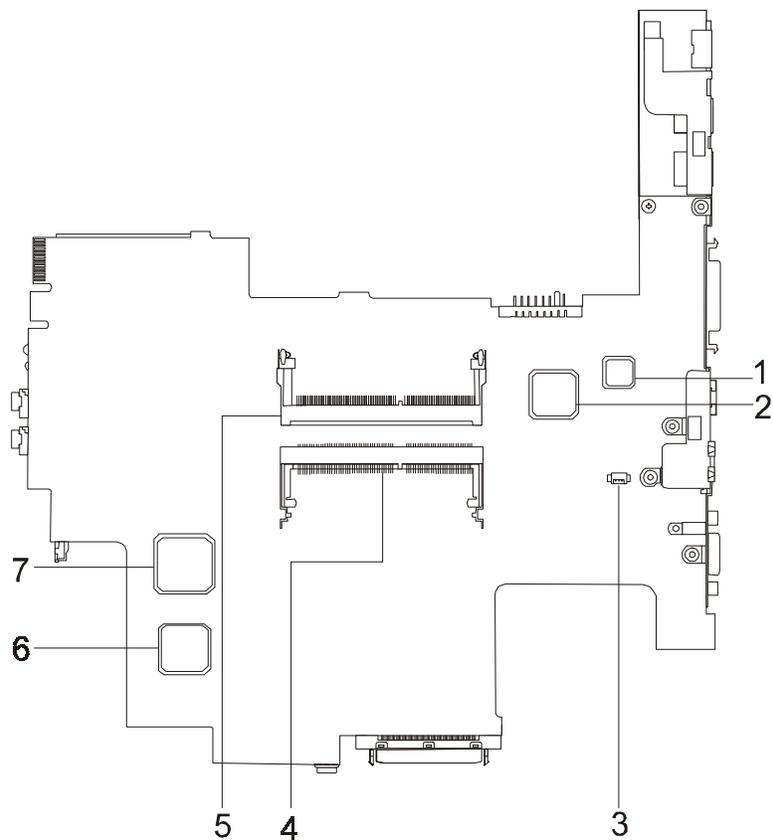
# Board Layout

## Top View



- |    |                           |    |                             |
|----|---------------------------|----|-----------------------------|
| 1  | Cover Switch              | 20 | CPU socket                  |
| 2  | Speaker Connector         | 21 | Power Switch                |
| 3  | Battery Connector         | 22 | 1394 Connector              |
| 4  | Modem Connector           | 23 | Bay Connector               |
| 5  | Jumper                    | 24 | GMCH North Bridge           |
| 6  | Mini PCI Connector        | 25 | LED Board Connector         |
| 7  | Touchpad Connector        | 26 | AC Adapter                  |
| 8  | ICH3 South Bridge         | 27 | CRT Connector               |
| 9  | Super I/O SMSC LPC 47N267 | 28 | LVDS Connector              |
| 10 | HDD Connector             | 29 | RJ45 ( LAN Connector)       |
| 11 | Firmware Hub              | 30 | Inverter Connector          |
| 12 | Golden Finger             | 31 | RJ11 (Modem Connector)      |
| 13 | FIR                       | 32 | MDC Modem Cable Connector   |
| 14 | Microphone Connector      | 33 | Port Replicator             |
| 15 | Line-in/Microphone-in     | 34 | RTC Connector               |
| 16 | Line-out/headphone        | 35 | USB Port 1                  |
| 17 | SmartCard Connector       | 36 | USB Port 2                  |
| 18 | PCMCIA Connector          | 37 | PS/2 Keyboard or Mouse Port |
| 19 | Keyboard Connector        |    |                             |

## Bottom View



1	U51	TV Encoder CH7011	5	DM1	DIMM Socket 1
2	U55	Intel VCH	6	U66	OZ OZ711E1B
3	CN27	FAN Connector	7	U65	TI 1394 (TSB43AB22)
4	DM2	DIMM Socket 2			

## Outlook View

A general introduction of ports allow you to connect peripheral devices, as you would with a desktop PC.

### Front View



#	Icon	Item	Description
1		Display screen	Also called LCD (liquid-crystal display), displays computer output.
2		Status indicators	LEDs (light-emitting diode) that turn on and off to show the status of the computer, its functions and components.
3		Launch keys	Buttons for launching frequently used programs.
4		Touchpad	Touch-sensitive pointing device which functions like a computer mouse.
5		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 scroll up/down button.
6		Speaker/ Headphone-out jack	Connects to audio line-out devices (e.g., speakers, headphones).
7		Line-in jack	Accepts audio line-in devices (e.g., audio CD player, stereo walkman).
8		Infrared port	Interfaces with infrared devices (e.g., infrared printer, IR-aware computers).
9		Microphone	Inputs sounds and voices into your computer.
10		Palmrest	Comfortable support area for your hands when you use the computer.
11		Keyboard	Inputs data into your computer.

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12		Speaker	Outputs sounds.
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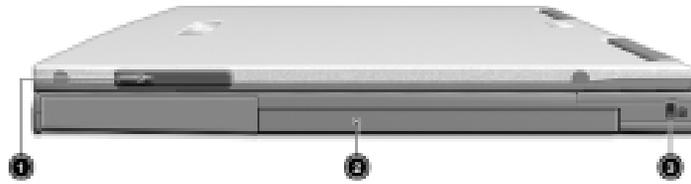
## Left Panel



#	Icon	Item	Description
1		Easylink combo drive connector	Connects to an Easylink combo drive
2		IEEE 1394 port	Connects to IEEE1394 devices.
3		Power switch	Turns on the computer power.
4		PC card eject button	Ejects PC Card from the card slot.
5		PC Card slots	Accepts one type II 16-bit PC Card(s) or 32-bit CardBus PC Card(s).
6		SmartCard eject button	Ejects the SmartCard from the slot.
7		SmartCard slot	Slot for SmartCard interface with pre-boot authentic action system.
8		Video capture kit slot	Accepts the video capture kit option on the left side of the computer.

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## Right Panel



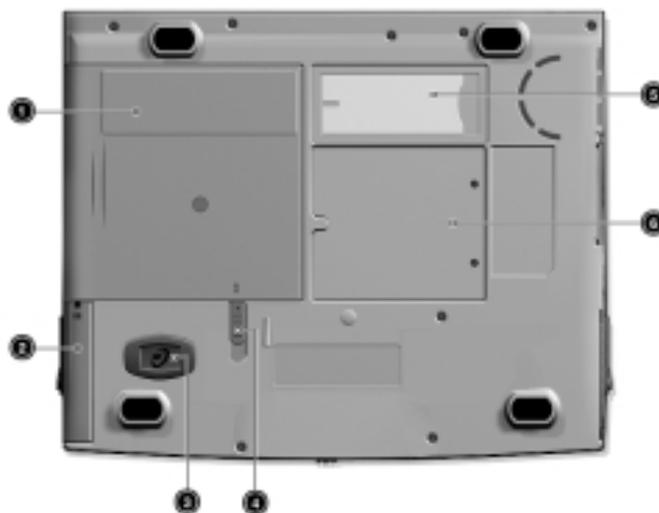
#	Item	Description
1	Video capture kit slot	Accepts the video capture kit option on the right side of the computer.
2	Battery bay	Houses the computer's battery pack.
3	Security keylock	Connects to a Kensington-compatible computer security lock.

## Rear Panel



#	Icon	Item	Description
1		PS/2 port	Connects to any PS/2-compatible devices (e.g., PS/2 keyboard/mouse/keypad).
2		USB ports (two)	Connects to any Universal Serial Bus devices (e.g., USB mouse, USB camera).
3		Easy link port/ Replicator port	Connects to I/O replicator or EasyPort expansion devices.
4		Modem jack	Connects to a phone line.
5		Network jack	Connects to an Ethernet 10/100-based network
6		External display port	Connects to a display device (e.g., external monitor, LCD projector) and displays up to 64K colors at 1280x1024 resolution.
7		Power jack	Connects to an AC adapter

## Bottom Panel



#	Item	Description
1	Battery bay	Houses the computer's battery pack.
2	Hard disk bay	Houses the computer's hard disk (secured by a screw).
3	Hard disk anti-shock protection	Disk Anti-Shock Protection (DASP) protects your hard disk against accidental shock and vibration.
4	Battery release latch	Unlatches the battery to remove the battery pack.
5	Personal identification slot	Insert a business card or similar-sized identification card to personalize your computer.
6	Memory compartment	Houses the computer's main memory.

## Indicators

The computer has seven easy-to-read status icons below the display screen.

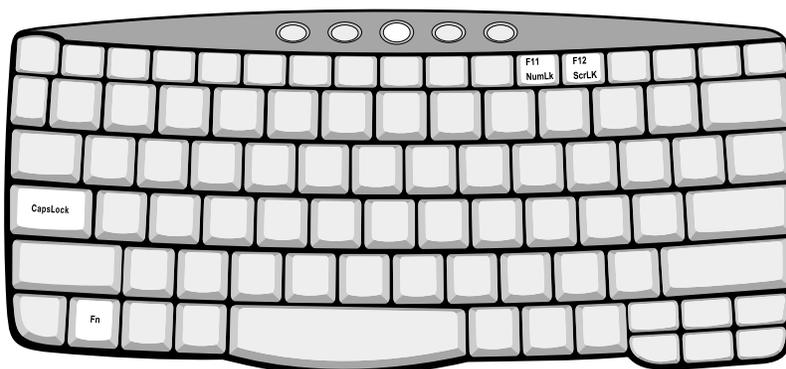


The Power and Sleep status icons are visible even when you close the display cover so you can see the status of the computer while the cover is closed.

#	Icon	Function	Description
1		Wireless Communication	Lights when the Wireless LAN capabilities are enabled.
2		Power	Lights when the computer is on.
2		Sleep	Lights when the computer enters Sleep mode.
3		Media Activity	Lights when the floppy drive, hard disk or EasyLink Combo drive is active.
4		Battery Charge	Lights when the battery is being charged.
5		Caps Lock	Lights when Caps Lock is activated.
6		Num Lock	Lights when Num Lock is activated.

## Lock Keys

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

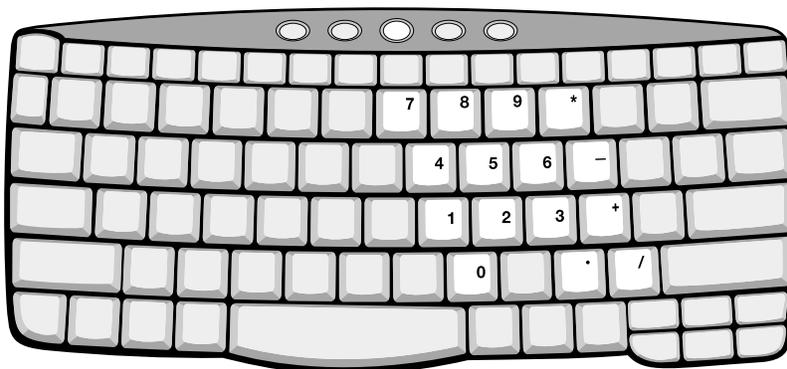


Lock Key	Description
Caps Lock	When Caps Lock is on, all alphabetic characters typed are in uppercase.
 (Fn-F11)	When  is on, the embedded keypad is in numeric mode. The keys function as a calculator (complete with the arithmetic operators +, -, *, and /). Use this mode when you need to do a lot of numeric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

**NOTE:** To access the  and  functions, hold the Fn key down while pressing the F11 and F12 keys respectively.

## 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.



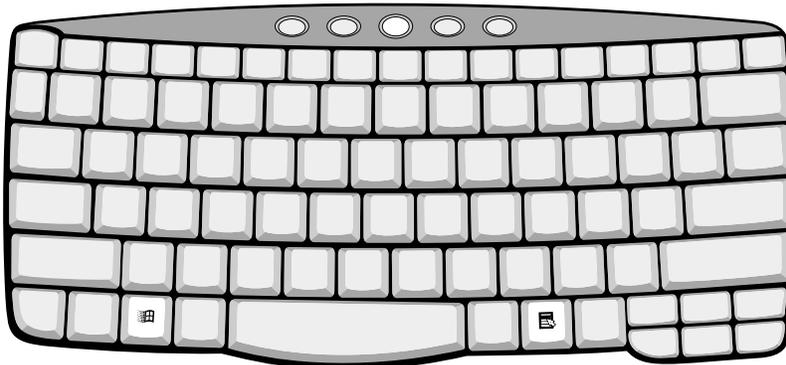
Desired Access	Num Lock On	Num Lock Off
Number keys on embedded keypad	Type numbers in a normal manner.	
Cursor-control keys on embedded keypad	Hold <b>SHIFT</b> while using cursor-control keys.	Hold <b>Fn</b> while using cursor-control keys.
Main keyboard keys	Hold <b>Fn</b> while typing letters on embedded keypad.	Type the letters in a normal manner.

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

---

## Windows Keys

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



Key	Icon	Description
Windows logo key		Start button. Combinations with this key perform shortcut functions. Below are a few examples:  + Tab (Activates next taskbar button)  + E (Explores My Computer)  + F (Finds Document)  + M (Minimizes All)  +  + M (Undoes Minimize All)  + R (Displays the Run...dialogue box)
Application key		Opens a context menu (same as a right-click).

## 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.



Hot Key	Icon	Function	Description
Fn-F1	?	Hot key help	Displays help on hot keys.
Fn-F2	Ⓜ	Setup	Accesses the notebook's configuration utility.
Fn-F3	Ⓜ✓	Power Management Scheme Toggle	Switches the power management scheme used by the computer (function available if supported by operating system).
Fn-F4	Z <sup>z</sup>	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 monitor.
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; mutes the sound.
Fn-⏮️	🔊	Volume up	Increases the speaker volume.
Fn-⏭️	🔊	Volume down	Decreases the speaker volume.
Fn-☀️	☀️	Brightness up	Increases the screen brightness.

---

Hot Key	Icon	Function	Description
Fn- 		Brightness down	Decreases the screen brightness.
Alt Gr-Euro		Euro	Types the Euro symbol.

---

## Launch Keys

Located at the top of the keyboard are five buttons. These buttons are called launch keys. They are designated as P1, P2, P3, mail button and Web browser button.



**NOTE:** To the left of these five launch keys is the wireless communication button.

Launch key	Default application
P1	User-programmable
P2	User-programmable
P3	Multimedia application
Mail	Email application. The LED of the mail button will flash when the user has an incoming email.
Web browser	Internet browser application.

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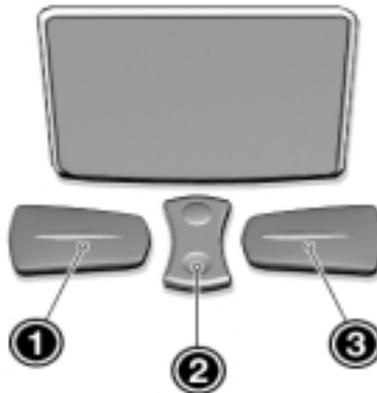
## Touchpad

The built-in touchpad is a PS/2-compatible pointing device that senses movement on its surface. This means the cursor responds as you move your finger on the surface of the touchpad. The central location on the palmrest provides optimum comfort and support.



**NOTE:** When using an external USB or serial mouse, you can press **Fn + F7** to disable the touchpad. If you are using an external PS/2 mouse, the touchpad is automatically disabled.

### Touchpad Basics



The following items teach you how to use the touchpad:

- Move your finger across the touchpad to move the cursor.
- Press the left (1) and right (3) buttons located on the edge of the touchpad to do selection and execution functions. These two buttons are similar to the left and right buttons on a mouse. Tapping on the touchpad produces similar results.
- Use the center (2) button (top and bottom) to scroll up or down a page. This button mimics your

---

cursor pressing on the right scroll bar of Windows applications.

Function	Left Button	Right Button	Center Buttons	Tap
Execute	Click twice quickly			Tap twice (at the same speed as double-clicking a mouse button)
Select	Click once			Tap once
Drag	Click and hold, then use finger to drag the cursor on the touchpad			Tap twice (at the same speed as double-clicking a mouse button) then hold finger to the touchpad on the second tap and drag the cursor
Access context menu		Click once		
Scroll			Click and hold the up/down button	

**NOTE:** Keep your fingers dry and clean when using the touchpad. Also keep the touchpad dry and clean. The touchpad is sensitive to finger movements. Hence, the lighter the touch, the better the response. Tapping harder will not increase the touchpad's responsiveness.

# Hardware Specifications and Configurations

## Processor

Item	Specification
CPU type	Intel Pentium III 1/1.06/1.13/1.20/1.26 GHz processor with 512KB L2 on-die Cache
CPU package	uFCBGA2 package
CPU core voltage	1.40V/1.15V
CPU I/O voltage	1.25V

## BIOS

Item	Specification
BIOS vendor	Acer
BIOS Version	R01-A3
BIOS ROM type	Flash ROM
BIOS ROM size	512KB
BIOS package	49LF004-33-4C-NH
Supported protocols	ACPI 1.0b, APM 1.2, PC Card 95, SM BIOS 2.3, EPP/IEEE 1284, ECP/IEEE 1284 1.7 & 1.9, IrDA, PCI 2.2, PnP 1.0a, DMI 2.0, PS/2 keyboard and mouse, USB, VESA VGA BIOS, DDC-2B, CD-ROM bootable, Windows keyboard Microsoft Simple Boot Flag
BIOS password control	Set by switch, see SW1(SW1) setting

## Second Level Cache

Item	Specification
Cache controller	Built-in CPU
Cache size	512KB
1st level cache control	Always enabled
2st level cache control	Always enabled
Cache scheme control	Fixed in write-back

## System Memory

Item	Specification
Memory controller	Built-in Intel Amador-M
Onboard memory size	0MB
DIMM socket number	2 sockets (2 banks)
Supports memory size per socket	512MB
Supports maximum memory size	1024MB
Supports DIMM type	Synchronous DRAM
Supports DIMM Speed	133 MHz
Supports DIMM voltage	3.3V
Supports DIMM package	144-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
64 MB	0 MB	64 MB
0 MB	64 MB	64 MB
128 MB	0 MB	128 MB
0 MB	128 MB	128 MB
64 MB	64 MB	128 MB
128 MB	64 MB	192 MB
64 MB	128 MB	192 MB
128 MB	128 MB	256 MB
256 MB	0 MB	256 MB
0 MB	256 MB	256 MB
256 MB	256 MB	512 MB
512 MB	512 MB	1024 MB

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

**NOTE:** The shipping specification for DIMM combination is 128MB in slot 1.

## LAN Interface

Item	Specification
Chipset	Intel PHY 82562 ET
Supports LAN protocol	10/100 Mbps
LAN connector type	RJ45
LAN connector location	Rear side

## Modem Interface

Item	Specification
Chipset	Ambit module with Lucent modem controller
Fax modem data baud rate (bps)	14.4K
Data modem data baud rate (bps)	56K
Supports modem protocol	V.90 MDC
Modem connector type	RJ11
Modem connector location	Rear side

## Floppy Disk Drive Interface

Item	Specification	
Vendor & model name	TEAC	AOpen
Floppy Disk Specifications		
Media recognition	1.44MB	1.44MB
Sectors/track	18	18
Tracks	80	80
Data transfer rate (Kbit/s)	1 MB	1 MB
Rotational speed (RPM)	300	300
Read/write heads	2	

## Floppy Disk Drive Interface

Item	Specification
Encoding method	MFM/FM
Power Requirement	
Input Voltage (V)	+5V +/- 10%

## Hard Disk Drive Interface

Item	Specification		
Vendor & Model Name	IBM		
	IC25N020ATDA04	IC25N030ATDA04	IC25N010ATDA04
Capacity (MB)	20GB	30GB	10GB
Bytes per sector	512	512	512
Data heads	3	4	2
Recording zone	16	16	16
Drive Format			
Disks	2	2	1
Spindle speed (RPM)	4200 RPM	4200 RPM	4200RPM
Performance Specifications			
Buffer size	2048KB	2048KB	512KB
Interface	ATA-5	ATA-5	ATA5
Max. media transfer rate (disk-buffer, Mbytes/s)	216	235	235
Data transfer rate (host~buffer, Mbytes/s)	100 MB/Sec. Ultra DMA mode-5	100 MB/Sec. Ultra DMA mode-5	100 MB/Sec. Ultra DMA mode-5
DC Power Requirements			
Voltage tolerance	5V(DC) +/- 5%	5V(DC) +/- 5%	5V(DC) +/- 5%

## DVD-ROM Interface

Item	Specification	
Vendor & model name	TEAC	
Performance Specification	With CD Diskette	With DVD Diskette
Transfer rate (KB/sec)	Sustained: Max 3.6Mbytes/sec	Sustained: Max 10.8Mbytes/sec
Data Buffer Capacity	512 KBytes	
Interface	IDE/ATAPI	
Applicable disc format	DVD: DVD-5, DVD-9, DVD-10, DVD-R (3.95G) CD: CD-Audio, CD-ROM (mode 1 and mode 2), CD-ROM XA (mode 2, form 1 and form 2), CD-I (mode 2, form 1 and form 2), CD-I Ready, CD-I Bridge, CD-WO, CD-RW, Photo CD, Video CD, Enhanced Music CD, CD-TEXT	
Loading mechanism	Soft eject (with emergency eject hole)	
Power Requirement		
Input Voltage	5V(DC) +/- 5%	

## Audio Interface

Item	Specification
Audio Controller	Realtek ALC 201
Audio onboard or optional	Built-in
Mono or Stereo	Stereo
Resolution	20 bit stereo Digital to analog converter 18 bit stereo Analog to Digital converter
Compatibility	Microsoft PC98/PC99/PC2001, AC97 2.1
Mixed sound source	Line-in, CD, Video, AUX
Voice channel	8/16-bit, mono/stereo
Sampling rate	44.1 KHz
Internal microphone	Yes
Internal speaker / Quantity	Yes
Supports PnP DMA channel	DMA channel 0 DMA channel 1
Supports PnP IRQ	IRQ3, IRQ5, IRQ7, IRQ9, IRQ10, IRQ11

## Video Interface

Item	Specification
Chip vendor	Intel
Chip name	VCH
Chip voltage	Core/3.3V Memory/1.8V
Supports ZV (Zoomed Video) port	No
Graph interface	4X AGP (Accelerated Graphics Port) bus
Maximum resolution (LCD)	1024x768 (32 bit colors)
Maximum resolution (CRT)	1600x1200 (32 bit colors)

## Video Memory

Item	Specification
Fixed or upgradeable	Fixed
Video memory size	8.0 MB

## Video Resolutions Mode (for both LCD and CRT)

Resolution	8 bits (256 colors)	16 bits (High color)	32 bits (True color)
640x480 (LCD, CRT)	Yes	Yes	Yes
720x480 (LCD, CRT)	Yes	Yes	Yes
800x600 (LCD, CRT)	Yes	Yes	Yes
848x480 (LCD, CRT)	Yes	Yes	Yes
1024x768 (LCD, CRT)	Yes	Yes	Yes
1152x864 (CRT)	Yes	Yes	Yes
1280x1024 (CRT)	Yes	Yes	Yes
1400x1050 (CRT)	Yes	Yes	Yes
1600x1200 (CRT)	Yes	Yes	Yes

## Parallel Port

Item	Specification
Parallel port controller	SMSC LPC47N267
Number of parallel port	1
Location	Rear side
Connector type	25-pin D-type connector, in female type
Parallel port function control	Enable/Disable by BIOS Setup
Supports ECP/EPP	Yes (set by BIOS setup)
Optional ECP DMA channel (in BIOS Setup)	DMA channel 1 and 3
Optional parallel port I/O address (in BIOS Setup)	3BCh, 278h, 378h
Optional parallel port IRQ (in BIOS Setup)	IRQ7, IRQ5

## Serial Port

Item	Specification
Serial port controller	SMSC LPC47N267
Number of serial port	1
Supports 16550 UART	Yes
Connector type	9-pin D-type connector, in male type
Location	Rear side
Serial port function control	Enable/Disable by BIOS Setup
Optional serial port (in BIOS Setup)	3F8h, 2F8h, 3E8h, 2E8h
Optional serial port IRQ (in BIOS Setup)	IRQ4, IRQ11

## USB Port

Item	Specification
USB Compliancy Level	1.1
OHCI	USB 1.1
Number of USB port	2
Location	Rear side
Serial port function control	Enable/Disable by BIOS Setup

## IrDA Port

Item	Specification
IrDA FIR port controller	SMSC LPC47N267
Number of IrDA FIR port	1
Location	Left side
IrDA FIR port function control	Enable/disable by BIOS Setup
IrDA FIR port (in BIOS Setup)	2F8
IrDA FIR port IRQ (in BIOS Setup)	IRQ3
ECP DMA channel (in BIOS Setup)	DMA channel 3
Optional IrDA FIR port DRQ (in BIOS Setup)	Not available

## PCMCIA Port

Item	Specification
PCMCIA controller	O2 OZ6933
Supports card type	Type-III/II
Number of slots	One type-III or Two type-II
Access location	Left side
Supports ZV (Zoomed Video) port	No ZV support
Supports 32 bit CardBus	Yes (IRQ11)

## System Board Major Chips

Item	Controller
System core logic	Intel Almador-M / ICH3-M
Super I/O controller	SMSC LPC47N267
Audio controller	Realtech ALC 200
Video controller	VCH
Hard disk drive controller	ICH3-M
Keyboard controller	M38859
RTC	Built-in Intel Almador-M / ICH3-M

## Keyboard

Item	Specification
Keyboard controller	Mitsubishi LPC M38859
Keyboard vendor & model name	SMK US
Total number of keypads	84/85/88-key
Windows 95 keys	Yes
Internal & external keyboard work simultaneously	Yes

## Battery

Item	Specification
Vendor & model name	Sanyo BTP-36D1
Battery Type	Li-ion
Pack capacity	3600 mAh
Cell voltage	3.7V/cell
Number of battery cell	6
Package configuration	3 cells in series, 3 series in parallel
Package voltage	11.1 V

## DC-AC LCD Inverter

Item	Specification				
Vendor & model name	Ambit T621124.00 730				
Input voltage (V)	7.3 (min.)	-			21 (max.)
Input current (mA)	-	-			900 (max.)
Output voltage (Vrms, no load)	-	565 (typ.)			
Output voltage frequency (kHz)	40 (min.)	-			65 (max.)
Output Current/ Lamp	lout(Min)	0.7mA	1.0mA	1.3mA	Vadj=0V
	lout(Max)	6.3mA	7.0mA	7.7mA	Vadj=3.2V

**NOTE:** DC-AC inverter is used to generate very high AC voltage, then support to LCD CCFT backlight user, and is also responsible for the control of LCD brightness. Avoid touching the DC-AC inverter area while the system unit is turned on.

**NOTE:** There is an EEPROM in the inverter, which stores its supported LCD type and ID code. If you replace a new inverter or replace the LCD with a different brand, use Inverter ID utility to update the ID information.

## LCD

Item	Specification	
Vendor & model name	Sanyo TM133XG-0ZL07	LG LP133X8-A2AG
Mechanical Specifications		
LCD display area (diagonal, inch)	13.3"	13.3"
Display technology	TFT	TFT
Resolution	XGA+ (1024x768)	XGA+ (1024x768)
Supports colors	262K	262K
Optical Specification		
Brightness control	keyboard hotkey	keyboard hotkey
Contrast control	No	No
Electrical Specification		
Supply voltage for LCD display (V)	3.3	3.3
Supply voltage for LCD backlight (Vrms)	690	690

## AC Adapter

Item	Specification
Vendor & model name	Delta ADT-60XB D 3P
Input Requirements	
Maximum input current (A, @90Vac, full load)	1.5 A @ 90Vac 0.9 A @ 180Vac
Nominal frequency (Hz)	47 - 63
Frequency variation range (Hz)	47 - 63
Nominal voltages (Vrms)	90 - 270
Inrush current	The maximum inrush current will be less than 50A and 100A when the adapter is connected to 115Vac(60Hz) and 230Vac(50Hz) respectively.
Efficiency	It should provide an efficiency of 83% minimum, when measured at maximum load under 115V(60Hz).

## AC Adapter

Item	Specification
Output Ratings (CV mode)	
DC output voltage	+19.0V~20.0V
Noise + Ripple	300mvp-pmax (20MHz bandwidth)
Load	0 A (min.) 3.16 A (max.)
Output Ratings (CC mode)	
DC output voltage	+12V ~ +19V
Constant output	2.75 ± 0.2 A
Dynamic Output Characteristics	
Turn-on delay time	2 sec. (@115Vac)
Hold up time	4 ms min. (@115 Vac input, full load)
Over Voltage Protection (OVP)	24 V
Short circuit protection	Output can be shorted without damage
Electrostatic discharge (ESD)	15kV (at air discharge) 8kV (at contact discharge)
Dielectric Withstand Voltage	
Primary to secondary	1500 Vac (or 2121 Vdc), 10 mA for 1 second
Leakage current	0.25 mA max. (@ 254 Vac, 60Hz)
Regulatory Requirements	Internal filter meets: <ol style="list-style-type: none"> <li>1. FCC class B requirements. (USA)</li> <li>2. VDE 243/1991 class B requirements. (German)</li> <li>3. CISPR 22 Class B requirements. (Scandinavia)</li> <li>4. VCCI class II requirements. (Japan)</li> </ol>

## Power Management

Power Saving Mode	Phenomenon
<b>Standby Mode</b> Waiting time specified by the System Standby value or the operating system elapses without any system activity. Or When the computer is about to enter Hibernation mode (e.g., during a battery-low condition), but the Hibernation file is invalid or not present.	<input type="checkbox"/> The Sleep indicator lights up
<b>Hibernation Mode</b> When customized functions for power management are set to <b>Hibernation</b> and the corresponding action is taken.	<input type="checkbox"/> All power shuts off
<b>Display Standby Mode</b> Keyboard, built-in touchpad, and an external PS/2 pointing device are idle for a specified period.	<input type="checkbox"/> The display shuts off
<b>Hard Disk Standby Mode</b> Hard disk is idle within a specified period of time.	<input type="checkbox"/> Hard disk drive is in standby mode. (spindle turned-off)

## Environmental Requirements

Item	Specification
Temperature	

## Environmental Requirements

Item	Specification
Operating	+5~+35 °C
Non-operating	-10~+60 °C
Non-operating	~-20 (storage package)
<b>Humidity</b>	
Operating	20% to 85% RH, non-condensing
Non-operating	20% to 85% RH, non-condensing (unpacked)
Non-operating	20% to 90% RH, non-condensing (storage package)
<b>Vibration</b>	
Operating (unpacked)	5~25.6Hz: 0.38mm (peak to peak) 25.6~250Hz: 0.5G
Non-operating (unpacked)	5~27.1Hz: 0.6G 27.1Hz~50Hz: 0.04mm (peak to peak) 50~500Hz: 2.0G
Non-operating (packed)	5~62.6Hz: 0.51mm (peak to peak) 62.6~500Hz: 4.0G

## Mechanical Specification

Item	Specification
Dimensions	292 (W) x 234 (D) x 21(H)
Weight	4 lbs
I/O Ports	One type II CardBus socket, one smart card slot, 1 VGA port, I2C Compatible (DDCII), 1 RJ-11 modem port, 1 RJ-45 LAN port, 1 DC-in jack(AC adapter), 1 FIR port, 1 serial port, 1 external monitor port, 1 PS/2 keyboard/keypad/mouse port, 1 IDE connector, 2 USB ports, 1 speaker/headphone-out jack, 1 audio line-in jack, 1 line-out jack, 1 100-pin replicator port, 1 IEEE1394 port.
Drive Bays	One
Material	Housing: MS2105 Panel : Plastic
Indicators	Power LED, Sleep LED, Media Activity, Battery Charge, Caps Lock, Num Lock, Wireless LED
Switch	Power

## Memory Address Map

Memory Address	Size	Function
00100000h-000F0000h	64 KB	System BIOS
000F0000h-000E0000h	64KB	System BIOS
000D0000h-000C0000h	64 KB	VGA BIOS
000C0000h-000A0000h	128 KB	Video memory (VRAM)
000A0000h-00000000h	640KB	Conventional memory

## I/O Address Map

I/O Address	Function
000-00F	DMA controller-1
020-021	Interrupt controller-1
040-043	Timer 1
060, 064	Keyboard controller 38859 chip select

## I/O Address Map

I/O Address	Function
061	System speaker out
040B	DMA controller-1
061	System speaker
070-071	Real-time clock and NMI mask
080-08F	DMA page register
0A0-0A1	Interrupt controller-2
0C0-0DF	DMA controller-2
0F0-0FF	Numeric data processor
120-13F 180-18F	Power management controller
170-177	2nd EIDE device (CD-ROM) select
1F0-1F7	1st EIDE device (hard drive) select
220-22F	Audio
240-24F	Audio (optional)
278-27F	Parallel port 3
2E8-2EF	COM4
2F8-2FF	COM2 or FIR (optional)
378, 37A	Parallel port 2
3BC-3BE	Parallel port 1
3B0-3BB 3C0-3DF	Video Controller
3F0h-3F7	Standard Floppy Disk Controller
3E8-3EF	COM3 or LT Win modem (optional)
3F0-3F7	Floppy disk controller
3F8-3FF	COM1
480-48F, 4D6	DMA controller-1
4D0-4D1 CF8-CFF	PCI configuration register

## IRQ Assignment Map

Interrupt Channel	Function
IRQ0	System timer
IRQ1	Keyboard
IRQ2	Cascade
IRQ3	IR
IRQ4	COM1 (Serial port)
IRQ5	Reserved for R2 card
IRQ6	FDD
IRQ7	LPT (Parallel port)
IRQ8	CMOS/RTC
IRQ9	SCI IRQ used by ACPI bus
IRQ10	Audio (PIRQB#), Modem (PIRQB#), SMBUS controller (PIRQB#), IEEE 1394 (PIRQF#), LAN (PIRQE#)
IRQ11	VGA (PIRQA#), 802.11b (PIRQE#), USB (PIRQA#, PIRQD#, PIRQC#), O2CardBus controller (PIRQD#, PIRQD#)
IRQ12	PS/2 device

---

### IRQ Assignment Map

Interrupt Channel	Function
IRQ13	Math processor
IRQ14	Primary IDE channel (hard disk)
IRQ15	Secondary IDE channel(CD-ROM drive)

### DMA Channel Assignment

DMA Channel	Function
DRQ0	Reserved
DRQ1	Reserved
DRQ2	FDD
DRQ3	Reserved
DRQ4	DMA controller
DRQ5	Reserved
DRQ6	Reserved
DRQ7	Reserved



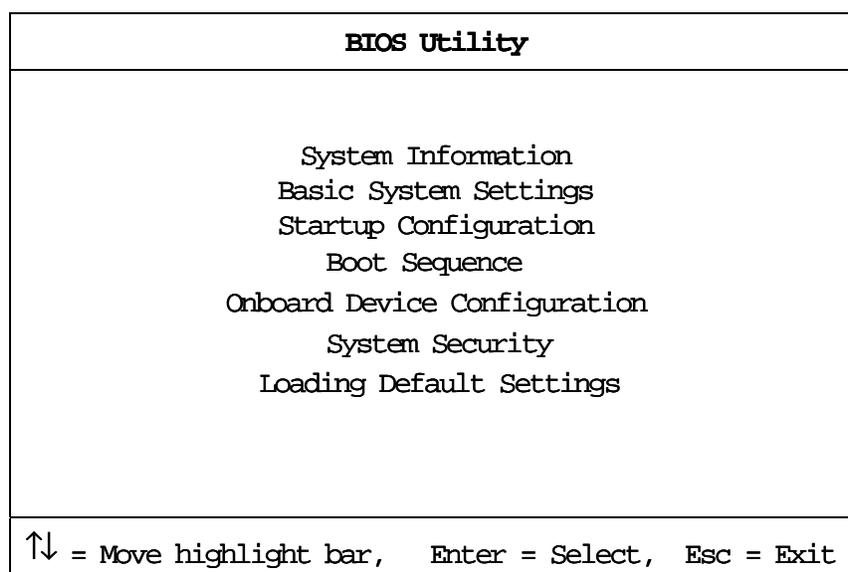
## System Utilities

### BIOS Setup Utility

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

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

If the Fast Boot function is disabled, the user can see the message for pressing **F2** to enter the Setup mode. The user also can press **F2** to enter BIOS setup in Fast Boot.



### Navigating the BIOS Utility

There are seven menu options: System Information, Basic System Settings, Startup Configuration, Boot Sequence, Onboard Device Configuration, System Security and Loading Default Settings.

To enter a menu, highlight the item using the **↑** / **↓** keys, then press **ENTER**.

Within a menu, navigate through the BIOS Utility by following these instructions:

- Press the **↑** / **↓** keys to move between the parameters.
- Press the **←** / **→** keys to change the value of a parameter.
- Press the **ESC** key while you are in any of the menu options to return to the main menu.

**NOTE:** You can change the value of a parameter if it is enclosed in square brackets. Navigation keys are shown at the bottom of the screen.

## System Information

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

System Information		Page 1/1
CPU Type & Speed -----	Pentium III 1133 MHz	
Floppy Disk Drive -----	1.44MB 3.5-inch	
Hard Disk Drive -----	XXXXX MB	
HDD Serial Number -----	XXXXXXXXXXXXXXXXXXXXX	
System with -----	XXROM Attached	
System BIOS Version -----	V3.3 R01-A1x	
VGA BIOS Version -----	XXXXXXXXXXXXXXXXXXXXX	
Serial Number -----	XXXXXXXXXX	
Asset Tag Number -----	XXXXXXXXXX	
Product Name -----	TravelMate 360	
Manufacturer Name -----	Acer	
UUID -----	XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXXX	
↑↓= Move highlight Bar,      ← →= Change setting,      F1 = Help		

**NOTE:** The screen above is a sample and may not reflect the actual data on your computer. “X” may refer to a series of numbers and/or characters.

The following table describes the information in this screen.

Parameter	Description
CPU Type & Speed	Describes the CPU type and its speed.
Floppy Disk Drive	Display the Floppy information.
Hard Disk Drive	Display the size of the Hard Disk.
HDD Serial Number	List the HDD serial number.
System with	The system will automatically detect that the media type is <b>CD-ROM</b> , DVD-ROM or CD-RW.
System BIOS Version	The current system BIOS version.
VGA BIOS Version	The current VGA BIOS version.
Serial Number	Display the System Serial Number.
Asset Tag Number	Display the Asset Tag Number.
Product Name	Display the Product Name.
Manufacturer Name	Display the Manufacturer Name.
UUID	Display the UUID.

The items in this screen are important and vital information about your computer. If you experience computer problems and need to contact technical support, this data helps our service personnel know more about your computer.

## Basic System Settings

The Basic System Settings screen allows you to set the system date and time.

Basic System Settings		Page 1/1
Date -----	[Mon Jan 1, 2001]	
Time -----	[12:00:00]	
↑↓ = Move highlight bar,   ← → = Change setting,   F1 = Help		

The following table describes the parameters in this screen.

Parameter	Description	Format
Date	Sets the system date.	DDD MMM DD, YYYY (day-of-the-week month day, year)
Time	Sets the system time.	HH:MM:SS (hour:minute:second)

## Startup Configuration

The Startup Configuration screen contains parameter values that define how your computer behaves on system startup.

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

Basic System Setting		Page 1/1
Boot Display -----	<b>[Both]</b> /[Auto]	
Screen Expansion -----	<b>[Enabled]</b> /[Disabled]	
Resume on LAN Access-----	<b>[Enabled]</b> /[Disabled]	
Hotkey Beep-----	<b>[Enabled]</b> /[Disabled]	
CPU Power Management Mode-----	[Auto ]/[ <b>Disable</b> ]	
Intel® SpeedStep™ Technology-----	<b>[Automatic]</b> /[Maximum Performance] /[Battery Optimized]/[Reversed]	
↑↓ = Move highlight bar,   ← →= Change setting,   F1 = Help		

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

Parameter	Description	Options
Boot Display	Sets the display device on boot-up. When set to <b>Auto</b> , the computer automatically determines the display device. If an external device (e.g., monitor) is connected, it becomes the boot display. When set to Both, the computer outputs to both the LCD and the external display if one is connected.	<b>Both</b> or Auto
Screen Expansion	Expand the screen on the graphic/text mode. When it is disabled, the graphic/text mode expansion function is disabled and the graphic/text image will be centralized on the LCD. If it is enabled. The graphic/text image will be expanded to the full LCD screen.	<b>Enabled</b> or Disabled
Resume on LAN Access	When enabled, the computer will wake up from Sleep state if any LAN access to it occurs.	<b>Enabled</b> or Disabled
Hotkey Beep	When enabled, the computer makes a beep when a hot key (Fn+F4) is pressed.	<b>Enabled</b> or Disabled
CPU Power Management Mode	When auto, the computer can support stop clock function. When disable, the computer will disable stop clock function.	<b>Disabled</b> or Auto
Intel <sup>R</sup> SpeedStep <sup>TM</sup> Technology	Select CPU power policy.	<b>Automatic</b> Maximum Performance Battery Optimized Reversed

# Boot Sequence

If you have **Enable** 1394 Legacy Mode and system has one or two 1394 HDD, you can choose boot from 1394 HDD..

Boot Sequence		Page 1/1
Fast Boot-----	[Enabled]/[Disabled]	
Boot Menu-----	[Enabled]/[Disabled]	
1394Legacy Modes-----	[Disabled]/[Enabled]	
Boot From LAN-----	[Disabled]/[Enabled]	
Boot Drive Sequence:		
1st-----	[Floppy Disk]	
2nd-----	[CD-ROM]	
3rd-----	[Hard Disk ▶]	
4th-----	[ LANDesk®]	
		<div style="border: 1px solid gray; padding: 2px; display: inline-block;">           1st. [E-IDE] ▶            2nd. [Others] ▶            Skip            set         </div> <div style="border: 1px solid gray; padding: 2px; display: inline-block; margin-left: 10px;">           1st. [Legacy PCI HDD]            2nd. [1394 HDD]         </div>
↑↓ = Move highlight bar,    ← → = Change setting,    F1 = Help		

Note:

1. This option item should be if user chooses the Enable 1394 Legacy Mode and system have one or two 1394 HDD.
2. When the 1394 Legacy is disabled, the sub-items will be not showed with

If you have **Enabled** 1394 Legacy Mode and system has one or two 1394 CD-ROM, you can choose boot from 1394 CD-ROM.

Boot Sequence		Page 1/1
Fast Boot-----	[Enabled]/[Disabled ]	
Boot Menu-----	[Enabled]/[Disabled ]	
1394Legacy Modes-----	[Disabled]/[Enabled ]	
Boot From LAN-----	[Disabled]/[Enabled ]	
Boot Drive Sequence:		
1 <sup>st</sup> -----	[ Floppy Disk ]	
2 <sup>nd</sup> -----	[ CD-ROM ]	
3 <sup>rd</sup> -----	[ Hard Disk ]	
4 <sup>th</sup> -----	[ LANDesk® Service Agent ]	
5 <sup>th</sup> -----	[ 1394 CD-ROM ]	
6 <sup>th</sup> -----	[ 1394 CD-ROM]	
↑↓ = Move highlight bar,      ← → = Change setting,      F1 = Help		

Parameter	Description	Options
Fast Boot	When this flag is set, the ACPI OS will communicate with the BIOS to decide the next POST is Fast or Diagnostic.	<b>Enabled</b> or Disabled
Boot Menu	When this flag is set, the F12 will communicate with the BIOS to decide can use F12 choose Boot sequence. When disable the flag, F12 will not show boot menu.	<b>Enabled</b> or Disabled
1394 Legacy Mode	When enabled, you can choose use 1394 driver host with appropriate boot image can boot this computer.	<b>Disabled</b> or Enabled
Boot from LAN	When enabled, remote host with appropriate boot image can boot this computer.	<b>Disabled</b> or Enabled
Boot Drive Sequence	There are four priorities that can let the user to specify the boot device sequence.	

Note:

1. This option item should be add one or two 1394 CD-ROM devices if user chooses the Enable 1394 Legacy Mode and system have one or two 1394 CD-ROM.
2. When the 1394 Legacy is disabled, the sub-items will be not showed.

## Onboard Device Configuration

The parameters in this screen are for advanced users only. You do not need to change the values in this screen because these values are already optimized.

The Onboard Device Configuration screen assigns resources to basic computer communication hardware.

Onboard Devices Configuration		Page 1/1
Serial Port -----	[Disabled ]/[Enabled ]	
Base Address -----	[---] / [ <b>3F8h</b> ] / [2F8h] / [3E8h] / [2E8h]	
IRQ -----	[- ] / [3 ] / [4 ]	
IrDA FIR -----	[Enabled ] / [Disabled]	
Base Address -----	[ <b>2F8h</b> ] / [3F8h] / [3E8h] / [2E8h]	
IRQ -----	[3 ] / [4 ]	
DMA Channel -----	[3 ] / [1] / [4 ]	
Parallel Port -----	[Enabled ] / [Disabled ]	
Base Address -----	[ <b>378h</b> ] / [[278h] / [3BCh]	
IRQ -----	[5 ] / [7 ]	
Operation Mode -----	[ECP]/[EPP]/[ <b>Bi-directional</b> ]/[Standard]	
ECP DMA Channel -----	[1] / [3 ] <sup>*note1</sup>	
↑↓ = Move highlight bar,      ← → = Change setting,      F1 = Help		

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

Parameter	Description	Options
Serial Port	Enables or disables the serial port. The serial port is a PnP device. Enabled/Disabled setting will not affect the Windows Device manager setting of the serial port.	<b>Enabled</b> or Disabled
Base Address	Sets the I/O address of the serial port.	<b>3F8h</b> , 2F8h, 3E8h or 2E8h
IRQ	Sets the interrupt request of the serial port.	<b>4</b> ,3
IrDA FIR	Enables or disables the IrDA FIR. The IrDA FIR is a PnP device. Enabled/Disabled setting will not affect the WinMe Device Manager setting of the IrDA FIR.	<b>Enabled</b> or Disabled
Base Address	Sets the I/O address of the IrDA FIR.	<b>2F8h</b> , 3F8h, 3E8h or 2E8h
IRQ	Sets the interrupt request of the parallel port.	<b>3</b>
DMA	Sets a DMA channel for IrDA	<b>3</b>
Parallel Port	Enables or disables the parallel port. This parallel port is PnP device. Enabled/Disabled setting will not affect the Windwos Device Manage setting of the parallel port.	<b>Enabled</b> or Disabled
Base Address	Set the I/O address of the parallel port.	<b>378h</b> , 278h, or 3BCh.
IRQ	Sets the interrupt request of the parallel port.	<b>7</b> , 5,

Parameter	Description	Options
Operation Mode	Sets operation mode of the parallel port. Only set the parallel port operation mode BIOS Setup. If set to be ECP mode, the Windows will assume the parallel port as the ECP port.	<b>Bi-directional</b> , ECP, or Standard
ECP DMA Channel	Sets a DMA channel for the printer to operate in ECP mode. This parameter is enabled only if Operation Mode is set to ECP.	<b>1</b> or 3

Note:

1. This option item should be [---] if user chooses the Bi-directional and Standard mode.
2. When the device is disabled, all the sub-items will be showed with[---].

## System Security

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

System Security	Page 1/1
Setup Password----- <b>[None]</b> / [Present] Poweron Password----- <b>[None]</b> / [Present] Hard Disk Password----- <b>[None]</b> / [Present] Processor Serial Number----- <b>[Enabled]</b> / [Disabled]	
↑↓ = Move highlight bar, ← → = Change setting, F1 = Help	

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

Parameter	Description	Options
Setup Password	When set, this password protects the BIOS SETUP menu from unauthorized entry.	<b>None</b> or Present
Power-on Password	When set, this password protects the computer from unauthorized entry during boot-up.	<b>None</b> or Present
Hard Disk Password	This item appears only if the platform is business model.	<b>None</b> or Present
Processor Serial Number	A lot of the literature available on the serial number suggests that it should be used to encrypt and decrypt data sent to and from e-commerce sites.	<b>Enabled</b> or Disabled

---

## Setting a Password

Follow these steps:

1. Use the cursor up/down keys to highlight a Password parameter (Setup, Power-on or Hard Disk) and press the  /  key. The password box appears:



2. Type a password. The password may consist of up to eight characters (A-Z, a-z, 0-9).

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

3. Press . Retype the password to verify your first entry and press .
4. After setting the password, the computer automatically sets the chosen password parameter to Present.

Three password types protect your computer from unauthorized access. Setting these passwords creates several different levels of protection for your computer and data:

- Setup Password prevents unauthorized entry to the BIOS Utility. Once set, you must key-in this password to gain access to the BIOS Utility.
- Power-On Password secures your computer against unauthorized use. Combine the use of this password with password checkpoints on boot-up and resume from hibernation for maximum security.
- Hard Disk Password protects your data by preventing unauthorized access to your hard disk. Even if the hard disk is removed from the computer and moved to another computer, it cannot be accessed without the Hard Disk Password.

When a password is set, a password prompt appears on the left-hand corner of the display screen.

1. When the Setup Password is set, the following prompt appears when you press  to enter the BIOS Utility at boot-up.

### Setup Password



Type the Setup Password and press  to access the BIOS Utility.

You have three chances to enter the correct Setup Password. If you enter the incorrect Setup Password, an X symbol will display. Try again and press . However, if you fail to enter the correct Setup Password more than three times, the system will display: Incorrect password specified. System disable.

2. When the Power-on Password is set, the following prompt appears at boot-up.



Type the Power-on Password (a symbol appears for each character you type) and press  to use the computer. If you enter the password incorrectly, an x symbol appears. Try again and press . You have three chances to enter the correct Power-on Password. If you keyin the wrong password more than three times. The following image will display.



---

3. When the Hard Disk Password is set, the following prompt appears at boot-up.



Type the Hard Disk Password (a dot appears for each character you type) and press **ENTER** to use the computer. If you enter the password incorrectly, an **x** symbol appears. Try again and press **ENTER**.

You have three chances to enter a password. If you successfully entered the password, the following symbol appears..



If you fail to enter the password correctly after three tries, the system hangs and displays the symbol as following. |

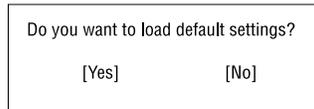


To change a password, follow the same steps used to set a password.

To remove a password, follow the same steps used to set a password, except type nothing in the password boxes.

## Load Default Settings

If you want to restore all parameter settings to their default values, select this menu item and press **ENTER**. The following dialog box displays.



If you would like to load default settings for all parameters, use the cursor **←** / **→** keys to select **Yes**; then press **ENTER**. Choose **No** if otherwise.

---

## BIOS Flash Utility

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

- New versions of system programs
- New features or options

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

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

**NOTE:** This program contains a readme.txt file. This readme.txt file will introduce on how to use IFlash utility.

## System Utility Diskette

This utility diskette is for the Acer TravelMate 360 notebook machine. You can find the utility in Service CD kit. It provides the following functions:

1. Panel ID Utility
2. Thermal & Fan Utility
3. Mother Board Data Utility

To use this diskette, first boot from this diskette, then a "Microsoft Windows ME Startup Menu" prompt you to choose the testing item. Follow the instructions on screen to proceed.

**NOTE:** This program contains a readme.txt file. This readme.txt file will introduce each test utility and its functions.

## System Diagnostic Diskette

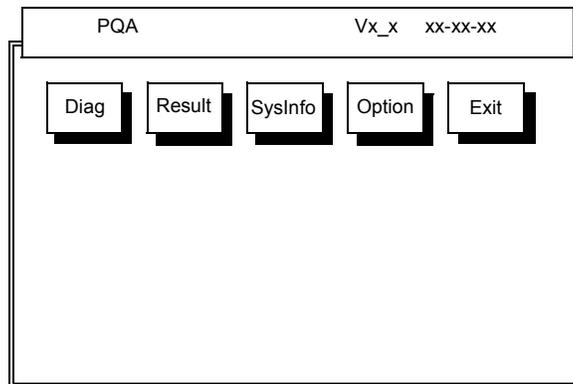
**IMPORTANT:** <sup>1</sup>The diagnostics program here that we used is called PQA (Product Quality Assurance) and is provided by Acer Headquarters. You can utilize it as a basic diagnostic tool. To get this program, either download it from <http://csd.acer.com.tw> or find it in the TravelMate 360 service CD kit. To better fit local service requirements, your regional office MAY have other diagnostic program. Please contact your regional offices or the responsible personnel/channel to provide you with further technical details.

**NOTE:** This program contains a readme.txt file. This readme.txt file will introduce each test and its functions.

---

<sup>1</sup> New added description. Please pay attention to it.

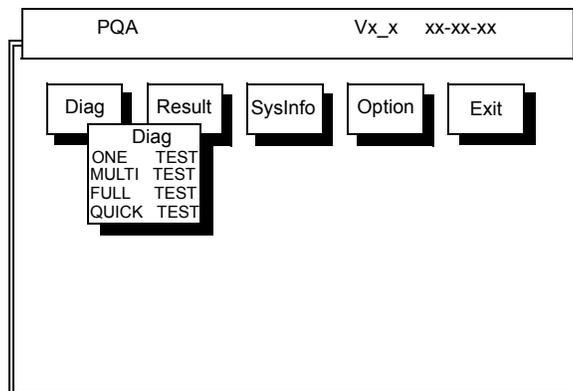
## Running PQA Diagnostics Program



Press **←** / **→** to move around the main menu. Press **ENTER** to enable the selected option. The main options are Diag, Result, SysInfo, Option and Exit.

The Diag option lets you select testing items and times.

The following screen appears when you select Diag from the main menu.



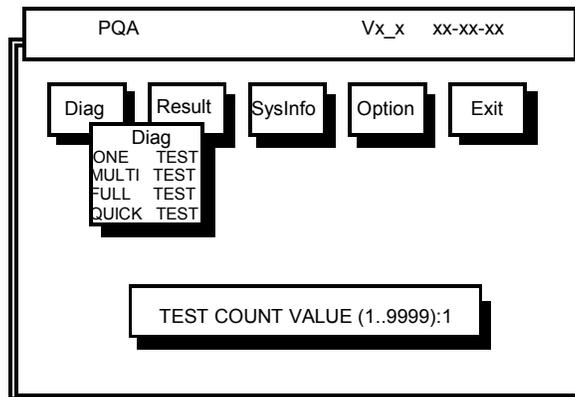
One Test performs a single test and Manual checks the selected test items in sequence.

Multi Test performs multiple tests of the selected items and check the selected test items in sequence.

Full Test performs all test items in detail for your system.

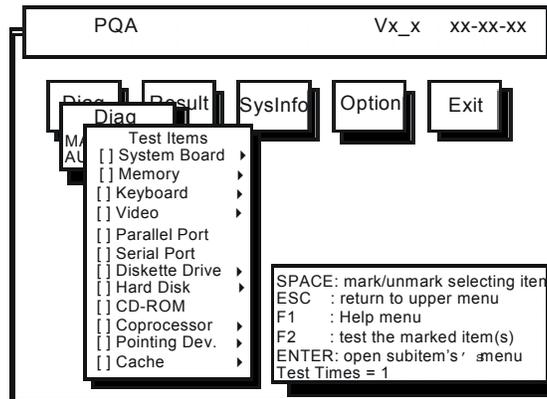
Quick Test performs all test items quickly for your system.

The screen below appears if you select Multi Test.



Specify the desired number of tests and press **ENTER**.

After you specify the number of tests to perform, the screen shows a list of test items (see below).



Move the highlight bar from one item to another. Press Space to enable or disable the item. Press **ENTER** to view the available options of each selected item. Press **ESC** to close the submenu.

The right corner screen information gives you the available function keys and the specified test number.

- Space: Enables/disables the item
- ESC: Exits the program
- F1: Help
- F2: Tests the selected item(s)
- Enter: Opens the available options
- Test Times: Indicates the number of tests to perform.

**NOTE:** The F1 and F2 keys function only after you finish configuring the Test option.

When any errors are detected by diagnostic program, refer to the txt file "Ermsg" for troubleshooting.



## Machine Disassembly and Replacement

---

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

To disassemble the computer, you need the following tools:

- Wrist grounding strap and conductive mat to prevent electrostatic discharge
- Flat-bladed screwdriver
- Phillips screwdriver
- Hexagonal screwdriver
- Plastic stick

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

---

## General Information

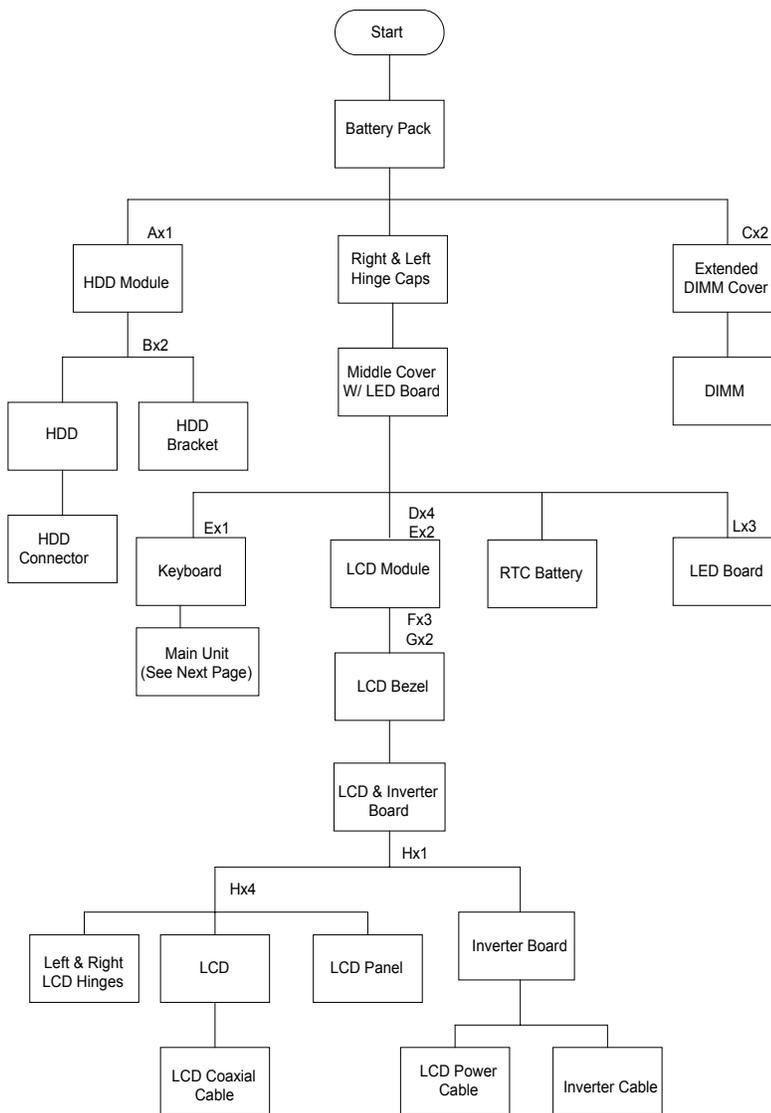
### Before You Begin

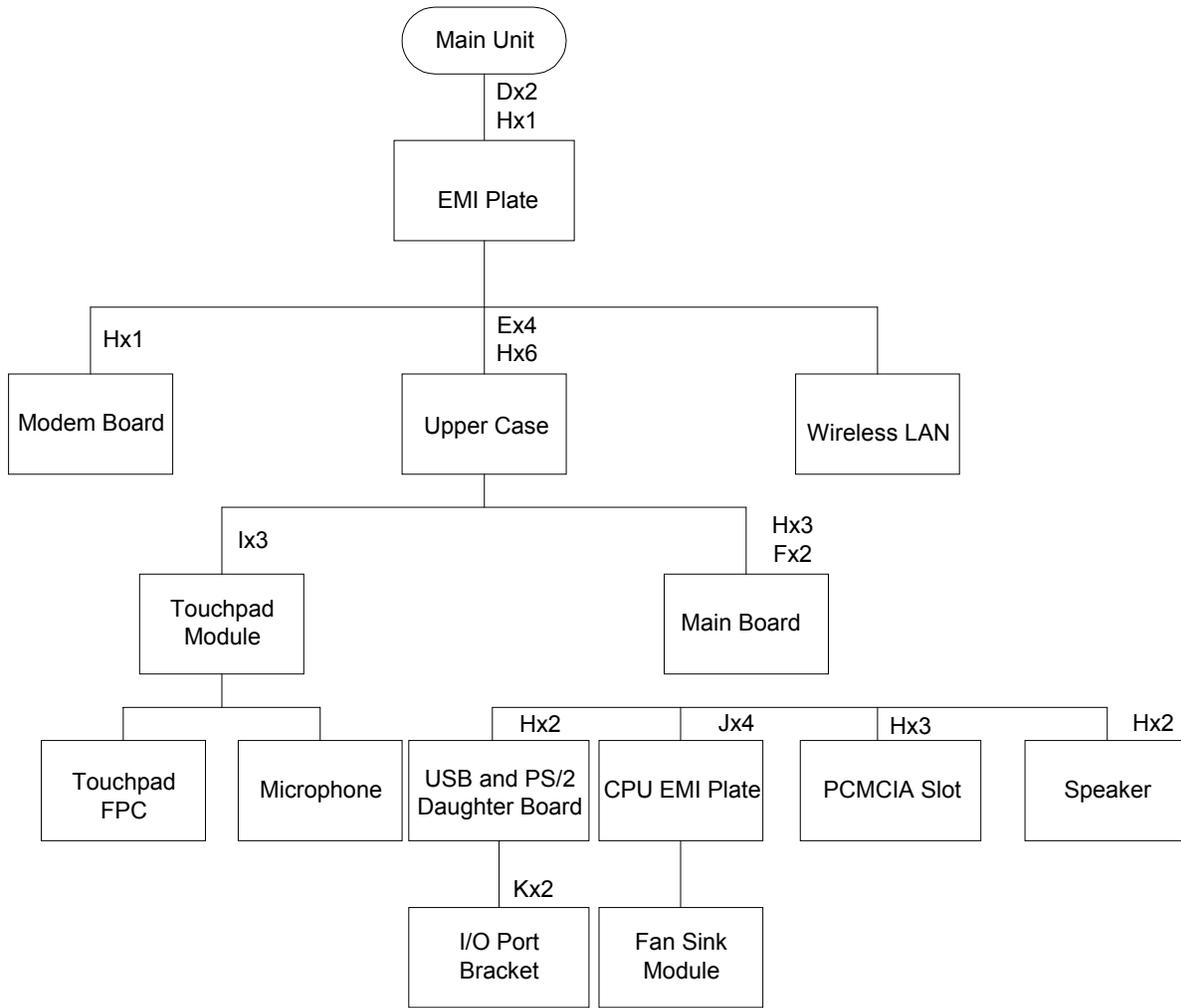
Before proceeding with the disassembly procedure, make sure that you do the following:

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

# Disassembly Procedure Flowchart

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





### Screw List

Item	Description
A	Screw M2 X L7 (Black)
B	Screw M3 X L4 (Silver)
C	Screw DIMM Cover Steel Nagano-1 (Black)
D	Screw M2.5 X L8 (Black)
E	Screw M2.5 X L6 (Black)
F	Screw M2.5 X L4 (Black)
G	Screw NYLOK M2.5-5 (Black)
H	Screw M2X4 (Head 0.5) NYLOK
I	Screw M2 X L2.5 (Black)
J	Screw Big Head M2 X L4 (Black)
K	Screw Hex (Silver)
L	Screw Tapping M2XL2.5 (Black)

---

## Removing the Battery Pack

1. To remove the battery pack, push the battery release button inward.
2. Slide the battery pack out from the main unit.



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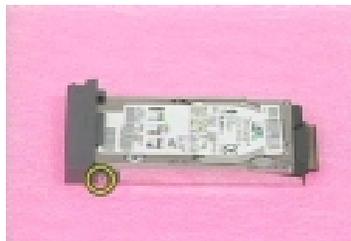
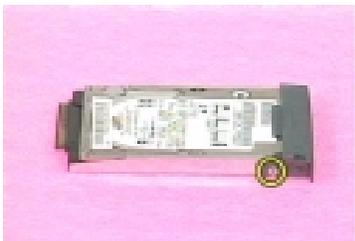
## Removing the Hard Disk Drive Module

1. See “Removing the Battery Pack” on page 53
2. To remove the hard disk drive, first remove the screw from the hard disk drive bezel.
3. Then carefully remove the hard disk drive module from the main unit.



## Disassembling the Hard Disk Drive Module

1. See “Removing the Battery Pack” on page 53
2. See “Removing the Hard Disk Drive Module” on page 54”.
3. Remove the two screws from either side of the hard disk drive module.



4. Remove the hard disk drive bezel from the hard disk drive module.
5. Slide the hard disk drive out from the hard disk drive bracket.



6. Then disconnect the drive connector from the drive module.



---

## Removing the DVD-ROM and Floppy disk drive Module

1. To remove the DVD-ROM and floppy disk drive module, first disconnect the DVD-ROM and floppy disk drive cable from the easylink combo drive bay.



2. Then close the easylink combo drive bay cover.



---

## Removing the Video Capture Kit

1. To remove the video capture kit, disconnect the video capture kit cable from the USB port on the rear of the unit.
2. Remove the video capture kit from the side of the LCD.



3. Then insert the rubber cover back into its position.



---

## Removing the Extended Memory

1. See “Removing the Battery Pack” on page 53
2. To remove the extended memory from the machine, first loosen two screws from the memory cover.
3. Then lift the cover off and remove it from the main unit.



4. Push out the latches on both sides of the socket and pull the memory module from the socket.



---

## Disassembling the LCD

### Removing the Hinge Caps

1. See “Removing the Battery Pack” on page 53
2. To avoid risk on LCD damage, place a protective mylar film on the LCD surface before disassembly.

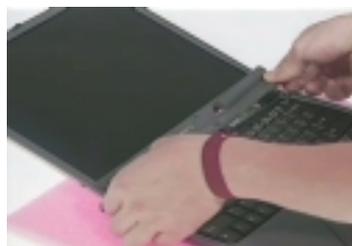


3. Push the right and left hinge caps outward, then slide the caps out from the main unit.



### Removing the Middle Cover

1. See “Removing the Battery Pack” on page 53
2. See “Removing the Hinge Caps” on page 58
3. Push the middle cover backward and lift the middle cover away from the system.



4. Disconnect the LED FPC from the main board at CN9 and remove the middle cover from the main unit.



---

## Removing the LED Board

1. See “Removing the Battery Pack” on page 53
2. See “Removing the Hinge Caps” on page 58
3. Remove the three screws on the middle cover and then remove the LED board from the middle cover.



## Removing the Keyboard

1. See “Removing the Battery Pack” on page 53
2. See “Removing the Hinge Caps” on page 58
3. See “Removing the Middle Cover” on page 58
4. To remove the keyboard, first remove the screw from the back side of the main unit.



5. Pull the two latches downward to lift the keyboard upward and expose the keyboard.



6. Disconnect the keyboard cable from the main board at CN19, then carefully remove the keyboard from the unit.



---

## Removing the LCD Module

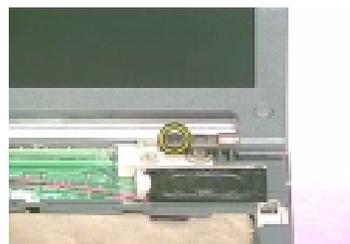
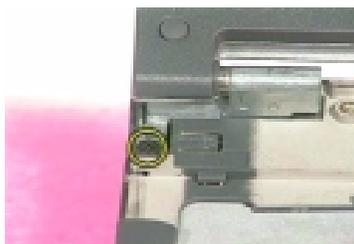
1. See “Removing the Battery Pack” on page 53
2. See “Removing the Hinge Caps” on page 58
3. See “Removing the Middle Cover” on page 58
4. Remove the two screws from the LCD coaxial cable.
5. Disconnect the coaxial cable from the main board at CN20.



6. Disconnect the inverter cable from the main board at CN8.



7. Remove the four screws from the hinges and bottom of the unit as shown.



8. Then remove the LCD module from the main unit.

---

## Disassembling the LCD Module

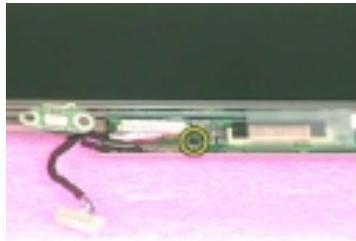
1. See “Removing the Battery Pack” on page 53
2. See “Removing the Hinge Caps” on page 58
3. See “Removing the Middle Cover” on page 58
4. See “Removing the Video Capture Kit” on page 56
5. Remove five LCD cushions and then five screws from the LCD bezel.



6. Snap off the LCD bezel carefully then remove the LCD bezel from the module.



7. Remove the screw from the inverter.
8. Disconnect the LCD power cable from the inverter at CN2 and then remove the inverter from the LCD module.



9. Disconnect the inverter cable from the inverter at CN1.



10. Remove four screws from both sides of the LCD.

11. Then remove the LCD from the LCD panel.



12. Remove the ESD tape and disconnect the LCD coaxial cable from the LCD gently.



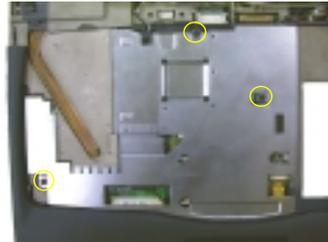
13. Then remove the two LCD hinges from the panel.



---

## Removing the EMI Plate

1. See “Removing the Battery Pack” on page 53
2. See “Removing the Hinge Caps” on page 58
3. See “Removing the Middle Cover” on page 58
4. See “Removing the Keyboard” on page 59
5. Loosen three screws from the EMI plate.



6. Remove the EMI plate from the main unit.

---

## Removing the Modem Board

1. See “Removing the Battery Pack” on page 53
2. See “Removing the Hinge Caps” on page 58
3. See “Removing the Middle Cover” on page 58
4. See “Removing the Keyboard” on page 59
5. Disconnect the modem cable from the main board at CN4.



6. Remove the screw from the modem board and then remove the modem board from the main board at CN13.



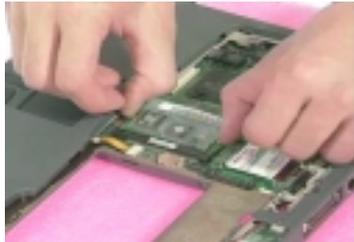
7. Remove the modem cable from the modem board.



---

## Removing the Wireless LAN Board

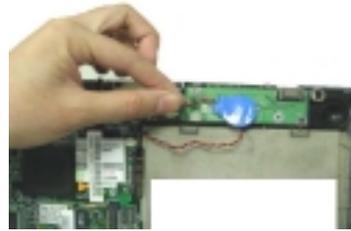
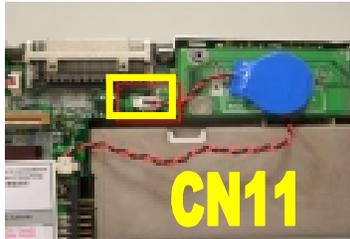
1. See “Removing the Battery Pack” on page 53
2. See “Removing the Hinge Caps” on page 58
3. See “Removing the Keyboard” on page 59
4. See “Removing the EMI Plate” on page 63
5. Push the latches on both sides of the socket and pull the Wireless LAN board out of the socket.



---

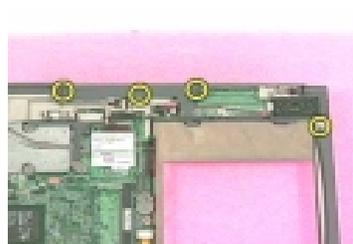
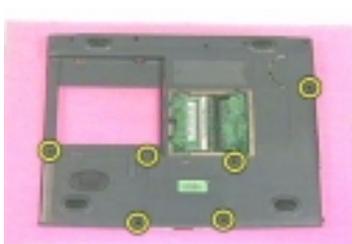
## Removing the RTC Battery

1. See “Removing the Battery Pack” on page 53
2. See “Removing the Hinge Caps” on page 58
3. See “Removing the Middle Cover” on page 58
4. Disconnect the RTC connector from the mainboard at CN11 and remove the RTC battery.

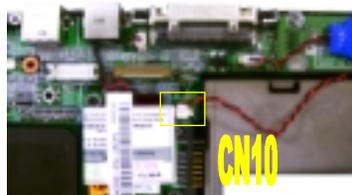


## Removing the Upper Case

1. See “Removing the Battery Pack” on page 53
2. See “Removing the Hinge Caps” on page 58
3. See “Removing the Middle Cover” on page 58
4. See “Removing the Keyboard” on page 59
5. See “Removing the EMI Plate” on page 63
6. To remove the upper case, first remove the six screws from the bottom of the main unit and four screws from the upper case as shown.



7. Disconnect the speaker cable from the main board at CN10.



8. Disconnect the touchpad cable from the main board at CN17.



9. Then detach the upper case of the main unit carefully.



10. Disconnect the microphone cable from the main board at CN23.



11. Then remove the upper case from the main unit.

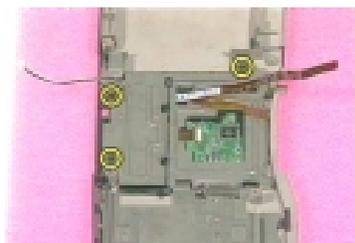
## Removing the Speaker

1. See “Removing the Battery Pack” on page 53
2. See “Removing the Hinge Caps” on page 58
3. See “Removing the Middle Cover” on page 58
4. See “Removing the Keyboard” on page 59
5. See “Removing the EMI Plate” on page 63
6. See “Removing the Upper Case” on page 67
7. See “Removing the Main board” on page 70
8. Remove the two screws from the speaker and then remove the speaker from the upper case.

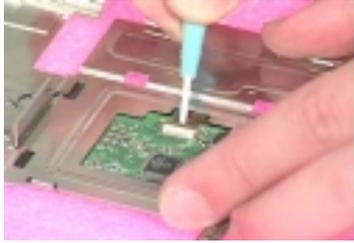


## Removing the Touchpad

1. See “Removing the Battery Pack” on page 53
2. See “Removing the Hinge Caps” on page 58
3. See “Removing the Middle Cover” on page 58
4. See “Removing the Keyboard” on page 59
5. See “Removing the EMI Plate” on page 63
6. See “Removing the Upper Case” on page 67
7. Remove the three screws from the touchpad support bracket then slide the bracket leftward to detach it from the upper case.



- 
8. Disconnect the touchpad cable from the touchpad, then remove the touchpad board from the bracket.



9. Remove the microphone from the upper case.



---

## Removing the Lower Case

### Removing the Main board

1. See “Removing the Battery Pack” on page 53
2. See “Removing the Hinge Caps” on page 58
3. See “Removing the Middle Cover” on page 58
4. See “Removing the Keyboard” on page 59
5. See “Removing the EMI Plate” on page 63
6. See “Removing the Upper Case” on page 67
7. Remove the three screws from the bottom of the unit and two screws from the main board.



8. Remove the main board from the lower case.



### Removing the CPU EMI Plate

1. See “Removing the Battery Pack” on page 53
2. See “Removing the Hinge Caps” on page 58
3. See “Removing the Middle Cover” on page 58
4. See “Removing the Keyboard” on page 59
5. See “Removing the EMI Plate” on page 63
6. See “Removing the Upper Case” on page 67
7. See “Removing the Main board” on page 70
8. Remove the four screws from the CPU EMI plate.

---

9. Then remove the CPU EMI plate from the main board.



---

## Removing the Heatsink

1. See “Removing the Battery Pack” on page 53
2. See “Removing the Hinge Caps” on page 58
3. See “Removing the Middle Cover” on page 58
4. See “Removing the Keyboard” on page 59
5. See “Removing the EMI Plate” on page 63
6. See “Removing the Upper Case” on page 67
7. See “Removing the Main board” on page 70
8. See “Removing the CPU EMI Plate” on page 70
9. Detach the ESD tape from the main board.

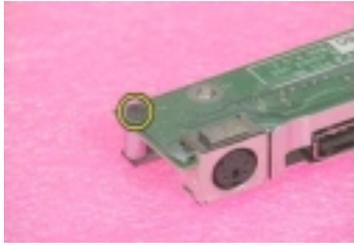


10. Lift up the heatsink and disconnect the fan cable from the main board at CN27.
11. Then remove the heatsink.

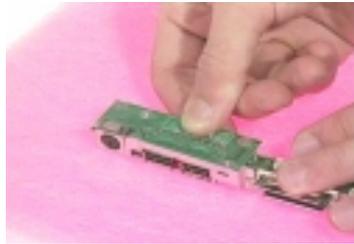
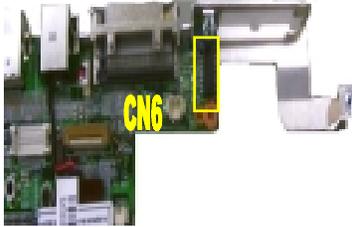


## Removing the Daughter and I/O board

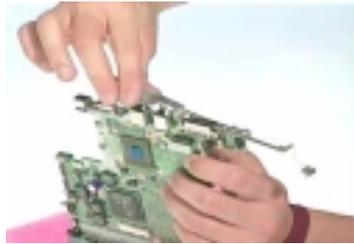
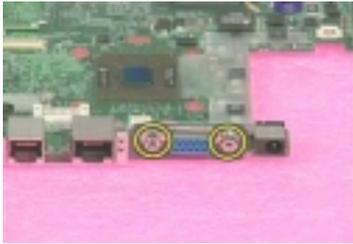
1. See “Removing the Battery Pack” on page 53
2. See “Removing the Hinge Caps” on page 58
3. See “Removing the Middle Cover” on page 58
4. See “Removing the Keyboard” on page 59
5. See “Removing the EMI Plate” on page 63
6. See “Removing the Upper Case” on page 67
7. See “Removing the Main board” on page 70
8. Remove the two screws from the USB daughter board.



9. Then remove the USB daughter board from the main board at CN6.



10. Remove the two hex screws from the I/O port bracket, then remove the I/O port bracket from the main board.
11. Detach the audio cover from the main board.



## Removing the PCMCIA Slot

1. See “Removing the Battery Pack” on page 53
2. See “Removing the Hinge Caps” on page 58
3. See “Removing the Middle Cover” on page 58
4. See “Removing the Keyboard” on page 59
5. See “Removing the EMI Plate” on page 63
6. See “Removing the Upper Case” on page 67
7. See “Removing the Main board” on page 70
8. Disconnect the PCMCIA slot cable from the main board at CN22.



9. Loosen the three screws from the main board.
10. Detach the PCMCIA slot with a flat screw driver to loosen the latch.



11. Then remove the PCMCIA slot from the main board at CN20.



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# System Upgrade Procedure

## Base Unit to Wireless LAN Unit

To upgrade the system from Base Unit to Wireless LAN Unit

1. See “Removing the Battery Pack” on page 53
2. See “Removing the Hinge Caps” on page 58
3. See “Removing the Middle Cover” on page 58
4. See “Removing the Keyboard” on page 59
5. See “Removing the EMI Plate” on page 63
6. See “Removing the Upper Case” on page 67



7. Note that the one with white RF cable is for the right antenna and the one with the black RF cable is for the left antenna.
8. Attach the right antenna to the upper case and secure it with a screw.
9. Ensure that the RF cable is arranged well.



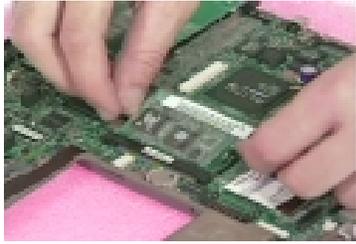
10. Attach the left antenna to the upper case and secure it with a screw.



---

**11.** Remove the LAN board from the main board.

**12.** Then insert the wireless LAN board into its socket and press it down to secure well.



**13.** Be careful to arrange the right and left RF cables well.

**14.** Re-attach the upper case back into the main unit and connect the RF cables into the Wireless LAN board.





## Troubleshooting

Use the following procedure as a guide for computer problems.

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

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

Symptoms (Verified)	Go To
Power failure. (The power indicator does not go on or stay on.)	"Power System Check" on page 81.
POST does not complete. No beep or error codes are indicated.	"Power-On Self-Test (POST) Error Message" on page 84 "Undetermined Problems" on page 92
POST detects an error and displayed messages on screen.	"Error Message List" on page 85
The diagnostic test detected an error and displayed a FRU code.	"System Diagnostic Diskette" on page 45
Other symptoms (i.e. LCD display problems or others).	"Power-On Self-Test (POST) Error Message" on page 84
Symptoms cannot be re-created (intermittent problems).	Use the customer-reported symptoms and go to "Power-On Self-Test (POST) Error Message" on page 84 "Intermittent Problems" on page 91 "Undetermined Problems" on page 92

---

# System Check Procedures

## External Diskette Drive Check

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

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

Do the following to select the test device. See "System Diagnostic Diskette" on page 45 for details.

1. Boot from the diagnostics diskette and start the PQA program (see "System Diagnostic Diskette" on page 45).
2. Go to the diagnostic Diskette Drive in the test items.
3. Press **F2** in the test items.
4. Follow the instructions in the message window.

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

If the error still remains:

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

## External CD-ROM Drive Check

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

Do the following to select the test device:

1. Boot from the diagnostics diskette and start the PQA program (refer to "System Diagnostic Diskette" on page 45).
2. Go to the diagnostic CD-ROM in the test items.
3. Press **F2** in the test items.
4. 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 system board.

---

## Keyboard or Auxiliary Input Device Check

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

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

If the keyboard cable connection is correct, run the Keyboard Test. See "System Diagnostic Diskette" on page 45 for details.

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 system board.

The following auxiliary input devices are supported by this computer:

- Numeric keypad
- External keyboard

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

## Memory Check

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

1. Boot from the diagnostics diskette and start the PQA program (please refer to "System Diagnostic Diskette" on page 45).
2. Go to the diagnostic memory in the test items.
3. Press **F2** in the test items.
4. Follow the instructions in the message window.

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

## Power System Check

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

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

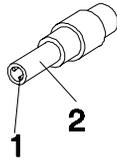
If you suspect a power problem, see the appropriate power supply check in the following list:

- "Check the Power Adapter" on page 82
- "Check the Battery Pack" on page 83

---

## Check the Power Adapter

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



Pin 1: +19 to +20.5V

Pin 2: 0V, Ground

1. If the voltage is not correct, replace the power adapter.
2. If the voltage is within the range, do the following:
  - Replace the System board.
  - If the problem is not corrected, see “Undetermined Problems” on page 92.
  - If the voltage is not correct, go to the next step.

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

3. If the power-on indicator does not light up, check the power cord of the power adapter for correct continuity and installation.
4. If the operational charge does not work, see “Check the Battery Pack” on page 83.

---

## Check the Battery Pack

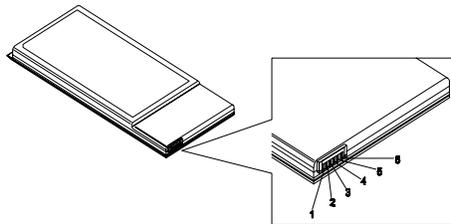
To check the battery pack, do the following:

From Software:

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

From Hardware:

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



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

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

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

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

## Touchpad Check

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

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

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

---

## Power-On Self-Test (POST) Error Message

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

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

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

If the symptom is not listed, see “Undetermined Problems” on page 92.

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

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

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

# Index of Error Messages

## Error Code List

Error Codes	Error Messages
006	Equipment Configuration Error Causes: 1. CPU BIOS Update Code Mismatch 2. IDE Primary Channel Master Drive Error 3. IDE Secondary Channel Master Drive Error (The causes will be shown before "Equipment Configuration Error")r
010	Memory Error at xxxx:xxxx:xxxxh (R:xxxxh, W:xxxxh) Configuration Error
070	Real Time Clock Error
071	CMOS Battery Bad
072	CMOS Checksum Error
110	Incorrect password specified, system disabled. (Text mode only)
<No error code>	Battery critical LOW In this situation BIOS will issue 4 short beeps then shut down system, no message will show.
<No error code>	Thermal critical High In this situation BIOS will issue 3 long beeps then shut down system.

## Error Message List

Error Messages	FRU/Action in Sequence
Failure Fixed Disk	Reconnect hard disk drive connector. "Load Default Settings" in BIOS Setup Utility. Hard disk drive System board
Stuck Key	see "Keyboard or Auxiliary Input Device Check" on page 81 .
Keyboard error	see "Keyboard or Auxiliary Input Device Check" on page 81.
Keyboard Controller Failed	see "Keyboard or Auxiliary Input Device Check" on page 81.
Keyboard locked - Unlock key switch	Unlock external keyboard
Monitor type does not match CMOS - Run Setup	Run "Load Default Settings" in BIOS Setup Utility.
Shadow RAM Failed at offset: nnnn	BIOS ROM System board
System RAM Failed at offset: nnnn	DIMM System board
Extended RAM Failed at offset: nnnn	DIMM System board
System battery is dead - Replace and run Setup	Replace RTC battery and Run BIOS Setup Utility to reconfigure system time, then reboot system.
System CMOS checksum bad - Default configuration used	RTC battery Run BIOS Setup Utility to reconfigure system time, then reboot system.
System timer error	RTC battery Run BIOS Setup Utility to reconfigure system time, then reboot system. System board

## Error Message List

Error Messages	FRU/Action in Sequence
Real time clock error	RTC battery Run BIOS Setup Utility to reconfigure system time, then reboot system. System board
Previous boot incomplete - Default configuration used	Run "Load Default Settings" in BIOS Setup Utility. RTC battery System board
Memory size found by POST differed from CMOS	Run "Load Default Settings" in BIOS Setup Utility. DIMM System board
Diskette drive A error	Check the drive is defined with the proper diskette type in BIOS Setup Utility See "External Diskette Drive Check" on page 80.
Incorrect Drive A type - run SETUP	Check the drive is defined with the proper diskette type in BIOS Setup Utility See "External Diskette Drive Check" on page 80.
System cache error - Cache disabled	System board
CPU ID:	System board
DMA Test Failed	DIMM System board
Software NMI Failed	DIMM System board
Fail-Safe Timer NMI Failed	DIMM System board
Device Address Conflict	Run "Load Default Settings" in BIOS Setup Utility. RTC battery System board
Allocation Error for device	Run "Load Default Settings" in BIOS Setup Utility. RTC battery System board
Failing Bits: nnnn	DIMM BIOS ROM System board
Fixed Disk n	None
Invalid System Configuration Data	BIOS ROM System board
I/O device IRQ conflict	Run "Load Default Settings" in BIOS Setup Utility. RTC battery System board
Operating system not found	Enter Setup and see if fixed disk and drive A: are properly identified. Diskette drive Hard disk drive System board

## Error Message List

No beep Error Messages	FRU/Action in Sequence
No beep, power-on indicator turns off and LCD is blank.	Power source (battery pack and power adapter). See "Power System Check" on page 81. Ensure every connector is connected tightly and correctly. Reconnect the DIMM. LED board. System board.
No beep, power-on indicator turns on and LCD is blank.	Power source (battery pack and power adapter). See "Power System Check" on page 81. Reconnect the LCD connector Hard disk drive LCD inverter ID LCD cable LCD Inverter LCD System board
No beep, power-on indicator turns on and LCD is blank. But you can see POST on an external CRT.	Reconnect the LCD connectors. LCD inverter ID LCD cable LCD inverter LCD System board
No beep, power-on indicator turns on and a blinking cursor shown on LCD during POST.	Ensure every connector is connected tightly and correctly. System board
No beep during POST but system runs correctly.	Speaker System board

# Index of Symptom-to-FRU Error Message

## LCD-Related Symptoms

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

## Indicator-Related Symptoms

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

## Power-Related Symptoms

Symptom / Error	Action in Sequence
Power shuts down during operation	Power source (battery pack and power adapter). See "Power System Check" on page 81. Battery pack Power adapter Hard drive & battery connection board System board
The system doesn't power-on.	Power source (battery pack and power adapter). See "Power System Check" on page 81. Battery pack Power adapter Hard drive & battery connection board System board
The system doesn't power-off.	Power source (battery pack and power adapter). See "Power System Check" on page 81. Hold and press the power switch for more than 4 seconds. System board
Battery can't be charged	See "Check the Battery Pack" on page 83. Battery pack System board

### PCMCIA-Related Symptoms

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

### Memory-Related Symptoms

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

### Speaker-Related Symptoms

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

### Power Management-Related Symptoms

Symptom / Error	Action in Sequence
The system will not enter hibernation	Keyboard (if control is from the keyboard) Hard disk drive System board
The system doesn't enter hibernation mode and four short beeps every minute.	See "Hibernation Mode" on page 28. Press Fn+  and see if the computer enters hibernation mode. Touchpad Keyboard Hard disk connection board Hard disk drive System board
The system doesn't enter standby mode after closing the LCD	See "Hibernation Mode" on page 28. LCD cover switch System board
The system doesn't resume from hibernation mode.	See "Hibernation Mode" on page 28. Hard disk connection board Hard disk drive System board
The system doesn't resume from standby mode after opening the LCD.	See "Display Standby Mode" on page 28. LCD cover switch System board
Battery fuel gauge in Windows doesn't go higher than 90%.	Remove battery pack and let it cool for 2 hours. Refresh battery (continue use battery until power off, then charge battery). Battery pack System board

## Power Management-Related Symptoms

Symptom / Error	Action in Sequence
System hangs intermittently.	See "Thermal & Fan Utility" on page 45. Reconnect hard disk/CD-ROM drives. Hard disk connection board System board

## Peripheral-Related Symptoms

Symptom / Error	Action in Sequence
System configuration does not match the installed devices.	Enter BIOS Setup Utility to execute "Load Default Settings", then reboot system. Reconnect hard disk/CD-ROM/diskette drives.
External display does not work correctly.	Press Fn+ <b>F5</b> , LCD/CRT/Both display switching See "System Diagnostic Diskette" on page 45. System board
USB does not work correctly	See "System Diagnostic Diskette" on page 45 System board
Print problems.	Ensure the "Parallel Port" in the "Onboard Devices Configuration" of BIOS Setup Utility is set to Enabled. Onboard Devices Configuration Run printer self-test. Printer driver Printer cable Printer System Board
Serial or parallel port device problems.	Ensure the "Serial Port" in the Devices Configuration" of BIOS Setup Utility is set to Enabled. Device driver Device cable Device System board

## Keyboard/Touchpad-Related Symptoms

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

## Modem-Related Symptoms

Symptom / Error	Action in Sequence
Internal modem does not work correctly.	See "System Diagnostic Diskette" on page 45. Modem phone port modem combo board System board

**NOTE:** If you cannot find a symptom or an error in this list and the problem remains, see "Undetermined Problems" on page 92.

---

## Intermittent Problems

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

When analyzing an intermittent problem, do the following:

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

---

## Undetermined Problems

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

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

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

**NOTE:** Verify that the power supply being used at the time of the failure is operating correctly. (See "Power System Check" on page 81):

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

---

## Index of AFlash BIOS Error Message

Error Message	Action in Sequence
Hardware Error	See "System Diagnostic Diskette" on page 45
VPD Checksum Error	Reboot the system and then retest with this diskette.
BIOS Update Program Error	Turn off the power and restart the system.
System Error	Make sure this AFlash BIOS diskette for this model.
Without AC adapter	make sure to connect AC adapter
Battery Low	make sure to install a highly charged battery, and reboot system.

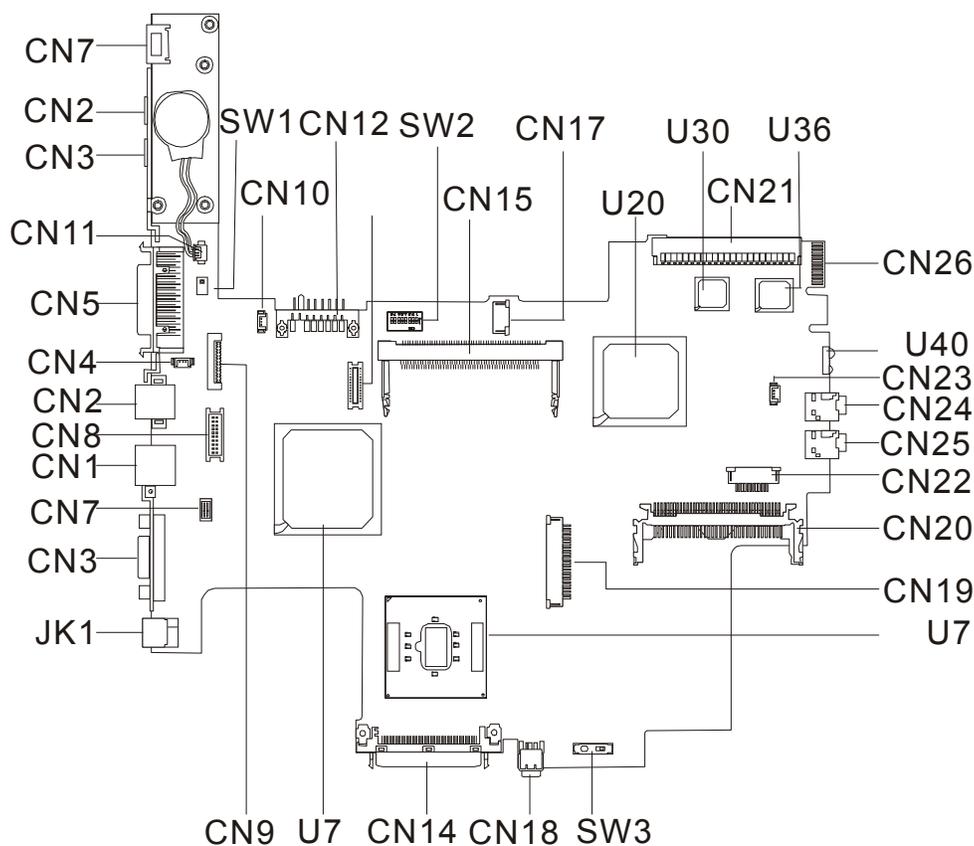
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## Index of PQA Diagnostic Error Code, Message

Error Code	Message	Action in Sequence
16XXX	Backup battery error	Backup battery
01XXX	CPU or main board error	Reload BIOS default setting. System board
02XXX	Memory error	DIMM System board
03XXX	Keyboard error	Reset Keyboard Keyboard System board
04XXX	Video error	System board
05XXX	Parallel Port error	System board
06XXX	Serial port or main board error	System board
07XXX	Diskette drive error	Diskette drive System board
08XXX	Hard disk error	Reload BIOS default setting Hard disk System board
09XXX	CD-ROM error	Reset CD-ROM cable CD-ROM drive System board
10XXX	Co-processor error	System board
11XXX	Pointing device error	Reset Keyboard Keyboard System board
12XXX	Cache test error	System board

## Jumper and Connector Locations

### Top View



#### PCB 01200-S

SW1	Cover Switch	U7	CPU socket
CN10	Speaker Connector	SW3	Power Switch
CN12	Battery Connector	CN18	1394 Connector
CN13	Modem Connector	CN14	Bay Connector
SW2	Jumper	U4	GMCH North Bridge
CN15	Mini PCI Connector	CN9	LED Board Connector
CN17	Touchpad Connector	JK1	AC Adapter
U20	ICH3 South Bridge	CN3	CRT Connector
U30	Super I/O SSMC LPC 47N267	CN7	LVDS Connector
CN21	HDD Connector	CN1	RJ45 (LAN Connector)
U36	Firmware Hub	CN8	Inverter Connector
CN26	Golden Finger	CN2	RJ11 (Modem Connector)
U40	FIR	CN4	MDC Modem Cable Connector
CN23	Microphone Connector	CN5	Port Replicator

CN24 Line-in/Microphone-in  
 CN25 Line-out/headphone  
 CN22 SmartCard Connector  
 CN20 PCMCIA Connector  
 CN19 Keyboard Connector

CN11 RTC Connector  
 CN3 USB Port  
 CN2 USB Port  
 CN4 PS/2 Keyboard or Mouse Port

## SW2 Setting

### 1. Internal Keyboard Switch Settings

	SW2-1	SW2-2	SW2-3
English KBD	OFF	OFF	OFF
Europe KBD	ON	OFF	OFF
Japan KBD	OFF	ON	OFF

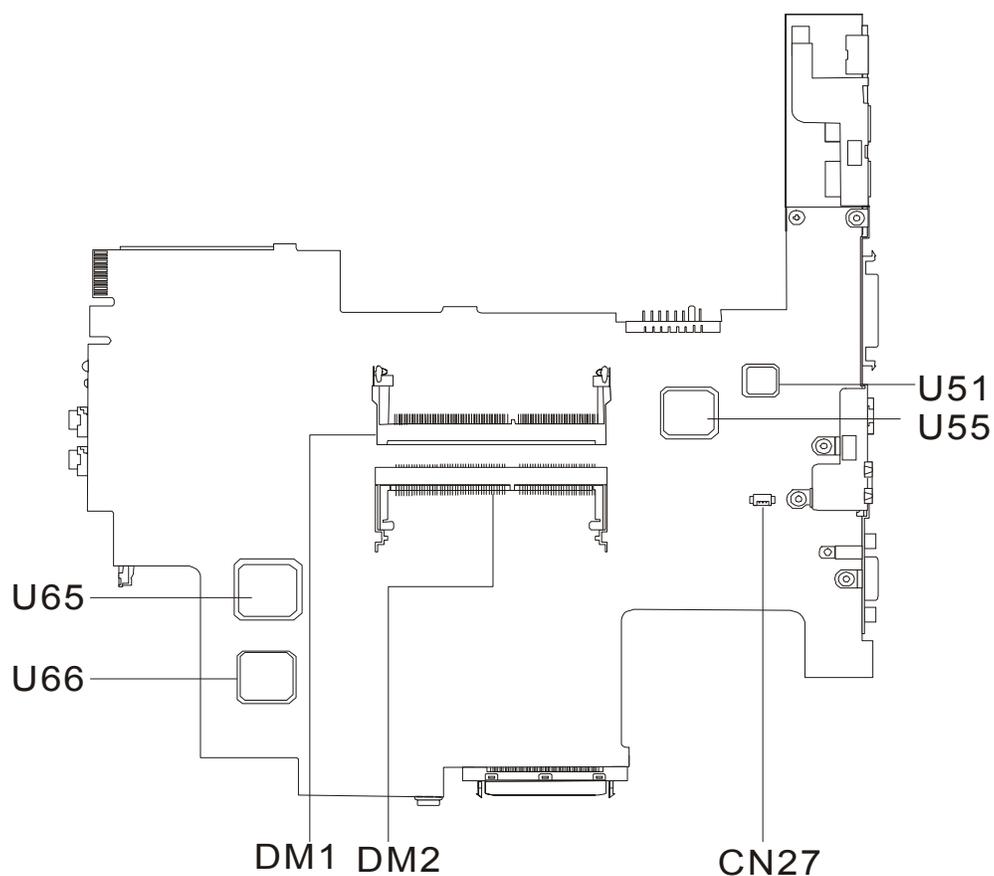
### 2. Bypass Power On and Setup Password

H/W Jumper: Bypass Power on and Setup Password		
	Disable	Enable
SW2-6	OFF	ON

### 3. Boot Block Erasable

H/W Jumper: Boot Block Erasable		
	Disable	Enable
SW2-7	OFF	ON

## Bottom View



U51	TV Encoder CH7011	DM1	DIMM Socket 1
U55	Intel VCH	U66	OZ OZ711E1B
CN27	FAN Connector	U65	TI 1394 (TSB43AB22)
DM2	DIMM Socket 2		



## FRU (Field Replaceable Unit) List

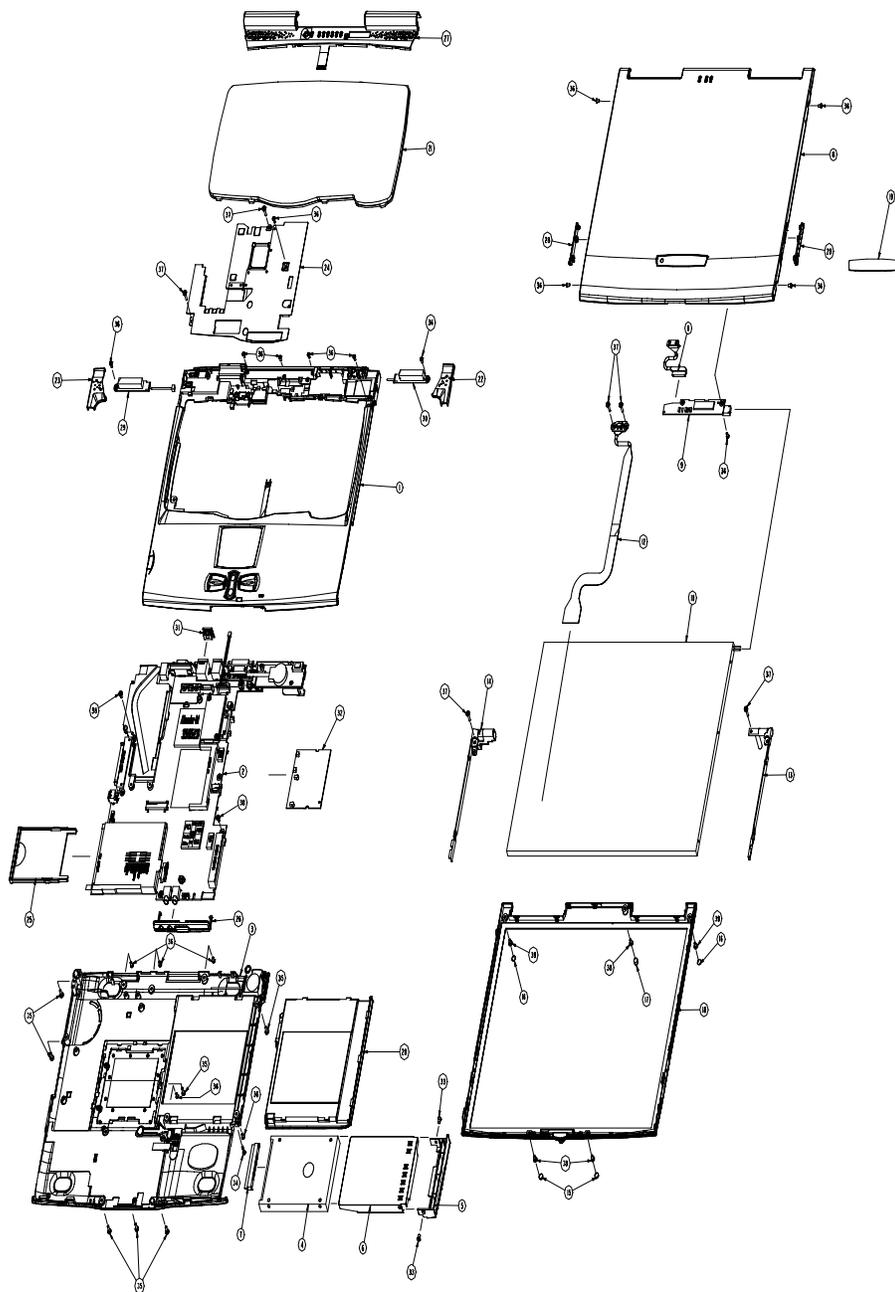
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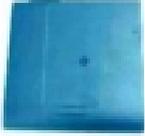
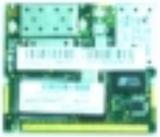
This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of TravelMate 360. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

Please note that WHEN ORDERING FRU PARTS, you should check the most up-to-date information available on your regional web or channel. For whatever reasons a part number change is made, it will not be noted on the printed Service Guide. For ACER AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code from those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

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

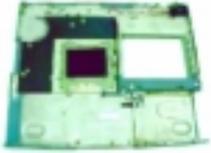
# Exploded Diagram

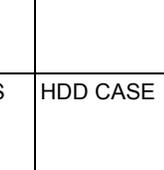
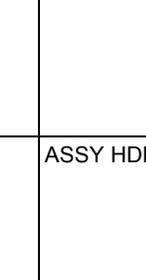
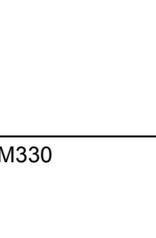


Picture	No.	Partname	Description
Adapter			
	NS	ADAPTER 60W DELTA ADP-60DHBN 3PIN	ADT 60W ADP-60DHBN 3P
Battery			
	NS	RTC BATTERY 3V	BTY LI 3V CR2032T6 210MAH 50MM
	20	BATTERY MODULE	ASSEMBLY BATTERY MODULE (MAPII)
Boards			
	9	INVERTER BOARD 13"	INVERTER 13" PWB-IV15090TA10
	32	WIRELESS LAN CARD	LAN WIRELESS AG/MPCI-LUC128IAPS
	NS	USB/PS2 BOARD	MAGPIE TM350 USB & PS2 BD MP

Picture	No.	Partname	Description
	NS	MODEM BOARD AMBIT/T60M283.00	MODEM MDC AMBIT/T60M283.00 3A
Cables			
	NS	POWER CORD 125V 2PIN	CORD 125V UL 3P K01081B1183WP
	12	LCD COAXIAL CABLE	C.A. LCD COAXIAL (LG-LP133X8)
	NS	MODEM CABLE	C.A. MDC MAGPIE
	NS	MICROPHONE CABLE W/ MICROPHONE	W.A. 2/MIC 70MM MAGPIE (ZEETEK)
	11	INVERTER CABLE	CABLE WIRE INVERTER 15P MAPI2

Picture	No.	Partname	Description
Case/Cover/Bracket Assembly			
	NS	HINGE PACK TM360	LG133X8 HINGE R
	8	LCD PANEL	LCD PANEL LG133X8 ASSY
	NS	LCD BEZEL	ASSEMBLY LCD BEZEL MAPI2
	NS	AUDIO COVER	AUDIO COVER ASSY (MAPI2)
	NS	DIMM COVER	DIMM COVER ASSY
	NS	I/O BRACKET	I/O BRACKET ASSY

Picture	No.	Partname	Description
	3	LOWER CASE	ASSEMBLY LOWER CASE MAPI2
	1	UPPER CASE	ASSEMBLY UPPER CASE MAPI2
	22	HINGE CAP RIGHT	HINGE CAP R (MAPI)
	23	HINGE CAP LEFT	HINGE CAP L (MAPI)
	27	MIDDLE COVER	ASSEMBLY MIDDLE COVER MAPI2
	NS	TOUCH PAD MODULE	ASSY T/P MODULE (MAPI)
	7	HDD CONNECTOR	CONN CTR ML 22P HH98227-A2 (HDD)

Picture	No.	Partname	Description
	5	HDD COVER	HDD COVER (MAPI)
	NS	HDD CASE	ASSY HDD PLT TM330
Combo Module			
	NS	DVD-ROM/FDD COMBO MODULE	COMBO BAY DVD+FDD DF 2205
Communication Module			
	29	ANTENNA LEFT	ANTENNA 802.11B (LEFT) MAPI2
	30	ANTENNA RIGHT	ANTENNA 802.11B (RIGHT) MAPI2
HDD/Hard Disk Drive			
	NS	HDD MODULE 10G IBM TM360	ASSEMBLY HDD MODULE (10GB) MAPI2

Picture	No.	Partname	Description
	4	HDD 10G IBM/IC25N010ATDA04	HDD 10G IBM/IC25N010ATDA04
Keyboard			
	21	KEYBOARD 84KEY US	KB DEF US 84
LCD			
	10	LCD 13.3" LG.PHIL/LP133X8-A2AC	LCD 13.3" LG.PHIL/LP133X8-A2AC
Mainboard			
	2	MAINBOARD/MAGPIE II	MAGPIE II TM360 1.0G
Mainboard Components			
	NS	CARDBUS CTRL 208PIN BGA	IC CARDBUS CTRL TARZAN BGA208P
	NS	DEV CHIP	IC DEV 82562ET A2 KINNERETH
	NS	EEPRM	IC EEPRM M93C46-W 1K S08 (ST)
	NS	CHARG CTRL	IC CHARG CTRL NAUTILUS JR.SSOP
	NS	I/O CTRL 421 BGA	IC I/O CTRL ICH3-M BGA 421P
	NS	GRAP CTRL 625PIN BGA	IC GRAP CTRL GMCH BGA 625P
	NS	UCTRL 80PIN	IC UCTRL 38859FFHP LQFP 80P
	NS	I/O CHIP	IC I/O INTF LPC 47N267 STQFP
	NS	VCH CHIP BGA	IC VCH FW82807AA SL55P A-2 BGA
	NS	1394 CTRL	IC 1394 CTRL TSB43AB22 PQFP128
	NS	IC CPU TUALAI 1.0GMHZ 512K INTEL BGA	IC CPU TUALAI.0GHZ 512K BGA2
	NS	TV O/P 64PIN	IC TV O/P DEV CH7011 LQFP 64P
	NS	CODEC 48PIN	IC CODEC ALC201 TQFP 48P

Picture	No.	Partname	Description
	NS	CLK GEN 56PIN	IC CLK GEN ICS950806 TSSOP 56P
	NS	UCTRL	IC UCTRL ATTINY 12L-4SI SO8
Memory			
	33	MEMORY SODIMM 128MB	SDIMM 128MB W17128A4NC8602A
Speaker			
	NS	SPEAKER	SPEAKER MAPI2
Miscellaneous			
	16	SCREW MYLAR	LCD SCREW MYLAR (MAPI2)
	17	SCREW RUBBER	LCD SCREW RUBBER (H=3) MAPI
	NS	NAME PLATE	LBL NAME PLATE 31.7*5.6 TM360
	NS	LOGO	LBL LOGO XP/2K-ALUM19.05*30.48
Screws			
	NS	SCREW	SCREW DIMM COVER STEEL NAGANO-1
	34	SCREW	HDD SCREW M2X7
	36	SCREW	SCREW M2X4 (HEAD 0.5) NYLOK
	NS	SCREW	SCREW M2.5X3 (BATT LATCH) MAGPI
	33	SCREW	SCREW M3*4L W/F NI
	NS	SCREW	WCH MSN+CBZ SCREW M2X2.5
	NS	SCREW	SCREW
	38	SCREW	SCREW M2.5*4L (NYLOCK) BLACK ZN
	35	SCREW	SCREW M2.5X6
	37	SCREW	SRW M2.5*8L B/ZN NYLOK 700
	39	SCREW	SCREW NYLOK M2.5*5



## Model Definition and Configuration

### Model Number Definitions

Model Number	LCD	CPU	Memory	HDD	CD	FDD	Battery	Remark
360E	13.3" TFT	PIII 1GHz	128MB	10GB	24X ext.	Ext.	Li-Ion	LAN or 802.11b option
360EV	13.3" TFT	PIII 1GHz	128MB	10/20GB	8X DVD ext.	Ext.	Li-Ion	LAN or 802.11b option
360EC	13.3" TFT	PIII 1GHz	128MB	10/20GB	DVD+RW ext.	Ext.	Li-Ion	LAN or 802.11b option
361E	13.3" TFT	PIII 1.06GHz	128MB	10GB	24X ext.)	Ext.	Li-Ion	LAN or 802.11b option
361EV	13.3" TFT	PIII 1.06GHz	128MB	10/20GB	8X DVD ext.	Ext.	Li-Ion	LAN or 802.11b option
361EC	13.3" TFT	PIII 1.06GHz	128MB	10/20GB	DVD+RW ext.	Ext.	Li-Ion	LAN or 802.11b option
362E	13.3" TFT	PIII 1.13GHz	128MB	20GB	24X ext.	Ext.	Li-Ion	LAN or 802.11b option
362EV	13.3" TFT	PIII 1.13GHz	128MB	20/30GB	8X DVD ext.	Ext.	Li-Ion	LAN or 802.11b option
362EC	13.3" TFT	PIII 1.13GHz	128MB	20/30GB	DVD+RW ext.	Ext.	Li-Ion	LAN or 802.11b option
363E	13.3" TFT	PIII 1.2GHz	128MB	20GB	24X ext.	Ext.	Li-Ion	LAN or 802.11b option
363EV	13.3" TFT	PIII 1.2GHz	128MB	20/30GB	8X DVD ext.	Ext.	Li-Ion	LAN or 802.11b option
363EC	13.3" TFT	PIII 1.2GHz	128MB	20/30GB	DVD+RW ext.	Ext.	Li-Ion	LAN or 802.11b option
364E	13.3" TFT	PIII 1.26GHz	128MB	20GB	24X ext.	Ext.	Li-Ion	LAN or 802.11b option
364EV	13.3" TFT	PIII 1.26GHz	128MB	20/30GB	8X DVD ext.	Ext.	Li-Ion	LAN or 802.11b option
364EC	13.3" TFT	PIII 1.26GHz	128MB	20/30GB	DVD+RW ext.	Ext.	Li-Ion	LAN or 802.11b option



## Test Compatible Components

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This computer's compatibility is tested and verified by Acer's internal testing department. All of its system functions are tested under Windows 98SE, Windows ME, Windows 2000 and Windows XP 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 TravelMate 360 Compatibility Test Report released by the Acer Mobile System Testing Department.

# Microsoft Windows 98SE Environment Test

Item	Specifications
<b>Network Adapters</b>	
Ethernet/10baseT/100baseT	3Com EtherLink III 3C589D 3Com 10/100 16bits Fast EtherLink 3C574-TX D-Link Eehernet JITI DE-660 TDK Ethernet PC card Lan Adapte LAC-CD021 Xircom Credit Card Ethernet Adapter Ilps PS-CE2-10 Xircom Credit Card Ethernet Adapter 10/100 CE3-10/100 IBM EtherJet PC Card EN533
Token Ring	Madge Smart 16/4 RingNode MK2 20-00 3COM 16/4 TokenRing PC card IBM Turbo 16/4 TokenRing PC card 85H3629
Multifunction Card	3Com Ethernet III LAN+33.6 Modem Global PC Card 3C563D-TP 3Com 10/100 Fast EtherLink Lan+56K 3CCFEN566 D-Link Winconnect 33.6 LAN/FAX Modem DME-336 Megahertz PC Card 33.6 Ethernet-Modem with XJACK XJEM3336C Xircom Credit Card Ethernet 10/100 + Modem 56 CEM56-100 Xircom RealPort Ethernet 10/100 + Modem 56K
OEM CardBus	3Com Fast EtherLink XL cardbus 3C575-TX 3Com Meghertz 10/100 LAN CardBus PC Card 3CCFE575BT Intel EtherExpress PRO/100 Mobile Adapter MBLA3200 TDK Lan 10/100BASE-TX CardBus card LAK-CB100X D-Link Fast Ethernet CardBus 10/100 Mbps DFE-660 IBM 10/100 EtherJet CardBus Adapter (32-bit) 25L4B55 Xircom RealPort CardBus 10/100 CBE-10/100BTX
Others	Lucent Wave LAN IEEE 802.11 PCMCIA Card PC24E-H-FC
<b>Modem Adapters</b>	
Modem (up to 56K)	ActionTec DataLink 56Kbps FAX/Modem 744L1075 IBM 56K Double Jack Modem P/N02K4197 TDK K56Kflex Data/FAX Modem DF5633 Xircom Credit Card Modem 56 CM-56 USR Megahertz 56K Modem, XJ1560 Omron ME5614E FAX/DATA MODEM ME5614E
ISDN	IBM ISDN Internet PC card USR Megahertz ISDN 128K CC128ST
<b>I/O Peripheral</b>	
I/O-Display	Acer 211c ViewSonic PF790 IBM 9514-B04 TFT monitor AcerView 76i Compaq Color Monitor V70 NEC 20" Color Monitor E1100
I/O - Keyboard	Acer 101 keyboard 6311 Chicony Keyboard USB KU-8933 Compaq Keyboard IBM Numeric Keypad III 07G0032/79F6408 IBM US English Keyboard (PS/AT Style) 92G7454/92G7454 Microsoft Natural Keyboard (USB) e06401comb

Item	Specifications
I/O - Mouse	Acer Aspire USB mouse (USB) IBM PS/2 Mini Mouse II 07G0033/07G3159 IBM PS/2 Style mouse (Black) 12J3615 Logitech PS Style Mouse M-S34 Logitech Serial Mouse M-M35 Logitech MouseMan Wheel USB Comb fro DOSV and iMac SM72UPi Logitech USB Wheel Mouse (USB) M-UB48 Logitech USB Wheel Mouse M-BB4B Microsoft IntelliMouse PS/2 Microsoft IntelliMouse Optical X05-48976 Microsoft IntelliMouse USB FDM-A50
I/O Projector	NEC MultiSync MT-1040 MT1040
I/O - Parallel (Printer)	CANON Color Bubble Jet BJC-600 CANON USB Printer BJC-430J EPSON Stylus Color 740 (USB) 740 HP LaserJet 6MP HP DeskJet 880C MY95V150B0 IBM Network Printer 17 431200X
I/O - Parallel (Scanner)	HP ScanJet 3300C Color Scanner (USB) MY97712194 AcerScan Prisa 620s
I/O - USB	Sanwa USB HUB (Self Power) USB HUB 4 PORT TI-CHIP W-USB104T EIZO I. Station USB HUB OFTD0003AA IOmega USB ZIP 250MB pc or mac USB driver W/O#23806 3009 ELECOM USB HUB 4-PORT UH-4S 3Com USB 4 port TI-CHIP HUB 3C19250
I/O - USB (Speaker)	JS USB Digital Speaker J3328 Panasonic USB Digital Speaker EAB-MPC57 AIWA Multimedia Digital Speaker System (USB) SC-UC78
I/O - USB (Joystick)	USB Rockfire Avant Garde Flightstick 81000369 Microsoft Sidewinder Precision Pro (USB) 326-00069
I/O - USB Modem	Best Data USB 56K V.90 Modem Speakerphone USB10032323 BLASTER USB BLASTER Modem 56K V.90 DE5670
I/O - USB Ethernet	BELKIN USB Ethernet adapter F5U111 LINKSYS USB Network Adapter USB-10T
I/O - USB Camera	Acer USB Video Capture Kit DVC-V6 Intel Digital Camera

Item	Specifications
I/O Adapter	
PCMCIA - SCSI	Adaptec SlimSCSI APA-1460AB Adaptec 1480A slim SCSI CB
PCMCIA - CD-ROM	IBM Portable 20X Speed CD-ROM (1969011)/5559-201 Panasonic 20X Portable CD-ROM Player
PCMCIA - ATA	SunDisk ATA 15MB VIPER 170E IBM Travel Kit 340MB microdrive XHA27000 IBM Travel Kit 170MB microdrive XHA26329 Sony Memory Stick (64MB) + PC Card adapter EPSON Flash Packer 6MB FP6
PCMCIA - 1394	Melco IEEE 1394 interface PCMCIA Card NA/IFC-ILCB/DV Sony DCR TRV-10/ACCKIT M90 1394 Camera w/ Video Capture PC Card DCR-TRV10 Lacie IEEE 1394 Fire Wire Hard Drive BUFFALO IEEE1394 interface IFC-ILCB/DV Cardbus Card

# Microsoft Windows ME Environment Test

Item	Specifications
Network Adapters	
Ethernet/10baseT/100baseT	3Com EtherLink III 3C589D 3Com 10/100 16bits Fast EtherLink 3C574-TX D-Link Eehernet JITI DE-660 TDK Ethernet PC card Lan Adapte LAC-CD021 Xircom Credit Card Ethernet Adapter Ilps PS-CE2-10 Xircom Credit Card Ethernet Adapter 10/100 CE3-10/100 IBM EtherJet PC Card EN533
Token Ring	Madge Smart 16/4 RingNode MK2 20-00 3COM 16/4 TokenRing PC card IBM Turbo 16/4 TokenRing PC card 85H3629
Multifunction Card	3Com Ethernet III LAN+33.6 Modem Global PC Card 3C563D-TP 3Com 10/100 Fast EtherLink Lan+56K 3CCFEN566 D-Link Winconnect 33.6 LAN/FAX Modem DME-336 Megahertz PC Card 33.6 Ethernet-Modem with XJACK XJEM3336C Xircom Credit Card Ethernet 10/100 + Modem 56 CEM56-100 Xircom RealPort Ethernet 10/100 + Modem 56K
OEM CardBus	3Com Fast EtherLink XL cardbus 3C575-TX 3Com Meghertz 10/100 LAN CardBus PC Card 3CCFE575BT Intel EtherExpress PRO/100 Mobile Adapter MBLA3200 TDK Lan 10/100BASE-TX CardBus card LAK-CB100X D-Link Fast Ethernet CardBus 10/100 Mbps DFE-660 IBM 10/100 EtherJet CardBus Adapter (32-bit) 25L4B55 Xircom RealPort CardBus 10/100 CBE-10/100BTX
Others	Lucent Wave LAN IEEE 802.11 PCMCIA Card PC24E-H-FC
Modem Adapters	
Modem (up to 56K)	ActionTec DataLink 56Kbps FAX/Modem 744L1075 IBM 56K Double Jack Modem P/N02K4197 TDK K56Kflex Data/FAX Modem DF5633 Xircom Credit Card Modem 56 CM-56 USR Megahertz 56K Modem, XJ1560 Omron ME5614E FAX/DATA MODEM ME5614E
ISDN	IBM ISDN Internet PC card USR Megahertz ISDN 128K CC128ST
I/O Peripheral	
I/O-Display	Acer 211c ViewSonic PF790 IBM 9514-B04 TFT monitor AcerView 76i Compaq Color Monitor V70 NEC 20" Color Monitor E1100
I/O - Keyboard	Acer 101 keyboard 6311 Chicony Keyboard USB KU-8933 Compaq Keyboard IBM Numeric Keypad III 07G0032/79F6408 IBM US English Keyboard (PS/AT Style) 92G7454/92G7454 Microsoft Natural Keyboard (USB) e06401comb

Item	Specifications
I/O - Mouse	Acer Aspire USB mouse (USB) IBM PS/2 Mini Mouse II 07G0033/07G3159 IBM PS/2 Style mouse (Black) 12J3615 Logitech PS Style Mouse M-S34 Logitech Serial Mouse M-M35 Logitech MouseMan Wheel USB Comb fro DOSV and iMac SM72UPi Logitech USB Wheel Mouse (USB) M-UB48 Logitech USB Wheel Mouse M-BB4B Microsoft IntelliMouse PS/2 Microsoft IntelliMouse Optical X05-48976 Microsoft IntelliMouse USB FDM-A50
I/O Projector	NEC MultiSync MT-1040 MT1040
I/O - Parallel (Printer)	CANON Color Bubble Jet BJC-600 CANON USB Printer BJC-430J EPSON Stylus Color 740 (USB) 740 HP LaserJet 6MP HP DeskJet 880C MY95V150B0 IBM Network Printer 17 431200X
I/O - Parallel (Scanner)	HP ScanJet 3300C Color Scanner (USB) MY97712194 AcerScan Prisa 620s
I/O - USB	Sanwa USB HUB (Self Power) USB HUB 4 PORT TI-CHIP W-USB104T EIZO I. Station USB HUB OFTD0003AA IOmega USB ZIP250 ELECOM USB HUB 4-PORT UH-4S 3Com USB 4 port TI-CHIP HUB 3C19250
I/O - USB (Speaker)	JS USB Digital Speaker J3328 Panasonic USB Digital Speaker EAB-MPC57 AIWA Multimedia Digital Speaker System (USB) SC-UC78
I/O - USB (Joystick)	USB Rockfire Avant Garde Flightstick 81000369 Microsoft Sidewinder Precision Pro (USB) 326-00069
I/O - USB Modem	Best Data USB 56K V.90 Modem Speakerphone USB10032323 BLASTER USB BLASTER Modem 56K V.90 DE5670
I/O - USB Ethernet	BELKIN USB Ethernet adapter F5U111 LINKSYS USB Network Adapter USB-10T
I/O - USB Camera	Acer USB Video Capture Kit DVC-V6 Intel Digital Camera

Item	Specifications
I/O Adapter	
PCMCIA - SCSI	Adaptec SlimSCSI APA-1460AB Adaptec 1480A slim SCSI CB
PCMCIA - CD-ROM	IBM Portable 20X Speed CD-ROM (1969011)/5559-201 Panasonic 20X Portable CD-ROM Player
PCMCIA - ATA	SunDisk ATA 15MB VIPER 170E IBM Travel Kit 340MB microdrive XHA27000 IBM Travel Kit 170MB microdrive XHA26329 Sony Memory Stick (64MB) + PC Card adapter EPSON Flash Packer 6MB FP6
PCMCIA - 1394	Melco IEEE 1394 interface PCMCIA Card NA/IFC-ILCB/DV Sony DCR TRV-10/ACCKIT M90 1394 Camera w/ Video Capture PC Card DCR-TRV10 Lacie IEEE 1394 Fire Wire Hard Drive BUFFALO IEEE1394 interface IFC-ILCB/DV Cardbus Card

# Microsoft Windows 2000 Environment Test

Item	Specifications
Network Adapters	
Ethernet/10baseT/100baseT	3Com EtherLink III 3C589D 3Com 10/100 16bits Fast EtherLink 3C574-TX D-Link Eehernet JITI DE-660 TDK Ethernet PC card Lan Adapte LAC-CD021 Xircom Credit Card Ethernet Adapter Ilps PS-CE2-10 Xircom Credit Card Ethernet Adapter 10/100 CE3-10/100 IBM EtherJet PC Card EN533
Token Ring	Madge Smart 16/4 RingNode MK2 20-00 3COM 16/4 TokenRing PC card IBM Turbo 16/4 TokenRing PC card 85H3629
Multifunction Card	3Com Ethernet III LAN+33.6 Modem Global PC Card 3C563D-TP 3Com 10/100 Fast EtherLink Lan+56K 3CCFEN566 D-Link Winconnect 33.6 LAN/FAX Modem DME-336 Megahertz PC Card 33.6 Ethernet-Modem with XJACK XJEM3336C Xircom Credit Card Ethernet 10/100 + Modem 56 CEM56-100 Xircom RealPort Ethernet 10/100 + Modem 56K
OEM CardBus	3Com Fast EtherLink XL cardbus 3C575-TX 3Com Meghertz 10/100 LAN CardBus PC Card 3CCFE575BT Intel EtherExpress PRO/100 Mobile Adapter MBLA3200 TDK Lan 10/100BASE-TX CardBus card LAK-CB100X D-Link Fast Ethernet CardBus 10/100 Mbps DFE-660 IBM 10/100 EtherJet CardBus Adapter (32-bit) 25L4B55 Xircom RealPort CardBus 10/100 CBE-10/100BTX
Others	Lucent Wave LAN IEEE 802.11 PCMCIA Card PC24E-H-FC
Modem Adapters	
Modem (up to 56K)	ActionTec DataLink 56Kbps FAX/Modem 744L1075 IBM 56K Double Jack Modem P/N02K4197 TDK K56Kflex Data/FAX Modem DF5633 Xircom Credit Card Modem 56 CM-56 USR Megahertz 56K Modem, XJ1560 Omron ME5614E FAX/DATA MODEM ME5614E
ISDN	IBM ISDN Internet PC card USR Megahertz ISDN 128K CC128ST
I/O Peripheral	
I/O-Display	Acer 211c ViewSonic PF790 IBM 9514-B04 TFT monitor AcerView 76i Compaq Color Monitor V70 NEC 20" Color Monitor E1100
I/O - Keyboard	Acer 101 keyboard 6311 Chicony Keyboard USB KU-8933 Compaq Keyboard IBM Numeric Keypad III 07G0032/79F6408 IBM US English Keyboard (PS/AT Style) 92G7454/92G7454 Microsoft Natural Keyboard (USB) e06401comb

Item	Specifications
I/O - Mouse	Acer Aspire USB mouse (USB) IBM PS/2 Mini Mouse II 07G0033/07G3159 IBM PS/2 Style mouse (Black) 12J3615 Logitech PS Style Mouse M-S34 Logitech Serial Mouse M-M35 Logitech MouseMan Wheel USB Comb fro DOSV and iMac SM72UPi Logitech USB Wheel Mouse (USB) M-UB48 Logitech USB Wheel Mouse M-BB4B Microsoft IntelliMouse PS/2 Microsoft IntelliMouse Optical X05-48976 Microsoft IntelliMouse USB FDM-A50
I/O Projector	NEC MultiSync MT-1040 MT1040
I/O - Parallel (Printer)	CANON Color Bubble Jet BJC-600 CANON USB Printer BJC-430J EPSON Stylus Color 740 (USB) 740 HP LaserJet 6MP HP DeskJet 880C MY95V150B0 IBM Network Printer 17 431200X
I/O - Parallel (Scanner)	HP ScanJet 3300C Color Scanner (USB) MY97712194 AcerScan Prisa 620s
I/O - USB	Sanwa USB HUB (Self Power) USB HUB 4 PORT TI-CHIP W-USB104T EIZO I. Station USB HUB OFTD0003AA IOmega USB ZIP250 ELECOM USB HUB 4-PORT UH-4S 3Com USB 4 port TI-CHIP HUB 3C19250
I/O - USB (Speaker)	JS USB Digital Speaker J3328 Panasonic USB Digital Speaker EAB-MPC57 AIWA Multimedia Digital Speaker System (USB) SC-UC78
I/O - USB (Joystick)	USB Rockfire Avant Garde Flightstick 81000369 Microsoft Sidewinder Precision Pro (USB) 326-00069
I/O - USB Modem	Best Data USB 56K V.90 Modem Speakerphone USB10032323 BLASTER USB BLASTER Modem 56K V.90 DE5670
I/O - USB Ethernet	BELKIN USB Ethernet adapter F5U111 LINKSYS USB Network Adapter USB-10T
I/O - USB Camera	Acer USB Video Capture Kit DVC-V6 Intel Digital Camera

Item	Specifications
I/O Adapter	
PCMCIA - SCSI	Adaptec SlimSCSI APA-1460AB Adaptec 1480A slim SCSI CB
PCMCIA - CD-ROM	IBM Portable 20X Speed CD-ROM (1969011)/5559-201 Panasonic 20X Portable CD-ROM Player
PCMCIA - ATA	SunDisk ATA 15MB VIPER 170E IBM Travel Kit 340MB microdrive XHA27000 IBM Travel Kit 170MB microdrive XHA26329 Sony Memory Stick (64MB) + PC Card adapter EPSON Flash Packer 6MB FP6
PCMCIA - 1394	Melco IEEE 1394 interface PCMCIA Card NA/IFC-ILCB/DV Sony DCR TRV-10/ACCKIT M90 1394 Camera w/ Video Capture PC Card DCR-TRV10 Lacie IEEE 1394 Fire Wire Hard Drive BUFFALO IEEE1394 interface IFC-ILCB/DV Cardbus Card

# Microsoft Windows XP Environment Test

Item	Specifications
Network Adapters	
Ethernet/10baseT/100baseT	3Com EtherLink III 3C589D 3Com 10/100 16bits Fast EtherLink 3C574-TX D-Link Eehernet JITI DE-660 TDK Ethernet PC card Lan Adapte LAC-CD021 Xircom Credit Card Ethernet Adapter Iips PS-CE2-10 Xircom Credit Card Ethernet Adapter 10/100 CE3-10/100 IBM EtherJet PC Card EN533
Token Ring	Madge Smart 16/4 RingNode MK2 20-00 3COM 16/4 TokenRing PC card IBM Turbo 16/4 TokenRing PC card 85H3629
Multi-function Card	3Com Ethernet III LAN+33.6 Modem Global PC Card 3C563D-TP 3Com 10/100 Fast EtherLink Lan+56K 3CCFEN566 D-Link Winconnect 33.6 LAN/FAX Modem DME-336 Megahertz PC Card 33.6 Ethernet-Modem with XJACK XJEM3336C Xircom Credit Card Ethernet 10/100 + Modem 56 CEM56-100 Xircom RealPort Ethernet 10/100 + Modem 56K
OEM CardBus	3Com Fast EtherLink XL cardbus 3C575-TX 3Com Meghertz 10/100 LAN CardBus PC Card 3CCFE575BT Intel EtherExpress PRO/100 Mobile Adapter MBLA3200 TDK Lan 10/100BASE-TX CardBus card LAK-CB100X D-Link Fast Ethernet CardBus 10/100 Mbps DFE-660 IBM 10/100 EtherJet CardBus Adapter (32-bit) 25L4B55 Xircom RealPort CardBus 10/100 CBE-10/100BTX
Others	Lucent Wave LAN IEEE 802.11 PCMCIA Card PC24E-H-FC
Modem Adapters	
Modem (up to 56K)	ActionTec DataLink 56Kbps FAX/Modem 744L1075 IBM 56K Double Jack Modem P/N02K4197 TDK K56Kflex Data/FAX Modem DF5633 Xircom Credit Card Modem 56 CM-56 USR Megahertz 56K Modem, XJ1560 Omron ME5614E FAX/DATA MODEM ME5614E
ISDN	IBM ISDN Internet PC card USR Megahertz ISDN 128K CC128ST
I/O Peripheral	
I/O-Display	Acer 211c ViewSonic PF790 IBM 9514-B04 TFT monitor AcerView 76i Compaq Color Monitor V70 NEC 20" Color Monitor E1100
I/O - Keyboard	Acer 101 keyboard 6311 Chicony Keyboard USB KU-8933 Compaq Keyboard IBM Numeric Keypad III 07G0032/79F6408 IBM US English Keyboard (PS/AT Style) 92G7454/92G7454 Microsoft Natural Keyboard (USB) e06401comb

Item	Specifications
I/O - Mouse	Acer Aspire USB mouse (USB) IBM PS/2 Mini Mouse II 07G0033/07G3159 IBM PS/2 Style mouse (Black) 12J3615 Logitech PS Style Mouse M-S34 Logitech Serial Mouse M-M35 Logitech MouseMan Wheel USB Comb fro DOSV and iMac SM72UPi Logitech USB Wheel Mouse (USB) M-UB48 Logitech USB Wheel Mouse M-BB4B Microsoft IntelliMouse PS/2 Microsoft IntelliMouse Optical X05-48976 Microsoft IntelliMouse USB FDM-A50
I/O - Projector	NEC MultiSync TM-1040 MT1040
I/O - Parallel (Printer)	CANON Color Bubble Jet BJC-600 CANON USB Printer BJC-430J EPSON Stylus Color 740 (USB) 740 HP LaserJet 6MP HP DeskJet 880C MY95V150B0 IBM Network Printer 17 431200X
I/O - Parallel (Scanner)	HP ScanJet 3300C Color Scanner (USB) MY97712194 AcerScan Prisa 620s
I/O - USB	Sanwa USB HUB (Self Power) USB HUB 4 PORT TI-CHIP W-USB104T EIZO I. Station USB HUB OFTD0003AA IOmega USB ZIP250 ELECOM USB HUB 4-PORT UH-4S 3Com USB 4 port TI-CHIP HUB 3C19250
I/O - USB (Speaker)	JS USB Digital Speaker J3328 Panasonic USB Digital Speaker EAB-MPC57 AIWA Multimedia Digital Speaker System (USB) SC-UC78
I/O - USB (Joystick)	USB Rockfire Avant Garde Flightstick 81000369 Microsoft Sidewinder Precision Pro (USB) 326-00069
I/O - USB Modem	Best Data USB 56K V.90 Modem Speakerphone USB10032323 BLASTER USB BLASTER Modem 56K V.90 DE5670
I/O - USB Ethernet	BELKIN USB Ethernet adapter F5U111 LINKSYS USB Network Adapter USB-10T
I/O - USB Camera	Acer USB Video Capture Kit DVC-V6 Intel Digital Camera

Item	Specifications
I/O Adapter	
PCMCIA - SCSI	Adaptec SlimSCSI APA-1460AB Adaptec 1480A slim SCSI CB
PCMCIA - CD-ROM	IBM Portable 20X Speed CD-ROM (1969011)/5559-201 Panasonic 20X Portable CD-ROM Player
PCMCIA - ATA	SunDisk ATA 15MB VIPER 170E IBM Travel Kit 340MB microdrive XHA27000 IBM Travel Kit 170MB microdrive XHA26329 Sony Memory Stick (64MB) + PC Card adapter EPSON Flash Packer 6MB FP6
PCMCIA - 1394	Melco IEEE 1394 interface PCMCIA Card NA/IFC-ILCB/DV Sony DCR TRV-10/ACCKIT M90 1394 Camera w/ Video Capture PC Card DCR-TRV10 Lacie IEEE 1394 Fire Wire Hard Drive BUFFALO IEEE1394 interface IFC-ILCB/DV Cardbus Card



## Online Support Information

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

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

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

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

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

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

Also contained on this website are:

- Detailed information on Acer's International Traveler's Warranty (ITW)
- Returned material authorization procedures
- An overview of all the support services we offer, accompanied by a list of telephone, fax and email contacts for all your technical queries.

We are always looking for ways to optimize and improve our services, so if you have any suggestions or comments, please do not hesitate to communicate these to us.



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