

Prestigio Nobile 1510

User's Manual

ENG

(May 2005)

TRADEMARKS

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NOTE

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

PRESTIGIO NOBILE 1510

Getting Started

Congratulations on purchasing this computer.

Your computer incorporates desktop computer capabilities into a compact notebook-sized package. It can greatly enhance your productivity either in the office or at home. And, of course, wherever you need it, the computer is ready and easy "to go."

Getting the Computer Running

This section guides you through the procedures for getting the computer ready for operation.

Unpacking

After unpacking the shipping carton, you should find these standard items:

* Notebook computer

* Accessories:

- AC adapter

- AC power cord

- Driver CD

- Ferrite core(s) - option

Inspect all the items. If any item is damaged or missing, notify your dealer immediately.

Keep the shipping carton and packing materials in case you need to ship or store the computer in the future.

Connecting to AC Power

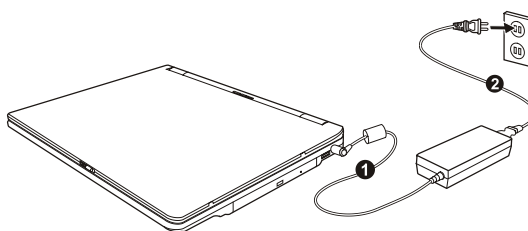
The computer operates either on the external AC power or internal battery power.

CAUTION:

* Use only the AC adapter included with your computer. Using other AC adapters may damage the computer.

* Before using your computer with the battery pack installed for the first time, it is highly recommended that you initialize the battery pack.

1. Make sure that the computer is turned off.
2. Plug the DC cord of the AC adapter to the power connector on the rear of the computer (1).
3. Plug the female end of the AC power cord to the AC adapter and the male end to an electrical outlet (2).



4. When the AC adapter is connected, power is being supplied from the electrical outlet to the AC adapter and onto your computer.

CAUTION:

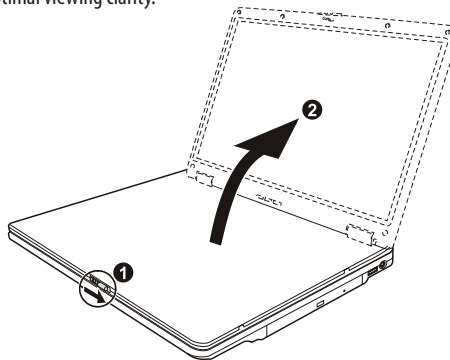
- * When you disconnect the AC adapter, disconnect from the electrical outlet first and then from the computer. A reverse procedure may damage the AC adapter or the computer.
- * When unplugging the connector, always hold the plug head. Never pull on the cord.

NOTE: When the AC adapter is connected, it also charges the battery pack.

Opening the Cover

CAUTION: Be gentle when opening and closing the cover. Opening it vigorously or slamming it shut could damage the computer.

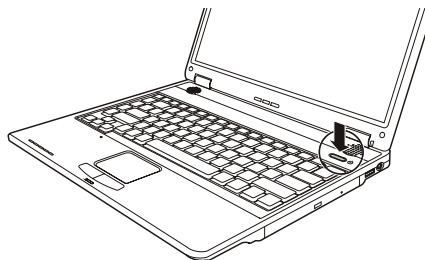
Open the top cover by sliding the cover latch toward the right (1) and lifting up the cover (2). You can tilt the cover forward or backward for optimal viewing clarity.



Turning On and Off the Computer

Turning On

1. Make sure that the computer is connected to AC power.
2. Press the power button.
3. Each time the computer is turned on, it performs a Power-On Self Test (POST), and the operating system such as Windows should start.



Turning Off

To turn off the computer power, use the "Shut Down" command of your operating system.

NOTE: There are other ways you can stop the computer so that you will be back to where you left off when you next turn on the computer.

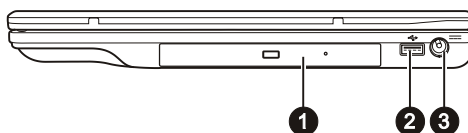
CAUTION: If you have to turn the computer on again immediately after turning it off, wait for at least five seconds. Turning the computer off and on rapidly can damage it.

Taking a Look at the Computer

This section identifies the external components of the computer and briefly describes the function of each component.

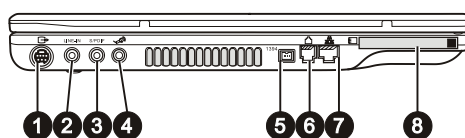
NOTE: Depending on the model you purchased, the appearance of your computer may not be exactly the same as those shown in this manual.

Right-Side Components



Ref	Component	Description
1	Combo/DVD +RW/ DVD -RW/ DVD Dual/ Super Multi Drive	Accepts a compact disc for installing or loading software, accessing data, and playing music/video.
2	USB Port	Connects a USB device, such as a USB disk, floppy disk drive, printer, digital camera, joystick, and more.
3	Power Connector	Connects the AC adapter.

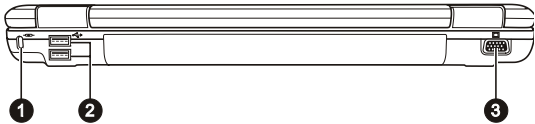
Left-Side Components



Ref	Component	Description
1	S-video Connector	Connects an external video device, such as a TV, supporting S-video input.
2	Audio Input Connector	Connects a Hi-Fi set, radio set, synthesizer, walkman, etc.
3	S/PDIF Connector	Connects a S/PDIF device such as a digital speaker set for digital audio output.
4	Microphone Connector	Connects an external microphone.
5	IEEE 1394a Port	Connects a 1394 device such as a scanner, printer, DVCAM, VCR, and more.
6	RJ-11 Connector	Connects the telephone line.

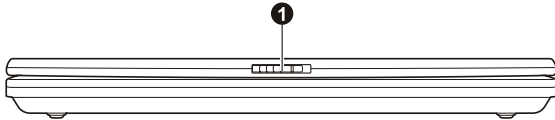
Ref	Component	Description
7	RJ-45 Connector	Connects the LAN cable.
8	PC Card Slot	Accepts a PC card for additional functions.

Rear Components



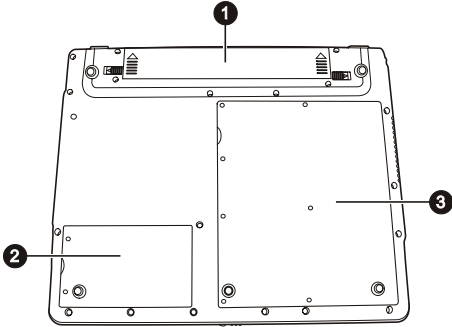
Ref	Component	Description
1	Kensington Lock	Locks the computer to a stationery object for security.
2	USB Ports	Each of the two ports connects USB devices, such as a USB disk, floppy disk drive, printer, digital camera, joystick, and more.
3	VGA Port	Connects an external CRT monitor.

Front Components



Ref	Component	Description
1	Top Cover Latch	Locks the top cover.

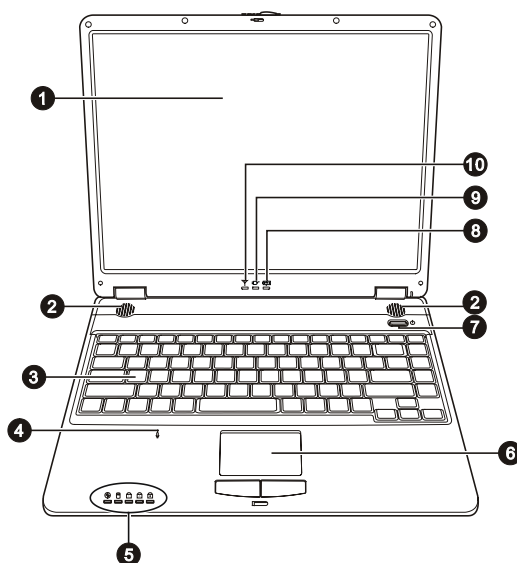
Bottom Components



Ref	Component	Description
1	Battery Pack	Supplies power to your computer when external power is not connected.
2	Hard Disk Drive Compartment	Inside is the hard disk drive of your computer.

Ref	Component	Description
3	Components Cover	Inside are: Memory slot for expanding the memory size of your computer. Mini PCI slot for using an optional Mini PCI card. Depending on your model, an internal Mini PCI wireless LAN card may have been pre-installed. CPU of your computer. Modem card of your computer.

Top-open Components



Ref	Component	Description
1	LCD Screen	Displays the output of the computer.
2	Stereo Speaker Set	Sends out sound and voice from the computer.
3	Keyboard	Serves as the data input device of the computer.
4	Microphone	Receives sound and voice for the computer.
5	Device Indicators	Show the current status of the computer's devices. DVD drive in-use indicator Hard disk drive in-use indicator Num Lock indicator Caps Lock indicator Scroll Lock indicator
6	Touchpad	Serves as the pointing device of the computer. It consists of a rectangular pad as well as left and right buttons.
7	Power Button	Turns the computer power ON and OFF.
8	Battery Charge Indicator	Glows green when the battery is fully charged and connected to AC power. Glows amber when the battery is being charged. Blinks red when the battery is almost completely discharged.

Ref	Component	Description
9	Power Indicator	Glows green when the computer is turned ON. Blinks green when the computer is in Standby mode.
10	Wireless LAN Indicator	Glows green to indicate that the computer is ready for WLAN connection.

Operating Your Computer

This chapter provides information about the use of the computer.

If you are new to computers, reading this chapter will help you learn the operating basics. If you are already a computer user but are new to notebook computers, you may choose to read only the parts containing information unique to your computer.

Described in this chapter are the operating basics of these components:

- * Keyboard
- * Touchpad
- * Floppy disk drive
- * Hard disk drive
- * DVD drive

And these features:

- * Starting and stopping the computer
- * Video features
- * Audio features
- * Communication features

Starting and Stopping the Computer

There are a number of ways to start and stop the computer.

Starting the Computer

You always start the computer using the power button.

A computer starts up with an operating system (OS) existing on the storage device such as the hard disk and floppy disk.

The computer will automatically load the OS after you turn it on. This process is called booting.

NOTE: An operating system is the platform for all your software application programs to run on. The most widely used operating system today is Microsoft Windows.

Stopping the Computer

When you finish a working session, you can stop the computer by turning off the power or leaving the computer in Standby or Hibernation mode:

To stop in this mode...	Do this...	To start up or resume again
Off	Follow the shutdown procedure of your operating system. This can prevent loss of unsaved data or damage to your software programs. If the system is locked up because of hardware or software problems, press the power button to turn off the computer.	Press the power button.

To stop in this mode...	Do this...	To start up or resume again
Standby	Depending on your settings in Windows, you can put the computer in Standby mode by: * Closing the display cover * Pressing Fn+F12 * Pressing the power button	Press any key.
Hibernation	Depending on your settings in Windows, you can put the computer in Hibernation mode by: * Closing the display cover * Pressing Fn+F12 * Pressing the power button	Press the power button.

If you choose to stop in Standby or Hibernation mode, you can return to where you left off the next time you start up the computer.

Using the Keyboard




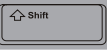




Your keyboard has all the standard functions of a full-sized computer keyboard plus a Fn key added for specific functions.



The standard functions of the keyboard can be further divided into four major categories:

- * Typewriter keys
- * Cursor-control keys
- * Numeric keys
- * Function keys

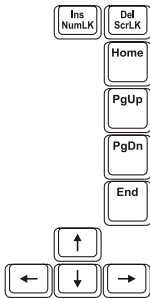
Typewriter Keys

Typewriter keys are similar to the keys on a typewriter. Several keys are added, such as the Ctrl, Alt, Esc and lock keys, for special purposes. When the lock keys are pressed, their corresponding indicators light up.

Key	Description
	The Control key is normally used in combination with other keys for program-specific functions.
	The Alternate key is normally used in combination with other keys for program-specific functions.
	The Escape key is usually used for stopping a process. Examples are exiting a program and canceling a command. The function depends on the program you are using.
	The Shift key is used with alphabet letter keys to produce uppercase letters when typing. It is also used in combination with other keys for program-specific functions.
	The Backspace key moves the cursor left one space and deletes the character in that space.
	Pressing Fn and this key toggles the Num Lock on and off. When on, the Num Lock activates the numeric keys.
	Pressing Fn and this key toggles Scroll Lock on and off. When on, the screen moves one line up or down when you press V or ^ arrow key. Scroll Lock does not work for all programs.
	Pressing this key toggles the Caps Lock on and off. When on, the Caps Lock keeps the letter keys in uppercase.











Key	Description
	The Pause key temporarily stops screen scrolling. Scroll Lock does not work for all programs.
	The Print Screen key prints the displayed screen. Print screen does not work for all programs.

Cursor-Control Keys



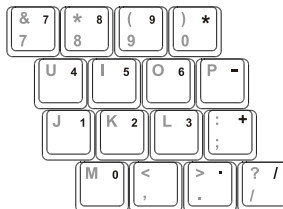
NOTE: The word “cursor” refers to the indicator on the screen that lets you know exactly where on your screen anything you type will appear. It can take the form of a vertical or horizontal line, a block, or one of many other shapes.

Cursor-control keys are generally used for editing purposes. They are:

Key	Description
	Moves the cursor left one space.
	Moves the cursor right one space.
	Moves the cursor up one line.
	Moves the cursor down one line.
	Moves the page up.
	Moves the page down.
	Moves the cursor to the beginning of the line or document.
	Moves the cursor to the end of the line or document.
	Switches typing between insert and overwrite modes. Insert mode means any character typed will be inserted to the current cursor position; overwrite mode means any character typed will overwrite the text in the current cursor position.
	Deletes the character to the right of the cursor and moves the following text left one space.

Numeric Keypad

A 15-key numeric keypad is embedded in the typewriter keys as shown next:



Numeric keys facilitate entering of numbers and calculations. When Num Lock is on, the numeric keys are activated, which means you can use these keys to enter numerals.

NOTES:

* When the numeric keypad is activated and you need to type the English letter in the keypad area, you can either turn Num Lock off or you can press Fn and then the letter without turning Num Lock off.

* Some software may not be able to use the numeric keypad on the computer. If so, use the numeric keypad on an external keyboard instead.

Euro Symbol

Windows supports the Euro dollar sign , you can press the sign on the US and UK keyboards.

* To press the Euro sign on a United States-International keyboard, hold down either of the Alt keys and press 5 (which has an Euro sign on it).

* To press the Euro sign on a United States 101 keyboard, hold down either of the Alt keys and type 0128 on the numeric keypad of your keyboard.

* To press the Euro sign on an UK keyboard, hold down the Alt Gr key and press 4 (which has an Euro sign on it).

Windows Keys

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

Windows Logo key and Application key.

The Windows Logo key opens the Start menu and performs software-specific functions when used in combination with other keys.

The Application key usually has the same effect as a right mouse click. (See your Windows manual for more information.)

Function Keys

On the top row of the keys are the function keys: F1 to F12. Function keys are multi-purpose keys that perform functions defined by individual programs.

Hot key functions are assigned to F1, F3, F4, F5, F6, F7, F10, F11, and F12 by your computer.



















Fn Key

The Fn key, at the lower left corner of the keyboard, is used with another key to perform the alternative function of a key. The letter "Fn" and the alternative functions are identified by the color of blue on the keytop. To perform a desired function, first press and hold Fn, then press the other key.

Hot Keys

Hot keys refer to a combination of keys that can be pressed any time to activate special functions of the computer. Most hot keys operate in a cyclic way. Each time a hot key combination is pressed, it shifts the corresponding function to the other or next choice.

You can easily identify the hot keys with the icons imprinted on the keytop. The hot keys are described next.

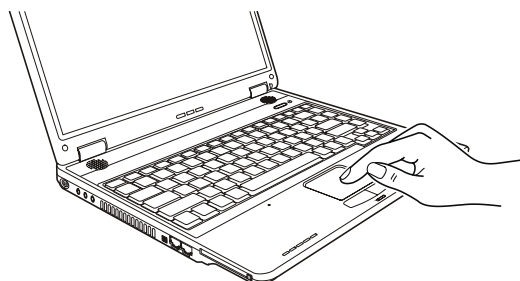
Key	Description
 	Switches the wireless LAN radio on and off. NOTES: * This function works only if an optional Mini PCI wireless LAN card is installed. * The FAA (Federal Aviation Agency) has deemed it unsafe to operate wireless devices in aircraft as this may interfere with flight safety. Remember to turn off wireless LAN when using your computer in the airplane.
 	Decreases the sound volume.
 	Increases the sound volume.
 	Switches the display output to one of the following when external device(s) are connected. LCD > CRT > LCD & CRT > LCD NOTES: * When in full screen DOS mode, or when playing DVD or MPEG file, display switching is not allowed. * This function only applies to Plug & Play display devices.
 	Decreases the LCD brightness (eight levels).
 	Increases the LCD brightness (eight levels).
 	Switches system sound output off (mute) and on.
 	Switches the display on and off.
 	Serves as the sleep button that you can define with Windows' Power Options.

Using the Touchpad

CAUTION: Do not use a sharp object such as a pen on the touchpad. Doing so may damage the touchpad surface.

NOTE: For optimal performance of the touchpad, keep your fingers and the pads clean and dry. When tapping on the pad, tap lightly. Do not use excessive force.

The touchpad is a pointing device that allows you to communicate with the computer by controlling the location of the pointer on the screen and making selection with the buttons.



The touchpad consists of a rectangular pad, as well as a left and right button. To use the touchpad, place your forefinger or thumb on the pad. The rectangular pad acts like a miniature duplicate of your display. As you slide your fingertip across the pad, the pointer (also called cursor) on the screen moves accordingly. When your finger reaches the edge of the pad, simply relocate yourself by lifting the finger and placing it on the other side of the pad.

Here are some common terms that you should know when using the touchpad:

Term	Action
Point	Move your finger on the pad until the cursor points to the selection on the screen.
Click	Press and release the left button. —or— Tap gently anywhere on the pad.
Double-click	Press and release the left button twice in quick succession. —or— Tap twice on the pad rapidly.
Drag and drop	Press and hold the left button, then move your finger until you reach your destination (drag). Finally, release the button (drop) when you finish dragging your selection to the destination. The object will drop into the new location. —or— Gently tap twice on the pad and on the second tap, keep your finger in contact with the pad. Then, move your finger across the pad to drag the selected object to your destination. When you lift your finger from the pad, the selected object will drop into place.
Scroll	To scroll is to move up and down or left and right in the working area on the screen. This function works only after you install the touchpad driver supplied with the computer and it may not work for all applications.

TABLE NOTE: If you swap the left and right buttons, “tapping” on the touchpad as an alternative method of pressing the left button will no longer be valid.

Configuring the Touchpad

You may want to configure the touchpad to suit your needs. For example, if you are a left-handed user, you can swap the two buttons so that you can use the right button as the left button and vice versa. You can also change the size of the on-screen pointer, the speed of the pointer, and so on.

To configure the touchpad, you can use the standard Microsoft or IBM PS/2 driver if you are using Windows. However, you can install the touchpad driver supplied with your computer to take advantage of more powerful features.

Using the Hard Disk Drive

Your computer comes with a hard disk drive as drive C.

A hard disk drive is a storage device with non-removable, rotating, magnetic storage platters inside it. It is where your operating system and application software programs are stored.

Your hard disk drive is a 2.5-inch PATA (Parallel ATA) or SATA (Serial ATA) hard disk drive. This type of drive embodies the latest in fast, reliable mass storage by integrating all the control circuitry necessary for operation directly onto the drive itself. This allows the drive manufacturer to carefully optimize drive performance.

CAUTION:

- * Make regular backups of your data files from your hard disk drive to floppy disks or other storage media.
- * Never try to remove or install the hard disk drive while the computer is powered on. Doing so can result in loss of data, and can damage the computer and the hard disk drive's sensitive circuitry.
- * Never turn off or reset the computer while the hard disk drive in-use indicator is on.

Using the DVD Drive

Your computer comes with a DVD drive, usually configured as drive D. Depending on the model, your drive is one of the following:

- * Combo drive can work both as a DVD drive and CD-RW drive.
- * DVD RW drive can work as a Combo drive and DVD –RW / DVD +RW.
- * DVD Dual drive can work as a DVD drive and also write to a single sided double layered DVD disc.
- * Super Multi drive that includes either a:
 - DVD Multi drive (read-only) allows you to read all types of DVD-ROM and DVD-R discs; or a
 - DVD Multi drive (writable) allows you to read and write to all types of DVD-ROM and DVD-R discs.

CAUTION:

- * When inserting a disc, do not use force.
- * Make sure that the disc is correctly inserted into the tray, and then close the tray.
- * Do not leave the DVD tray open. Also, avoid touching the lens in the tray with your hand. If the lens becomes dirty, the DVD drive may malfunction.
- * Do not wipe the lens using materials with rough surface (such as paper towel). Instead, use a cotton swab to gently wipe the lens.

FDA regulations require the following statement for all laser-based devices:

Caution, Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

NOTES:

- * The DVD drive is classified as a Class 1 laser product. This label is located on the DVD drive.

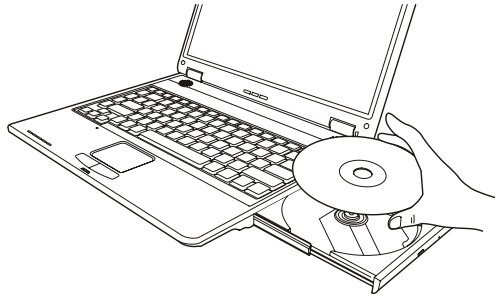
CLASS 1 LASER PRODUCT
LASER KLASSE 1

- * This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Inserting and Removing a Disc

Follow this procedure to insert or remove a disc:

1. Turn on the computer.
2. Press the eject button and the tray will slide out partially. Gently pull on it until it is fully extended.
3. To insert a disc, place down the disc in the tray with its label facing up. Slightly press the center of the tray until it clicks into place.



To remove a disc, hold the disc by its outer edge and lift it up from the tray.

4. Gently push the tray back into the drive.

NOTE: In the unlikely event that you are unable to release the tray by pressing the eject button, you can manually release the tray.

Using the Video Features

The video subsystem of your computer features:

- * 14.1/15-inch TFT (Thin-Film Transistor) color LCD display with 1024x768 XGA resolution
- * Simultaneous display on LCD and external CRT (VGA), which is useful when you have a presentation as you can control the screen from your computer and face the audience at the same time.
- * Multi-display capability, which allows you to expand your desktop on the screen to another display device so that you have more desktop space to work on.
- * Power Management.

NOTES:

- * Before using the multi-display capability, the video driver supplied with your computer must be installed.
- * System enters Standby/Hibernation mode when the LCD is closed. If you want to use the computer with the LCD closed, set Do Nothing to the "When I close the lid of my portable computer" option in the Power Options Properties. Thus the computer does not enter Standby or Hibernation mode when the LCD is closed.

Configuring the Display Modes

NOTES:

- * To take advantage of the enhanced video capabilities, the video driver supplied with your computer must be installed.
- * When using external CRT monitor only, the resolution depends on the external CRT monitor's supported resolution.

Your computer has been set to a default resolution and number of colors before shipment. You can view and change display settings through your operating system. See your operating system documentation or online help for specific information.

For displaying in higher resolutions, you can connect an external CRT monitor that supports higher resolutions.

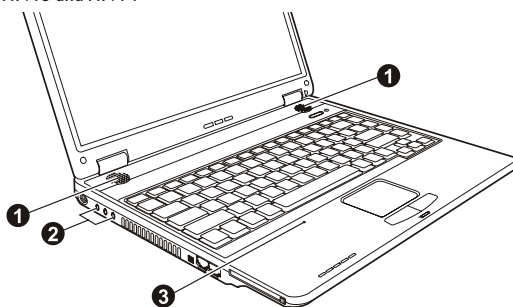
Using the Audio Features

NOTES:

- * To take advantage of the enhanced audio capabilities, the audio driver supplied with your computer must be installed.
- * If you experience interference while recording, try lowering the microphone recording volume.

The audio subsystem of your computer features:

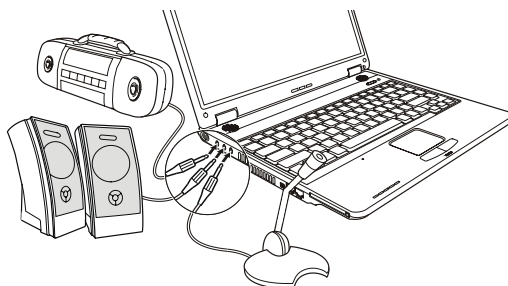
- * Digital audio and analog mixing functions required for recording and playing sound on your computer
- * Sound Blaster Pro compatibility
- * A set of speakers (1)
- * External audio connectors (2)
- * Built-in microphone (3) and
- * Volume control with Fn+F3 and Fn+F4



Ways of playing and recording sound vary with the operating system used. See your operating system documentation or online help for specific information.

Connecting Audio Devices

For higher audio quality, you can send or receive sound through external audio devices.



- * Audio Input Connector can be connected to the line-out connector of a Hi-Fi set, radio set, synthesizer, walkman, etc.
- * S/PDIF Connector can be connected to the line-in connector of S/PDIF (Sony/Philips Digital InterFace) compliant as well as ordinary powered speakers with built-in amplifiers, headphones, or earphone set. S/PDIF is a new audio transfer file format that ensures a high quality digital audio output through optical fibers.
- * Microphone Connector can be connected to an external microphone for recording voice or sound.

NOTES: When using external speakers/headphones or microphone, you cannot use the internal one.

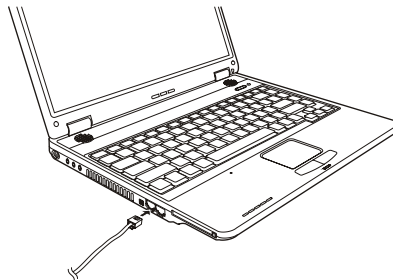
Using the Communication Features

Using the Modem

NOTE: To take advantage of the modem feature, the modem driver supplied with your computer must be installed.

The internal 56 K fax/data modem allows you to use the telephone line to communicate with others by fax, email, or connect to an online service or bulletin board.

To connect the telephone line to the modem, connect one end of the modem cable to the RJ-11 connector on the computer and the other end to the phone line.



NOTES:

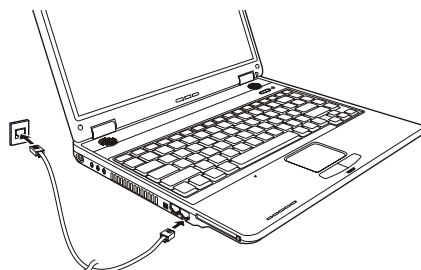
- * When using communication software, you may have to disable power management.
- * Set the COM port of the modem to COM3.
- * Set parameters such as modem speed (baud rate) and line type (pulse dialing or tone dialing).
- * Do not enter Standby mode when using communication software.

Using the LAN

NOTE: To take advantage of the LAN feature, the LAN driver supplied with your computer must be installed.

The internal 10/100/1000 Base-TX LAN (Local Area Network) module allows you to connect your computer to a network. It supports data transfer rate up to 100 Mbps.

To connect the network cable to the LAN module, connect one end of the LAN cable to the RJ-45 connector on the computer and the other end to the network hub.



ENG

Using the Wireless LAN (option)

Depending on your model, an internal Mini PCI Wireless LAN (WLAN) card may have been pre-installed by your computer manufacturer at the factory. This card allows you to access corporate networks or the Internet in a wireless environment. The WLAN features include:

- * 2.4 GHz DSSS (Direct Sequence Spread Spectrum) technology
- * Peer-to-Peer (Ad-Hoc) and Access Point (Infrastructure) modes support
- * WEP (Wired Equivalent Privacy) 64/128-bit data encryption
- * Transmission rate at 9 / 18 / 36 / 54 Mbps (802.11g mode), with automatic data rating at 1 / 2 / 11 Mbps (802.11b mode)

To take advantage of the WLAN feature, make sure that the WLAN driver is installed correctly (see Chapter 6 for more information). If your WLAN card was provided by your dealer instead of the computer manufacturer, contact your dealer for the correct driver to use.

Turning Off/On the WLAN Radio

NOTES:

- * The FAA (Federal Aviation Agency) has deemed it unsafe to operate wireless devices in aircraft as this may interfere with flight safety. Remember to turn off wireless LAN radio when using your computer in the airplane.
- * The information in this section applies to models with the wireless LAN module only.
- * Turning the wireless LAN radio off is not the same as turning off the Windows WLAN utility.

Your computer has a built-in Fn+F1 WLAN hot key to switch the WLAN radio on/off.

Press the Fn+F1 hot key to turn on the WLAN radio. The WLAN indicator glows to indicate that the computer is ready for WLAN connection.

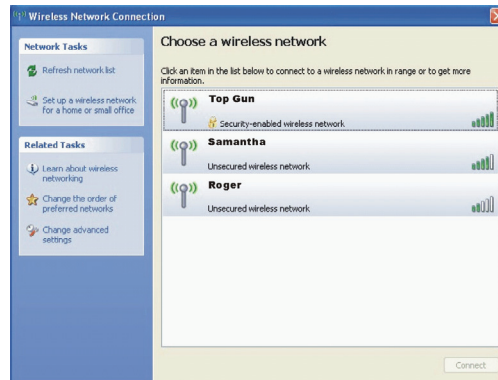
To turn off the WLAN radio temporarily, press Fn+F1 hot key. The WLAN indicator will be off.

Upon booting up your computer, the WLAN radio's setting depends on the last state when you turn off your system. If the WLAN radio was off the last time you turn off your computer, then upon booting up your system the WLAN radio stays off, and vice versa.

It takes approximately 30 seconds for your computer to make a successful WLAN connection and approximately 10 seconds to disconnect.

Connecting to a Wireless Network

1. Make sure that the WLAN radio is on by pressing Fn+F1 hot key.
2. Double-click the Wireless Network Connection icon located on your Windows system tray. If any wireless network is detected, the following window appears on screen.



3. Select a wireless network to connect to by clicking on a selection, then click on Connect.
4. Depending on the settings, you may be asked to enter a WEP key (refer to your Windows online help for more information on setting a wireless network connection).

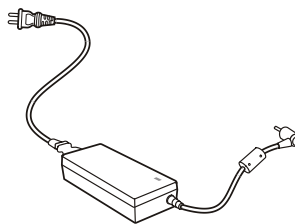
Managing Power

Your computer operates either on external AC power or on internal battery power.

AC Adapter

CAUTION:

- * The AC adapter is designed for use with your computer only. Connecting the AC adapter to another device can damage the adapter.
- * The AC power cord supplied with your computer is for use in the country where you purchased your computer. If you plan to go overseas with the computer, consult your dealer for the appropriate power cord.
- * When you disconnect the AC adapter, disconnect from the electrical outlet first and then from the computer. A reverse procedure may damage the AC adapter or computer.
- * When unplugging the connector, always hold the plug head. Never pull on the cord.



The AC adapter serves as a converter from AC (Alternating Current) to DC (Direct Current) power because your computer runs on DC power, but an electrical outlet usually provides AC power. It also charges the battery pack when connected to AC power.

The adapter operates on any voltage in the range of 100~240 V AC.

Battery Pack

The battery pack is the internal power source for the computer. It is rechargeable using the AC adapter.

The operating time of a fully charged battery pack depends on how you are using the computer. When your applications often access peripherals, you will experience a shorter operating time.

Power-Saving Tips

In addition to your computer's automatic power management, you can do your part to maximize the battery's operating time by following these suggestions.

- * Do not disable Power Management.
- * Decrease the LCD brightness to the lowest comfortable level.
- * If you work with an application that uses a PC card, exit the application when you finish using it.
- * If you have a PC card installed, remove it when not in use. Some PC cards drain power even while they are inactive.
- * Deactivate the WLAN function if you are not using it. (See "Turning Off/On the WLAN Radio" in chapter 2.)
- * Turn off the computer when you are not using it.

Expanding Your Computer

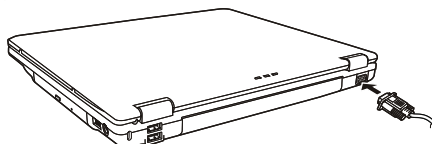
You can expand the capabilities of your computer by connecting other peripheral devices.

Connecting an External Display

If you want the benefits of a larger display screen with higher resolution, you can connect an external CRT monitor and/or external LCD monitor to your computer.

Follow this procedure to connect an external display:

1. Make sure that the computer is not turned on.
2. Plug the CRT monitor's D-type signal connector to the computer's VGA port.



3. Plug one end of the CRT monitor's power cord into the power socket on the monitor and the other end to an electrical outlet.
4. To use the CRT monitor, turn on the CRT monitor before turning on the computer.
5. The CRT monitor should respond by default. If not, you can switch the display to the CRT monitor, or to multi-display by pressing Fn+F5. In Windows, you can also change the display through the settings in Display Properties.
6. You can change display settings through your operating system. See your operating system documentation or online help for specific information.

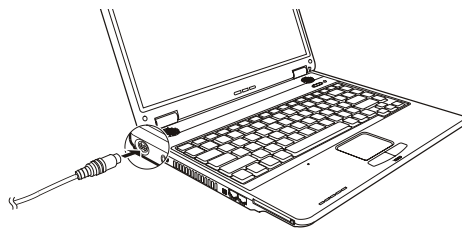
CAUTION: Do not disconnect the external display while the computer is in Standby mode or Hibernation mode. If no external display is connected when the computer resumes, the computer's LCD might not display properly.

Connecting a TV

For entertainment, conferences, or presentations, you can connect a TV to your computer.

Follow this procedure to connect a TV:

1. Make sure that the computer is not turned on.
2. Prepare an S-video cable. Plug the appropriate end of the S-video cable to the computer's S-video connector and the other end to the TV's S-video input connector.



3. Since your computer cannot output sound to a TV, you can connect external speakers to the computer for better sound quality if necessary.
4. Turn on the power of the TV and switch to the video mode.
5. Turn on the power of the computer and switch the display to TV by changing the display through the settings in Display Properties in Windows.

CAUTION:

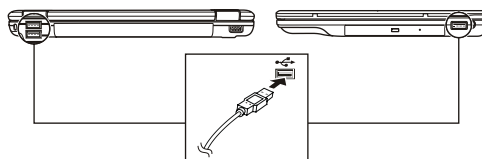
- * Do not set the display to both LCD and TV. This may cause unstable display on the LCD.
- * Do not disconnect the TV while the computer is in Standby or Hibernation mode. If the TV is not connected when the computer resumes, the LCD might not display properly.
- * Make sure that the VGA driver is installed correctly.

Connecting a USB Device

Your computer has four USB ports that supports transfer rates up to 12 MB/s for USB 1.1 devices and 480 MB/s for USB 2.0 devices, such as digital camera, scanner, printer, modem, and mouse.

USB is specified to be an industry standard extension to the PC architecture. It supports "Plug-and-Play" technology so you can install and remove USB devices without turning off the computer. With its multiple connection capability, up to 127 devices can be connected in a daisy-chain configuration. In addition, you can use a USB hub that converts a single USB connector into multiple ports where USB devices can be connected.

To connect a USB device, simply plug the device cable to one of the USB ports.



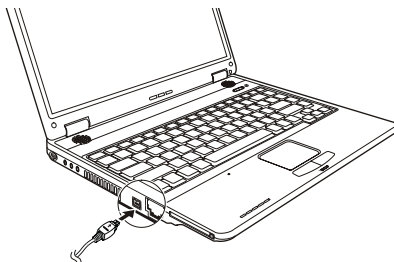
Connecting an IEEE 1394a Device

Your computer has an IEEE 1394a port on the computer for connecting 1394 devices.

IEEE 1394a is the next-generation serial bus standard, featuring high-speed data transfer, multi-channel communication link, and "Hot Plug" connectivity. It allows connection of up to 63 devices. The applications include not only computer

peripheral devices such as scanner, printer and high-quality CCD, but also consumer electronic equipment such as DVCAM and VCR.

To connect an 1394 device, simply plug the device cable to the IEEE 1394a port of the system.



Using PC Cards

Your computer has a PC card slot.

PC cards are credit card-sized peripheral products based on the standards developed by PCMCIA (Personal Computer Memory Card International Association). PCMCIA is a non-profit association for promoting the interchangeability among mobile computers where ruggedness, low power, and small size are critical.

PC Card Type

Your computer's PC card slot can accommodate a type II card. Typical type II cards are flash memory, SRAM, modem, LAN, and SCSI cards.

CardBus Support

Your computer's PC card slot supports CardBus specifications. CardBus is the 32-bit version of PC card technology. It allows speeds of up to 133 Mbps at 33 MHz. Typical applications are SCSI host bus and high-speed network cards.

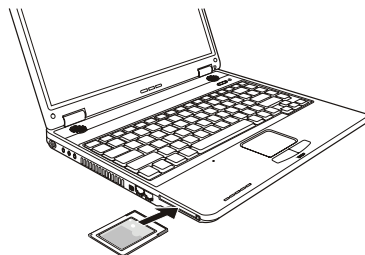
Inserting and Removing a PC Card

NOTES:

- * Some PC cards require additional system resources. Before using such PC card, you may have to free other system resources for the PC card.
- * Although some PC cards can be inserted and removed without turning off the computer, you cannot remove or install PC cards during Standby mode.

To insert a PC card:

1. Locate the PC card slot on the left side of the computer.
2. Slide the PC card, with its label facing up, into the slot until the eject button pops out.



3. When a new card is seated, the computer will detect it and try to install the appropriate driver. Follow the on-screen instructions to complete the process.

To remove a PC card:

1. Double-click on the Safely Remove Hardware icon found on the Windows XP taskbar and the Safely Remove Hardware window appears on screen.
2. Select (highlight) the PC card from the list to disable the card.
3. Push the eject button and the card will slide out slightly.
4. Pull the card out of the slot.

Internal Components Upgrade

You can upgrade your computer by changing the CPU or adding memory. However, to avoid damage during the installation procedure, please ask your dealer for help. Do not install an internal component by yourself.

Installing Software Drivers

To take full advantage of the unique features of your computer, some operating systems require custom software, known as drivers, to be installed.

If you purchased the computer with Windows pre-installed, your dealer may have already installed the drivers. If not, you need to install the drivers using the CD supplied with your computer.

How to Use the Driver CD

NOTES:











- * The drivers may have been updated after this manual was published. For driver's upgrade, please contact your dealer.
- * This CD supports Windows XP only. You are recommended to install Windows XP Service Pack 2.
- * The available items may differ according to your computer model.
- * Please do not remove the driver CD when installing the driver.

An autorun program is provided on the driver CD to help you easily install the drivers. As you insert the CD, the autorun program automatically starts. If you need to start the program manually, run the Setup.exe program from the Wsetup directory of the CD.

The main screen appears as shown next:



To install the intended driver, just click on the corresponding icon on the left side and installation will start. The icons and drivers are described next:

Icon	Name	Description
	Chipset driver	Ensures the full function of the following drivers. Install this driver before installing the other device drivers.
	Video driver	Installs the video driver that allows you to select high-resolution displays with richer colors.
	Audio driver	Installs the audio driver that allows you to take full advantage of the audio subsystem.
	Modem driver	Installs the modem driver that allows you to use the modem function of the computer.
	LAN driver	Installs the LAN driver that allows you to use the network function of the computer.
	Touchpad driver	Installs the touchpad driver that allows you to take full advantage of the touchpad features.
	WLAN driver (option)	Installs the WLAN driver that allows you to use the computer's internal Mini-PCI Type-IIIB WLAN card's network function. NOTE: The Windows Plug-and-Play capability may automatically detect the new device (Mini-PCI WLAN card) and display the wizard requesting for drivers. Click Cancel to bypass the wizard screen(s).
	Adobe Acrobat Reader	Installs the Adobe Acrobat Reader program if you do not have it on your computer. You need Adobe Acrobat Reader to open the manual files supplied on this driver CD.
	User's Manuals	Allows you to select the manual in a particular language to view.
	Browse CD	Browses the contents of this CD.

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Caring for the Computer

Taking good care of your computer will ensure a trouble-free operation and reduce the risk of damage to your computer.

Protecting the Computer

To safeguard the integrity of your computer data as well as the computer itself, you can protect the computer in several ways as described in this section.

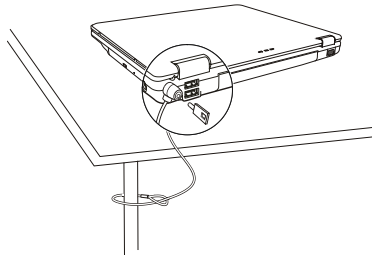
Using the Password

The power-on password protects your computer against unauthorized use. If the password is set, the prompt requesting for the password appears on the screen whenever the computer is turned on.

Using the Cable Lock

You can use a Kensington-type cable lock to protect your computer against theft. The cable lock is available in most computer stores.

To use the lock, loop the lock cable around a stationary object such as a table. Insert the lock to the Kensington lock hole and turn the key to secure the lock. Store the key in a safe place.



Using an Anti-Virus Strategy

New viruses are always being developed nowadays and they are attacking computers even more easily with emails so commonly used worldwide.

You can install a virus-detecting program to monitor potential viruses that could damage your files.

Taking Care of the Computer

Location Guidelines

- * Use the computer where the temperature is between 10 °C (50 °F) and 35 °C (95 °F).
- * Avoid placing the computer in a location subject to high humidity, extreme temperatures, mechanical vibration, direct sunlight, or heavy dust.
- * Do not cover or block any ventilation openings on the computer. For example, do not place the computer on a bed, sofa, rug, or other similar surface. Otherwise, overheating may occur that results in damage to the computer.
- * Keep the computer at least 13 cm (5 inches) away from electrical appliances that can generate a strong magnetic field such as a TV, refrigerator, motor, or a large audio speaker.
- * Do not move the computer abruptly from a cold to a warm place. A temperature difference of more than 10 °C (18 °F) will cause condensation inside the unit, which may damage the storage media.
- * Do not place the computer on an unsteady surface.

General Guidelines

- * Do not place heavy objects on top of the computer when it is closed as this may damage the display.
- * The screen surface is easily scratched. Do not use paper towels to clean the display. Avoid touching it with your fingers, pen, or pencil.
- * To maximize the life of the backlight in the display, allow the backlight to automatically turn off as a result of power management. Avoid using a screen saver or other software that prevents the power management from working.

Cleaning Guidelines

- * Never clean the computer with its power on.
- * Use a soft cloth moistened with water or a non-alkaline detergent to wipe the exterior of the computer.
- * Gently wipe the display with a soft, lint-free cloth. Do not use alcohol or detergent on the display.
- * Dust or grease on the touchpad can affect its sensitivity. Clean the pad by using adhesive tape to remove the dust and grease on its surface.

Battery Pack Guidelines

- * Recharge the battery pack when it is nearly discharged. When recharging, make sure that the battery pack is fully charged. Doing so may avoid harm to the battery pack.
- * Operate the computer with the battery pack installed even when using external power. This ensures that the battery is fully charged.
- * Do not leave the battery pack in storage for more than 6 months without recharging it.

When Traveling

- * Before traveling with your computer, make a backup of your hard disk data into floppy disks or other storage devices. As an added precaution, bring along an extra copy of your important data.
- * Make sure that the battery pack is fully charged.
- * Make sure that the computer is turned off and the top cover is securely closed.
- * Do not leave objects in between the keyboard and closed display.
- * Disconnect the AC adapter from the computer and take it with you. Use the AC adapter as the power source and as a battery-charger.
- * Hand-carry the computer. Do not check it in as luggage.
- * If you need to leave the computer in the car, put it in the trunk of the car to avoid exposing the computer to excessive heat.
- * When going through airport security, it is recommended that you send the computer and floppy disks through the X-ray machine (the device you set your bags on). Avoid the magnetic detector (the device you walk through) or the magnetic wand (the handheld device used by security personnel).
- * If you plan to travel abroad with your computer, consult your dealer for the appropriate AC power cord for use in your country of destination.

Troubleshooting

Computer problems can be caused by hardware, software, or both. When you encounter any problem, it might be a typical problem that can easily be solved.

Preliminary Checklist

Here are helpful hints to follow before you take further actions when you encounter any problem:

- * Try to isolate which part of the computer is causing the problem.
 - * Make sure that you turn on all peripheral devices before turning on the computer.
 - * If an external device has a problem, make sure that the cable connections are correct and secure.
 - * Make sure that the configuration information is properly set in the BIOS Setup program.
 - * Make sure that all the device drivers are correctly installed.
 - * Make notes of your observations. Are there any messages on the screen? Do any indicators light? Do you hear any beeps? Detailed descriptions are useful to the service personnel when you need to consult one for assistance.
- If any problem persists after you follow the instructions in this chapter, contact an authorized dealer for help.

Solving Common Problems

Battery Problems

The battery does not charge (Battery Charge indicator does not light amber).

- * Make sure that the AC adapter is properly connected.
- * Make sure that the battery is not too hot or cold. Allow time for the battery pack to return to room temperature.
- * Make sure that the battery pack is installed correctly.
- * Make sure that the battery terminals are clean.

The operating time of a fully charged battery becomes shorter.

- * If you often partially recharge and discharge, the battery might not be charged to its full potential. Initialize the battery to solve the problem (see "Initializing the Battery Pack" in Chapter 3 for instructions).

The battery operating time indicated by the battery meter does not match the actual operating time.

- * The actual operating time can be different from the estimated time, depending on how you are using the computer.
- If the actual operating time is much less than the estimated time, initialize the battery (see "Initializing the Battery Pack" in Chapter 3 for instructions).

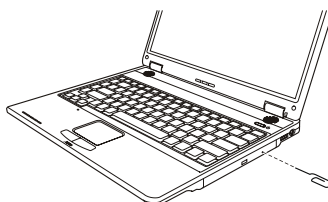
DVD Drive Problems

The DVD drive cannot read a disc.

- * Make sure that the disc is correctly seated in the tray, with the label facing up.
- * Make sure that the disc is not dirty. Clean the disc with a disc cleaning kit, available in most computer stores.
- * Make sure that the computer supports the disc or the files contained.

You cannot eject a disc.

- * The disc is not properly seated in the drive. Manually release the disc following the method described next:
 1. Turn off the system.
 2. Insert a small rod, such as a straightened paperclip, into the drive's manual eject hole and push firmly to release the tray.
 3. Pull the tray out until fully extended, and then remove the disc.



Display Problems

Nothing appears on the screen.

- * During operation, the screen may automatically turn off as a result of power management. Press any key to see if the screen comes back.
- * The brightness level might be too low. Increase brightness by pressing Fn+F7.
- * The display output might be set to an external device. To switch the display back to the LCD, press Fn+F5, or change the display through the settings in Display Properties.

The characters on the screen are dim.

- * Adjust the brightness and/or contrast.

Bad dots appear on the display at all times.

- * A small number of missing, discolored, or bright dots on the screen are an intrinsic characteristic of TFT LCD technology. It is not regarded as a LCD defect.

LCD Type	Defective dots		Distance between defective dots		Two adjacent defective dots		Three or more adjacent defective dots		Total
	Bright	Dark	Bright	Dark	Bright	Dark	Bright	Dark	
14.1" XGA	N≤5	N≤7	≤1.5mm	≤1.5mm	≤2 Pairs	≤2 Pairs	Not allowed	Not allowed	N≤9
15" XGA	N≤8	N≤8	≤1.5mm	≤1.5mm	≤2 Pairs	≤2 Pairs	Not allowed	Not allowed	N≤10
18" XGA	N≤9	N≤15	≤5mm	≤20mm	≤3 Pairs	≤5 Pairs	Not allowed	Not allowed	N≤20

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Resolution cannot be adjusted to desired setting.

- * Make sure that the video driver is installed correctly.

The external monitor displays nothing.

- * Make sure that the monitor is turned on.
- * Make sure that the monitor's signal cable is properly connected.
- * Switch the display to the monitor by pressing Fn+F5, or change the display through the settings in Display Properties.

Simultaneous display/multi-display does not work.

- * Make sure that you turn on the external monitor before turning on the computer.
- * Press Fn+F5 to toggle through the display options or change the settings in Display Properties in Windows.

Floppy Disk Drive Problems

The disk drive does not work.

- * Make sure that the disk drive is properly connected.

The floppy disk drive in-use indicator stays on.

- * Make sure that the floppy disk is not physically damaged.
- * Make sure that the floppy disk is inserted correctly.

The disk drive cannot write to a floppy disk.

- * Make sure that the floppy disk is formatted.
- * Make sure that the floppy disk is not write-protected.
- * Make sure that you are writing to the correct drive.
- * Make sure that there is enough space left on the floppy disk.
- * Make sure that the floppy disk is not physically damaged.

The disk drive cannot read a floppy disk.

- * Make sure that the floppy disk is formatted.
- * Make sure that you are reading the correct drive.

Hardware Device Problems

The computer does not recognize a newly installed device.

- * The device may not be correctly configured in the SCU program. Run the SCU program to identify the new type.
- * Make sure if any device driver needs to be installed (refer to the documentation that came with the device).
- * Make sure if the device needs any jumper or switch settings (refer to the documentation that came with the device).
- * Check the cables or power cords for correct connections.
- * For an external device that has its own power switch, make sure that the power is turned on.

Hard Disk Drive Problems

The hard disk drive error message appears on the screen.

- * The hard disk drive has defects. Ask your dealer for help.

The hard disk drive operations seem slow.

- * The data files stored on the hard disk drive may be fragmented. Use a tool such as Window's Disk Defragmenter to defragment the files.

The hard disk drive in-use indicator glows without blinking.

- * The data files stored on the hard disk drive may be fragmented. Use a tool such as Window's Disk Defragmenter to defragment the files.

Keyboard, Mouse, and Touchpad Problems

The keyboard does not respond.

- * Try connecting an external keyboard. If it works, contact an authorized dealer, as the internal keyboard cable might be loose.

The numeric keypad is disabled.

- * Make sure that the Num Lock is switched on (check if the Num Lock Indicator glows or not).

The external keyboard does not work.

- * Make sure that the keyboard cable is properly connected.

The USB mouse does not work.

- * Make sure that the mouse cable is properly connected.

The touchpad does not work, or the pointer is difficult to control with the touchpad.

- * Make sure that the touchpad driver is correctly installed.
- * Make sure that the touchpad is clean.

LAN Problems

I cannot access the network.

- * Make sure that the LAN driver is correctly installed.
- * Make sure that the LAN cable is properly connected to the RJ-45 connector and the network hub.
- * Make sure that the network configuration is appropriate.
- * Make sure that the user name or password is correct.

WLAN Problems

I cannot use the WLAN feature.

- * Make sure that the Mini PCI WLAN card is correctly installed.
- * Make sure that the necessary driver(s) is correctly installed.
- * Make sure that the WLAN feature is turned on.

Transmission quality is poor.

- * Your computer may be in an out-of-range situation. Move your computer closer to the Access Point or another WLAN device it is associated with.
- * Check if there is high interference around the environment and solve the problem as described next.

Radio interference exists.

- * Move your computer away from the device causing the radio interference such as microwave oven and large metal objects.
- * Plug your computer into an outlet on a different branch circuit from that used by the affecting device.
- * Consult your dealer or an experienced radio technician for help.

I cannot connect to another WLAN device.

- * Make sure that the WLAN feature is turned on.
- * Make sure that the SSID setting is the same for every WLAN device in the network.
- * Your computer is not recognizing changes. Restart the computer.

- * Make sure that the IP address or subnet mask setting is correct.

I cannot communicate with the computer in the network when Infrastructure mode is configured.

- * Make sure that the Access Point your computer is associated with is powered on and all the LEDs are working properly.
- * If the operating radio channel is in poor quality, change the Access Point and all the wireless station(s) within the BSSID to another radio channel.
- * Your computer may be in an out-of-range situation. Move your computer closer to the Access Point it is associated with.
- * Make sure that your computer is configured with the same security option (encryption) to the Access Point.
- * Use the Web Manager/Telnet of the Access Point to check whether it is connected to the network.
- * Reconfigure and reset the Access Point.

I cannot access the network.

- * Make sure that the necessary driver(s) is correctly installed.
- * Make sure that the network configuration is appropriate.
- * Make sure that the user name or password is correct.
- * You have moved out of range of the network.
- * Turn off power management.

Modem Problems

The modem does not work.

- * Make sure that the modem driver is correctly installed.
- * Make sure that the telephone line is properly connected.
- * Make sure that the COM port in the communication software is correctly set.
- * Turn off power management.

PC Card Problems

The PC card does not work.

- * Make sure that the PC card is correctly seated.
- * If the card requires an IRQ (Interrupt ReQuest), make sure that there is one available.

The PC card stops communicating properly.

- * The application may have been reset when the computer is turned off or in Standby mode. Exit and restart the application.

Power Management Problems

The computer does not enter Standby or Hibernation mode automatically.

- * If you have a connection to another computer, the computer does not enter Standby or Hibernation mode if the connection is actively in use.
- * Make sure that the Standby or Hibernation time-out is enabled.

The computer does not enter Standby or Hibernation mode immediately.

- * If the computer is performing an operation, it normally waits for the operation to finish.

The computer does not resume from Standby or Hibernation mode.

- * The computer automatically enters Standby or Hibernation mode when the battery pack is empty. Do any one of the following:

- Connect the AC adapter to the computer.
- Replace the empty battery pack with a fully charged one.

The computer does not enter Hibernation mode with the Fn+F12 hot keys.

- * Make sure that the Hibernation function is specified for the sleep button.

* You might be using a PC card that prevents the computer from entering Hibernation mode. To enter the mode, stop the communication program and then remove the card or stop the card.

Software Problems

An application program does not work correctly.

- * Make sure that the software is correctly installed.
- * If an error message appears on the screen, consult the software program's documentation for further information.
- * If you are sure the operation has stop, reset the computer (see "Resetting the Computer" later in this chapter).

Sound Problems

No sound is produced.

- * Make sure that the volume control is not set too low.
- * Make sure that the audio driver is correctly installed.
- * Make sure that the computer is not in Standby mode.
- * If using an external speaker, make sure that the speaker is properly connected.

Distorted sound is produced.

- * Make sure that the volume control is not set too high or too low. In most cases, a high setting can cause the audio electronics to distort the sound.

The sound system does not record.

- * Adjust the playback or recording sound levels.

The external microphone or audio device does not work.

- * Make sure that the microphone is connected to the proper connector on the computer.
- * Make sure that your computer is equipped with the driver needed.
- * Click the speaker symbol on the taskbar and check the Windows volume control.
- * Check the volume control of your computer.

Startup Problems

When you turn on the computer, it does not respond and the Power Indicator does not light green.

- * If you are using an external AC power, make sure that the AC adapter is correctly and securely connected. If so, make sure that the electrical outlet works properly.
- * If you are using the battery power, make sure that the battery is not discharged.

When you turn on the computer, it stops after POST.

- * Restart your computer.

The message "Operating system not found" appears on the screen after you turn on the computer.

- * Make sure that there is no floppy disk in the floppy disk drive. If there is, remove it and restart the system.
- * If this message appears when you are booting from the hard disk, insert a bootable disk in the floppy disk drive and check the condition of the hard disk.

The message "Invalid system disk" or "Disk error" appears on the screen after you turn on the computer.

- * If you are deliberately trying to boot from a floppy disk, replace the disk with a bootable one and press any key to continue booting.
- * If you are booting from the hard disk, make sure that there is no floppy disk in the floppy disk drive. If there is, remove it and restart the system.
- * If this message appears when you are booting from the hard disk, insert a bootable disk in the floppy disk drive and check the condition of the hard disk.

Other Problems

The date/time is incorrect.

- * Correct the date and time via the operating system or SCU program.
- * After you have performed everything as described above and still have the incorrect date and time every time you turn on the computer, the RTC (Real-Time Clock) battery is at the end of its life. Call an authorized dealer to replace the RTC battery.

Resetting the Computer

You may have to reset (reboot) your computer on some occasions when an error occurs and the program you are using hangs up.

If the system operation seems to hang up, first wait. It is possible that the system is processing data. Periodically check the hard disk drive in-use indicator, if it flashes irregularly, the program may be accessing data and preventing you from using the keyboard. If you are sure the operation has stopped and you cannot use the "restart" function of the operating system, reset the computer.

Reset the computer by any one of these methods:

- * Press Ctrl+Alt+Del.
- * If the above action does not work, turn off the system. Wait for at least five seconds and turn it on again.

CAUTION: Resetting will cause any unsaved data to be lost.

Specifications

NOTE: Specifications are subject to change without any prior notice.

CPU

Intel Mobile Pentium-M / Dothan processor, FSB (Front Side Bus) 400/533 MHz, thermal 35 W

L2 Cache Memory

1 MB on-die for Intel Pentium-M

2 MB on-die for Dothan

ROM BIOS

512 KB Flash EEPROM (includes system and VGA BIOS), ACPI, Plug-and-Play capability

System RAM

2x 200-pin DDRII SO-DIMM socket for expansion, supports DDRII 400/533 specifications

Display

Panel

14.1/15-inch TFT, resolution up to 1024x768 XGA

Video controller

SMA (Shared Memory Architecture)

Video ports

VGA port, S-video port (PAL/NTSC)

Keyboard

Standard keys, numeric keypad, 12 function keys, a special Fn (Function) key and Windows keys

Pointing device

Touchpad with 2 buttons

Storage device

Floppy disk drive (external)
3.5-inch, 1.44 MB, USB (optional)
Hard disk drive
2.5-inch, 9.5 mm high, Ultra DMA (PATA) / SATA support
Optical drive
Combo / DVD +RW / DVD -RW / DVD-Dual / Super Multi

Audio ports

Three audio ports for Line-out / Mic-in / S/PDIF

PC card

Type II x 1, CardBus support

I/O ports

Three USB ports (USB 2.0 support), IEEE 1394a port

Modem

Built-in 56 Kbps V.90 MDC internal fax modem

LAN

Built-in 10/100/1000 M Base-TX

Wireless LAN (option)

One Mini PCI slot and antenna reserved for wireless LAN card, IEEE 802.11a, b, g (pre-installed in selected models)

Power

AC adapter

Universal AC adapter 65 W; input: 100~240 V, 50/60 Hz (supports power-on charge)

Battery

2200 mAh (6-cell) Li-ion battery

Dimension (WxDxH)

10.91x12.95x1.02~1.31 inch (277x329x26~33.3 mm)

Weight

5.7 lb (2.6 kg)

Environment

Temperature

Operating: 0 °C (32 °F) to 35 °C (95 °F)

Storage: -20 °C (-4 °F) to 60 °C (140 °F)

Humidity

Operating: 10% to 90% non-condensing

Storage: 5% to 95% non-condensing