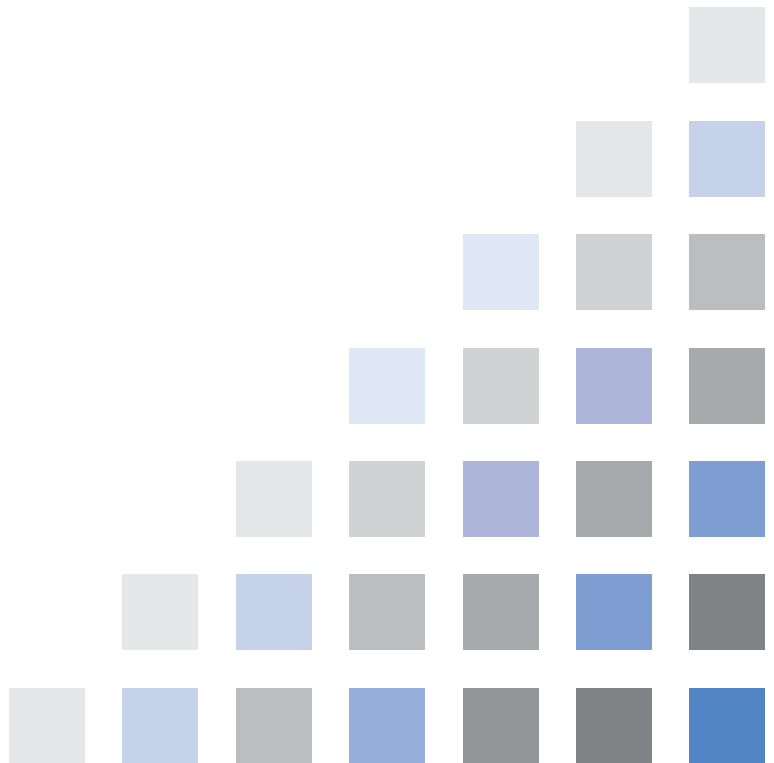


SHARP®

NOTEBOOK COMPUTER

PC-RD2 Series

OPERATION MANUAL



Notice for Users in the USA

FCC Statement

WARNING - FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

A shielded I/F cable is required to insure compliance with FCC regulation for Class B computing equipment.

- As an ENERGY STAR[®] Partner, SHARP has determined that this product meets the ENERGY STAR[®] guidelines for energy efficiency.

Declaration of Conformity

SHARP PERSONAL COMPUTER, PC-RD Series

This device complies with part 15 of the FCC rules. Operation is subject to the following conditions:(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible Party: SHARP ELECTRONICS CORPORATION
Sharp Plaza, Mahwah, New Jersey 07430-2135
TEL: 1-800-BE-SHARP

About the Modem

This equipment complies with Part 68 of FCC rules. On the bottom of this equipment is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If requested, this information must be provided to the telephone company.

The modem jack of this equipment complies with Sub-part F of Part 68 of FCC rules.

The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to the line, as determined by the total RENs contact the telephone company to determine the maximum REN for the calling areas.

If the terminal equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it necessary.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications in order to maintain uninterrupted service.

If trouble is experienced with this equipment, please contact Sharp Electronics Corp. for repair and (or) warranty information (Refer to the provided Consumer Limited Warranty sheet). If the trouble is causing harm to the telephone network, the telephone company may request you remove the equipment from the network until the problem is resolved.

The equipment cannot be used on public coin service provided by the telephone company. Connection to Party Line Service is subject to state tariffs. (Contact the state public utility commission, public service commission or corporation commission for information.)

The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device, including fax machines, to send any

message unless such message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent and an identification of the business or other entity, or other individual sending the message and the telephone number of the sending machine or such business, other entity, or individual. (The telephone number provided may not be a 900 number or any other number for which charges exceed local or long-distance transmission charges.) To program this information, refer to the manual of the communication software.

For Wireless LAN Bundled Model

Wireless LAN Model Name: T60H656

FCC ID: MCLT60H65600

This device complies with part 15 of the FCC rules. Operation is subject to the following conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning

This product utilizes tin-lead solder, and fluorescent lamp containing a small amount of mercury.

Disposal of these materials may be regulated due to environmental considerations.

For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance: www.eiae.org

Copyright

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Product Information and Customer Assistance

For Product Information and Customer Assistance:

Call: 1-800-BE-SHARP (237-4277)

Sharp Systems of America

5901 Bolsa Avenue, Huntington Beach, CA 92647

Home Page: <http://www.sharpsystems.com>

E-mail address: ssa-support@sharpsystems.com

CAUTION:

TO PREVENT ELECTRICAL SHOCK, DISCONNECT THE AC CORD AND THE BATTERY BEFORE SERVICING.

CAUTION:

FOR A COMPLETE ELECTRICAL DISCONNECTION, PULL OUT THE MAIN PLUG AND THE BATTERY.

VORSICHT:

UM DIE STROMZUFUHR VOLLSTÄNDIG ZU UNTERBRECHEN, DEN NETZSTECKER HERAUSZIEHEN UND DIE BATTERIE ÈNTFERNEN.

ATTENTION:

POUR UN ARRET TOTAL DU SYSTEME, DECONNECTEZ LA PRISE DE COURANT SECTEUR ET LA BATTERIE.

VARNING:

FÖR TOTAL ELEKTRISK URKOPPLING, KOPPLA UR KONTAKTEN OCH TA UR BATTERIET.

PRECAUCION:

PARA UNA COMPLETA DESCONEXION ELECTRICA DESENCHUFE LA CLAVIJA DE LA RED Y LA BATERIA.

Safety Precautions

General

- Follow all cautions and instructions, which may be marked, on your computer.
- Except as described elsewhere in this manual, refer all servicing to qualified personnel. Immediately shut off your computer and seek servicing under the following conditions:
 - when the power cord or plug is damaged or frayed
 - when liquid is spilled on your computer
 - when your computer has been dropped or the cabinet has been damaged

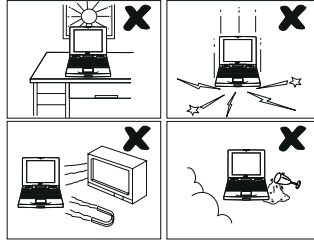
Location

- Do not expose your computer to direct sunlight.
- Try to avoid dusty environments.
- Keep your computer away from any magnetic devices and TVs.
- Keep your computer away from excessive humidity or fluids such as rain, snow, water spray, juice, coffee, steam, etc.
- Do not move your computer from an extremely cold place to an extremely warm place. A temperature difference of more than 10°C (18°F) will cause condensation inside the unit, which may cause damage.
- Do not block or cover slots or openings on the cabinet. They protect your computer from overheating.
- Do not place your computer on an unstable or uneven work surface.
- Care should be exercised when using on heat sensitive surfaces or your lap as the base of your computer will get hot.
- Do not use your computer on your lap or any part of your body for an extended period during operation or charging to avoid injury from heat exposure.

Usage

- Never push any kinds of objects into cabinet openings. They may touch dangerous voltage points or short parts that could result in fire or electrical shock.
- Turn off your computer before installing or removing any peripheral devices except when connecting USB devices, an IEEE1394 device, a PC card, etc.
- Check the AC power cord and power connectors periodically for damage. Change the power cord immediately if damage is found.

- Never subject your computer to sudden shocks or extreme vibration.
- Do not drop your computer nor hit it with other equipment.
- Do not scratch the surface of the LCD screen.
- Turn off your computer and disconnect the AC power cord before cleaning.



Battery Pack Precautions

CAUTION

DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

Handling

- Never put the battery pack in a fire, as it could explode and cause injury.
- Do not attempt to open or alter the battery pack.
- Do not place the battery pack where it might get hotter than 60°C (140°F).
- The battery pack must be kept from metal objects such as jewelry and liquids. They might trigger a short circuit and consequently cause the battery pack to heat up and explode.
- Do not allow liquids to come in contact with the battery pack.
- Care must be taken not to drop the pack. A violent shock damages the pack.
- Do not solder anything to the battery terminals.

Charging

- Charge the battery pack only with the AC adapter and AC power cord included with your computer.

Discharging

- Do not use the battery pack for any other purpose than powering your computer.

Storage

- Store the battery pack in a cool and dry place. Do not store it at temperatures above 60°C (140°F).
- Recharge the stored battery pack, before using it.

Modem Precautions

IMPORTANT SAFETY INSTRUCTIONS

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the followings:

- Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
- Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
- Do not use the telephone to report a gas leak in the vicinity of the leak.
- Never install telephone wiring during a lightning storm.
- Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
- Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- Use caution when installing or modifying telephone lines.

Wireless LAN Precautions

- Disable the integrated antennas and do not communicate with wireless LAN in specific environment where radio-susceptible equipment is nearby such as on airplanes, in hospitals, etc.
- Do not communicate with wireless LAN in the following environment:
 - where radio-frequency generating devices are nearby such as microwaves, wireless applications, etc.
 - where metallic materials are nearby such as steel cabinets, etc.

About This Manual

Notice

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Edition

1st Edition, July 2003.

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Recording Important Information

For future reference, please record the following information in the spaces provided below.

Model Number:

Serial Number:

Date of purchase:

Dealer's Name:

Place of purchase:

Password:

The serial number is printed on a sticker located on the bottom of your computer.

Manual Conventions

This manual uses a set of style conventions described below.

Notes and Cautions are italicized with icons:



A note icon informs you of a special technique or information that may help you perform a task or better understand a process.



A caution icon alerts you to something that may cause problems or damage to hardware, software or data.

Key Labels on the Keyboard, when referred to in the instructions, are shown in boldface:

Press **Enter** to continue.

When two or more keys are pressed simultaneously, the key labels are separated by a plus (+) sign:

Restart your computer by pressing **Ctrl+Alt+Delete**.

Sample Entries are shown in lower cases of different typeface.

`c:/windows/system`

Words/Texts on Screen, such as window titles or possible parameters, are italicized:

Double-click this icon to display the *Power Properties* window.

Set the item to *Enabled*.

Screens reproduced in this manual may differ slightly from the screens you see on your computer.

Section Titles in other parts of this manual are italicized:

Refer to *Installing Battery Pack* section of Chapter 1.

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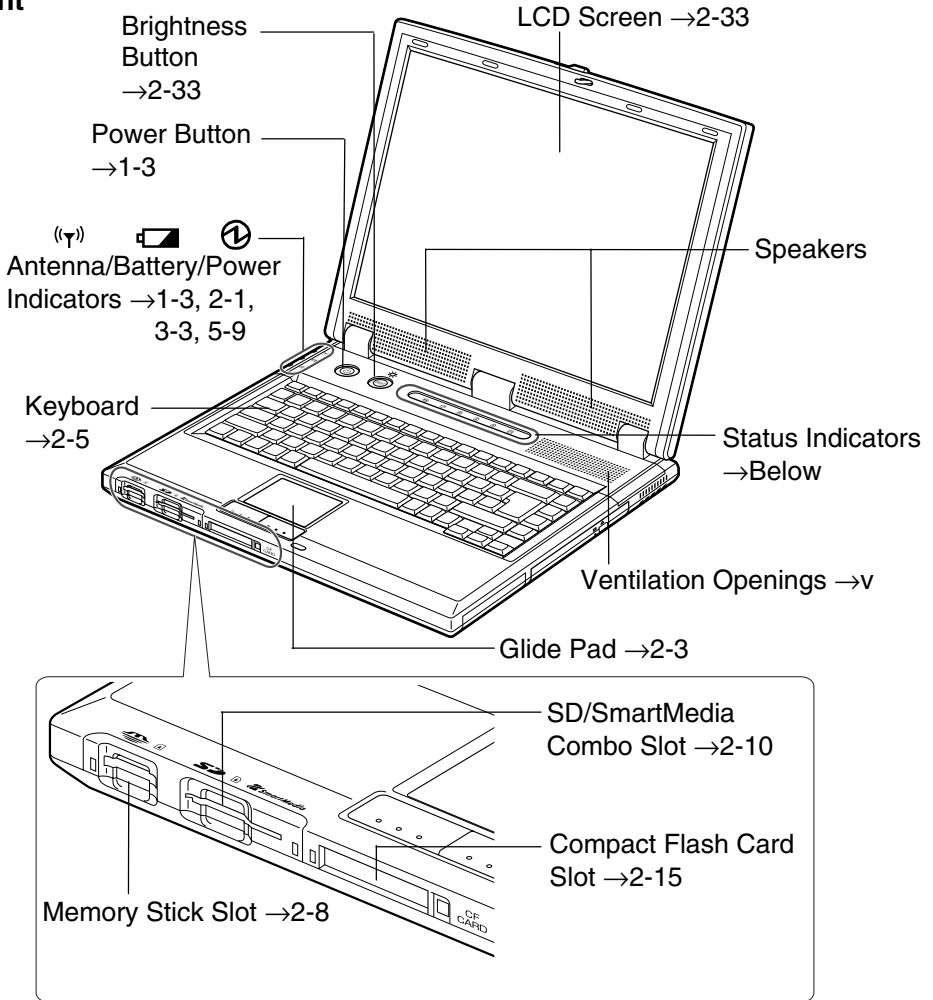
Troubleshooting

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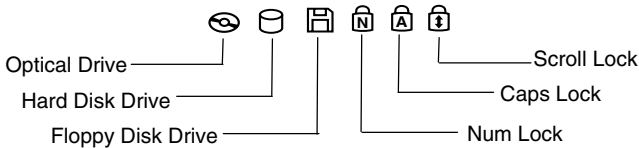
Overview of Computer

Each number after an arrow indicates the page referring to the part. Actual appearance of your computer may be slightly different depending on the model.

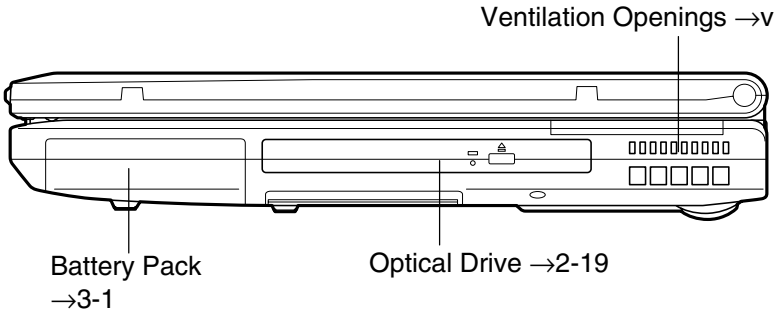
Front



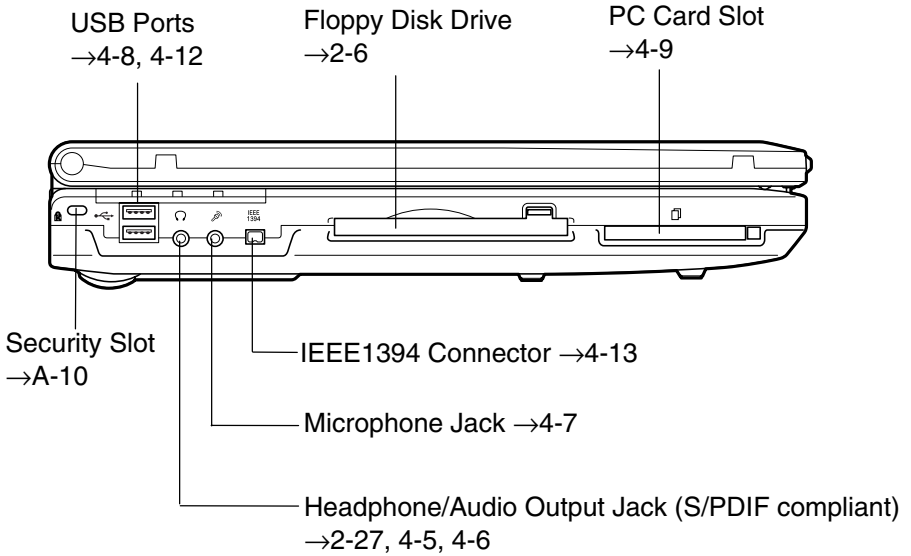
Status Indicators



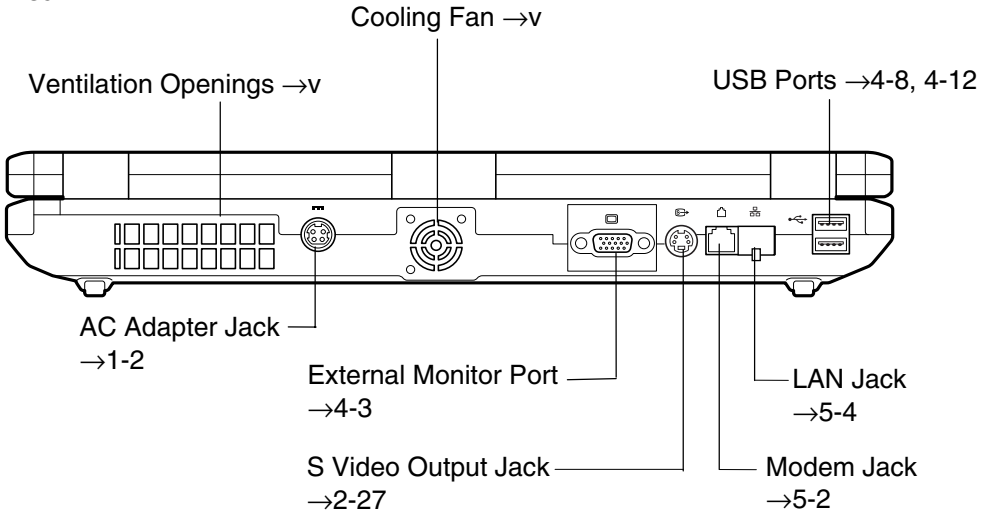
Right



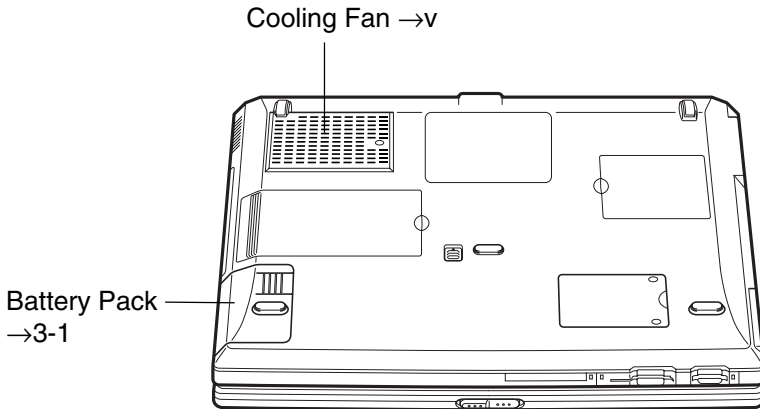
Left



Rear



Bottom



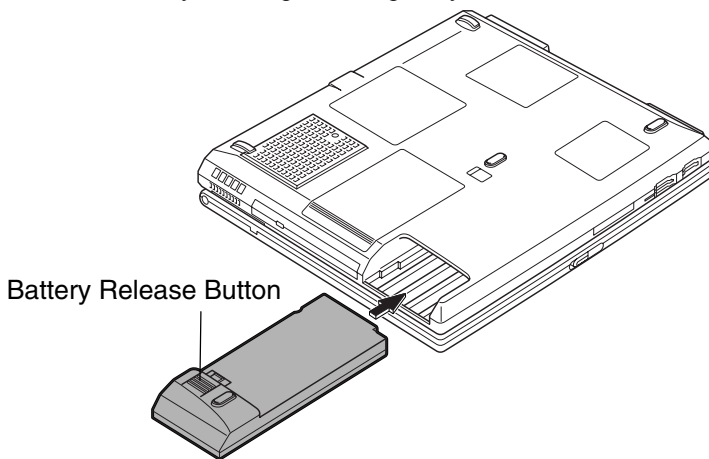
Quick Setup

Your computer is designed and pre-configured for easy setup and use. This chapter describes the steps to set up and run your computer as quickly as possible. Read this chapter first.

Installing Battery Pack

Your computer is powered with either the rechargeable battery pack or AC power source. See the next chapter for more information on the power sources. Before starting to use your computer for the first time, follow these instructions.

1. Place your computer with the bottom up on a stable work surface.
2. Hold the provided battery pack with the battery release button side up and put it in the socket of your computer completely.



Make sure that you put in the battery pack completely until you hear the clicking sound.

3. Turn your computer over and go to the next section.

Connecting to AC Power Source



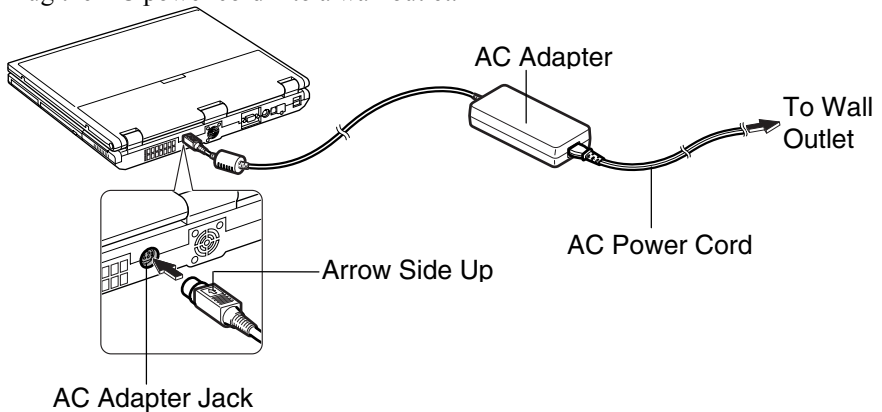
- Always use the AC adapter and AC power cord included with your computer. Using others may damage your computer.
- Always hold the AC power cord by the plug when removing it from the wall outlet. Never pull on the cord.
- Never plug in and out the AC power cord with your wet hands.
- When using your computer for the first time, be sure to operate it on AC power. On battery power instead, you may not be able to complete the Windows setup if the battery does not have enough power.

1. Plug the AC adapter cable with the arrow side up into the AC adapter jack on the rear side of your computer.

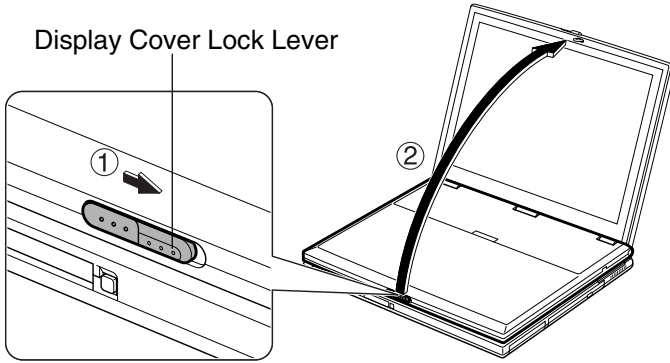


Be sure to set the arrow side up when plugging the AC adapter cable into the AC adapter jack.

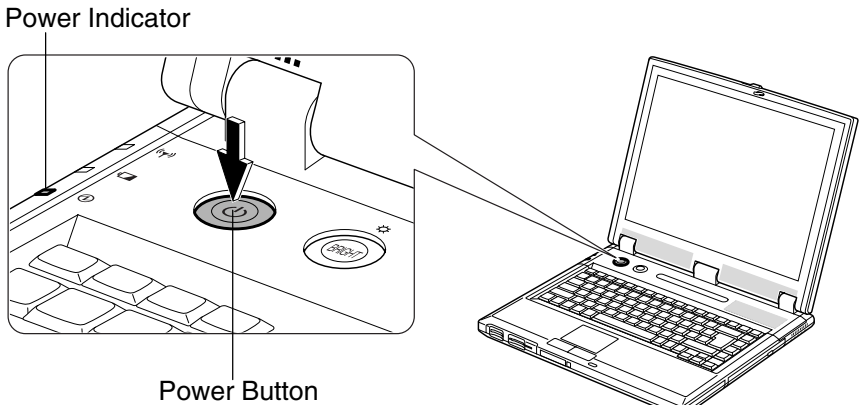
2. Plug the AC power cord into the AC adapter.
3. Plug the AC power cord into a wall outlet.



- Slide the display cover lock lever to the right until the display cover releases, and raise the cover.



- Press the power button to turn on your computer.



When you turn on your computer, the power indicator (⏻) turns green, your computer goes through a self test to detect any problems, and Windows setup process starts. See the next page.



The power button also lights green when your computer is powered on.

Setting Up Windows

To set up Windows, follow the instructions on the screen. See also the Windows quick start guide. It takes approximately 5-10 minutes to complete the entire setup process. The steps in the setup process are as follows:

- Configuring your location, language and keyboard type
- Configuring your time zone
- Accepting license agreement
- Naming your computer
- Creating an account
- Completing configuration




- *Do not turn off your computer until completing the Windows setup. If you turn it off, you may not be able to setup Windows later.*
- *Be sure to connect your computer to AC power source. An undercharged battery may not be able to complete the Windows setup.*
- *Do not connect any peripheral devices to your computer until the Windows setup is completed. Otherwise your computer may malfunction.*



- *If the display turns off, some power management may function. In this case, press any key to resume your computer from the power management. (Refer to Power Management section of Chapter 3.)*
- *If you cannot operate the keyboard or the glide pad, press the power button for more than four seconds to turn off your computer. Be sure that the power indicator turns off; then, after more than 10 seconds, press the power button to turn on your computer again.*

After completing the Windows setup:

- Confirm *Time Zone* is correctly selected and set the date and time by double-clicking the time appearing on the right of the taskbar to open *Date and Time Properties* dialog box.
- Press **Fn+F1** () keys to activate the integrated antennas for Wireless LAN communication.

Properties Dialog Box on Windows

In this manual, you will often see the expression “XXX Properties dialog box.” The dialog box is a window containing text boxes, check boxes, buttons, etc., with which you can send commands to Windows or other applications. To open the properties dialog boxes, click *start - Control Panel*. The *Control Panel* has two types of views: *Category View* and *Classic View*. The *Category View* allows you to choose the category that may be related to what you want to do, then, choose your task by clicking it. The *Classic View* gives you the icons representing their components or features. Double-click one of the icons to open its dialog box or window. Some of the dialog boxes you will often use are:

- Display
- Phone and Modem Options
- Mouse
- Power Options
- System



Clicking Switch to XXX View string appearing at the upper left of the Control Panel window allows you to toggle between the two views.

Turning Off Your Computer

When you've finished using your computer, turn it off with one of the following steps:

- From the *start* menu
 1. Click *start - Turn Off Computer*.
 2. In the *Turn off computer* dialog box, select *Turn Off*.
- With the power button

Before using this step, confirm that the power button is enabled to shut down your computer. Follow these instructions.

 1. Open *Power Options Properties* dialog box. Select *Advanced* tab.
 2. Confirm that *Shut down* is selected in the pull-down menu of *When I press the power button on my computer*.

Close the display cover to keep the screen and keyboard clean and protected.



If you have not saved data, a dialog box will appear asking whether you want to save it.



- *Do not turn off or reset your computer when:*
 - *The hard disk, the floppy disk drive or optical drive indicator is lit.*
 - *The Memory Stick, Compact Flash Card or SD/SmartMedia combo slot indicator is blinking.*

Otherwise, the data may be damaged or even wiped out.
 - *After turning off your computer you need to wait at least ten seconds before turning it back on. Turning the power off and on in rapid succession can damage your computer's electrical circuitry.*
-

Basic Operations

This chapter describes the basic operations of your computer.



Choosing Power Source

You can use your computer with one of the following power sources:

- AC power from a wall outlet
Use AC power whenever possible; rely on the battery only when AC power is not available.
- Rechargeable battery
A rechargeable battery pack is supplied with your computer. See Chapter 3 for the battery information.

About Power Indicators

The following indicators show the power status of your computer.

Indicator	Light	Meaning	
Power 	On (green)	Operating	
	Blinking (green)	In System Standby	
	Off	Powered off / in System Hibernate	
Battery 	Connected to AC Power Source	On (green)	Fully charged
		On (orange)	Being charged
		Blinking (orange)	In abnormal state. Remove the battery pack and install it again. (See Chapter 3)
	Powered by Battery	Off	Has power
		Blinking (red)	Almost completely discharged (The warning beep sounds)

The battery indicator is always off when your computer is turned off and not connected to AC power source.



- *When the battery is hot, the battery indicator may turn off and stay off until the battery becomes cool. (See Charging Battery Pack section of Chapter 3 for more information.)*
- *For more information on System standby/hibernate, see Chapter 3.*

Using AC Adapter

When connected to a wall outlet, the AC adapter provides power for operation and charges the battery pack. The AC input voltage can range from 100 to 240 volts so that you can use your computer with the appropriate plug adapter.



The AC power cord included with your computer is appropriate for the voltage used in the area in which you purchased your computer. If you attempt to connect your computer to a wall outlet in other areas, check the voltage of the outlet and use an AC power cord appropriate for the outlet. Consult local service staff if you are not sure.

Resetting System

You may need to restart the system if your computer becomes inoperable or after adding a new hardware or software.



Resetting may cause data loss. Use the resetting process only if the normal Windows Shut Down does not work because of software malfunction. Although resetting will not damage the system, you may lose the data you are processing.

Warm Boot (Software Reset)

If the system is locked up because of a software problem, you can reset or reboot the system by pressing **Ctrl+Alt+Del** keys simultaneously and select *Applications* tab of *Windows Task Manager* dialog box. Click the name of the program hanging up, then, *End Task*. If this does not work, select *Users* tab and click *Disconnect* or *Logoff*, then, *Yes*.

Pressing Power Switch

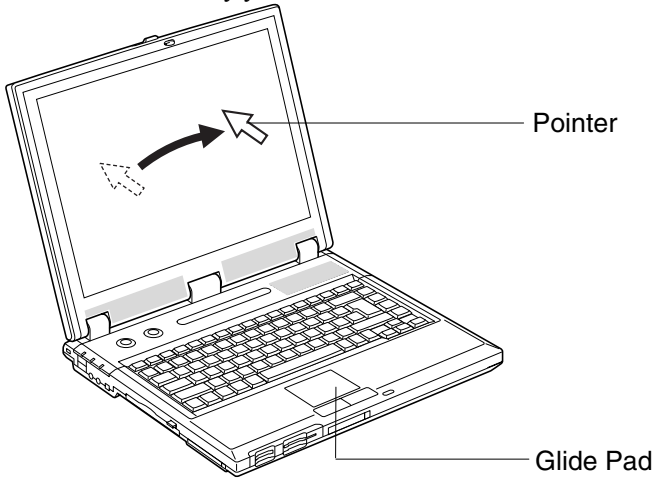
You can turn off your computer by pressing the power button if you encounter hardware or software problems locking up the system. In this case, press the power button for more than four seconds.

Removing AC Adapter and Battery Pack

If pressing the power button fails to turn off your computer, remove the AC adapter, then, the battery pack. Ten seconds later, reinstall the battery pack, connect the AC adapter and then, turn on your computer.

Using Glide Pad

Your computer is equipped with an integrated pointing device called glide pad. Using the glide pad, you can move the pointer, select an item from a menu and perform other tasks in the same way you would with a mouse.



- Do not hit or scratch the surface of the glide pad with pointed objects (such as a ballpoint pen).
- Do not operate the glide pad with a moist finger. This may cause the glide pad to operate incorrectly.



Enabling Glide Pad

When a USB mouse is connected to one of the USB ports of your computer, the glide pad is disabled, which means that your computer does not respond to any tapping on the pad. Therefore, conflict with the mouse and/or unexpected move of the pointer on the screen can be avoided.

To enable the glide pad, use one of the following ways.

- Disconnect the connected USB mouse. (No mouse must be connected.)
- With a USB mouse connected, open *Mouse Properties* dialog box, click *Device Settings* tab, *Enable* button and then, *OK*. (This operation allows your computer to always respond to the glide pad, while the connected USB mouse also works.)



When the glide pad is disabled, the pad icon () on the taskbar is crossed ().

Using Glide Pad

Take a moment to become familiar with how the glide pad works.

Place Your Fingertip

Place your left or right hand next to the glide pad, resting your wrist naturally in a relaxed manner. Place your thumb or finger on the glide pad.

Move Your Fingertip

The rectangular pad of the glide pad acts like a miniature duplicate of the display. As you slide your fingertip across the pad, the pointer on the screen moves in the same direction across the screen. The glide pad is very sensitive, so you do not have to exert much pressure on the pad. The glide pad responds to a light touch from your fingertip.

Click, Double-click, and Right-click

To click or double-click, you can use the left button just like that of a mouse. Instead of clicking the left button, you can also just tap gently anywhere on the rectangular pad. For right-clicking, you must use the right button.

Drag and Drop

You can move icons or windows by using “drag and drop” below:


1. Position the pointer over the object.
2. Press the left button; do not release it.
3. Holding down the button, move the pointer. The object moves together with the pointer.
4. Release the button when the object reaches its destination.

Or you can tap the pad twice instead of pressing the left button in the step 2.

Scroll

You can scroll through information in a list or in a document by using the glide pad. To view information vertically, place your finger on the most right part of the glide pad and slide your finger up and down. To view horizontally, place your finger on the bottom part of the glide pad and slide your finger to the left or the right. This procedure works only in limited applications.

Changing Configuration

In the *Mouse Properties* dialog box, you can change the configuration of the glide pad, such as swapping left and right buttons, changing the pointer size, etc. Double-click the pad icon () on the taskbar to open the *Mouse Properties* dialog box.

Using Keyboard

Your computer, equipped with the Windows enhanced keyboard, provides all the functionality of a full-sized desktop keyboard.

Special Keys













Windows Key Opens the Windows *start* menu.



Application Key Opens an application-specific short-cut menu.
Equivalent to right-clicking.

System Function Keys

When pressed together with the **Fn** key, function keys set specific system parameters. This combination is sometimes referred to as “hot keys”.

- Fn + F1 () Turns the wireless LAN antennas on and off
- Fn + F3 () Decreases the audio volume
- Fn + F4 () Increases the audio volume
- Fn + F5 () Rotates display mode between the LCD only, an external monitor only, and both (when connecting an external monitor)
- Fn + F6 () Decreases the LCD screen brightness
- Fn + F7 () Increases the LCD screen brightness
- Fn + F8 () Maximizes the LCD screen brightness
Returns to the previous status when pressed again
- Fn + F10 () Stops the battery warning beep (This key combination does not work for Windows battery warning beep)
- Fn + F11 () Turns the LCD screen on and off
- Fn + F12 () Forces your computer into System standby/System hibernate/Shut down
(See *Power Management* of Chapter 3 for more information.)

Using Floppy Disk Drive

Your computer supports a double-density (2DD) 720KB or high-density (2HD) 1.44MB floppy disk.

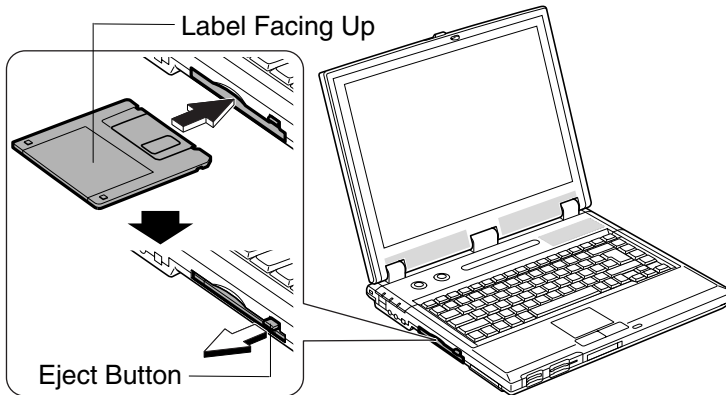
Handling Floppy Disk

- Do not open the shutter and touch the disk inside; otherwise, you will not be able to read or write data from/to the disk.
- Do not place floppy disks near magnets or heat source, in direct sunlight or in a dusty place, etc.
- Never subject floppy disks to sudden shocks or extreme vibration. Do not drop or bend them, or place heavy objects on them.
- Do not spill liquid onto floppy disks.

Inserting and Ejecting Floppy Disk

Inserting

Put the floppy disk with the label facing up into the drive so that it will lock into place. When the disk is correctly inserted, the eject button pops out.



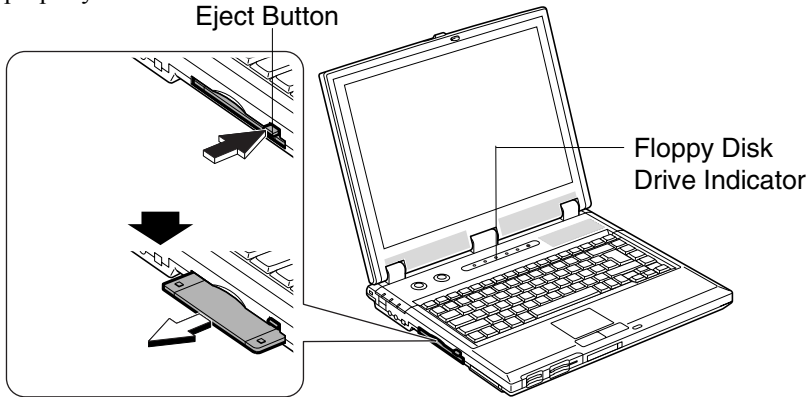
- *Always insert a floppy disk straight into the floppy disk drive.*
 - *When inserting a disk, make sure it is not upside down.*
 - *Do not use excessive force when inserting a floppy disk. If you have difficulty inserting or removing it, seek the assistance of an authorized service technician.*
 - *Do not touch the disk while reading/writing data. It may cause malfunction of your computer and the drive.*
-

Ejecting



Before removing the floppy disk, make sure the floppy disk drive indicator is not lit.

Press the eject button firmly. The disk pops out slightly. Remove it and store it properly.



Formatting Floppy Disk

1. Make sure the floppy disk is not write-protected, and insert it into the floppy disk drive.
2. Click *start - My Computer*.
3. Right-click *3 1/2 Floppy (A:)* icon; then, click *Format...* from the pop-up menu.
4. Select the appropriate formatting options.
5. Click *Start* to start formatting.



- *When you format a floppy disk that already contains data, all of the data stored on the disk will be lost.*
- *You cannot format a double-density (2DD) 720KB floppy disk.*

Using Memory Stick Slot

Your computer is equipped with the Memory Stick slot. Available card sizes are 16MB, 32MB, 64MB and 128MB.



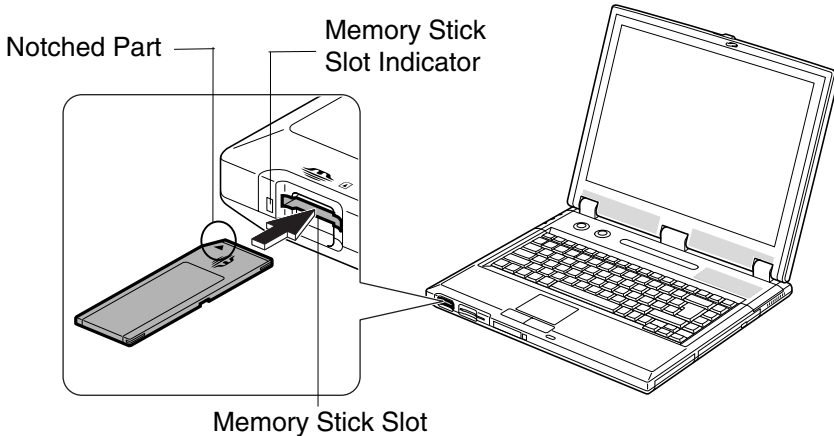
- *Your computer support 16MB Memory Stick Duo card. (requiring an adapter)*
- *Memory Stick PRO is not available for your computer.*
- *You cannot read/write any copy-protected data from/into a Memory Stick with built-in copyright protection technology compliant with the OpenMG specification.*
- *Be sure to use a Memory Stick or Memory Stick Duo formatted by the device with which you intend to use the card.*
- *Make sure to log on your computer as a member of the Computer administrators group. Otherwise you cannot remove the card safely and correctly.*

Inserting



You can insert a Memory Stick without turning off your computer.

Insert a Memory Stick into the slot with the notched part toward the left so that it will lock into place. When the card is inserted correctly, the Memory Stick slot indicator lights green and it is ready for reading or writing.





Make sure to insert the card with the notched part toward the left. Otherwise, the card and your computer may be damaged.

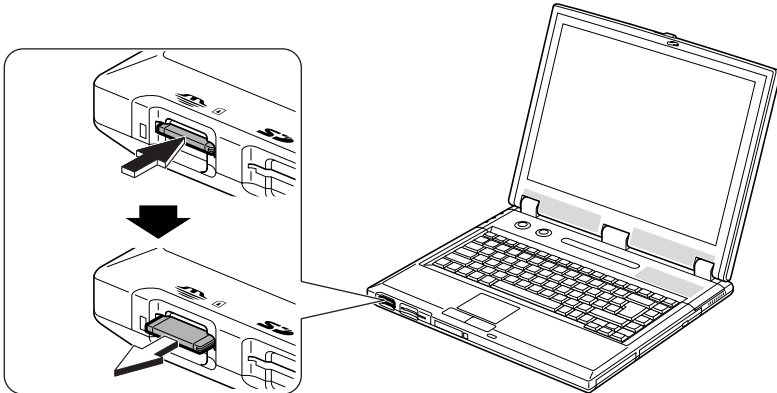
If the dialog box asking you *What do you want Windows to do?* appears, select the task you want.

Ejecting



- *Do not turn off your computer or eject a Memory Stick when the Memory Stick slot indicator is blinking. Otherwise, the Memory Stick or the data may be damaged.*
- *Be sure to follow the instructions below when ejecting the Memory Stick. Otherwise, the system may not work properly.*

1. Click *start – My Computer*.
2. Right-click the icon of Memory Stick drive; then, click *Eject*. The Memory Stick slot indicator turns off.
3. Push the card into your computer and release it. It will pop out slightly.



Confirm the indicator lights off before ejecting the Memory Stick.

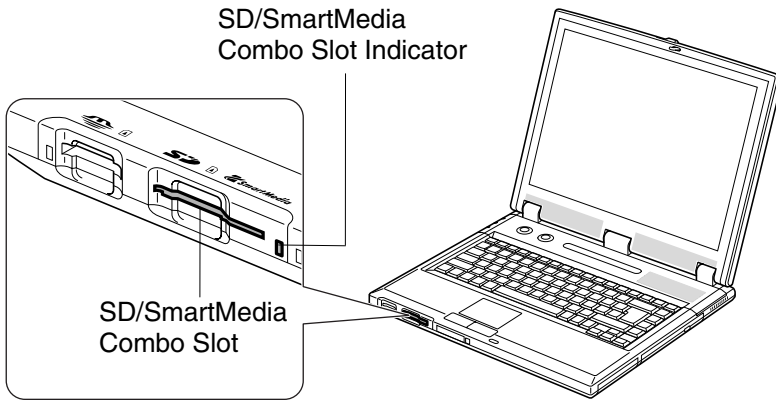
4. Gently pull out the card.
5. Close the *My Computer* window.

Using SD/SmartMedia Combo Slot

Your computer is equipped with the SD/SmartMedia combo slot.



You cannot use a SD memory card and a SmartMedia simultaneously.



Inserting and Ejecting SD Memory Card

Available card sizes are 8MB, 16MB, 32MB, 64MB, 128MB, 256MB and 512MB.



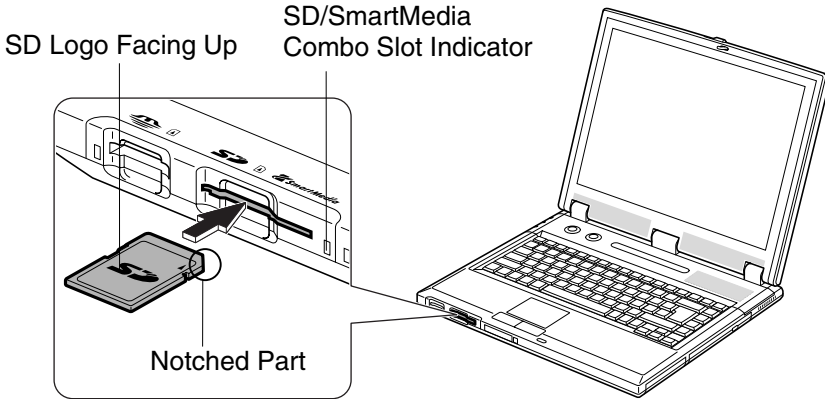
- *Your computer does not support SD I/O cards.*
- *Your SD/SmartMedia Combo slot does not support multimedia cards. Do not insert a multimedia card. Otherwise, you may have troubles in ejecting it and your computer may be damaged.*
- *You cannot read/write any copy-protected data from/into a SD memory card with built-in copyright protection technology compliant with the SDMI specification.*
- *Be sure to use a SD memory card formatted by the device with which you intend to use the card.*
- *Make sure to log on your computer as a member of the Computer administrators group. Otherwise you cannot remove the card safely and correctly.*

Inserting



You can insert a SD memory card without turning off your computer.

Insert a SD memory card into the slot with the SD logo faced up and the notched part toward the right so that it will lock into place. When the card inserted correctly, the SD/SmartMedia combo slot indicator lights green and it is ready for reading or writing.



Make sure to insert the card with the SD logo faced up and the notched part toward the right. Otherwise, the card and your computer may be damaged.

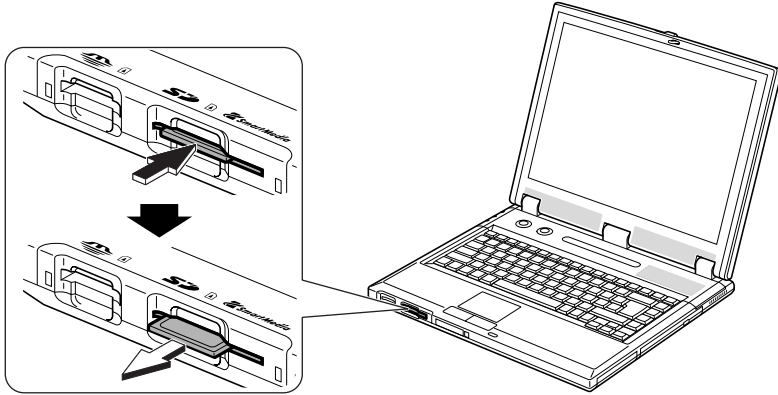
If the dialog box asking you *What do you want Windows to do?* appears, select the task you want.

Ejecting



- *Be sure to follow the instructions below when ejecting a SD memory card. Otherwise, the system may not work properly.*
- *Do not turn off your computer or eject a SD memory card when the SD/SmartMedia combo slot indicator is blinking. Otherwise, the SD memory card and/or data may be damaged.*

1. Click *start – My Computer*.
2. Right-click the icon of SD drive; then, click *Eject*. The SD card/SmartMedia combo slot indicator turns off.
3. Push the card into your computer and release it. It will slightly pop out.



Confirm the indicator lights off before ejecting the SD memory card.

4. Gently pull out the card.
5. Close the *My Computer* window.

Inserting and Ejecting SmartMedia Card

The SD/SmartMedia combo slot accommodates 3.3V SmartMedia card. Available card sizes are 16MB, 32MB, 64MB and 128MB.



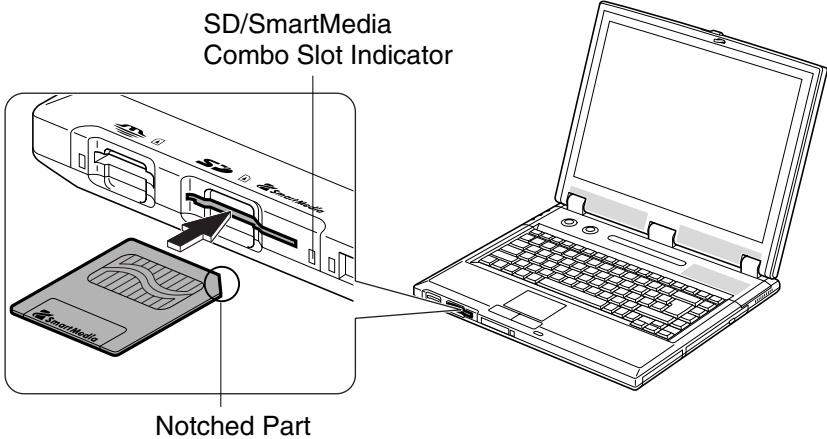
- *Your computer supports only a 3.3V SmartMedia. You cannot use a 5V card with your computer.*
- *Be sure to use a SmartMedia card formatted by the device with which you intend to use the card.*
- *Make sure to log on your computer as a member of the Computer administrators group. Otherwise you cannot remove the card safely and correctly.*

Inserting



You can insert a SmartMedia card without turning off your computer.

Insert a SmartMedia card into the slot with the notched part toward the right. When the card is inserted correctly, the SD/SmartMedia combo slot indicator lights green and it is ready for reading or writing.



Make sure to insert the card with the notched part toward the right. Otherwise, the card and your computer may be damaged.

If the dialog box asking you *What do you want Windows to do?* appears, select the task you want.

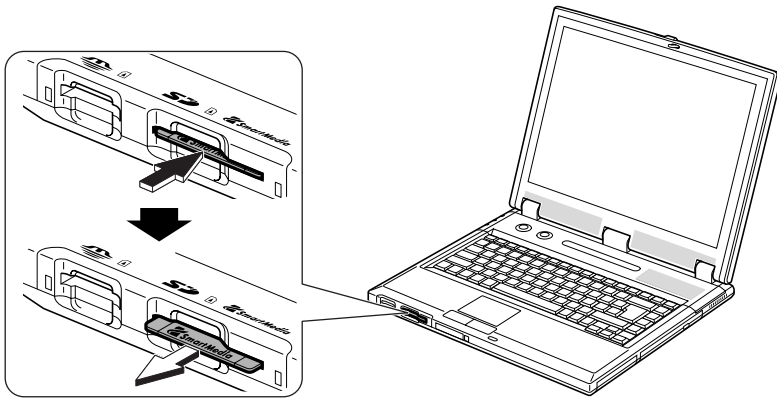
Ejecting



- *Do not turn off your computer or eject a SmartMedia card when the SD/SmartMedia combo slot indicator is blinking. Otherwise, the SmartMedia card and/or data may be damaged.*
- *Be sure to follow the instructions below when ejecting a SmartMedia card. Otherwise, the system may not work properly.*

1. Click *start – My computer*.
2. Right-click the icon of SmartMedia drive; then, click *Eject*. The SD card/SmartMedia combo slot indicator turns off.

3. Push the card into your computer and release it. It will slightly pop out.



Confirm the indicator lights off before ejecting the SmartMedia card.

4. Gently pull out the card.
5. Close the *My Computer* window.

Using Compact Flash Card Slot

Your computer is equipped with the compact flash card slot supporting Type I and Type II Compact Flash cards. Available card sizes are 32 MB to 1GB.



- *Your computer does not support Compact Flash I/O cards.*
- *Make sure to log on your computer as a member of the Computer administrators group. Otherwise you cannot remove the card safely and correctly.*

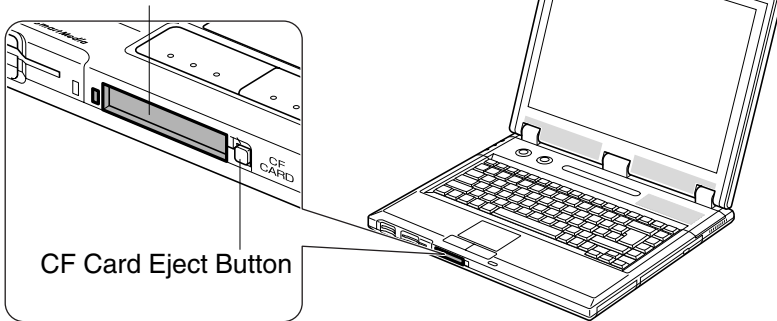
Inserting



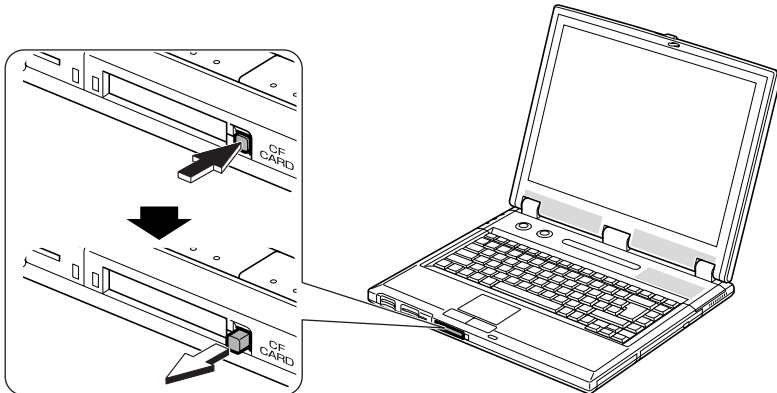
You can insert a Compact Flash card without turning off your computer.

1. Confirm the CF card eject button is inside your computer cabinet.

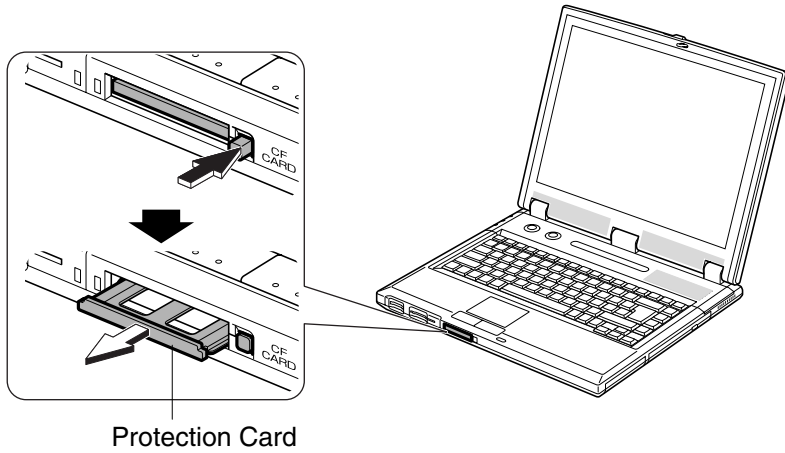
Compact Flash Card Slot



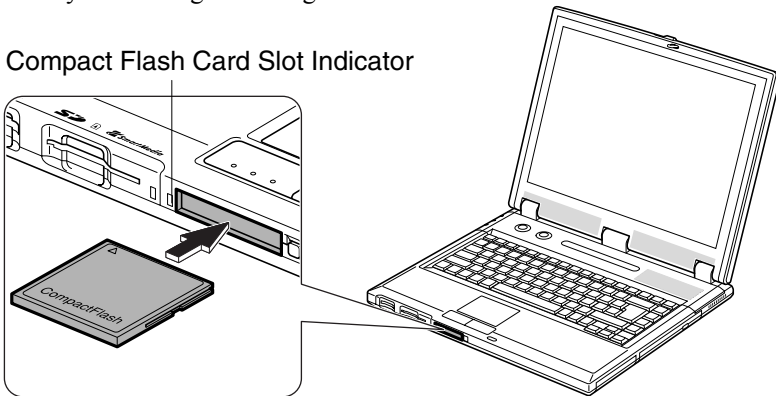
2. Push the CF card eject button and release it, so that it will pop out.



3. Push the CF card eject button again until the protection card comes out. Remove the protection card.



4. Confirm the CF card eject button is inside the cabinet. If not, push it all the way inside the cabinet for safekeeping.
5. Insert a Compact Flash card into the slot as shown below. When the card is inserted correctly, the compact flash card slot indicator lights green and it is ready for reading or writing.



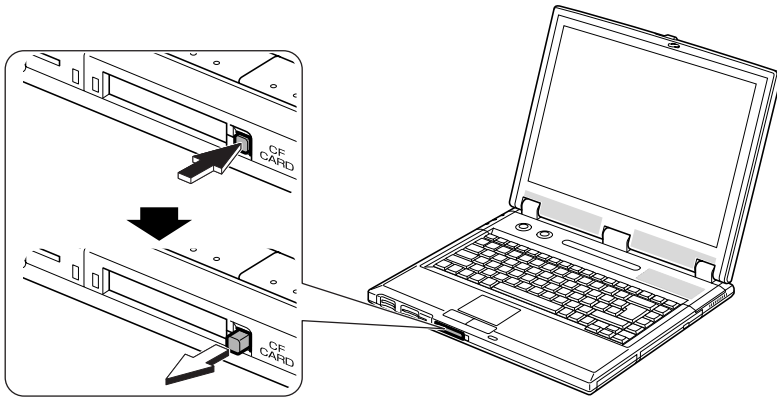
If the dialog box asking you *What do you want Windows to do?* appears, select the task you want.

Ejecting

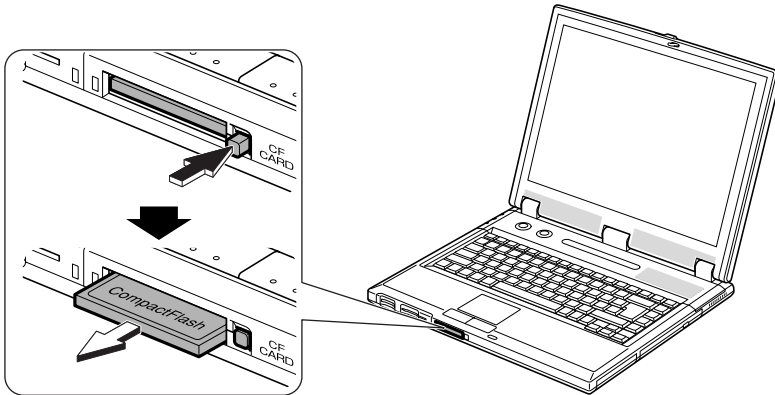


- Do not turn off your computer or eject the Compact Flash card when the compact flash card slot indicator is blinking. Otherwise, the Compact Flash card and/or the data may be damaged.
- Be sure to follow the instructions below when ejecting a Compact Flash card. Otherwise, the system may not work properly.

1. Click *start – My Computer*.
2. Right-click the icon of Compact Flash drive; then, click *Eject*. The Compact Flash card slot indicator turns off.
3. Push the CF card eject button and release it, so that it will pop out.



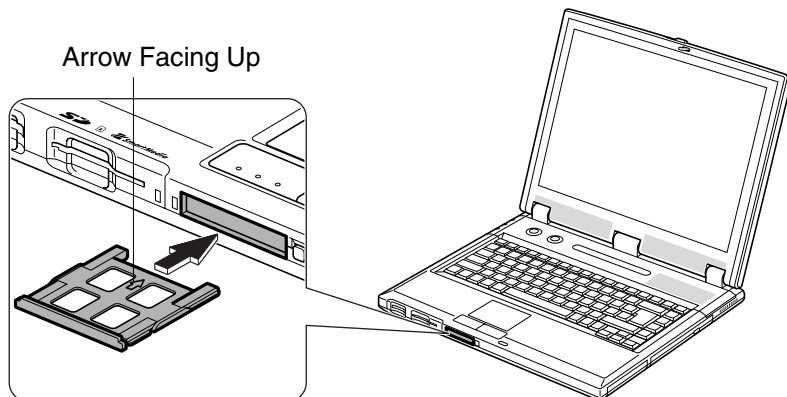
4. Push the CF card eject button until the CF card pops out. Remove the card.





Confirm the indicator lights off before ejecting the Compact Flash card.

5. Confirm the CF card eject button is inside the cabinet. If not, push it all the way inside the cabinet for safekeeping.
6. Insert the protection card, with the arrow faced up, into the slot.



Be sure to insert the protection card to protect the CF card slot from being damaged after you finish using the Compact Flash card slot.

7. Close the *My Computer* window.

Using Optical Drive

Your computer is equipped with an optical drive allowing you to read from DVD and CD and write onto DVD-R/-RW/-RAM as well as CD-R/-RW.



CAUTION FOR LASER

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. Maximum output and wavelength of the laser: 90mW, 785nm(CD-R/RW) 36mW, 662nm(DVD-R/RW/RAM)



Supported Media

Disc Type	DVD-R/RW/RAM & CD-R/RW Drive		
	Reading	Writing	Rewriting
CD-ROM	Yes	No	No
CD-R*	Yes	Yes	No
CD-RW	Yes	Yes	Yes
High Speed CD-RW	Yes	Yes	Yes
Ultra Speed CD-RW	Yes	No	No
DVD-ROM / DVD-VIDEO	Yes	No	No
DVD-R*	Yes	Yes	No
DVD-RW	Yes	Yes	Yes
DVD+R / DVD+RW	Yes	No	No
DVD-RAM (2.6GB/5.2GB)	Yes	No	No
DVD-RAM (4.7GB/9.4GB)	Yes	Yes	Yes

* If free space remains, you can add data until the disc is full even after you write data once.



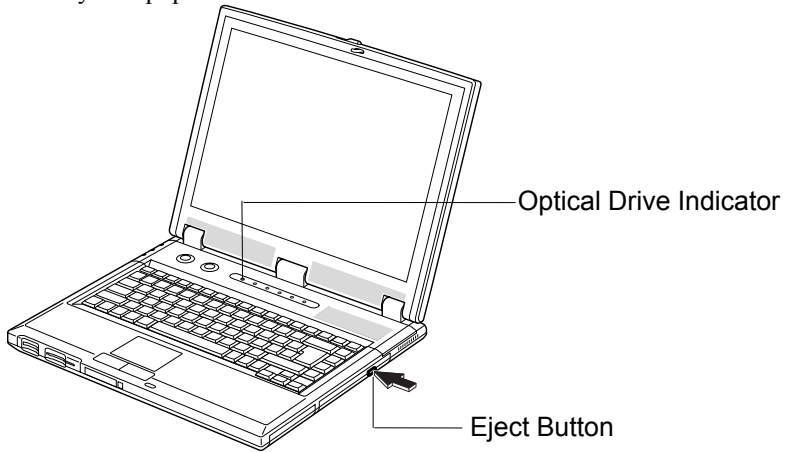
- Your computer support writing to DVD-R (General Ver.2.0), DVD-RW (Ver.1.1) or DVD-RAM (Ver.2.0/Ver.2.1).
- You cannot read/write data in VR format from/into DVD-RW.
- For DVD-RAM discs, your computer support non-cartridge discs or Type2/Type4 removable cartridge discs. When you use the removable disc, be sure to remove the cartridge from the media.
- A list of recommended media may be found on the Sharp Systems website (<http://www.sharpsystems.com>).

Handling Disc

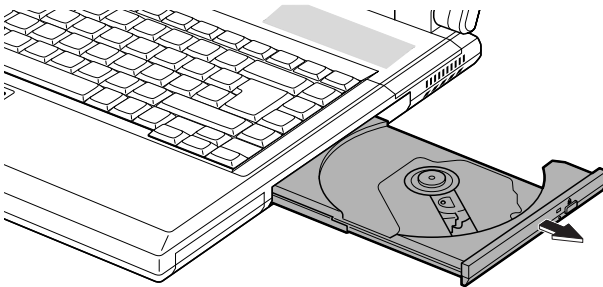
- Do not write on either side of the disc, particularly the non-label side. Data is read/write from/into the non-label side. Do not mark this surface.
- Keep your discs away from direct sunlight, heat and excessive moisture.
- Always hold the discs by the edges. Fingerprints, dirt or water on the discs can cause noise or mistracking. If a disc is dirty or does not play properly, clean it with a soft, dry cloth, wiping straight out from the center, along the radius.

Inserting Disc

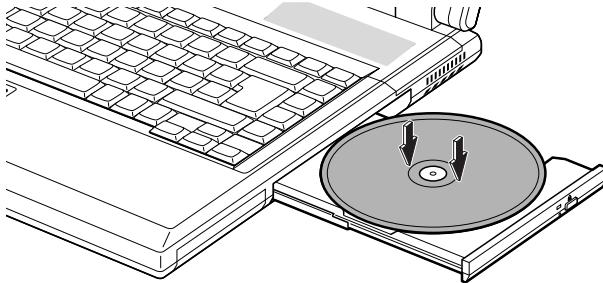
1. Make sure the optical drive indicator is not lit on; then, press the eject button. The drive tray will pop out.



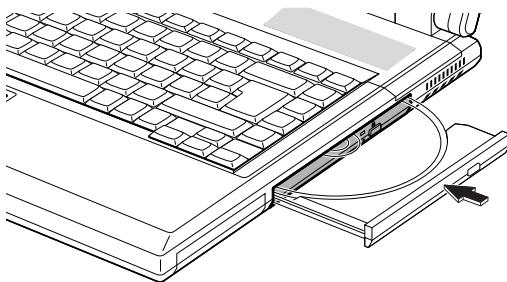
2. Gently pull out the tray.



- Place your disc, label side up, onto the tray and slightly press the center of the disc until it locks into place.



- Gently push the tray back into your computer.



- Do not leave the tray pulled out. Also, avoid touching the lens in the tray. If the lens becomes dirty, the disc may malfunction.
- Do not wipe the lens with materials with rough surface (such as paper towels). Instead, use a cotton swab to gently wipe the lens.

Removing Disc

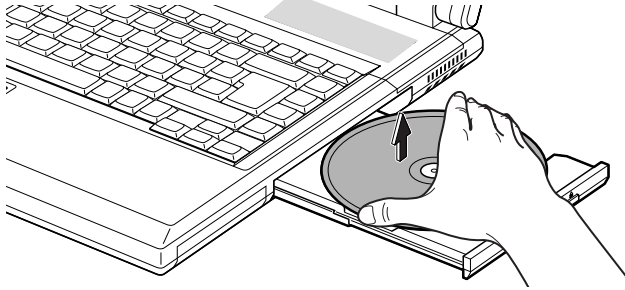
- Make sure the optical drive indicator is not lit and press the eject button. The optical drive tray will pop out.



Make sure the optical drive indicator is not lit before pressing the eject button.

- Gently pull out the tray.

3. Remove the disc from the tray by holding its edge.



4. Gently push the tray back into your computer.

Writing Data to Disc



- *Before writing to discs, follow the instructions below:*
 - *Connect the AC adapter. If the battery is discharged, writing process will stop and fail.*
 - *Disable the power management. See Power Management of Chapter 3.*
 - *Close all of the unnecessary or automatic start-up applications.*
 - *Disable the screen saver. (Refer to Changing Wallpaper and Setting Screen Saver section later in this chapter.)*
- *When copying data with an installed application, Drag'n Drop CD+DVD, the type of a destination media should be same as that of a source media.*
- *You cannot add data into audio CDs even if they are not full.*

Writing to CD-R or CD-RW

You can write data into CD-R or CD-RW discs. CD-RW is rewritable, meaning that you can write/erase data into/from the disc. CD-R is non-rewritable, meaning that you cannot erase written data. If free space remains, you can add data until the disc is full. To write data, use an application called Drag'n Drop CD+DVD or the Windows CD writing software on your computer.

- With the Drag'n Drop CD+DVD

To run the Drag'n Drop CD+DVD, click *start – All Programs – Drag'n Drop CD+DVD – Drag'n Drop CD+DVD*. (Refer to the online help of the Drag'n Drop CD+DVD for more information.)

- With the Windows CD writing software



Prior to using this software, you need to enable the CD writing function.

To enable the Window CD writing function:

1. Click *start – My Computer*.
2. Right-click *DVD-RAM Drive (E:)* and click *Properties*.
3. Click *Recording* tab and check the box of *Enable CD recording on this drive*.
4. Click *OK*.
5. Click *No* and close the window.

To write data:

1. Right-click a file or a folder to write into the CD and click *Send To – DVD-RAM Drive (E)*.
2. Insert a CD-R or a CD-RW into the optical drive.
3. Select *Open writable CD folder* and click *OK*. *CD Drive (E:)* window opens.
4. Confirm the file(s) or folder(s) to be written is displayed in *Files Ready to Be Written to the CD* field and then, click *Write theses files to CD* string of the *CD Writing Tasks* field. The *CD Writing Wizard* opens.
5. Type a *CD name* and click *Next*. Wait until the writing process is completed.



When the process is completed, the optical drive will open automatically.

6. Remove the disc and click *Finish*.

Writing to DVD-R or DVD-RW

You can write data into DVD-R or DVD-RW discs. DVD-RW is rewritable, meaning that you can write/erase data into/from the disc. DVD-R is non-rewritable, meaning that you cannot erase written data. If free space remains, you can add data until the disc is full.

Use Drag'n Drop CD+DVD to write data and MyDVD to create videos each installed on your computer.

To run the Drag'n Drop CD+DVD, click *start – All Programs – Drag'n Drop CD+DVD – Drag'n Drop CD+DVD*.

To run the MyDVD, click *start – All Programs – Sonic – MyDVD – Start MyDVD*.



- *You cannot add video images to your DVD video (DVD-R or DVD-RW) created using MyDVD even if it is not full.*
- *See the online help of Drag'n Drop CD+DVD or My DVD for details and other features.*

Writing to DVD-RAM

DVD-RAM can be used in the same manner as floppy discs or memory cards, meaning that you can record/update/remove data repeatedly. When you record image data on a DVD-RAM, use pre-installed software called DVD-MovieAlbumSE 3. (See the *Online Manual* of DVD-MovieAlbumSE 3 for details.)



- *You need to format a new DVD-RAM before using it. (Refer to the next section.)*
- *When you use the DVD-MovieAlbumSE 3 to record data, format a disc in Universal Disk Format (UDF2.0). (Refer to the next section.)*

Formatting DVD-RAM

Before using a new DVD-RAM, format it with these steps:

1. Insert a new DVD-RAM into the optical drive.
2. Click *start – My Computer*.
3. Right-click *DVD-RAM Drive (E:)*, then, select *Format...* from the pop-up menu.
4. Select an appropriate format type from the *Format Type* pull-down menu according to devices you will use with the DVD-RAM disc.



Refer to the followings to select a format type:

- *Universal Disk Format (UDF2.0) allows you to read data on Windows XP and Windows 2000. It is also compatible with DVD video recorders and supports video recording format. Choose this format when you use DVD-MovieAlbumSE 3 for recording image and playback it through a DVD video recorder.*
- *Universal Disk Format (UDF1.5) allows you to read data on Windows XP and Windows 2000.*
- *FAT32 allows you to read data on Windows Me and Windows 98 as well as Windows XP and Windows 2000.*

5. Click *Start*, then, *Yes*.
6. Click *OK*, then, *Close*.
7. Close the window.

Watching DVD Video

You can enjoy watching DVD videos on your computer using the application called WinDVD. See online help of WinDVD for more details.

To run the application, click *start – All Programs – InterVideo WinDVD4 - InterVideo WinDVD4*.



- *Before watching DVD videos, follow the instructions below:*
 - *Connect the AC adapter. If the battery is discharged, the operation will stop.*
 - *Disable the power management. See Power Management of Chapter 3.*
 - *Close all of the unnecessary or the automatic start-up applications.*
 - *Disable the screen saver. (Refer to Changing Wallpaper and Setting Screen Saver section later in this chapter.)*
- *When playing a DVD video, you may experience a picture with an irregular motion, or frame dropouts, depending on videos.*
- *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.*
(Apparatus Claims of U.S. Patent Nos. 4,631,603; 4,577,216, 4,819,098 and 4,907,093 licensed for limited viewing uses only.)



Make sure to remove the DVD video from the drive when you finish watching it. If you turn off your computer with the disc left in the drive, the drive may not be recognized when your computer is turned on again.

Changing Region Code

A DVD video has a region code which prevents playback of the disc in certain regions. The region code appears on the top of the disc. When shipped from the factory, your optical drive is set to a region code applicable to your area.



Your DVD drive region code can be changed. Code change is limited. Once the limit is reached, it cannot be changed any more. To confirm the limit, click Region tab of Setup dialog box and check the bottom line in the window. (Refer to Using Parental Control section on the next page to open the Setup dialog box.)



Make sure to log on your computer as a member of the Computer administrators group. Otherwise you cannot change the region code.

Available region codes are:

Region Code	Area
1	U.S.A, Canada
2	West Europe, Japan, South Africa
3	South East Asia (including Hong Kong)
4	Australia, Spanish America
5	Former Soviet Union, Indian Subcontinent, Africa
6	China

To change the region code:

1. Insert a DVD video into the drive.
If the region code of the DVD video is different from that of your drive, *Confirm Region* dialog box appears.
2. The region code currently selected is checked in the left box. Region code of your DVD video is checked in the right box. If you want to change the drive code and play the DVD video, click *OK*.



On some DVD videos, plural region codes are selectable in the right box of Confirm Region dialog box. Carefully choose an appropriate one.



When Confirm Region dialog box does not appear:

1. Click start - My Computer – View system information.
2. In System Properties dialog box, select Hardware tab and click Device Manager button.
3. In Device Manager dialog box, double-click DVD/CD-ROM drives string and MATSHITA xxxxxx. (xxxxxx is your optical drive name.)
4. Select DVD Region tab, choose the listed distribution area of the DVD video, then, confirm the region code shown in the New Region field is correct and click *OK*.
5. Read the message on the screen, then, click *OK*.
6. Click *OK* and close the dialog boxes.

Using Parental Control

If you want to set the parental control to prevent your children from watching an inappropriate movie, follow the steps below:

1. Run the *InterVideo WinDVD4*.
2. Right-click somewhere in the *InterVideo WinDVD4* window and click *Setup...*. *Setup* dialog box will appear.
3. In *Preferences* tab, click *Set Password* button in *Parental Playback Control* section.
4. Type your password and click *OK*.
5. Click *Set Rating* button and enter the password.
6. Select a control level and click *Set*.
7. Click *OK*. See online help of *WinDVD* for more details.

Displaying Video on TV Set

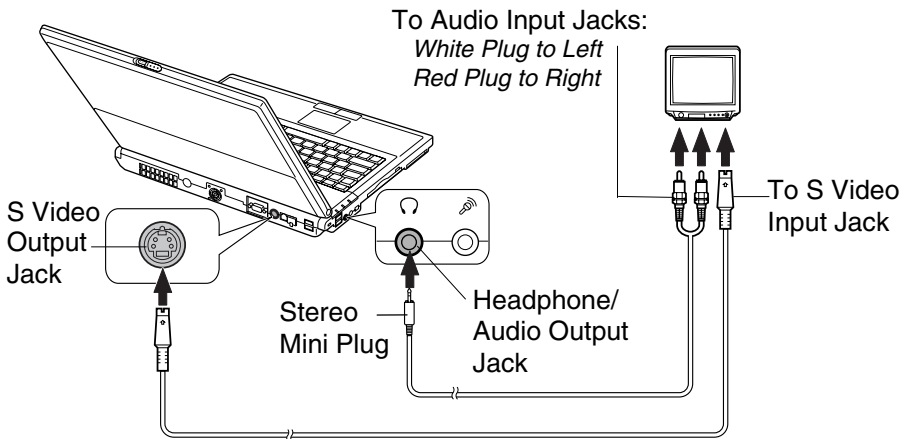
You can connect a television set with S-Video input to your computer and enjoy DVD video on a big display.



- *Before connecting the television set, disconnect the external monitor.*
- *Connect the television set to your computer directly. Otherwise, the screen may be distorted.*

When connecting your TV set:

1. Turn off your computer and the television set.
2. Connect the television set to your computer.



3. Turn on the television set, then, your computer.
4. Click *start – Control Panel*. Click *Appearance and Themes – Display* in Category view, or double-click *Display* icon in Classic view. *Display Properties* dialog box opens.
5. Click *Settings* tab - *Advanced* button.
6. Select *GeForce4 440 Go 64M* tab. A sub-panel will appear on the left.
7. Click *nView Display Mode* in the panel.
8. Click *Device Settings>>* button – *Select Output Device*.
9. Select *TV* and click *OK* twice.
10. If you can see the screen image on the television set, click *Yes*.
11. Click *OK* and close the *Display Properties* dialog box.



When you want to display the image on TV and the LCD display simultaneously, see Displaying the image on LCD and External Monitor section of Chapter 4.

When disconnecting your TV set:

1. Turn off your computer and the television set.
2. Disconnect the television set from your computer.



- *Before disconnecting the television set, be sure to turn off your computer and the television set.*
- *After disconnecting the television set, set back the display property. (Refer to Adjusting Display later in this chapter.)*

Enjoying Dolby Digital Audio


Your computer is Dolby Digital compliant. With Dolby Digital compliant audio equipment or headphones, you will have an audio output similar to a big theater. Follow the steps below. (Refer to *Audio System* of Chapter 4 for connection.)

1. In *Setup* dialog box, click *Audio* tab. (Refer to the steps in *Using Parental Control* section to open the *Setup* dialog box.)
2. Select *Digital (S/PDIF) out to External Processor*, then, click *OK*.



WinDVD allows you to enjoy virtual surround sound through your speakers or headphones. To enable this function, follow the steps on the next page.

When you use speakers:


1. Connect your speakers to your computer and click the subpanel button () and Audio Mode.



Subpanel Button

2. Select Speakers from the Listen on pull-down menu.
3. Click OFF button to enable this function. It turns ON.

When you use headphones:

1. Connect your headphones to your computer and click the subpanel button () and Audio Mode.
2. Select Headphones from the Listen on pull-down menu.
3. Click OFF button to enable this function. It turns ON.

Refer to the online help of WinDVD for more information.

Creating DVD Video

Your computer has DVD creating /editing software installed, called MyDVD (for DVD-R/-RW) and DVD-MovieAlbumSE 3 (for DVD-RAM). This section explains some programs of the two software, such as how to create your DVD video with MyDVD and how to create 3D titles, using DVD-MovieAlbumSE 3, in your video recorded by a DVD video recorder. For more information or other features, see *Help* for *MyDVD* or *Online Manual* for DVD-MovieAlbumSE 3.

Creating DVD Video

When you capture image from your video device through IEEE1394 connection or DV connection and create a DVD video, follow these instructions.

1. Turn on your video device.
2. Connect it to your computer. (Refer to *IEEE1394 Device* of Chapter 4.)
3. Select *Record Direct to DVD* in *Digital Video Device* window and click *OK*.



When the Digital Video Device window does not appear, follow these steps:

1. Click start – All Programs – Sonic – MyDVD – Start MyDVD.
2. In Sonic MyDVD window, confirm DVD-Video located on the left side is selected and click Transfer Video Direct-to-DVD™.

4. In *Sonic MyDVD Wizard* dialog box, type a project name in *Choose a name for your project* field.
5. Insert a new DVD-R into the optical drive and then, click *Next* button.
6. If necessary, change record settings, create chapter points, and/or set record length. (Refer to *Help* for details.)
7. Locate the section you want to record using the control buttons on the screen. (See *Help* for details of the control buttons.)
8. When you has located, click the red button of *Start Capturing*. Capturing will start.
9. When you stop the capture, click the button of *Stop Capturing*. *Building image* dialog box will appear to show the process of creating a DVD video.



- *When completing the creation, the optical drive will open and a message DVD Created successfully appears.*
- *If other image is played back on the screen during creating a video, stop it on the video device.*

10. Click *OK* and then, remove the disc.
11. Close the window.

Adding 3D Title

To add 3D characters and/or 3D animation, using DVD-MovieAlbumSE 3, to the beginning of the image recorded by a DVD video recorder, follow these instructions.



- *DVD-MovieAlbumSE 3 allows you to play or edit the images recorded by a DVD video recorder or compliant with the video recording format.*
- *DVD-MovieAlbumSE 3 supports a DVD-RAM disc formatted in Universal Disk Format (UDF2.0). (Refer to Formatting DVD-RAM section in this chapter.)*

1. Insert a DVD-RAM disc recorded by a DVD video recorder into the optical drive.



If a dialog box asking you What do you want Windows to do? appears, close it.

2. Click *start – All Programs – Panasonic – DVD-MovieAlbumSE – DVD-MovieAlbumSE*.

3. Right-click the image to be titled in the thumbnail display field on the right side of the *DVD-MovieAlbum* window and select *3D Title*.
4. Type a title name up to 16 characters, if an input box appears, and then, click *OK*. If not, skip this step.



The input title can be moved using the position/rotation setting buttons. (Refer to 3D-title STUDIO [Operating Instructions] in Online Manual for DVD-MovieAlbumSE 3.)

5. Click *Visual effect* button located on the left side of the window.
6. Double-click a desired 3D animation in the 3D template lists.



To check the 3D animation, click the playback button (▶).

7. Click 3D font button located on the left side of the window. The title is displayed in the 3D font.



You can apply various settings if desired. Refer to 3D-title STUDIO [Operating Instructions] in Online Manual for DVD-MovieAlbumSE 3.


8. Click *OK*. The adding procedure will begin.
9. Click the eject button (⏏) located on the bottom left of the window to eject the disc.
10. Remove the disc from the optical drive and close the window.

Controlling Volume

You can adjust the output volume of your computer with one of the following volume controls that interact with each other.

With keyboard

Press and hold **Fn** key and then, press **F3** () key to decrease the output volume. Press and hold **Fn** key and then, press **F4** () key to increase the output volume.

This operation also adjusts the Windows volume control. For example, if you press **Fn+F3** () keys, the volume level on Windows will decrease, too.

On Windows

1. Click *start - Control Panel*.
2. Click *Sounds, Speech, and Audio Devices*; then, *Sounds and Audio Devices*. If Classic view is selected, double-click *Sounds and Audio Devices* icon.
3. In *Sounds and Audio Devices Properties* dialog box, slide the lever to adjust the output volume.
4. Click *OK* and close the dialog box; then the *Control Panel* window.



You can also easily adjust the volume in the window that will open when clicking the speaker symbol on the taskbar. When the symbol is not on the taskbar, check the box of Place volume icon in the taskbar in the step 3.

If you want to control the output volume of each source individually:

1. Click *start - Control Panel*.
2. Click *Sounds, Speech, and Audio Devices*; then, *Sounds and Audio Devices*. If Classic view is selected, double-click *Sounds and Audio Devices* icon.
3. In *Sounds and Audio Devices Properties* dialog box, click *Advanced...* button of *Device volume* field.
4. Slide the volume lever of the source that you want to adjust.
5. Close the dialog box, then; click *OK* and close the *Control Panel* window.

If you control:

- | | | |
|-----------------|---|---|
| Wave | → | Controlling the volume of CD/DVD or WAVE file |
| SW Synth | → | Controlling the volume of MIDI file |

Adjusting Display

You can adjust the brightness, resolution, and number of colors of the internal LCD display for more comfortable viewing.

Changing Brightness of Display

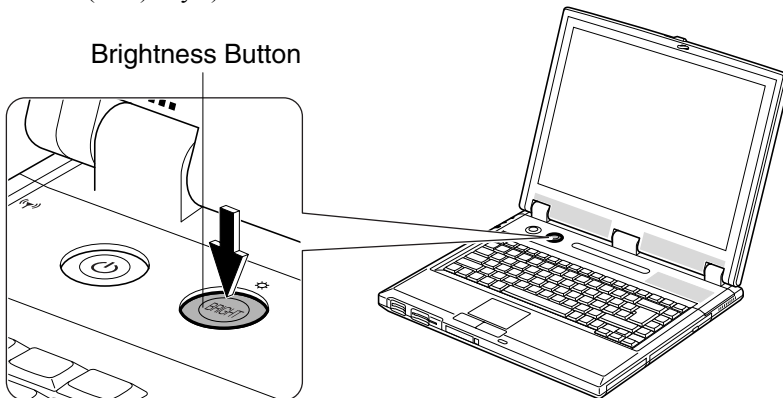
Press and hold **Fn** key and then, press **F6** (☼) key to decrease the brightness of the internal LCD display.

Press and hold **Fn** key and then, press **F7** (☼) key to increase the brightness of the internal LCD display.

Press and hold **Fn** key and then, press **F8** (☼) keys simultaneously to maximize the brightness of the internal LCD display. To return the previous brightness, press them again.

Brightness Button

Pressing the brightness button allows the brightness of the internal LCD display to be maximized. To return the previous brightness, press it again. (Equivalent to pressing **Fn+F8** (☼) keys.)



Changing Resolution and Number of Colors

When shipped, your computer is set to the default resolution and color. The default resolution is 1024 x 768 at 16M colors. To change the resolution and the number of colors, follow the instructions below:

1. Right-click anywhere on the Windows desktop, except icons or folders.
2. Select *Properties* from the pop-up menu.

3. In the *Display Properties* dialog box, select *Settings* tab.
4. Select the number of the colors in *Color quality*, and select the resolution in *Screen resolution*. Refer to the table below for possible resolution and colors.
5. Click *OK*. If the *Monitor Setting* dialog box appears, click *Yes*.

Available Resolutions and Colors

Resolution	Number of Colors
800 x 600	64K, 16M ^(*)
1024 x 768	64K, 16M ^(*)
1280 x 1024 ^(*)	64K, 16M
1600 x 1200 ^(*)	64K, 16M
1920 x 1440 ^(*)	64K, 16M
2048 x 1536 ^(*)	64K

(*) On the internal LCD screen, the number of colors in this mode is generated using a FRC (Frame Rate Control) dithering method. With this method, about 16,190,000 color images are displayed.

(**) Can be chosen for an external monitor only when it is capable of the listed resolution modes. Cannot be set when displaying only on the LCD monitor or on both of the LCD and the external monitor simultaneously.



- You cannot switch to a display resolution and number of colors that are not available.
- In the *Color quality*, *Medium* (16 bit) means 65,536 (64K) colors, and *Highest* (32 bit) means about 16,190,000 (16M) colors.

Changing Wallpaper and Setting Screen Saver

You can enjoy various desktop patterns or screen savers.

Changing Wallpaper

1. In the *Display Properties* dialog box, select *Desktop* tab.
2. Select appropriate wallpaper listed in *Background* field.
3. Click *OK*.

Setting Screen Saver

1. In the *Display Properties* dialog box, select *Screen Saver* tab.
2. Select an appropriate screen saver from the pull-down menu in *Screen saver* field and set time when screen saver starts.
3. Click *OK*.



To disable the screen saver, select [None] from the Screen saver pull-down menu.

Sharing Your Computer

If you are sharing your computer with your colleagues or family members, set a user account for each person. Every user can choose his/her favorite desktop setting, web site lists, or make his/her own *My Documents* folder etc., and save them to his/her user account. When you turn on your computer, select your user account.

Set New User Account

1. Click *start - Control Panel*.
2. Click *User Accounts*. If Classic view is selected, double-click *User Accounts* icon.
3. Click *Create a new account* string.
4. Type a name for the new account and click *Next*.
5. Select the account type; then, click *Create Account*. If you have selected a *Limited* account, then that user account has limits for using your computer. See *Help and Support Center* in *start* menu for more details.
6. Close the *User Accounts* dialog box; then, the *Control Panel* window.

If more than one user account are set to your computer, you must select which user account you will log in when you turn on your computer.

Log off Your Computer

“Log off” is useful because you do not have to turn off your computer when you finish your task and pass your computer to another person. There are two ways to log off your computer; *Switch User* and *Log Off*.

If you select *Switch User*, you can pass your computer to another person without closing your current applications. For example, if you are viewing a Web site, and your colleague needs to open a program on your computer, use *Switch User*. You can then view the same Web site by just switching back to your account after your colleague finishes with your computer.

If you select *Log Off*, the system will close all your session and you need to save your files before logging off your computer.

1. Click *start - Log Off*.
2. Select *Switch User* or *Log Off*. If you select *Log Off*, the dialog box that asks you to save your data may appear.
3. Select another account to start Windows XP again.



If you cannot see Switch User in Log Off Windows dialog box, click Change the way users log on or off string in User Accounts dialog box, and check Use Fast User Switching and click Apply Options.

Set Password to User Account

You can set a password to each user account to avoid unauthorized use of your computer. Once you set the password, you need to enter it when you log on to your account. If the entered password is not correct, you cannot start your computer with the user account. Unnecessary password setting can cause trouble in starting the system.

Setting Password

1. Click *start - Control Panel*.
2. Click *User Accounts*. If Classic view is selected, double-click *User Accounts* icon.
3. Select the account to be set a password. You will only have this option if you log onto your computer as a member of the Computer administrators group. If you log on your computer with a limited user account, skip this step. (You cannot set a password to another user account.)

4. Select *Create a password* string.



- *If the password has been already set, Create a password will not appear.*
- *Only the members of the Computer administrators group can set a password to another user account.*

5. Type a new password.

6. Type the new password again to confirm it.

7. If necessary, type a password hints word to remember the password you set.

8. Click *Create Password*.

9. If you are asked whether you want to make your files and folders private, click *Yes, Make Private* or *No*. If not, go to the next step.

10. Close the *User Accounts* dialog box; then, the *Control Panel* window.

Changing Password

1. Follow the steps 1-2 on *Setting Password* section.

2. Select the account to be changed, if you log on to your computer as a member of the Computer administrators group. If you log on your computer with a limited account, skip this step. (You cannot change the password for another user account.)

3. Select *Change my password* string or *Change the password* string.



- *If the password has not been set yet, Change my password or Change the password will not appear.*
- *Only the members of the Computer administrators group can change the password of another user account.*

4. Type the current password. If you are changing another user's password, skip this step.

5. Type a new password.

6. Type the new password again to confirm it.

7. If necessary, type a password hints word to remember the password you set.

8. Click *Change Password*.

9. Close the *User Accounts* dialog box; then, the *Control Panel* window.

Deleting Password

1. Follow the steps 1-2 on *Setting Password*.
2. Select the account to be deleted, if you log on to your computer as a member of the Computer administrators group. If you log on your computer with a limited account, skip this step. (You cannot delete the password of another user account.)
3. Select *Remove my password* string or *Remove the password* string.
 - If the password has not been set yet, Remove my password or Remove the password will not appear.
 - Only a member of the Computer administrators group can delete the password of another user account.
4. Type your password and click *Remove Password*. If you log on your computer as a member of the Computer administrators group and want to delete the password of another user account, just click *Remove Password*.
5. Close the *User Accounts* dialog box; then, the *Control Panel* window.



Battery and Power Management

This chapter explains how to manage your computer's power effectively and use the battery pack.



In this section, you often see the expression “Power Options Properties dialog box”. To open the dialog box:

1. *Click start - Control Panel.*
2. *Click Performance and Maintenance - Power Options in Category view or double-click Power Options icon in Classic view.*

Battery Pack

When not connected to an external power source, your computer operates with the rechargeable battery pack. The duration of the battery life may be longer if your computer's power management is active. See the next section for power management.

To keep the battery life long:

- *Condition the battery pack if the actual remaining power in your battery is less than what Windows *Power Meter* indicates. (See *Conditioning Battery Pack* section in this chapter.)*
- *Turn off your computer when you are not using it.*



- *The duration of the battery depends on your computer usage. Using applications, which heavily use the optical drive or peripherals, will result in shorter battery life.*
- *When using your computer powered on battery for several hours, enable power management and set System hibernate. Refer to the Power Management section in this chapter.*
- *When the battery has not been charged, your computer may not operate properly. Connect your computer to the AC power source for the battery charging.*

Charging Battery Pack

1. Connect the AC adapter to your computer. While the battery is being charged, the battery indicator lights orange.
2. When the battery is fully charged, the battery indicator turns green. Charging time may vary according to the status of your computer.



- *The battery indicator may turn off even while the battery pack is being charged. This is either because the battery pack is hot or else the system power consumption is very high due to using the optical drive or CPU-intensive application, and the charging stops temporarily. When the battery becomes cool or the system power consumption becomes lower, the charging will start and the battery indicator will turn on again.*
- *The battery pack may not be installed correctly if the battery indicator blinks orange. In this case, turn off your computer, remove the AC adapter and the battery pack; then, install the battery pack and connect the AC adapter again. If the battery indicator still blinks orange, ask your local dealer for assistance.*
- *When the battery pack is hot (for example, after a long usage), it may take longer to be fully charged.*

Checking Battery Level

You can check the battery level by placing the pointer on the battery icon (🔋 : powered on battery) or AC plug icon (🔌 : powered on AC power and charging the battery pack) on the taskbar, or double-clicking one of these icons (🔋, 🔌 or 🖱️ : powered on AC power) to open the *Power Meter* dialog box. If the battery is fully charged, remaining capacity level will not appear even if you point to the icon.



If you cannot see the battery or AC plug icon, follow these instructions:

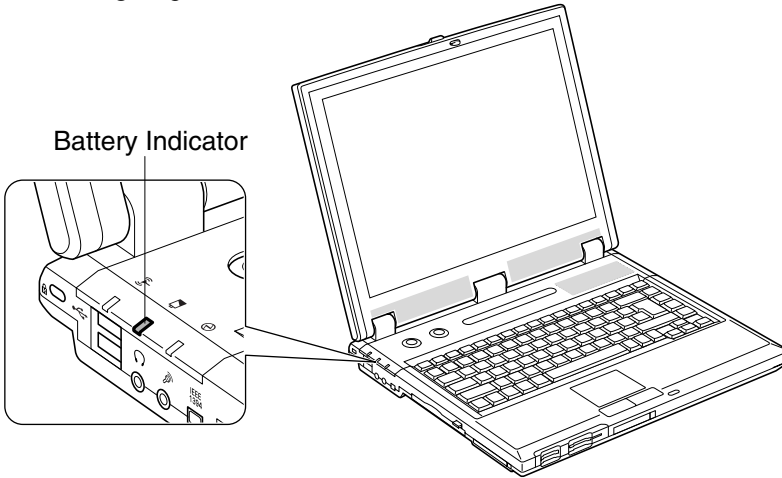
1. In the *Power Options Properties* dialog box, select *Advanced* tab.
2. Check the box of *Always show icon on the taskbar* and click *OK*.
3. Close the *Control Panel* window.



- *The remaining operating time depends on the power you are consuming. If you are using the audio system, hard disk drive, media cards, peripherals, a floppy disk or an optical disk drive, your computer may consume more battery life.*
- *If the actual remaining power in your battery is less than what Windows Power Meter indicates, you should condition the battery pack as per the procedure on Conditioning Battery Pack section in this chapter.*

Low Battery Indication

When the battery power becomes significantly low, the battery indicator () blinks red, the warning beep sounds. Save your data and turn off your computer, or connect your computer to AC power source immediately. Otherwise, your computer will shut down and the unsaved data may be lost. Pressing **Fn+F10** () keys allows you to stop the warning beep.



On Windows, a beep sound or an on-screen message will tell you when the battery drops to the specified level and your computer will go on *System standby/System hibernate* or shut down automatically.

To set Windows battery alarm:

1. In the *Power Options Properties* dialog box, select *Alarms* tab.
2. Set the battery level at which the alarms are activated. We recommend you set *Critical battery alarm* to 5 % or more and *Low battery alarm* to more than the value of *Critical battery alarm*.
3. Set the *Alarm Action...* to the appropriate settings.
4. Click *OK* twice.
5. Close the *Control Panel* window.

Conditioning Battery Pack

When the actual remaining power in your battery is less than what Windows Power Meter indicates, you need to condition the battery pack or buy a new one.

1. Make sure your computer powered off. Connect your computer to the AC power source and fully charge the battery.



When the battery is full charged, the battery indicator turns green.

2. Turn on your computer and press **F2** to open the Setup Utility when the message *<F2> to enter System Configuration Utility* appears.
3. Disconnect the AC adapter.
4. Leave your computer on until the battery is completely discharged and the system shuts down automatically.
5. Connect your computer to AC power source and let the battery full charged again.



- *Do not turn on your computer while charging the battery pack.*
- *Do not connect your computer to a wall outlet while discharging the battery. The conditioning will be cancelled.*



Repeated charging and discharging or long-term storage of the battery pack will cause battery deterioration. In this case, replace the battery pack with a new one.

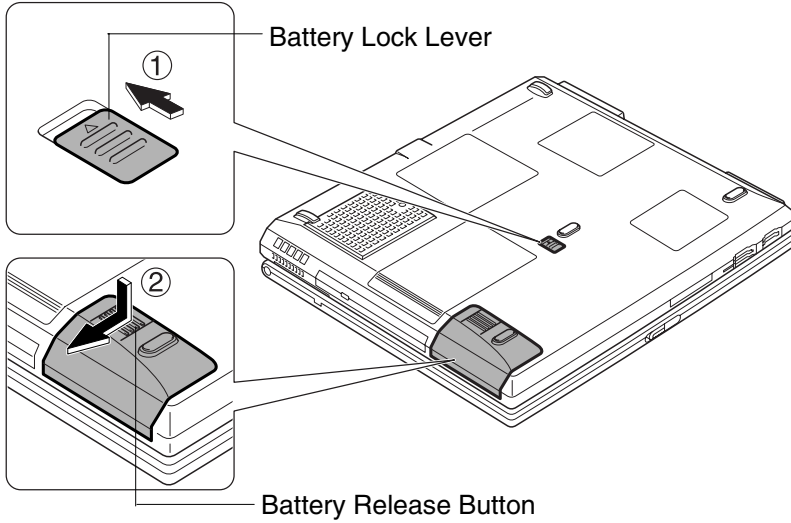
Changing Battery Pack

When repeatedly charged and discharged the battery pack or stored for a long term, it will deteriorate (the deterioration rate depends on the operating environment). The battery deterioration will result in declining its capacity and power. If the battery life becomes extremely short even after the conditioning, you should buy a new battery pack. Ask your local dealer for a new battery pack.

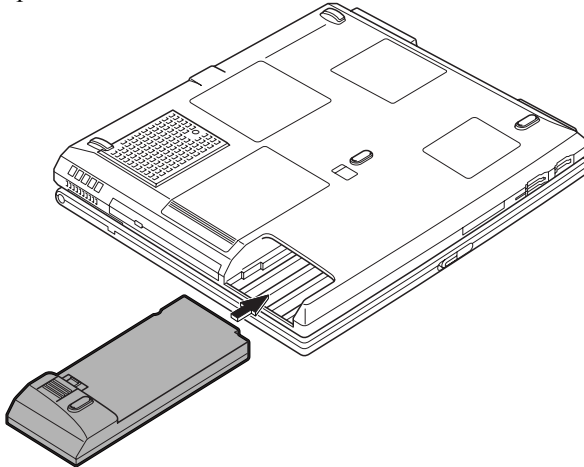
When you replace the battery pack with a new one:

1. Turn off your computer and disconnect the AC adapter from your computer.
2. Close the display cover and turn your computer over on a stable surface.

- Slide the battery lock lever to the left and hold it, then, press the battery release button and hold it, then, pull out the battery.



- Insert a new battery pack into your computer with the battery release button side up.



Make sure that you put in the battery pack properly until you hear the clicking sound.

- Turn your computer over.

Power Management

Power management saves electricity and extends battery life by controlling power supply to built-in devices. You can set the following power management properties on Windows.

- Stopping power supply to the hard disk
- Stopping power supply to the display
- Using System standby/System hibernate

To open *Power Options Properties* dialog box, click *start – Control Panel*, and click *Performance and Maintenance*; then, *Power Options*. If Classic view is selected, double-click *Power Options* icon.



Note that the power management may not seem to function when you are using an application program that accesses the hard disk periodically.

Stopping Power Supply to Hard Disk

1. In the *Power Options Properties* dialog box, select *Power Schemes* tab.
2. Set *Turn off hard disks* to an appropriate value, and click *OK*.
3. Close the *Control Panel* window.

Stopping Power Supply to Display



This procedure is also effective for a connected external monitor complying with power management.

1. In the *Power Options Properties* dialog box, select *Power Schemes* tab.
2. Set *Turn off monitor* to an appropriate value, and click *OK*.
3. Close the *Control Panel* window.

Using System Standby/Hibernate

System standby/hibernate is a very useful power management tool. For example, you can restart your computer from stand by mode more quickly than shut down mode. When your computer resumes from *System standby/hibernate*, the system restores the exact last state of your computer. On Windows, you can set the conditions under which the system enters *System standby* or *System hibernate*.

- *System standby* stores the current condition of your computer in RAM and stops power supply to all but a few essential components. Your system enters and resumes from *System standby* per the conditions mentioned later. In *System standby*, the power indicator blinks green. To resume from *System standby*, operate your computer again.
- *System hibernate* saves the current condition of your computer in part of the hard disk and turns off your computer. Your system enters and resumes from *System hibernate* per the conditions mentioned later. In *System hibernate* the power indicator is off. To resume from *System hibernate*, press the power button.



When entering/resuming from System standby/hibernate, follow the instructions below:

- *Finish communications, printing, and playing music or video before entering System standby/hibernate.*
- *Do not operate your computer or peripheral devices, or connect/disconnect peripheral devices, while entering/resuming from System standby/hibernate.*
- *While operating on battery power that does not have enough power, your computer may not resume from System standby/hibernate. In this case, connect the AC adapter to your computer.*
- *Save your data before your computer enters System standby. If the power supply to your computer is stopped, the RAM contents will be lost.*
- *Select your user account if Windows requires when your computer has resumed from System standby/hibernate.*

Supporting System Hibernate



If your battery becomes completely discharged during System standby, you will lose unsaved data and will need to reboot your computer. Therefore, if you are planning to leave your computer powered by battery for long periods of time, we recommend System hibernate.

Confirm *System hibernate* is supported with the following steps.

1. In the *Power Options Properties* dialog box, select *Hibernate* tab.
2. Confirm *Enable hibernation* is checked in *Hibernate* field.
3. Click *OK*, then, close the *Control Panel* window.

Set Timer to Enter System Standby/Hibernate Automatically

Your computer will enter System standby/hibernate automatically when the specified time has passed without any operation. To set the time:

1. In the *Power Options Properties* dialog box, select *Power Schemes* tab.
2. From the pull-down menus in *System standby* or *System hibernates*, select the elapsed time before your computer automatically enters System standby/hibernate.
3. Click *OK*, then, close the *Control Panel* window.

Entering System Standby/Hibernate

Your computer enters *System standby/hibernate* in each of the following cases:

- You select *Stand By* or *Hibernate* (which replaces *Stand By* when you press **Shift** key) in the *Turn off computer* dialog box. To open the dialog box, click *start – Turn Off Computer*.
- The specified time in *System standby* or *System hibernates* in *Power Schemes* tab of *Power Options Properties* dialog box has passed without any operation. (See the previous section.)
- The screen cover is closed.

The above functions if you perform the following:

1. In the *Power Options Properties* dialog box, select *Advanced* tab.
2. Select *Hibernate* or *Stand by* in *When I close the lid of my portable computer*.
3. Click *OK*, then, close the *Control Panel* window.

- You press the power button.

The above functions if you perform the following:

1. In the *Power Options Properties* dialog box, select *Advanced* tab.
2. Select *Hibernate* or *Stand by* in *When I press the power button on my computer*.
3. Click *OK*, then, close the *Control Panel* window.

- You press **Fn+F12** (**⏻**).

The above functions if you perform the following:

1. In the *Power Options Properties* dialog box, select *Advanced* tab.
2. Select *Hibernate* or *Stand by* in *When I press the sleep button on my computer*.
3. Click *OK*.
4. Close the *Control Panel* window.



*If Ask me what to do is selected in the step 2 of You press the power button or You press **Fn+F12** (**⏻**), the Turn off computer dialog box will appear when you press the power button or **Fn+F12** (**⏻**) key combination. You can select System standby or System hibernate at that timing.*

- The battery level is low.

The above functions if you set the alarm on Windows. See *Low Battery Indication* earlier in this chapter.

Disabling Power Management

1. In the *Power Options Properties* dialog box, select *Power Schemes* tab.
2. Set *Turn off monitor*, *Turn off hard disks*, *System standby*, and *System hibernates* to *Never*, and click *OK*.
3. Close the *Control Panel* window.

Peripherals

This chapter describes how to use peripheral devices with your computer. You can connect a printer, an external monitor, an IEEE 1394 device, or other devices to your computer. To ensure proper use, be sure to read the instructions for each peripheral device before connecting it to your computer.

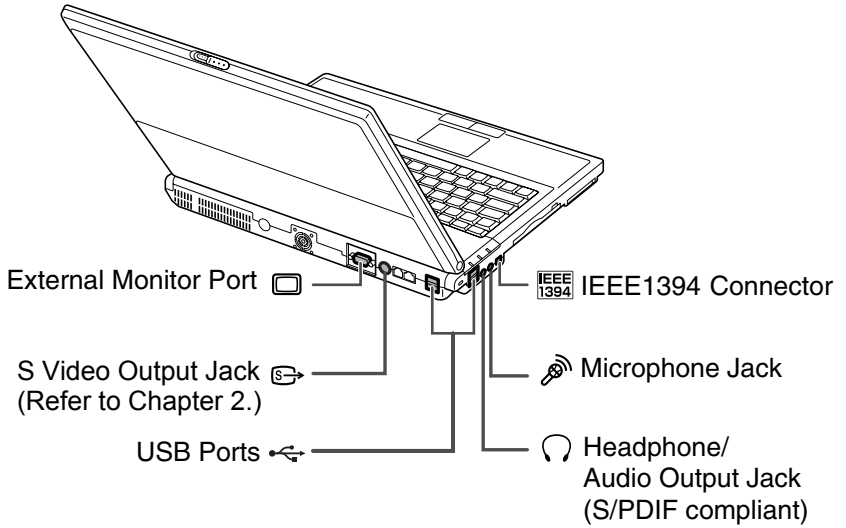
Peripheral Device Connectors

Your computer has connectors for peripheral devices, shown on the next page. For connection, refer to the section explaining each device, or contact your dealer.





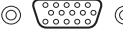



- *Be sure to turn off your computer and the peripheral devices before connecting them (except when connecting/inserting USB devices, an IEEE1394 device, a PC card, etc.).*
- *Confirm the peripheral device you will connect is Windows XP compatible.*
- *When you connect some of the devices, you may have to turn on your computer before powering on the devices.*
- *Some devices require that you install their drivers before use.*

Connectors for peripherals



4

Connector Shape

Connector name	Connector shape
USB Port	
IEEE1394 Connector	
External Monitor Port	
S Video Output Jack	
Headphone/ Audio Output Jack	
Microphone Jack	

External Display

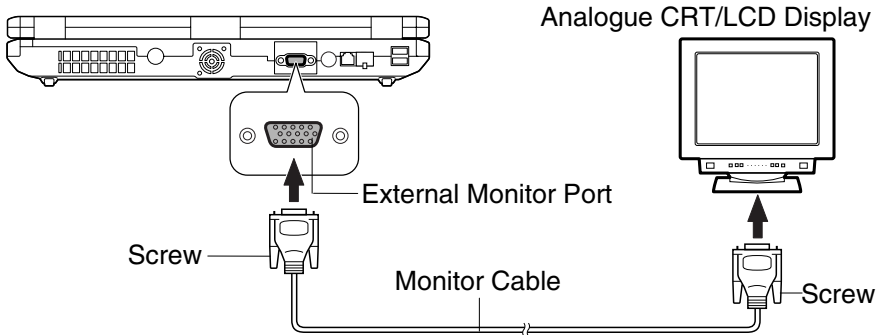
You can use an external monitor with your computer. To display images on both displays simultaneously, use the 1024x768 resolution.



- *Some monitors, which are not compatible with your computer, may not display correctly.*
- *In this section, you often see the expression “Display Properties dialog box.” To open the dialog box, right-click somewhere on the Windows desktop and select Properties from the pop-up menu.*
- *To display the image on an external monitor, you may need to install its driver. Before using the external monitor, refer to the manual included with it.*

Connecting External Monitor

1. Turn off your computer and the external monitor.
2. Connect the external monitor to your computer. If the monitor cable has screws, be sure to tighten them.




3. Turn on the external monitor; then, your computer.

Switching Display

1. In the *Display Properties* dialog box, select *Settings* tab; then, click *Advanced* button.
2. Select *GeForce4 440 Go 64M* tab. A sub-panel will appear on the left.
3. Click *nView Display Mode* in the panel.
4. Click *Device Settings>>* button – *Select Output Device*.
5. Select an appropriate output display.

6. Click *OK*; then, follow the instructions shown on the screen.



- You can also switch the display with **Fn+F5** ()
- While playing video or animation, you may not be able to switch the display.
- To change the resolution and colors, refer to *Adjusting Display of Chapter 2*.

Displaying Image on LCD and External monitor



When displaying on both of the LCD monitor and the external monitor simultaneously, the external monitor should be capable for displaying in 1024 × 768 resolution or more. Otherwise, you may not display images on the external monitor properly.

To display the same image on the LCD and the external monitor simultaneously:

1. In the *Display Properties* dialog box, select *Settings* tab; then, click *Advanced* button.
2. Select *GeForce4 440 Go 64M* tab. A sub-panel will appear on the left.
3. Click *nView Display Mode* in the panel.
4. Select *Clone* in *nView Modes* section.
5. Click *OK*, then, follow the instructions shown on the screen.

To extend the image on your LCD onto an external monitor:

1. In the *Settings* tab of the *Display Properties* dialog box, select “2” display icon, then, check the box of *Extend my Windows desktop onto this monitor* at the bottom of the dialog box.
2. Click *OK*, then, follow the instructions shown on the screen.



*To go back to standard display (the LCD screen only), uncheck the box of *Extend my Windows desktop onto this monitor*.*

Disconnecting External Monitor

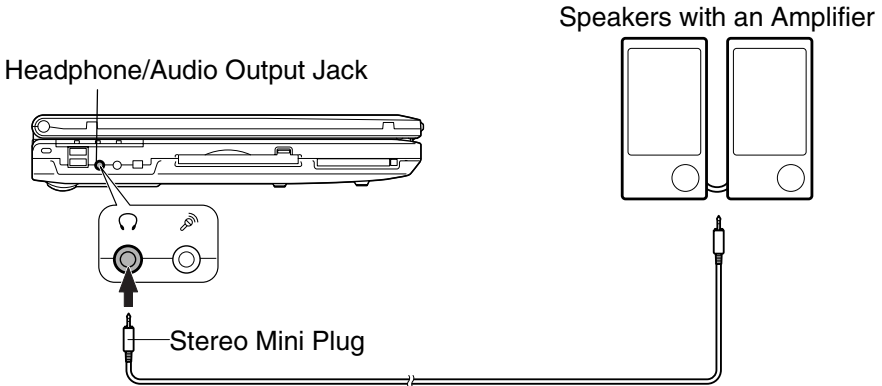
1. Turn off your computer and the external monitor.
2. Loosen the screws of the monitor cable if it has, and remove the cable from your computer and the monitor.

Audio System

You can output sound to speakers, audio equipment or a headphone and also input sound through a microphone.

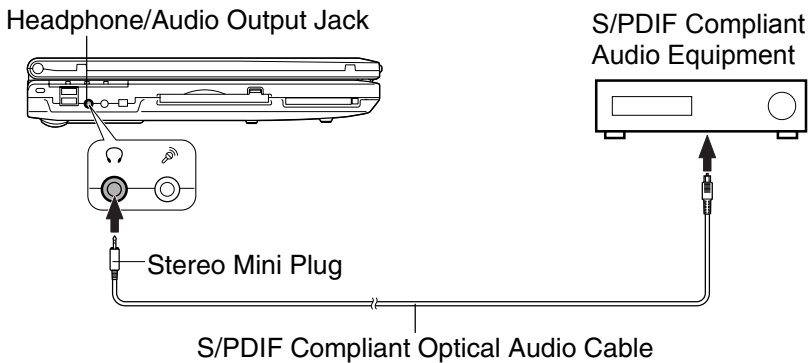
Connecting Speakers

You can connect stereo speakers with an amplifier to the audio output jack on your computer.



Connecting Digital Audio Equipment

The audio output jack of your computer is compliant with S/PDIF (Sony/Philips Digital Interface). You can connect S/PDIF compliant audio equipment to your computer and output/record the sound.



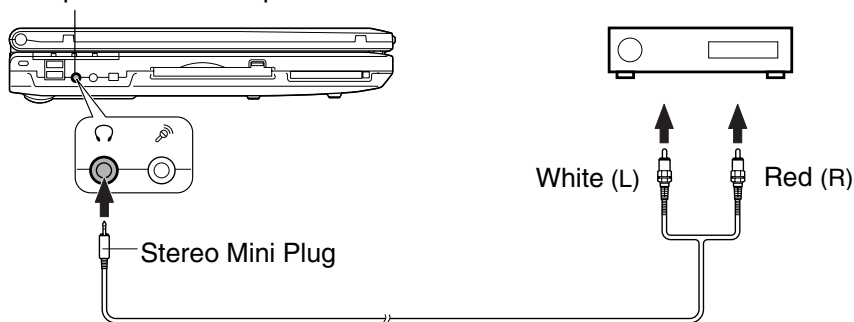


When recording sound from an audio equipment:

- Use AC adapter for your computer and the digital audio equipment.
- Exit other application programs.
- Disable Windows power management.
- Do not enter System standby/hibernate.
- Do not operate your computer.
- Use the digital audio equipment compliant with sampling rate of 48kHz.
- Sound may not be recorded correctly if you use the synchronized recording system of the digital audio equipment.



Connecting Analog Audio Equipment

Headphone/Audio Output Jack



4

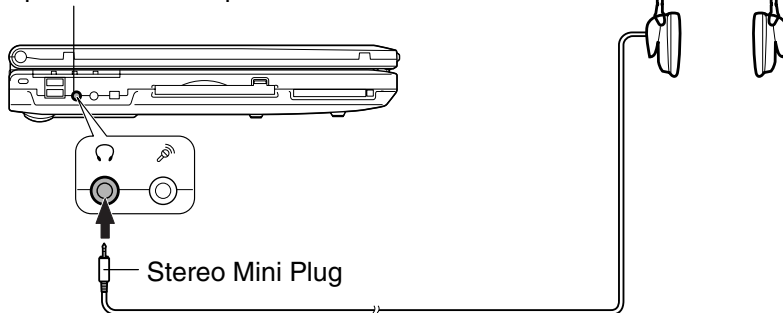


You can adjust the output volume on Windows by pressing **Fn+F3** () or **F4** () keys or sliding the volume lever appearing when clicking the speaker icon on the taskbar.

Connecting Headphone

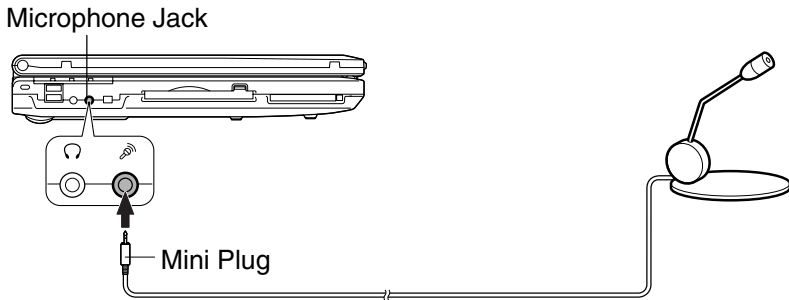
Use a headphone with an impedance of 8Ω and more (32Ω is recommended).

Headphone/Audio Output Jack



Connecting Microphone

You can input sound using an external microphone connected to the microphone jack. Use an electret condenser microphone with an impedance of $2.2\text{k}\Omega$ and an allowable voltage of 2.5V.



To record sound:

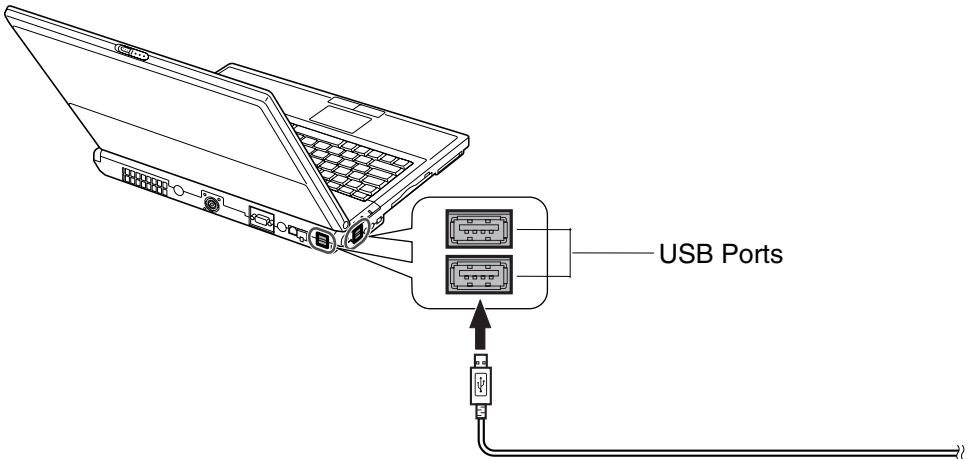
1. Click *start*; then, point *All Programs – Accessories – Entertainment*.
2. Click *Sound Recorder*.
3. See *Help for Sound Recorder* for more information.

USB Device



Your computer has an interface called Universal Serial Bus (USB) and its four USB ports support USB 1.1 and USB 2.0. With a USB connection, you can connect/disconnect peripherals to/from the ports without turning off your computer. Generally, when a device is connected to your computer, the necessary driver will be installed automatically. See also the manuals of peripheral devices supporting USB.



When a new device is correctly connected to your computer, the appropriate driver is automatically installed. If the driver is not installed correctly, a message will appear in the lower right of the screen. In this case, install the driver by following the instructions on the screen.



To remove USB devices, you may need to perform the following before you remove them:

1. Click *Safely Remove Hardware* icon () on the taskbar. If you cannot find the icon, click  to show all kinds of icons. If the icon does not appear, go to Step 3.
2. Click on *Safely remove xxxxxxxx* string you want to remove (*xxxxxxx is the name of the USB device*); then, *Safe To Remove Hardware* dialog appears. If your USB device name does not appear, skip this step.
3. Remove the USB cable from your computer.

PC Card

Your computer is equipped with a PC card (supporting PC Card Standard) slot, which can accommodate a Type II or a CardBus compliant card. You can insert/eject a PC card without turning off your computer.

Inserting PC Card



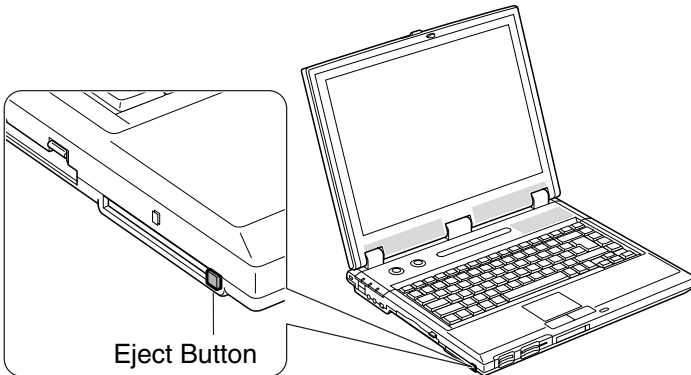
When you insert a protruding PC card such as wireless networking card:

- *Do not give force to the card. Otherwise your computer may be damaged.*
- *Do not carry your computer with the card inserted.*



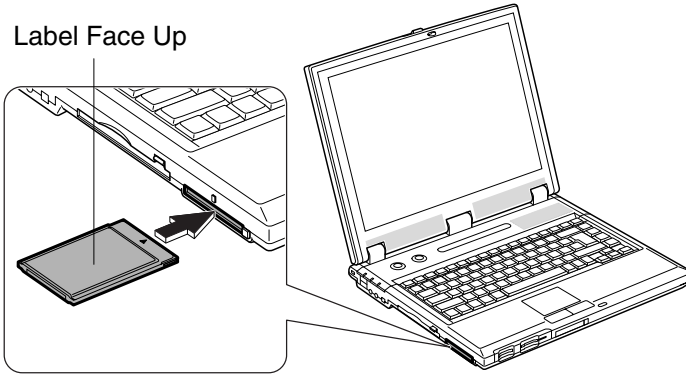
When a new card is correctly inserted, the appropriate driver is automatically installed. If the driver is not installed correctly, a message will appear in the lower right of the screen. In this case, install the PC card driver by following the instructions on the screen.

1. Confirm the PC card eject button is inside your computer cabinet. If the button is not inside your computer cabinet, push it back into your computer.



2. Insert a PC card into the slot with the label faced up until it locks into place.

Label Face Up





If the dialog box asking you *What do you want Windows to do?* appears, select the task you want.

4

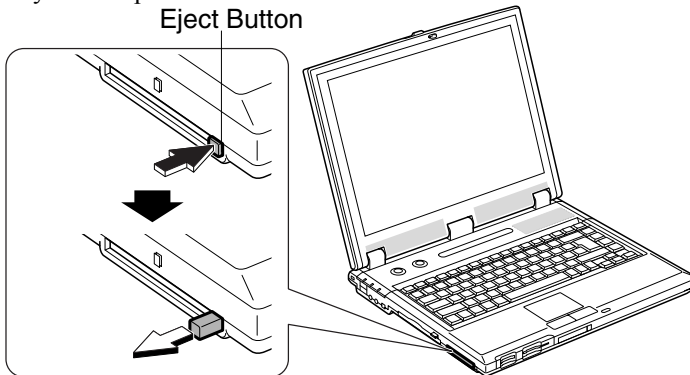
Ejecting PC Card



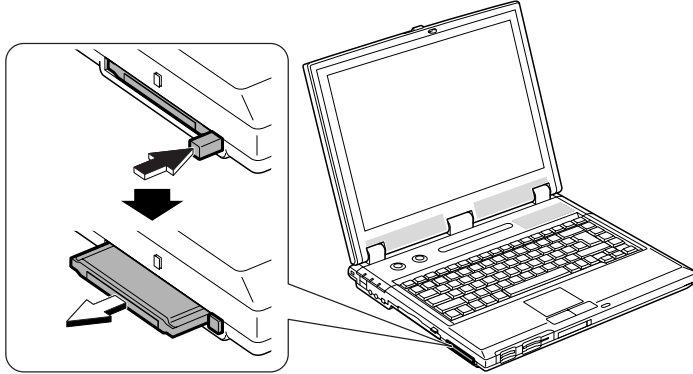
- *Some PC cards may become hot after long use.*
- *Be sure to follow these instructions when ejecting a PC card. Otherwise, the system may not work properly.*

1. Click the *Safely Remove Hardware* icon () on the taskbar. If you cannot find the icon, click  to show all kinds of icons.
2. Click on *Safely remove xxxxx* string. (xxxxx is the name of your PC card); then, *Safe To Remove Hardware* dialog appears.
3. Push the PC card eject button and release it, so that it will pop out from the side of your computer.

Eject Button



4. Push the eject button until the PC card pops out, then, remove the PC card.



5. Confirm the PC card eject button inside the cabinet. If not, push it all the way inside the cabinet for safekeeping.

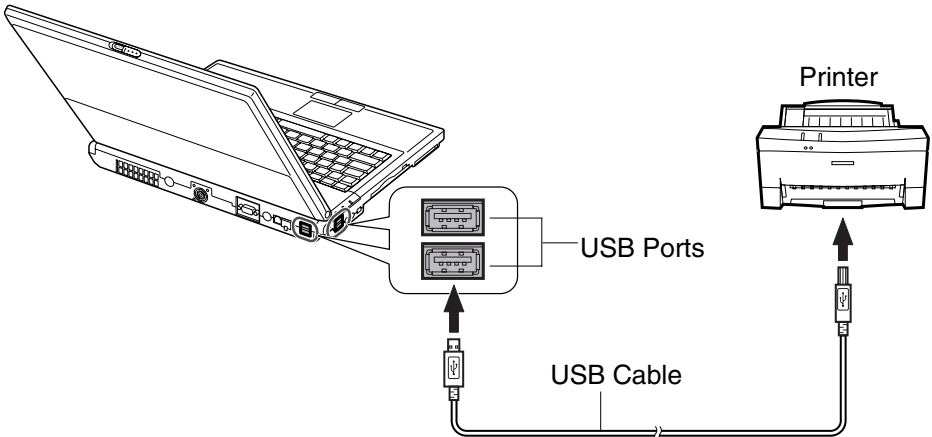
Printer

You can connect a printer to one of the USB ports.



- *Before using a printer, read the printer manual and install the printer driver.*
- *Be sure to read the printer manual before connecting the USB printer to your computer. Some printers may not use Found New Hardware Wizard to install the printer driver.*
- *You can connect the USB printer to your computer without turning off your computer.*

You can connect the USB printer to your computer without turning off your computer.



IEEE1394 Device

You can connect the IEEE1394 devices to the IEEE1394 port on your computer. The IEEE1394 is a digital interface for handling digital video, digital audio and other data in two directions between devices, and for controlling other equipments.

When two or more IEEE1394 compatible devices are connected to your computer in a daisy chain, operations and data transactions are possible with not only the equipment that is directly connected, but also with other devices via the directly connected device.



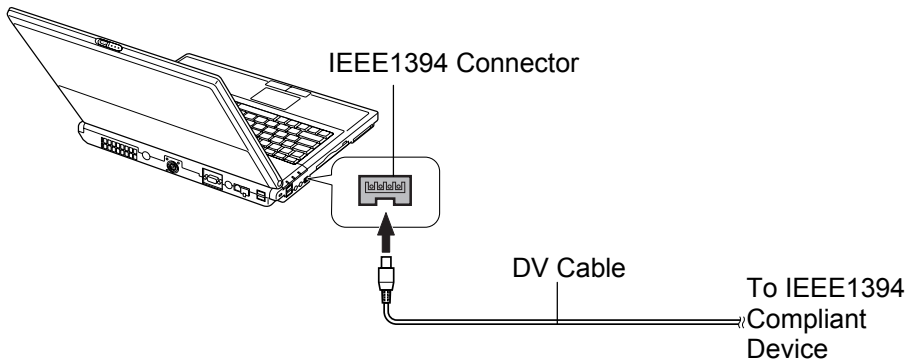
- *Confirm the IEEE1394 device you will connect is Windows XP compatible.*
- *Use AC power for your computer and the IEEE1394 device especially when reading/writing the data.*
- *Some IEEE1394 devices require that you install the drivers before use.*

Connecting IEEE1394 Device





- *You need not turn off your computer before connecting the device.*
- *Be sure to read the manuals of the IEEE1394 device before connecting it to your computer.*

1. Connect an end of the DV cable into the IEEE1394 connector of your computer and the other end into the DV connector of the IEEE1394 device.



2. Install the driver according to the instructions on the screen. Generally when you connect the device to your computer, the necessary driver will be installed automatically.
3. Start the appropriate application for handling your data.

Disconnecting IEEE1394 Device

1. Click the *Safely Remove Hardware* icon () on the taskbar. If you cannot find the icon, click  to show all kinds of icons. If the icon does not appear, go to Step 3.
2. If the name of your device appears, click on *Safely remove xxxxx* string (xxxx is the name of your IEEE1394 device.); then, *Safe To Remove Hardware* dialog appears. If your IEEE1394 device name does not appear, skip this step.
3. Remove the DV cable from your computer.

Communication Functions

This chapter explains how to use the built-in modem, the LAN unit and the wireless LAN function.



- *When you use communications software:*
 - *Connect your computer to the AC power source.*
 - *Disable power management. (Refer to Disabling Power Management of Chapter 3.)*
 - *See also the manual or online help of the software you are using.*
- *The communication speed may vary depending on the traffic, local telecommunications infrastructure, and ISP (Internet Service Provider) infrastructure.*

Built-in Modem

You can use the built-in modem for data transfer and fax communication.




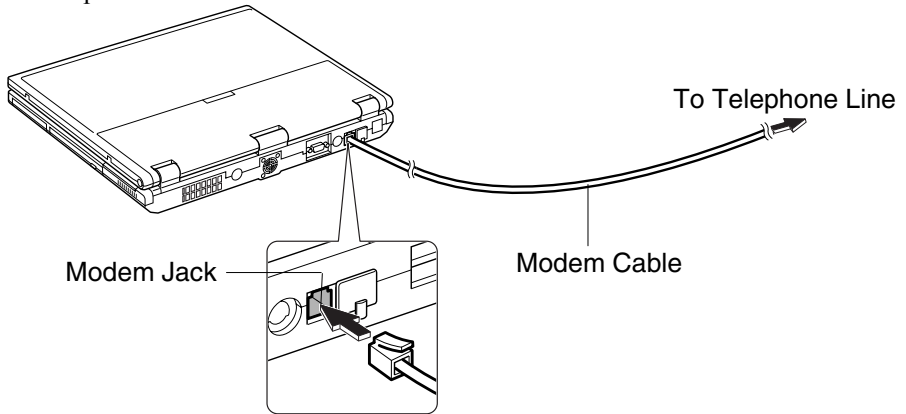
- *To reduce the risk of fire, use only No. 26 AWG or larger telecommunication line cord.*
- *The built-in modem on your computer is designed only for regular analog telephone lines. The modem may be damaged when connected to a digital ISDN terminal or a digital PBX.*
- *Use TA (terminal adapter) to connect the built-in modem to a digital telephone line.*
- *If an unusual device is attached to the line you are connecting to, the modem may not function properly. Remove the device or contact the dealer of the device.*
- *Before connecting to a PBX, consult the PBX maintenance staff or its service company. If the electric characteristics of your PBX are different from those of a regular analog line, the modem will not function properly. If you connect the modem to a digital PBX, both the modem and the PBX may be damaged.*




- *Within the communications software you are using, set the COM port of the built-in modem to COM 3 if required.*
- *Before commencing with fax communication, it is recommended that you exit other application programs.*

Connecting Modem to Telephone Line

1. Turn off your computer.
2. Connect an end of the included modem cable to the modem jack (with  mark) on the rear side of your computer. Connect the other end of the modem cable to the telephone line.



Be sure not to insert into the LAN jack (with  mark). It may damage both the modem cable and the LAN jack.

3. Turn on your computer.



Connect the modem to the telephone line directly. Do not use a distributor or allotter.

Configuring Modem

You may have already configured your modem during Windows setup process. Otherwise, make the necessary adjustments as shown below.

Modem Configuration

When you use the modem first time, you must type your location's information.

1. Click *start - Control Panel*.
2. Click *Printers and Other Hardware*; then, *Phone and Modem Options*. If Classic view is selected, double-click *Phone and Modem Options* icon.

3. In *Location Information* dialog box, select your country, type your area code, etc., and select your dial type; then, click *OK* twice.
4. Close the *Control Panel* window.

After the configuration, click or double-click *Phone and Modem Options* (icon) to open *Phone and Modem Options* dialog box and double-click the location name of *Locations* field in *Dialing Rules* tab for the information you have already set. Clicking *Edit ...* or *New ...* allows you to make a new location or change the settings.

Internet Connection

Windows XP has a special Internet connection wizard to help you to connect to the Internet with ease.

1. Click *start – Control Panel – Network and Internet Connections*; then, *Network Connections*. If Classic view is selected, double-click *Network Connections* icon.
2. In *Network Connections* dialog box, click *Create a new connection of Network Tasks* section. The *New Connection Wizard* dialog box appears.
3. Follow the instructions on the screen.

If you plan to connect into the Internet and dial an Internet Service Provider (ISP) through the modem, have your account information and dial-up number ready before you begin the wizard. Once you set your connection, you can see or edit the connection status by double-clicking the icon appearing on *Dial-up* of *Network Connections* dialog box.

LAN unit

You can connect your computer to 100 Base-TX/10 Base-T LAN (Local Area Network). To activate the LAN unit on your computer, perform the following steps.



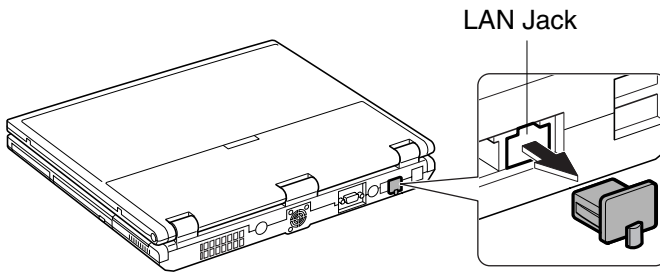
Never insert any cables, but a LAN cable, which have different electric characteristics from those of the LAN cable. Otherwise, the LAN unit and the cables may be damaged.




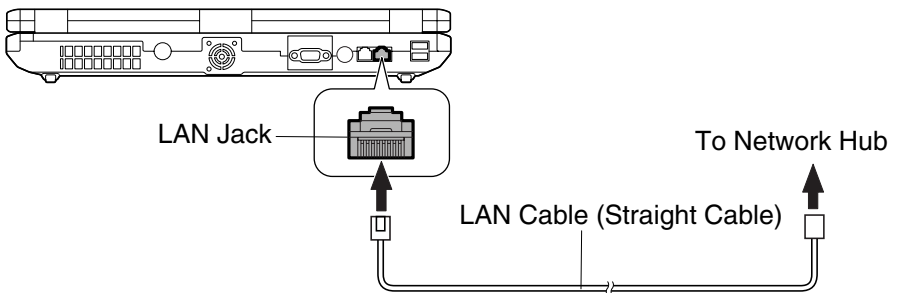
Use a category 3 or a category 5 LAN cable when connecting to 10 BASE-T LAN, and the category 5 when connecting to 100 BASE-TX LAN.

Connect Your Computer to LAN


1. Turn off your computer.
2. Remove the cover of the LAN jack on the rear side of your computer.



3. Connect an end of the LAN cable into the LAN jack (with  mark) and connect the other end of the LAN cable into the network hub.





Be sure not to insert into the modem jack (with  mark). It will damage the LAN cable and the modem jack.



You can also directly communicate with another computer using a cross LAN cable.

4. Turn on your computer.

Configuring LAN Unit

1. Click *start - Control Panel*.
2. Click *Network and Internet Connections*; then, *Network Connections*. If Classic view is selected, double-click *Network Connections* icon.
3. Right-click *Local Area Connection*.
4. From the pop-up menu, click *Properties*.
5. In the *Local Area Connection Properties* dialog box, set the network setting according to the instruction of your network administrator.



Make sure to log on your computer as a member of the Computer administrators group. Otherwise, you cannot set or change some settings for the LAN unit.

If you cannot access the network,

1. Click *start - Control Panel*.
2. Click *Performance and Maintenance*; then, *System*. If Classic view is selected, double-click *System* icon.
3. Click *Hardware* tab; then, *Device Manager* button.
4. Double-click *Network adapters*, then, *SiS 900-Based PCI Fast Ethernet Adapter*.
5. Click *Advanced* tab, and select *Media Type* in *Property* and select an appropriate value in the *Value* pull-down menu.
6. Click *OK* and close the *Device Manager* window.
7. Click *OK*.
8. Close the *Control Panel* window.

Configuring Network Settings

You can configure your network settings in various manners according to the network environments. This section provides one of them in the following environment.

- When connecting two computers, which do not have Internet connections, directly each other with a cross LAN cable
- When the other computer is running on Windows XP
- When using the *Network Setup Wizard* for network configuration

Configuring network settings of your computer



Prior to configuring, be sure to connect two computers with a cross LAN cable.

1. Click *start – All Programs – Accessories – Communications – Network Setup Wizard*. The *Network Setup Wizard* dialog box will open.
2. Click *Next* twice.



When a message “The wizard found disconnected network hardware.” appears:

- *With Local Area Connection string displayed in Connections field, click Cancel to quit the wizard and confirm the other computer is powered on or the both computers are connected with a cross cable.*
- *Otherwise, check the box of Ignore disconnected network hardware and then, click Next.*

3. Select *Other* and click *Next*.
4. Select the third option, *This computer belongs to a network that does not have an Internet connection*, and click *Next*.
5. Select the second choice, *Let me choose the connections to my network*, and click *Next*.
6. Uncheck the boxes of *1394 Connection* and *Wireless Network Connection*.



Confirm only the box of Local Area Connection is checked.

7. Click *Next*.
8. Input *Computer description*, if necessary and *Computer name*, then, click *Next*.



The Computer name should be unique. Type a name that is different from that of the other computer.

9. Type a *Workgroup name* and click *Next*.



The Workgroup name should be same as that of the other computer.

10. Click *Next*. The network configuration will start.
11. Select the forth option, *Just finish the wizard; I don't need to run the wizard on other computers*, and click *Next*.
12. Click *Finish*, then, *Yes*. Your computer will restart.

Change Your Computer Name or Workgroup Name

When you need to change your computer name or workgroup name, follow these instructions.

1. Click *start – My Computer*.
2. Click *View system information* in *System Tasks* field. *System Properties* dialog box will open.
3. Click *Computer Name* tab and *Change...* button. *Computer Name Changes* dialog box will appear.
4. Type the *Computer name* and the *Workgroup* in each field and then, click *OK*.
5. Click *OK* twice and *Yes*. Your computer will restart.

Sharing Files and Folders

You can share files and folders on each computer when they are permitted to be shared. With the function you can copy documents stored on your desktop computer to your notebook computer or display data on your computer and the other computer.

Sharing Files and Folders

This section provides how to share a folder. With these steps you can also share a drive.

1. Right-click a folder to be shared and click *Sharing and Security.... XXX Properties* dialog box will open. (XXX is the folder's name.)
2. Check the box of *Share this folder on the network*. Confirm the name typed in *Share name* field is the folder name to be shared.



When you have not used Network Setup Wizard or shared any folders or drivers before, follow these instructions to enable file sharing.

1. *Click* If you understand the security risks but want to share files without running the wizard, click here *in* *Network Sharing and Security section*. *Enable File Sharing dialog box will appear.*
2. *Select* Just enable file sharing *and click* OK.
3. *Check the box of* *Share this folder on the network and type the folder name to be shared in* *Share name field.*

3. Click *OK*.



The icon of the shared folder will be added a sharing symbol (👤).

5

Copying Shared File

1. Click *start – Control Panel*.
2. Click *Network and Internet Connections*; then, *Network Connections*. If *Classic* view is selected, double-click *Network Connections* icon.
3. Click *My Network Places* in *Other Places* field located on the left.
4. Click *View workgroup computers* in *Network Tasks* field. All the icons of computers belonging to the same workgroup will appear.
5. Double-click the icon of the other computer. The shared folder(s) will appear.
6. Double-click the shared folder. When a password is required, type it.
7. Drag and Drop the desired file to the desktop of your computer. The copied file is created on your computer.
8. Close the window.

Wireless LAN

Your computer has an integrated wireless LAN function compliant with IEEE 802.11b standard. You can access the network by the wireless LAN.



There are two kinds of wireless networks: a network using an access point and an Adhoc network. You can connect your computer to a wired LAN or the Internet through an access point that is also compliant with IEEE 802.11b standard. The Adhoc network consists of a number of computers each equipped with wireless networking interface. Each computer can communicate directly with other wireless enabled computers.

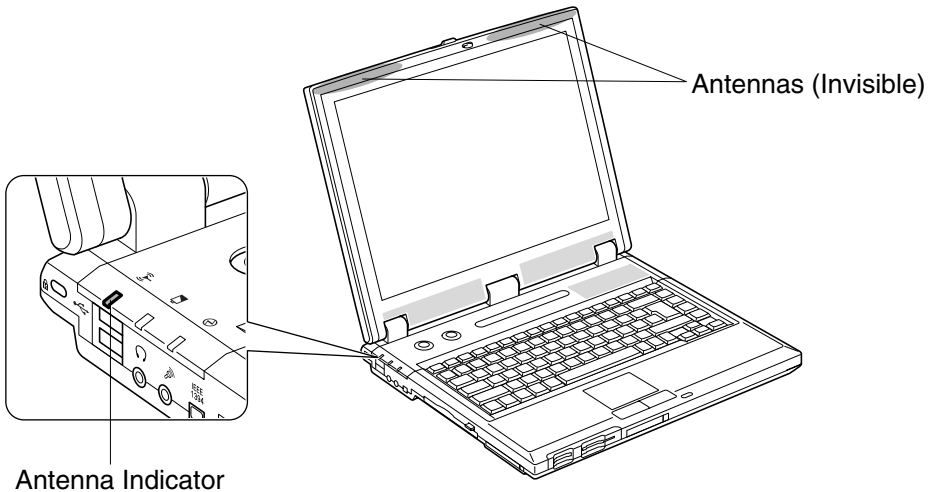


The range to give reliable performance and the quality of connection varies depending on the environment where you perform.

To communicate through wireless LAN, activate the integrated antennas with the following steps.

Activating Antenna

You can enable/disable the antennas by pressing **Fn + F1** () key combination. When the antenna indicator () lights green, the antennas are enabled. When the indicator light is off, the antennas are disabled.



Connecting to Internet via Access Point

You can connect your computer to the Internet or a wired network via an access point supporting IEEE 802.11b. Refer to the manual of the access point or consult your network administrator if you are not sure.

Communicating with Other Computers



- *Confirm each computer is enabled for wireless LAN.*
- *Make sure to log on your computer as a member of the Computer administrators group. Otherwise, you cannot set or change some settings for wireless LAN.*

1. Click *start – Control Panel*.
2. Click *Network and Internet Connections – Network Connections*. If Classic view is selected, double-click *Network Connections* icon.
3. Select *Wireless Network Connection*; then, click *Change settings of this connection* of *Network Tasks*.
4. Double-click *Internet Protocol (TCP/IP)* in *This connection uses the following items*.
5. In *Internet Protocol (TCP/IP) Properties* dialog box, select *Use the following IP address* and set a unique *IP address* to 192.168.1.2 through 192.168.1.254 and the *Subnet mask* to 255.255.255.0; then, click *OK*.



- *The IP address of each computer should be unique.*
- *The Default gateway can be blank.*

6. Click *Wireless Networks* tab; then, click *Advanced* button in the lower right of the dialog box. *Advanced* dialog box appears.
7. Select *Computer-to-computer (ad hoc) networks only*; then, click *Close* button.
8. Click *Add...* button in *Preferred networks* of *Wireless Network Connection Properties* dialog box.
9. Type a name of the network in *Network name (SSID)* field of *Wireless network properties* dialog box.



- *Confirm your computer and the other computers are connecting to the same network.*

10. Click *OK* twice; then, close the *Control Panel* window.




11. Configure the network by setting the name of your computer and workgroup for the communication.



To communicate with other wireless enabled computers, set your computer name and the workgroup name. The computer name should be unique and the workgroup name should be same as others.


Confirming Status of Wireless Connection

Before performing the following instructions, confirm the devices that you want to communicate with are enabled for wireless LAN.


1. Click *Wireless Network Connection* icon ( or ) on the taskbar. If you cannot find the icon click  to show all kinds of icon. *Wireless Network Connection* dialog box will appear. If *Wireless Network Connection Status* dialog box appears, go to Step 7.
2. Select a network you want to access in *Available wireless networks* in *Wireless Network Connection* dialog box. If the network requires the *Network key* entered, go to Step 4. If it is not set *Network key*, the caution message will appear.



*When the network name you want to access does not appear, click **Advanced** tab; then, **Refresh** button of *Available networks* in *Wireless Network Connection Properties* dialog box; then, click **OK**.*


3. When you agree with the message, check the box of *Allow me to connect...* and go to Step 5.
4. Type the required *Network key*. (Refer to *Connecting WEP Configured Network* section.)
5. Click *Connect* button.
6. Click *Wireless Network Connection* icon () on the taskbar.
7. In *Wireless Network Connection Status* dialog box, confirm your connection status.



- *The number of green signals () shows the connection quality. The more signals light on, the better quality is given to your computer.*
- *When the quality of connection is poor, adjust the distance between your computer and other devices or the access point you are communicating with and/or the facing direction of your computer.*

Connecting to WEP Configured Network

Wireless communication has security issues. Some networks are configured with WEP (Wired Equivalent Privacy) keys or encryption keys to protect the transmitted data. To connect into the WEP configured network, follow the steps below.

1. Right-click *Wireless Network Connection* icon () on the taskbar and click *View Available Wireless Networks*.
2. Select the network you want to connect in *Available wireless networks* of *Wireless Network Connection* dialog box.
3. Type its encryption key in *Network key* field, type it again to confirm and click *Connect* button.



- *When you select a network that is not configured for encryption settings in the step 2, a caution message will appear. If you agree to connect to the unsecured network, check the box of Allow me to connect to the selected wireless network, even though it is not secure.*
- *When the key index of your computer is different from that of the network, you cannot access the network. Set the same key index with the following steps. Note that some access points have the key index options 0 through 3. Refer to the table below for matching.*
 1. *Open the Wireless Network Connection Properties dialog box. (Refer to the steps in Communicating with Other Computer section.)*
 2. *Click Wireless Networks tab, select the network you want to access in Preferred networks section and click Properties button.*
 3. *Confirm the box of Data encryption (WEP enabled) is checked, uncheck the box of The key is provided for me automatically and set the key index.*

Key index matching table

Access Point 1	Access Point 2	Your Computer
1	0	1
2	1	2
3	2	3
4	3	4

(ex. When your access point type is “Access Point 2” and its key index is set to 0, set 1 for your computer.)

Network Setup Utility

With the Network Setup Utility, you can set up your specific network settings adjusted for your environment such as work, home, etc. and select the appropriate one to the environment. You can also change the network settings.



- *Not every setting item can be stored.*
- *The Network Setup Utility may not be compliant with all network environments.*
- *See the Help for details.*

Loading Network Settings

To set your specific network settings, confirm that your computer is connected into the network and has the proper settings for your current environment and follow the instructions below.

1. Click *start – All Programs – SHARP Network Setup Utility – SHARP Network Setup Utility*.
2. Click *OK*.
3. Click *Set*, select *SHARP icon* or *Windows icon*, then, *Select icon* button.
4. Select an icon and click *OK*. Type a network name, then, click *OK*. The selected icon appears in the *Network Setup Utility* window.



- *It takes a moment to load the network settings.*
- *You can load up to twenty networks.*

Switching Network

To switch the network set above, confirm your computer is ready to connect into the network and follow the instructions below.

1. Click *start – All Programs – SHARP Network Setup Utility – SHARP Network Setup Utility*.
2. Click *OK*.
3. Select the appropriate network icon in the *Network Setup Utility* window.
4. Click *OK*.



- *Make sure your computer is connected to the proper environment.*
- *If your hardware or software configuration has been changed after loading a network, you may not be able to switch to other stored networks properly. In this case, you may need to reconfigure the settings.*

Changing Network Settings

To change the loaded network settings, right-click on the icon you want to change the settings in the *Network Setup Utility* window and click *Edit settings* in the pop-up menu. Then, edit the settings.

Deleting Network

To delete the loaded network settings, right-click on the icon you want to delete in the *Network Setup Utility* window and click *Delete setting* in the pop-up menu. Then, click *OK*.

Setup Utility

This chapter describes how to run the Setup Utility to change settings on your computer.

Running Setup Utility

With the Setup Utility, you can customize the system configuration information, such as time and date, port assignments, or passwords. The information you have specified is saved in a special area called CMOS RAM, which the system reads every time you turn on the computer. Your computer is shipped from the factory with the appropriate settings of the Setup Utility. Leave it as default in normal use.

Contents of Setup Utility

The Setup Utility consists of four menu pages, as follows:

- **Main:** Configures basic setting
- **Advanced:** Configures device interface (I/O ports, etc.)
- **Security:** Sets Passwords
- **Exit:** Exits the Setup Utility or returns to the default values

Entering and Exiting Setup Utility

1. Turn on the computer.
2. When <F2> to enter *System Configuration Utility* appears, press **F2**. The Setup Utility opens.
3. Set the settings to the appropriate ones. Refer to the next section.
4. Select *Exit* menu; then press **Enter**.
5. Select one of the exit methods, and press **Enter**.
6. Confirm the message and press **Enter** again. The system restarts.







When the Setup Utility is opened, power management does not work. Do not close the display cover.

Changing Settings of Setup Utility

To change the settings:

1. Use → or ← key to select the menu; then press **Enter**.
2. Use ↑ or ↓ key to select the item.

If the item has  or :

Press **Enter** to enable or disable the item.  mark means the item is enabled.  Mark means disabled.

If the item has no mark (except *Date and Time* of *Main* menu and *Set Password* of *Security* menu):

1. Press **Enter** to open the sub menu.
2. Use Tab key to highlight the value; then use ↑ or ↓ key to select the value. The value with • is being selected.
3. Use Tab key to highlight *OK*; then press **Enter**.

To set *Date and Time*:

1. Press **Enter**.
2. Use arrow keys to highlight the value; then use minus key or space bar to change the value.
3. Use arrow keys to highlight *OK*; then press **Enter**.

To set *Set Password*: see *Security Menu* in this chapter.

3. Close the Setup Utility according to the steps above.

Main Menu

Date and Time defines the system date and time. Use arrow keys to select the value, and minus key or space bar to change value.

Hard Disk Type shows the type of the hard disk of your computer. Press **Enter** to show the details. Leave it as default in normal use.

Boot Sequence specifies where the system boots from. Press **Enter** to open the sub menu. The system boots from the drive selected in *1st Boot Device*. If the system cannot find the drive, it will boot from the drive selected in *2nd Boot Device*; then, the drive selected in *3rd Boot Device*.

Internal Numlock defines whether **Fn+NumLk** key combination always works or not. If you will use only the keypad area of the external keyboard, set it to *Disabled*.

Hot Key Beep defines whether the beep sounds when **Fn+F1, F5-F8, F10-F12** keys simultaneously pressed.

Advanced Menu

TV SYSTEM switches TV type between PAL and NTSC and is available for DOS screen.

Internal Pointing Device enables or disables the built-in glide pad.

CardReader Device enables or disables the Memory Stick, Compact Flash Card , and SD/SmartMedia combo slots.

Battery Low Warning Beep enables or disables the beep sound when the battery remaining capacity becomes extremely low (this item does not work for Windows battery alarm).

LAN Boot defines whether the system boots from the PXE server when the integrated LAN is activated.

Wake On LAN defines whether the system resumes from System Standby when the LAN unit of the computer becomes active.

Wake On Ring defines whether the system resumes from System Standby when the built-in modem receives a call.

Security Menu

Set Password defines the password (up to eight characters). See the next section about the password setting.



If you lose your password, you will be unable to access the computer or change the configuration. Make sure to select a password you will never forget, or write it down and protect it in a secure place. Otherwise, you will have to contact your dealer for assistance.

Hard Disk Virus Protect defines whether the boot sector of the hard disk is write-protected. When formatting the hard disk or reinstalling software, set it to disabled.

Password

Setting a password will protect your computer against unauthorized access. When a password is set, the system requires the password when entering the Setup Utility. And if *Password On Boot* is enabled, the system will require a password when the computer is turned on. Refer to the next section.



*If you enter a wrong password three times, the message “System will be shut down” appears. Press **Enter** to shut down the computer, and after 10 seconds, press the power button to turn it on again.*

Setting Password

1. In the *Security* menu of the Setup Utility, select *Set Password* and press **Enter**.
2. Type your password (up to eight characters), and press **Enter**.
3. Type the same password again to confirm it, and press **Enter**.
4. If you want the password required when booting, confirm *Password On Boot* is marked with **√**.
5. Use Tab key to highlight *OK* and press **Enter**.
6. Select *Exit* menu and confirm *Exit Saving Changes* is highlighted; then press **Enter**.
7. Confirm *OK* is highlighted and press **Enter**. The system restarts.

Changing Password

1. In the *Security* menu of the Setup Utility, select *Set Password* and press **Enter**.
2. Type your current password, and press **Enter**.
3. Type your new password, and press **Enter**.
4. Type your new password again, and press **Enter**.
5. If you want the password required when booting, confirm *Password On Boot* is marked with **√**.
6. Use Tab key to highlight *OK* and press **Enter**.
7. Select *Exit* menu and confirm *Exit Saving Changes* is highlighted; then press **Enter**.
8. Confirm *OK* is highlighted and press **Enter**. The system restarts.

Deleting Password

1. In the *Security* menu of the Setup Utility, select *Set Password* and press **Enter**.
2. Type your current password, and press **Enter**.
3. Without typing any characters, press **Enter**.
4. Press **Enter** twice.
5. Select *Exit* menu and confirm *Exit Saving Changes* is highlighted; then press **Enter**.
6. Confirm *OK* is highlighted and press **Enter**. The system restarts.

Exit Menu

Exit Saving Changes saves the settings you have changed and exits the Setup Utility.

Exit Discarding Changes exits the Setup Utility without saving the settings you have changed.

Load Setup Defaults returns the values of all items to the default. To exit, select one of the above items.

Discard Changes returns the values of all items to the values you last saved. To exit, select one of the first two items.

Save Changes saves the settings you have changed. To exit, select one of the first two items.

Appendixes

The appendixes contain additional information on the use and care of your computer.

Memory Module

You can insert a memory module and upgrade the memory size of your computer. See the provided supplement for the default or maximum memory size of your computer. For available memory modules, contact your local dealer.

Inserting Memory Module



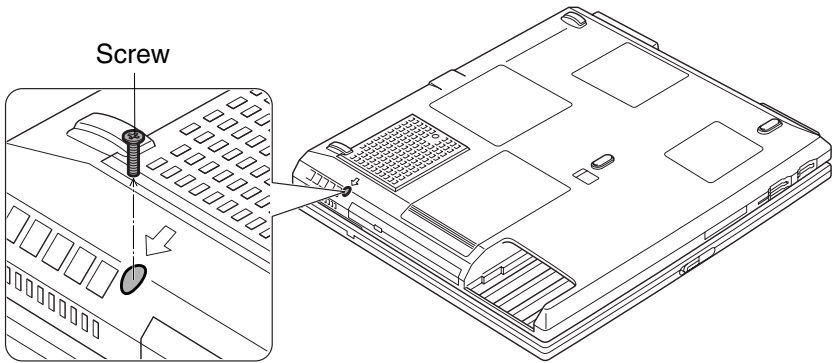
- *Do not handle the memory module where static electricity is easily generated such as on the carpet.*
 - *Before changing the memory module, carefully discharge static electricity from your body by touching an unpainted metal area.*
 - *Avoid touching the integrated circuits on a memory module. Handle all components by the edges.*
 - *Keep the memory module in the anti-static wrapping until you are ready to install it.*
-

1. Turn off your computer, and disconnect the AC adapter and peripheral devices.
2. Turn your computer over and remove the battery pack. See Chapter 3 for removing the battery pack.

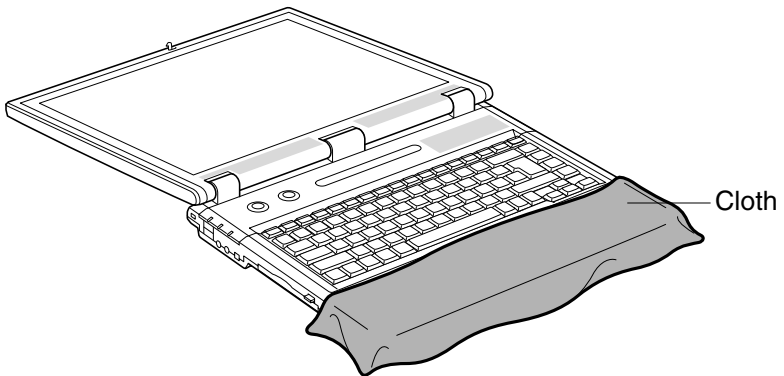


- *Make sure to turn off your computer, remove the AC adapter, and pull out the battery pack. Otherwise you may receive an electrical shock.*
 - *After a long usage of your computer, the temperature inside your computer may be hot. Turn off your computer, then, wait until it becomes cool before changing the memory module.*
-

- Loosen the screw indicated by an arrow and remove it.

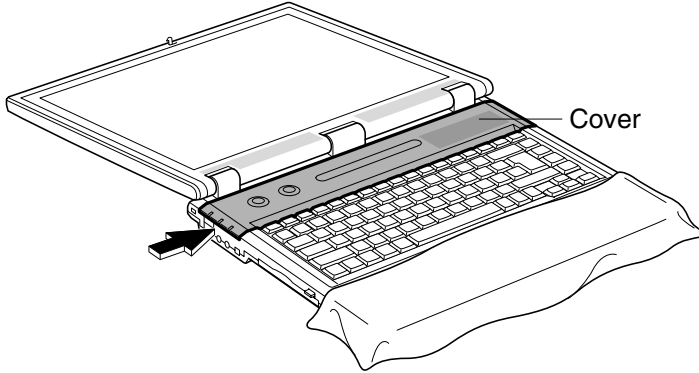


- Turn your computer over and put it on a large, stable work place; then, open the display cover fully and set the display lied flat over the work surface: then, put a dry cloth over the front area of the cabinet as below.

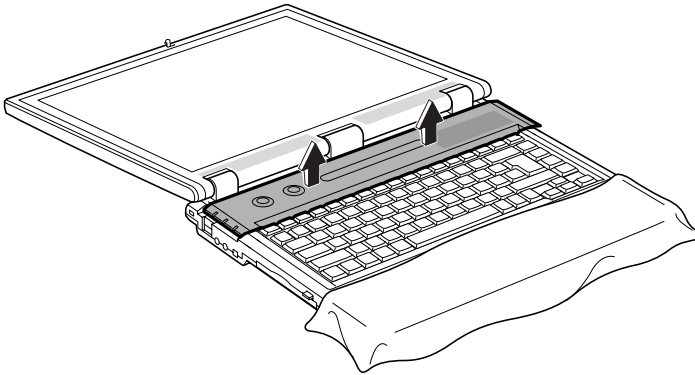


Be sure to put your computer on a large, stable place enough to open the display fully. Otherwise, it may drop off.

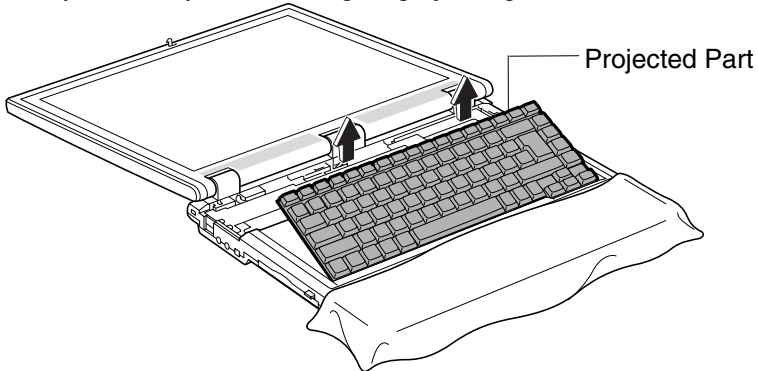
5. Slightly displace the cover to the right.



6. Lift the cover straight up and remove it.

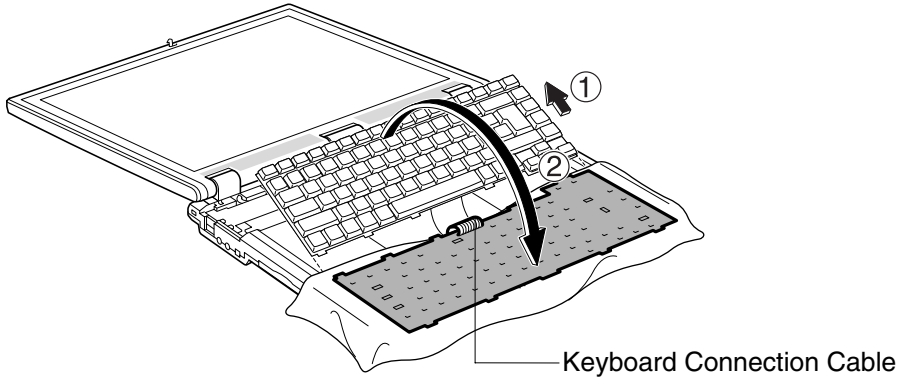


7. Gently lift the keyboard, holding the projected part.



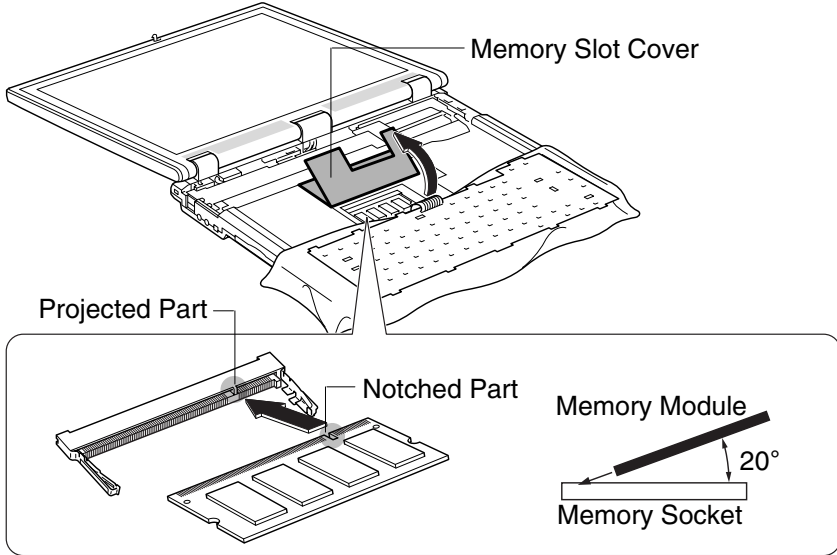
Always hold its projected part to lift the keyboard.

8. Gently pull the keyboard out of the cabinet and fold down the keyboard over the cloth.

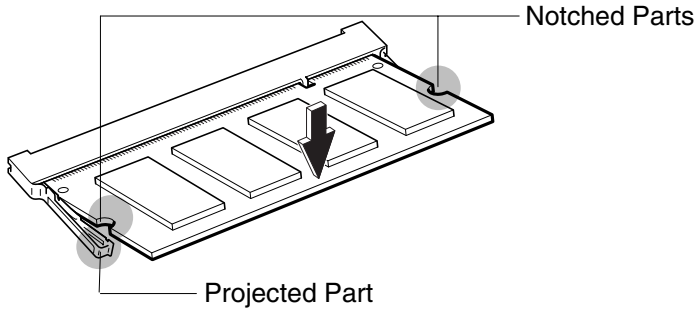


- Always hold the edges of the keyboard when turning it over.
- Do not pull out the keyboard with excessive power. The keyboard connection cable may be damaged.

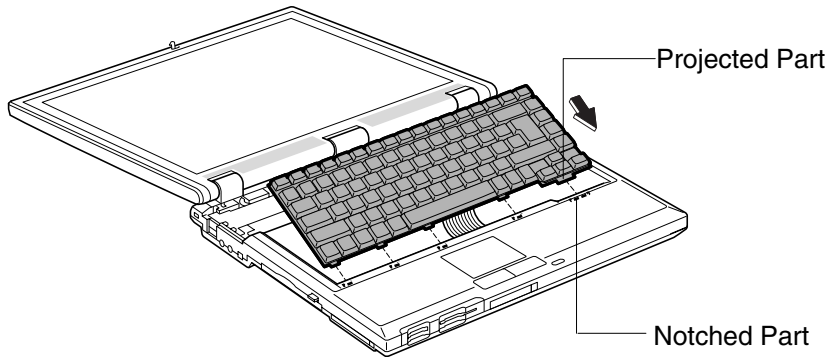
9. Turn over the memory slot cover. Align a new memory module, matching the notched part of the module with the projected part of the memory socket of your computer and push it into its place.



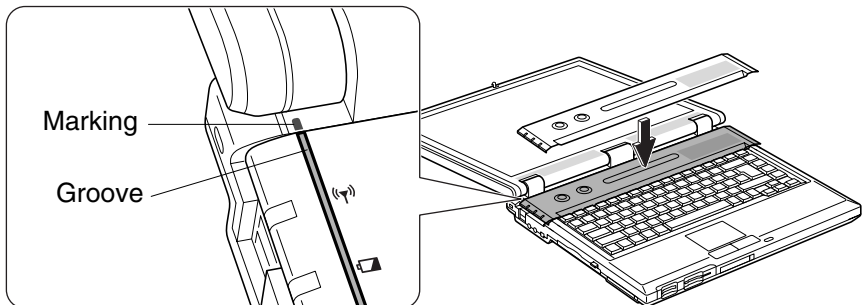
10. Press down the memory module softly, matching the notched parts of the module with the projected parts of the memory socket, until you hear the clicking sound.



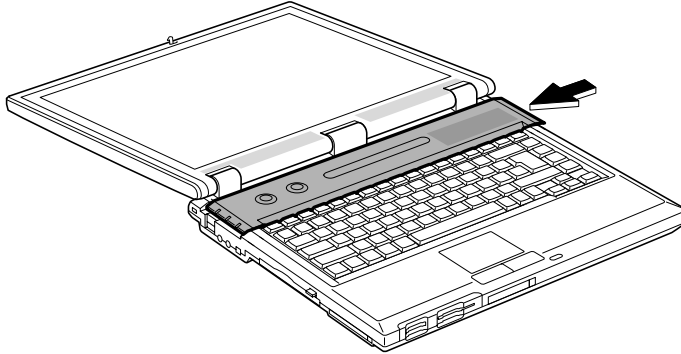
11. Put back the memory slot cover, remove the cloth and set the keyboard in the oriented position, matching all the five projected parts of the keyboard with the notched parts of the cabinet.



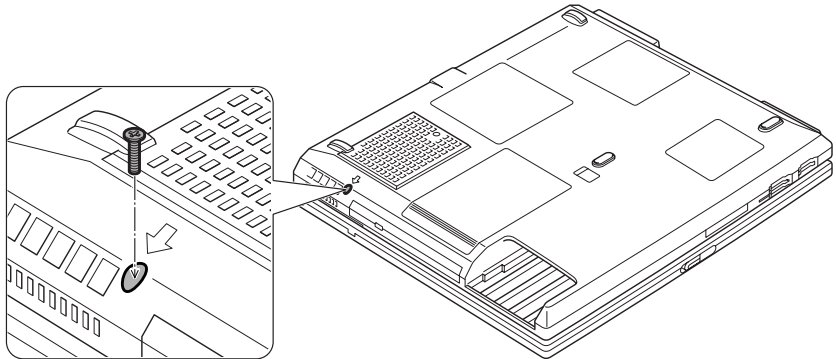
12. Place the cover with its groove line aligned with the marking of the cabinet.



13. Push the cover to the left until you hear the clicking sound, so that the cover will be set in the oriented position.



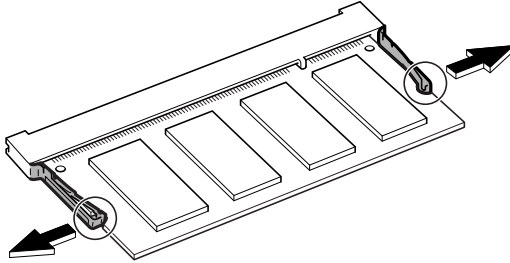
14. Close the display cover and turn your computer over; then, tighten the screw.



15. Put back the battery pack, turn your computer over and connect the AC power source to your computer.
16. Turn on your computer and check the memory size by clicking *start – My Computer – View system information* of *System Tasks*. Your memory size will appear at the bottom of the sentence. Share video memory size will not be included with the value.

Uninstalling Memory Module

1. Follow steps 1- 8 of *Inserting Memory Module* and turn over the memory slot cover.
2. Slightly bend the two latches outwards until the memory module is released.



3. Remove the memory module and follow the steps 11 - 16 of *Inserting Memory Module*.

Maintenance and Care

This section provides you with information on how to maintain your computer in excellent working condition.

Replacing Backup Battery



- *Danger of explosion if a battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the equipment manufacturer.*
- *Discard the used batteries according to manufacturer's instructions.*

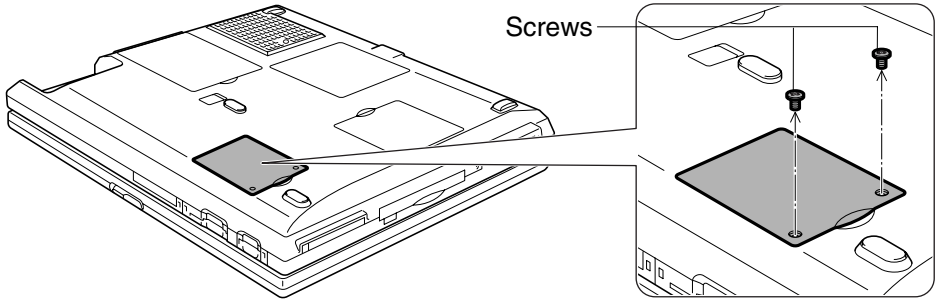
Your computer is equipped with a backup battery, which will keep the information of the Setup Utility, etc. If you see the message *Press F1 to Continue* repeatedly even after making the default setting for Setup Utility, replace the backup battery with a new one. You can purchase a new backup battery from your local dealer.

1. Turn off your computer, and remove the AC adapter, the rechargeable battery pack and peripheral devices. (See Chapter 3 for removing the battery pack.)

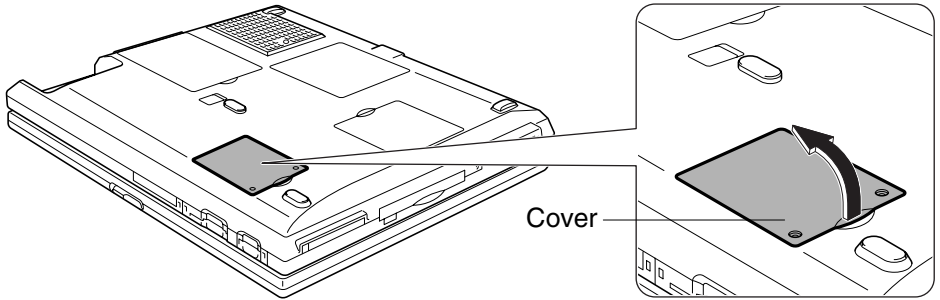


Make sure to turn off your computer and remove the AC adapter and the battery pack from your computer. Otherwise your computer may malfunction.

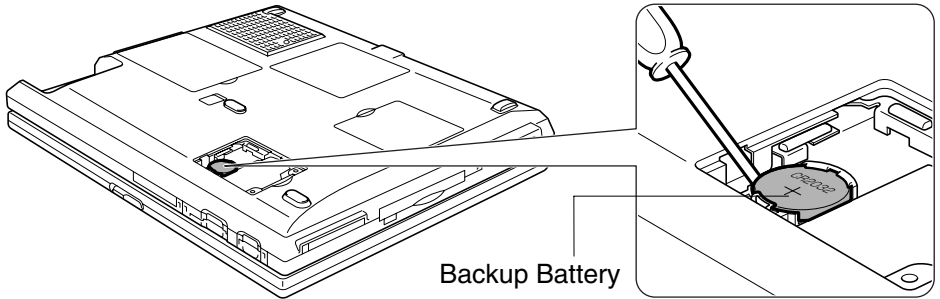
2. Loosen the screws and remove them.



3. Remove the cover.

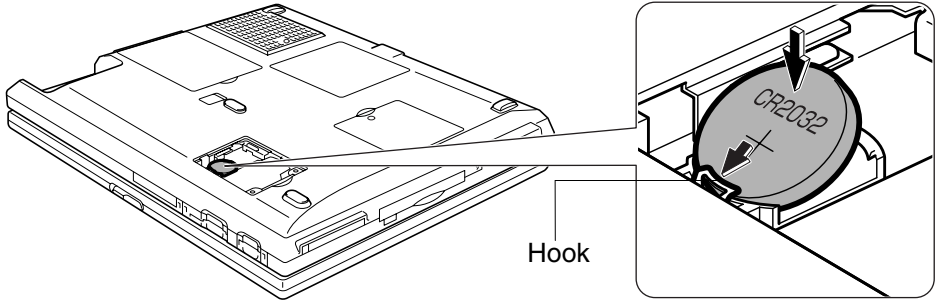


4. Remove the backup battery.

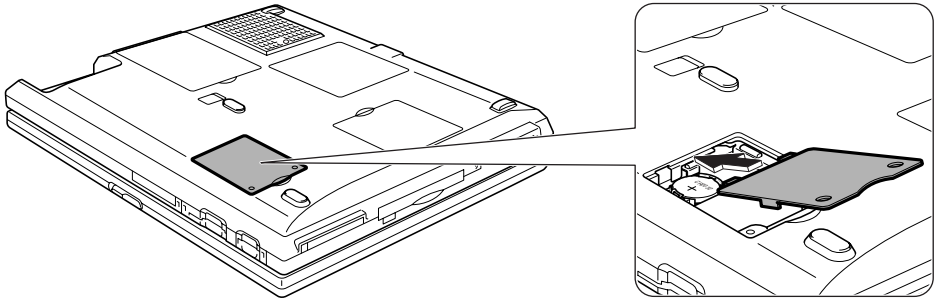


Never use a metallic material. If the material touches to the circuit, your computer may malfunction.

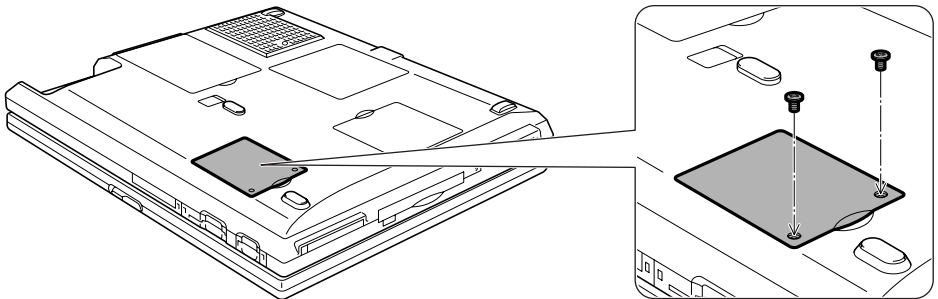
5. Insert a new backup battery, with the plus side (a part number is printed) up, into the hook of the socket and press it down.



6. Put back the cover.



7. Tighten the screws.

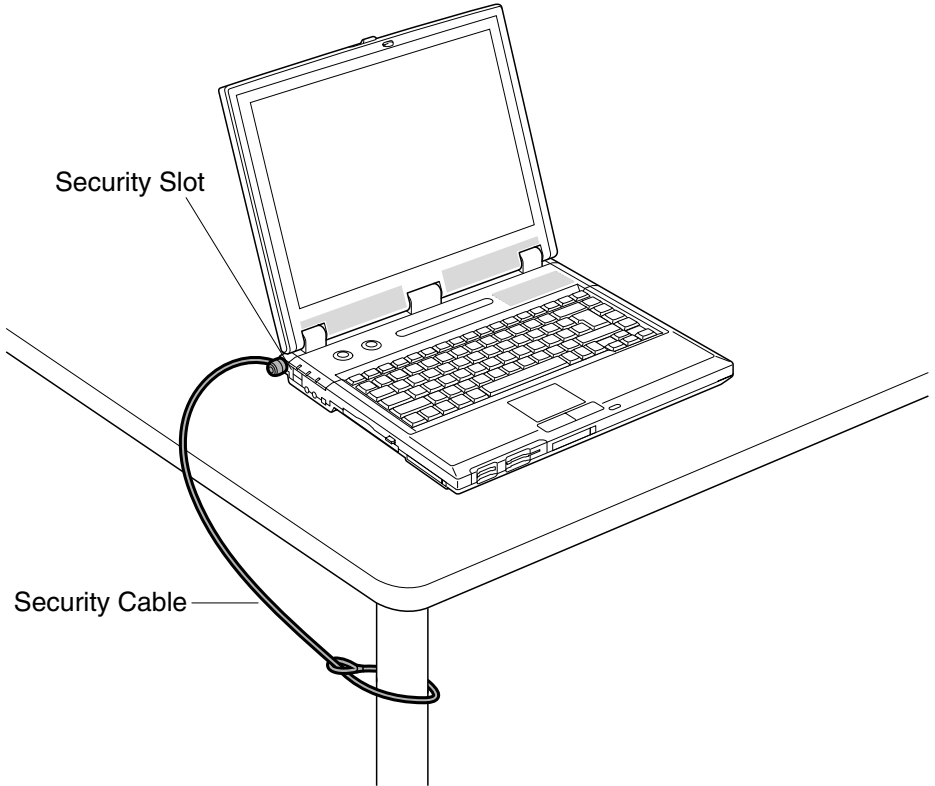


8. Insert the rechargeable battery pack and turn your computer over.
9. Connect the AC adapter and turn on your computer.
10. If you see the message *Press F1 to Continue*, press **F2** to open Setup Utility.
11. In exit menu, select *Load Setup Defaults* and press Enter twice.

12. Confirm *Exit Saving Changing* is highlighted and press Enter twice. The system will start.
13. Double-click the time appearing on the right of the taskbar.
14. Set the time and date in *Date and Time Properties* dialog box and click *OK*.
15. Close the dialog box.

Using Security Cable

You can connect a security cable to the security slot on your computer to prevent theft.



Cleaning Computer

Cabinet

Apply a small amount of mild cleaning solution to a dry, lint-free cloth and wipe the cabinet with the cloth.



- *Never clean your computer while it is powered on.*
 - *Do not use alcohol, benzene, thinner or other strong chemical agents that may damage the cabinet.*
-

Screen

The surface of the screen may become smeared and accumulate dust during use. Avoid touching the screen with your fingers when using the system. Gently wipe the surface of the screen with a soft cloth that has been dipped in a mild detergent solution and squeezed dry.

Glide Pad

Wipe the glide pad with a soft, dry cloth.

Ventilation Openings (including Cooling Fan)

Dust on the ventilation openings may cause overheating of your computer. Wipe the ventilation openings with a soft, dry cloth.

Traveling with Your Computer

Your computer is designed for portability. For safety and convenience when traveling, please follow these guidelines.

- Before traveling, back up your data on external media.
- Do not travel with a protruding PC card inserted in the PC card slot of your computer.
- Make sure no external media such as a floppy disk, CD, etc. is inserted in the drive(s) or slot(s).
- Do not carry your computer powered on. This may result in loss of data and/or damage to the hard disk drive.
- Make sure the display cover is completely closed before traveling. Otherwise, the cover may be opened unexpectedly and the display and/or the keyboard will be damaged.

- If you carry your computer in a bag, try to avoid unnecessary pressure, caused by the stuff of the bag, to your computer.
- Disconnect the AC adapter and any other cables and any peripherals from your computer.
- Fully charge the standard battery pack and bring the AC adapter and the AC power cord with your computer.
- Avoid sudden shocks or extreme vibration.

Troubleshooting

This chapter describes how to troubleshoot computer problems.

Common Problems

Problems with your computer can be caused by something as minor as an unplugged power cord or as major as a damaged hard disk drive. The information in this troubleshooting section is designed to help you find and solve minor problems. If you still have a problem after trying all the suggested remedies in this chapter, contact your dealer.

The problems that you might encounter can be divided into two basic categories: hardware and software. Hardware problems can be further divided into being of an electrical or a mechanical nature. You will know you have a hardware problem if, for example, the screen is blank, or your computer cannot recognize the disk drives.

Software problems can occur at several levels. Both your operating system and your software application programs are capable of generating errors and error messages. If you encounter a software error, try to determine if the error message is from your operating system or from an application program, and refer to the appropriate manual for possible remedies.

You can also refer to the Windows XP manual or Windows help program to solve the problem. To access the help program, Click *start – Help and Support*. It also gives you troubleshooting tips and an index.

Successful troubleshooting is the result of careful observation, deductive reasoning, and an organized approach to solving the problem. If you encounter a problem, begin by performing a careful visual inspection. Check the exterior of your computer first. If no lights are displayed, check the battery charge or power outlet, the plug and power cord, and any power switches that may affect your computer. If your computer has been connected to any peripheral devices, look for loose or disconnected cables. You may also need to check the fuses and breakers in your electric box. A few common problems and suggested solutions are presented in the examples that follow.

Trouble when Starting

Question: Why doesn't the power indicator or the battery indicator turn on?

- Confirm the AC adapter is correctly connected to the AC adapter jack of your computer.
- Confirm the AC power cable is correctly connected to a live wall outlet. Connect another electric equipment to the wall outlet and check whether it is live or not.
- Confirm the battery pack is correctly installed and charged.
- If the battery pack is discharged or undercharged, connect the AC adapter.
- If all the steps above failed, reset your computer with the steps on *Why doesn't the keyboard or the glide pad function?* section.

Question: Why can't I boot from the floppy disk?

- Check whether the floppy disk in the floppy disk drive is a bootable disk.
- Check whether *Floppy Disk Drive* is selected in *1st Boot Device* in *Boot Sequence* of the *Main* menu of the Setup Utility.

Question: Why do I get the message "Remove disks or other media. Press any key to restart"?

- You may have inserted a non-bootable disk in the floppy disk drive (either a defective disk or one without an installed operating system). Remove the disk.
- You may have inserted a disk in the optical drive. The system may have tried to boot from the disk and failed. Remove the disk.
- Boot the system from the hard disk. Use the Setup Utility to change the boot order. (Refer to *Main Menu* of Chapter 6.)
- Set all the settings of the Setup Utility back to the default settings. (Refer to *Exit Menu* of Chapter 6.)
- Disconnect all the peripherals from your computer if connected.
- The system file may be damaged. Re-install the system. (Refer to *Re-installation Instructions* on the provided supplement.)

Question: Why do I get the message *Press<F1> to continue?*

- The setting of the Setup Utility is deleted. Follow these instructions.
 1. Press **F2** to open Setup Utility.

2. In exit menu, select *Load Setup Defaults* and press **Enter** twice.
 3. Confirm *Exit Saving Changing* is highlighted and press **Enter** twice. The system will start.
 4. Set time and date correctly.
- If you often see the message even after performing the above, the backup battery should have no capacity left. Replace the backup battery referring to the steps in *Replacing Backup Battery* in *Appendixes*.

Question: Why do I get the message Press ‘H’ to retry Hard Disk, any other key for floppy?

- If you cancel the re-installation on the way, you will see the message above. Restart re-installation from the beginning of *Re-installation Instructions* procedures in *Appendixes* and format the entire hard disk (both C: and D: drives) this time.

Trouble with Display

See also the display related section of Chapter 2 and 4.

Question: Why is the screen blank?

- Power management may be working. Press any key or the power button to resume from the power management.
- Confirm your computer is powered on.
- If you are using a battery pack, make sure it is correctly installed and has a charge remaining.
- Make sure the LCD screen is selected as the display by pressing **Fn+F5** (☒) when an external monitor is connected to your computer.
- Check whether the display is on by pressing **Fn+F11** (☒).
- If you still have the problem after trying the above, reset your computer with the steps in *Why doesn't the keyboard or the glide pad function?* in *Trouble with Keyboard/Glide Pad* section.

Question: Why does the external monitor display nothing or the distorted image?

- Confirm the monitor is turned on.
- Confirm the monitor is connected correctly.
- If the television set is connected to your computer, disconnect it.

- Make sure the external monitor is selected as the output display by pressing **Fn+F5** (⏏).
- If you use **Fn+F5** (⏏) to change the output display, the image may be distorted. Press **Fn+F5** (⏏) again to return the previous display and use *Display Properties* dialog box to change it again.
- Make sure the value of the *Screen resolution* in the *Settings* tab of the *Display Properties* is as same as that of the external monitor resolution or lower.
- Make sure the external monitor is not near any electric devices having strong magnetic fields such as a TV set or radio.
- Do not share an outlet with a TV set or radio.

Question: Why can't I change the display with Fn+F5 keys?

- When playing the animation or game, **Fn+F5** (⏏) key combination may not work. Close the currently running application.
- When running DOS in the full screen mode, **Fn+F5** (⏏) key combination may not work.
- Use *Display Properties* dialog box to change it.
- When the image on your LCD is extended onto an external monitor, **Fn+F5** (⏏) key combination does not work.
- If you connect the television set, **Fn+F5** (⏏) key combination does not work. Use *Display Properties* dialog box to change it.

Question: Why does the television set display nothing or the distorted image?

- Confirm the television set is turned on.
- Confirm the television set is connected correctly.
- Make sure *TV* is selected as the output display by using *Display Properties* dialog box. (Refer to *Displaying Video on TV Set* section in Chapter 2.)
- If an external monitor is connected to your computer, disconnect it.
- Confirm the TV type (NTSC or PAL) of your computer is set to the appropriate one. To change the type, follow the steps below:
 1. In *Display Properties* dialog box, click *Settings* tab – *Advanced* button.
 2. Select *GeForce4 440 Go 64M* tab. A sub-panel will appear on the left.
 3. Click *nView Display Mode* in the panel.


4. Click *Device Settings*>> button – *Select Output Device*.
 5. Confirm *TV* is selected and click *Advanced*....
 6. In *Device Settings* dialog box, select the appropriate TV type from *Format* pull-down menu.
 7. Click *OK* and follow the on-screen instructions.
- Confirm *TV SYSTEM* in the Setup Utility is set to the appropriate type.
 1. Enter the Setup Utility. (Refer to Chapter 6.)
 2. In *Advanced* menu, select *TV SYSTEM* and press **Enter** to open its sub menu.
 3. Confirm the appropriate TV type is selected; then, click *OK*.
 4. Exit the Setup Utility.

Trouble with Keyboard/Glide Pad

Question: Why doesn't the keyboard or the glide pad function?

- Try the followings in this order:
 1. Press **Ctrl+Alt+Delete** simultaneously and select *Users* tab of *Windows Task Manager* dialog box. Click *Disconnect* or *Logoff*; then, *Yes*.
 2. If the step1 does not work, press the power switch for more than four seconds to turn off your computer. Ten seconds later, turn it on.
 3. If pressing the power button fails to turn off your computer, remove the AC cord, then, the battery pack. Ten seconds later, reinstall the battery pack, connect the AC cord and then, turn on your computer.

Question: Why does the glide pad malfunction?

- The surface of the glide pad or your palm may be moist or dirty and grease. Wipe the glide pad with a soft, dry cloth.
- See the pad icon on the taskbar. When it is crossed () , remove the connected USB mouse. (Refer to *Enabling Glide Pad* section of Chapter 2.)
- Confirm *Internal Pointing Device* is enabled in *Advanced* menu of the Setup Utility.

Trouble with Floppy Disks

Question: Why can't I use a floppy disk?

- Confirm the floppy disk is inserted correctly.
- Confirm the drive and file name are correct.
- The floppy disk may not be formatted or could be corrupted. Format the disk or use another disk.
- If you cannot write to a floppy disk, the disk may be write-protected. Eject the disk and ensure that the write-protect tab covers the detection hole.
- If you cannot write to a floppy disk, the disk may be full. Use another disk.

Question: Why can't I format a floppy disk?

- You cannot format a double-density (2DD) 720KB floppy disk.

Trouble with the Hard Disk

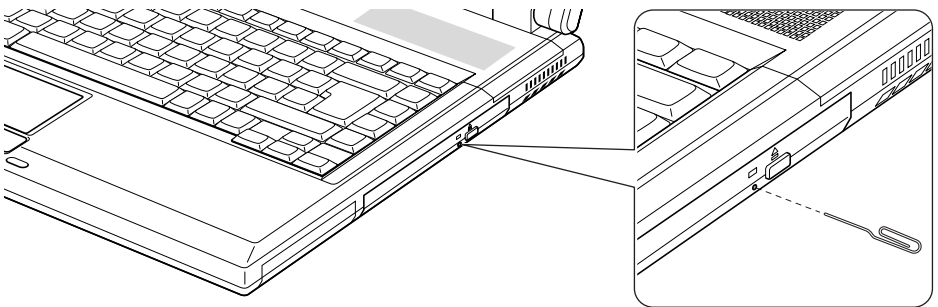
Question: Why can't I read or write data to/from the hard disk?

- Confirm the drive and file names are correct.
- Confirm the hard disk has sufficient free space.

Trouble with the Optical Drive

Question: Why does not the drive open?

- Confirm your computer is turned on.
- Turn off your computer, then, insert a fine rod into the drive tray ejection hole.



Question: Why can't I read/write data from/onto a disc or play files?

- Confirm the disc is inserted correctly.
- Confirm the drive and file names are correct.
- Confirm the disc is not stained or scratched.
- Confirm the disc or files are supported.

Question: Why can't I record data to DVD-RAM?

- The Windows CD writing function may be enabled. Disable it. (Refer to *Writing to CD-R or CD-RW* section of Chapter 2.)

Question: Why does it take much time to write small data onto DVD-R/-RW?

- DVD-R/-RW discs require 1GB of minimum filling before closing. When writing smaller than 1GB data onto the discs, you need to wait for dummy data to fill up to 1GB due to this limitation.

Question: Why doesn't the DVD movie play smoothly?

- Ensure to use AC power.
- Power management may be working. Disable it.
- When playing a DVD video, you may experience a picture with an irregular motion, or frame dropouts, depending on videos. Enabling the *Hardware Decode Acceleration* function of WinDVD may help to this problem. Follow these instructions to enable the function.
 1. Quit the video playback if it is running.
 2. Right-click somewhere in the *InerVideo WinDVD4* window and select *Setup...* from the pop-up menu. *Setup* dialog box will open.
 3. Click *Video* tab.
 4. Check the box of *Use Hardware Decode Acceleration* in *Video Hardware Configuration* field.
 5. Click *OK*.

When the *Hardware Decode Acceleration* function is enabled, the *LCD Optimization* function becomes disabled even if it is checked in the *Video* tab of the *Setup* dialog box. (Refer to *Help* of WinDVD for *LCD Optimization*.)

Question: Why isn't the optical drive recognized?

- If your computer is turned on with some kind of DVD inserted in the drive, the drive may not be recognized. In this case, turn off your computer and open the disk tray with the step on *Question: Why does not the drive open?* on the previous page. Remove the disk from the drive; then turn on your computer again.

Trouble with Communication

Question: Why can't I communicate through the built-in modem?

- Confirm the telephone line is properly connected to the modem jack.
- Confirm the dial setting (pulse or tone) of Windows and/or communication software are matched with the telephone line.
- If you set your connection status using *New Connection Wizard*, check the box of *Use dialing rules* in the *Properties* dialog box of that connection status. Refer to *Internet Connection* of Chapter 5.
- Confirm the country/region setting is appropriate.
- Confirm the network configuration is appropriate.
- Confirm the user name or password is correct.
- Confirm the COM port in the communication software is set appropriately.
- Turn off the power management on Windows.
- If an unusual device is attached to the connected line, the modem may not function properly. Remove the device or contact the dealer of the device.
- If your computer is connected to a PBX, consult the PBX maintenance staff or its service company. If the electric characteristics of your PBX are different from those of a regular analog line, the modem will not function properly. If you connect the modem to a digital PBX, both the modem and the PBX may be damaged.


Question: Why is the communication speed so slow?

- Close the applications currently opened.
- Try to connect another ISP (Internet Service Provider), or try to connect in some other time.

Question: Why can't I access the LAN?


- Confirm the cable is properly connected to the LAN jack and the network hub.
- Confirm the network configuration is appropriate. Follow these steps:
 1. Open the *System Properties* dialog box.
 2. Click *Hardware* tab; then *Device Manager* button.
 3. Double-click the *Network adapters* string, then, *SiS 900-Based PCI Fast Ethernet Adapter*.
 4. Click *Advanced* tab, select *Media Type* in *Property* field and set the appropriate value in *Value* field.
- Confirm the LAN driver is enabled with the following steps.
 1. Follow the steps 1 through 3 above.
 2. Click *General* tab; then, confirm *Use this device (enable)* is selected in *Device usage* field.
- Confirm the user name or the password is correct.

Question: Why can't I detect the access point on my computer?


- Confirm the access point is powered on.
- Confirm the antenna indicator is lit.
- Restart your computer.
- Confirm your computer is enabled for the wireless LAN.
- Detect the access point with the following steps.
 1. Click *start – Control Panel*.
 2. Click *Network and Internet Connections – Network Connections*. In Classic view, double-click *Network Connections* icon. *Network Connections* dialog box appears.
 3. Right-click *Wireless Network Connection*; then, click *Disable*.
 4. Right-click *Wireless Network Connection* again; then, click *Enable*.
- When you have more than one access points, your computer may be connected to other than right one you want to access. Follow the steps bellow.
 1. Right-click *Wireless Network Connection* icon () on the taskbar; then, click *View Available Wireless Networks*.

2. Select the desired network in the *Available wireless networks* list; then, connect to the network. (Refer to *Confirming Status of Wireless Connection* section in Chapter 5.)

Question: Why can't I connect to the network via an access point?

- Confirm the wireless LAN antennas are enabled. When the antenna indicator lights green, the antennas are enabled. If not, press **Fn+F1** () keys.
- Confirm *Any available network (access point preferred)* is selected in *Networks to access* of *Advanced* dialog box. (To open *Advanced* dialog box, refer to *Communicating with Other Computers* section in Chapter 5.)
- Confirm the *Network name* of your computer matches that of the access point you want to communicate with.
- Confirm the *Network key* is correctly entered if the WEP security of the access point is enabled.
- You may have accidentally enabled IEEE802.1x authentication. Disable it with the following steps.
 1. Click *start – Control Panel*.
 2. Click *Network and Internet Connections – Network Connections*. If Classic view is selected, double-click *Network Connections*.
 3. Right-click *Wireless Network Connection* and click *Properties*.
 4. Click *Wireless Networks* tab, select the network in *Preferred networks* field and click *Properties* button.
 5. Select *Authentication* tab, then, uncheck the box of *Enable IEEE802.1x authentication for this network*.
 6. Click *OK* twice and close the window.

Question: Why can't I communicate with other computers through wireless LAN?

- Confirm the antennas are enabled with pressing **Fn+F1** () key combination. When the antenna indicator is on, the antennas are enabled. (Refer to *Activating Antenna* section of *Wireless LAN* in Chapter 5.)
- Confirm each computer is enabled for wireless LAN.
- Confirm *Computer-to-computer (ad hoc) networks only* is selected in *Networks to Access* of *Advanced* dialog box. (To open *Advanced* dialog box, refer to

Communicating with Other Computers section in Chapter 5.) Also confirm the other computers are in ad-hoc mode.

- Adjust the distance between your computers by bringing your computer closer to others and remove any obstructions that may impede the communication; then, try to connect again.
- Confirm the IP address and the subnet mask of each computer are set correctly.
- Confirm the WEP keys are correctly set to your computer if the WEP security of the communicated computers is enabled.

Question: How can I detect the MAC address?

- Follow the instructions below:
 1. Click *start – All Programs – Accessories – Command Prompt*.
 2. Type `ipconfig/all`; then, press **Enter**. The information about IP appears.
 3. See the numbers of *Physical Address* in *Ethernet adapter Local Area Connection* section (for LAN) or *Ethernet adapter Wireless Network Connection* section (for Wireless LAN).
 4. Type `exit`; then, press **Enter**.


Trouble with Peripherals

Question: Why don't peripheral devices function?

- Confirm they are correctly connected to your computer.
- Confirm they are Windows XP compliant.
- Confirm drivers necessary for the devices are installed.
- Set *System standby* and *System hibernates* to *Never* in *Power Options Properties* dialog box. If this does not work, set *Turn off hard disks* to *Never*.

Question: Why doesn't the IEEE1394 device (DVC) function properly?

- Ensure to use AC power for your computer.
- Confirm the device is correctly connected to your computer.
- Confirm the device is Windows XP compliant.

- Confirm a driver necessary for the device is installed.
- Set *System standby* and *System hibernates* to *Never* in *Power Options Properties* dialog box. If this does not work, set *Turn off hard disks* to *Never*.
- Right-click *Norton AntiVirus* icon () on the taskbar, then, click *Disable Auto-Protect*.
- Disconnect all networks.

Question: Why can't I print?

- Make sure the printer is turned on.
- Check whether your computer and the printer are connected correctly.
- Check whether the printer is ready to print.
- Check whether the printer has enough paper.
- Check whether the printer driver is installed.
- Click *start – Control Panel*. Click *Printers and Other Hardware*; then, *Printers and Faxes*. If Classic view is selected, double-click *Printers and Faxes* icon. Confirm your printer is installed here. If not, click *Add a printer* of *Printer Tasks* section to install your printer.
- See also the Windows help program by clicking *start – Help and Support*.

Other Troubles

Question: Why is the battery pack discharged so quickly?

- Condition the battery pack. (Refer to *Conditioning Battery Pack* in Chapter 3.)

Question: Why is the date and/or time incorrect?


- Correct the date and time on Windows. Double-click the time appearing on the taskbar and set them in *Date and Time Properties* dialog box.

Question: Why can't I use a hardware device?

- Make sure the hardware device is not disabled using the following procedure.
 1. Click *start– Control Panel*.

2. Click *Performance and Maintenance*; then, *System*. If Classic view is selected, double-click *System* icon.
3. Click *Hardware* tab; then, *Device Manager* button.
4. Double-click the device you cannot use.
5. Confirm *Use this device (enable)* is selected in *Device usage* field.

Question: Why can't I produce sound?

- Press **Fn+F4** () to increase the output volume.
- Double-click the speaker symbol on the taskbar and check the Windows volume. If you cannot find the icon, click *start – Control Panel*. Click *Sounds, Speech, and Audio Devices*; then, *Sounds and Audio Devices*. If Classic view is selected, double-click *Sounds and Audio Devices* icon. Check the box of *Place volume icon in the taskbar*.

Question: Why can't I turn off my computer?

- Follow the instructions on *Why doesn't the keyboard or the glide pad function?*

Question: Why my computer is so hot?

- When charging the battery pack, its surrounding area or the front of the keyboard may become hot, but this is not a problem.

Question: Why can't I record the sound from the microphone?

- Follow these steps.
 1. Double-click the speaker symbol on the taskbar.
 2. In *Volume Control* dialog box, click *Options* and select *Properties*.
 3. Select *Recording* in *Adjust volume for* and confirm *Microphone* is checked in *Show the following volume controls*; then, click *OK*.
 4. Confirm the box of *Select* is checked in *Microphone* of *Recording Control* dialog box.
 5. Close *Recording Control* dialog box.

Question: Why the recording level is low?

- Follow these steps.
 1. Double-click speaker symbol on the taskbar.
 2. In *Volume Control* dialog box, select *Properties* from *Options* menu.
 3. Check *Recording* in *Adjust volume for* section, then, click *OK*.
 4. In *Recording Control* dialog box, select *Advanced Controls* from *Options* menu. *Advanced* button will appear in *Microphone* field.
 5. Click *Advanced* button and confirm the box of *1 Mic Boost* in *Other Controls* section is checked.
 6. Click *Close* button.
 7. Close the *Recording Control* dialog box.

Question: Why can't I find the drivers and applications?

- You may accidentally remove them. They are stored on the last recovery disk. (i.e. when three recovery CDs are provided, they are stored on the “Disk 3”.) When you are not sure how to install them or the CD does not have the drivers or applications, consult local service staff.

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