



Panasonic®

Personal Computer

OPERATING INSTRUCTIONS

Model No. **CF-W2 Series**

XP

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[Additional Manual]

Reference Manual

This manual can be accessed on your computer. Refer to page 20 on how to access the Reference Manual.

Getting Started

Operation

Troubleshooting

Appendix

Customer's Record

Model No. *1	Dealer's Name
Serial No.	
or	
Code No.	Dealer's Address
Date of Purchase	

*1 For the Model No., insert the 12 digit number (for example, CF-W2DWAZZKM) located on the bottom of the computer.

Introduction



Thank you for purchasing the Panasonic computer. Read the operating instructions thoroughly for proper operation of your new computer.

Illustrations and Terminology in this Manual

NOTE:

CAUTION:

 :

 +  :

[start] - [Run]:

 :

 Reference Manual :


NOTE provides a useful fact or helpful information.

CAUTION indicates a condition that may result in minor or moderate injury.

This illustration means to press the [Enter] key.

This illustration means to press and hold the [Fn] key, then press the [F5] key.

When using with the [Fn] and [Ctrl] functions interchanged, read with [Fn] and [Ctrl] reversed.

 Reference Manual "Key Combinations"

This illustration means to click [start], then to click [Run]. For some applications, you may need to double-click.

Where to go for referred information.

This illustration means to refer to the Reference Manual, which is available on your computer.

Refer to page 20 on how to access this manual.

- Some of the illustrations in this manual may differ slightly in shape from the actual items in order to make the explanation easier to understand.
- In this manual, "Microsoft® Windows® XP Professional" is indicated as "Windows" or "Windows XP".
- In this manual, the following software packages are described as follows:
 - "WinDVD™ 5 (OEM Version)" as "WinDVD"
 - "B's Recorder GOLD7 BASIC" as "B's Recorder"
 - "B's CLiP 5" as "B's CLiP"
- If the user has logged on without the administrator authority, some functions may not be executable, and some screens may not be displayed as shown in this manual. If this happens, log on with the administrator authority to enable these functions.
- Confirm the latest information on optional products in catalogs, etc.
- Circular media such as DVD-ROM and CD-ROM are described as "discs".

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Read Me First

For U.S.A.

Federal Communications Commission Radio Frequency Interference Statement

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 separation 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 Panasonic Service Center or an experienced radio/TV technician for help.

Warning

To assure continued compliance, use only shielded interface cables when connecting to a computer or peripheral. Also, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FCC RF Exposure Warning:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment must be installed and operated in accordance with provided instructions and minimum 1.5 cm spacing must be provided between antenna and all person's body (excluding extremities of hands, wrist and feet) during wireless modes of operation.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter. This computer is provided with a PC Card slot that could be used with wireless transmitter(s), which will be specifically recommended, when they become available. Other third-party wireless transmitter(s) have not been RF exposure evaluated for use with this computer and may not comply with FCC RF exposure requirements.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two 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: Matsushita Electric Corporation of America
One Panasonic Way
Secaucus, NJ 07094
Tel No: 1-800-LAPTOP-5 (1-800-527-8675)

FCC Regulation Notice for modem

This equipment contains a FCC approved modem.

Manufacturer of modem: PC TEL Inc.

Model No. PCT2304WT

FC Tested To Comply
With FCC Standards
FOR HOME OR OFFICE USE

1. This equipment complies with CFR47 Part 68 rules. On the computer is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If required, this information must be provided to the telephone company.
2. An FCC compliant telephone cord and modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack which is Part 68 compliant. See Installation Instructions for details.
3. 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 area, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company.
4. If your telephone equipment cause 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 is necessary.
5. The telephone company may take 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 necessary modifications to maintain uninterrupted service.
6. If trouble is experienced with this equipment, for repair or warranty information, please contact Matsushita Electric Corporation of America at DIAL TOLL FREE 1-800-LAP-TOP5 (1-800-527-8675). If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.
7. There are no user serviceable parts contained in this equipment.
8. This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs.
9. The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device to send any message via a telephone fax machine 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 entry, or other individual sending the message and the telephone number of the sending machine or such business, other entity, or individual. In order to program this information into your fax software, you should refer to the manual of the Fax software being used.

Read Me First

10. According to the FCC's electrical safety advisory, we recommend that you may install an AC surge arrester in the AC outlet to which this equipment is connected. Telephone companies report that electrical surges, typically lightning transients, are very destructive to customer terminal equipment connected to AC power sources and that this is a major nationwide problem.

"Caution: To reduce the risk of fire, use only No.26 AWG or larger telecommunication line cord."

"ATTENTION: Pour réduire le risque d'incendie, utiliser uniquement des conducteurs de télécommunications 26 AWG ou de section supérieure."

Notice for the products using LCD

This product uses one or more fluorescent lamps containing a small amount of mercury. It also contains lead in some components. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance: <http://www.eiae.org/>

For Canada

Industry Canada (IC) Notice for modem

This equipment contains an Industry Canada approved modem unit.

The Industry Canada label is affixed on the modem unit.

EQUIPMENT ATTACHMENT LIMITATIONS

"NOTICE: The Industry Canada label identifies certified equipment. This certification means that the equipment meets telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas. Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate."

"NOTICE: The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5."

REN: See bottom of the computer

Industry Canada

This product complies with RSS210 Industry Canada.

Operation is subject to the following two conditions;

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

RESTRICTIONS CONCERNANT LE RACCORDEMENT DE MATÉRIEL

"AVIS: L'étiquette d'Industrie Canada identifie le matériel homologué. Cette étiquette certifie que le matériel est conforme aux normes de protection, d'exploitation et de sécurité des réseaux de télécommunications, comme le prescrivent les documents concernant les exigences techniques relatives au matériel terminal. Le Ministère n'assume toutefois pas que le matériel fonctionnera à la satisfaction de l'utilisateur.

Avant d'installer ce matériel, l'utilisateur doit s'assurer qu'il est permis de le raccorder aux installations de l'entreprise locale de télécommunication. Le matériel doit également être installé en suivant une méthode acceptée de raccordement. L'abonné ne doit pas oublier qu'il est possible que la conformité aux conditions énoncées ci-dessus n'empêche pas la dégradation du service dans certaines situations.

Les réparations de matériel homologué doivent être coordonnées par un représentant désigné par le fournisseur. L'entreprise de télécommunications peut demander à l'utilisateur de débrancher un appareil à la suite de réparations ou de modifications effectuées par l'utilisateur ou à cause de mauvais fonctionnement.

Pour sa propre protection, l'utilisateur doit s'assurer que tous les fils de mise à la terre de la source d'énergie électrique, des lignes téléphoniques et des canalisations d'eau métalliques, s'il y en a, sont raccordés ensemble. Cette précaution est particulièrement importante dans les régions rurales. Avertissement: L'utilisateur ne doit pas tenter de faire ces raccordements lui-même; il doit avoir recours à un service d'inspection des installations électriques, ou à un électricien, selon le cas."

"AVIS: L'indice d'équivalence de la sonnerie (IES) assigné à chaque dispositif terminal indique le nombre maximal de terminaux qui peuvent être raccordés à une interface. La terminaison d'une interface téléphonique peut consister en une combinaison de quelques dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de tous les dispositifs n'excède pas 5."

IES: Voir sous le fond de l'ordinateur

Important Safety Instructions / Importantes Mesures De Sécurité

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 following:

1. 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.
2. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
3. Do not use the telephone to report a gas leak in the vicinity of the leak.
4. Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.

SAVE THESE INSTRUCTIONS

Certaines mesures de sécurité doivent être prises pendant l'utilisation de matériel téléphonique afin de réduire les risques d'incendie, de choc électrique et de blessures. En voici quelquesunes:

1. Ne pas utiliser l'appareil près de l'eau, p.ex., près d'une baignoire, d'un lavabo, d'un évier de cuisine, d'un bac à laver, dans un sous-sol humide ou près d'une piscine.
2. Éviter d'utiliser le téléphone (sauf s'il s'agit d'un appareil sans fil) pendant un orage électrique. Ceci peut présenter un risque de choc électrique causé par la foudre.
3. Ne pas utiliser l'appareil téléphonique pour signaler une fuite de gaz s'il est situé près de la fuite.
4. Utiliser seulement le cordon d'alimentation et le type de piles indiqués dans ce manuel. Ne pas jeter les piles dans le feu: elles peuvent exploser. Se conformer aux règlements pertinents quant à l'élimination des piles.

CONSERVER CES INSTRUCTIONS

For Europe



Declaration of Conformity (DoC)

"Hereby, we and Panasonic Testing Centre (Europe) GmbH (PTC), declares that this Personal Computer is in compliance with the essential requirements and other relevant provisions of the Directive 1999/5/EC."

Hint:

If you want to get a copy of the original DoC of our products which relates to the R&TTE, please contact to our web address: <http://doc.panasonic-tc.de>

Network connection.

The terminal equipment is intended for connection to the following public network;

In all the countries of European Economical Area;

- Public Switched Telephony Networks

Technical Features.

The terminal equipment includes the following features;

- DTMF dialing
- Maximum bitrate receiving mode: 56 kbits/s
- Maximum bitrate sending mode: 33.6 kbit/s

This product is designed to interwork with the Public Switched Telecommunication Networks in UK, Ireland, Netherlands, Sweden, Denmark, Finland, Switzerland, Luxembourg, Belgium, France, Germany, Spain, Portugal, Iceland, Greece, Italy, Norway and Austria.

Compliance Notice - CE Mark

This equipment is in conformance with the requirements of the European Council Directive listed below:

73/23/EEC Low Voltage Directive with amendment 93/68/EEC

89/336/EEC EMC Directive with amendments 92/31/EEC and 93/68/EEC

1999/5/EC

Read Me First

For U.K. and Hong Kong

Warning

This apparatus must be earthed for your safety.

To ensure safe operation the three-pin plug must be inserted only into a standard three-pin power point which is effectively earthed through the normal household wiring.

Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth. Wrongly wired extension cords are a major cause of fatalities.

The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe.



For your safety, if you have any doubt about the effective earthing of the power point, consult a qualified electrician.

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 3 amp fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 3 amps and that it is approved by ASTA or BSI to BS 1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.

Warning: THIS APPLIANCE MUST BE EARTHED. Important


The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow: Earth

Blue: Neutral

Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured GREEN-and-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol  coloured GREEN or GREEN-and-YELLOW.

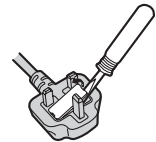
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured RED.

The mains plug on this equipment must be used to disconnect the mains power.

Please ensure that a socket outlet is available near the equipment and shall be easily accessible.

How to replace the fuse

Open the fuse compartment with a screwdriver and replace the fuse.



Warnings

- This equipment is not designed for connection to an IT power system. (An IT system is a system having no direct connections between live parts and Earth; the exposed-conductive-parts of the electrical installation are earthed. An IT system is not permitted where the computer is directly connected to public supply systems in the U.K.)
- Disconnect the mains plug from the supply socket when the computer is not in use.

This equipment is produced to BS800/1983.

Information to the User

This product and your Health

This product, like other radio devices, emits radio frequency electromagnetic energy. The level of energy emitted by this product however is far much less than the electromagnetic energy emitted by wireless devices like for example mobile phones.

Because this product operates within the guidelines found in radio frequency safety standards and recommendations, we believe this product is safe for use by consumers. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature. In some situations or environments, the use of this product may be restricted by the proprietor of the building or responsible representatives of the organization. These situations may for example include:

- Using this product on board of airplanes, or
- In any other environment where the risk of interference to other devices or services is perceived or identified as harmful.

If you are uncertain of the policy that applies on the use of wireless devices in a specific organization or environment (e.g. airports), you are encouraged to ask for authorization to use this product prior to turning on the product.

Regulatory Information

We are not responsible for any radio or television interference caused by unauthorized modification of this product. The correction of interference caused by such unauthorized modification will be the responsibility of the user. We and its authorized resellers or distributors are not liable for damage or violation of government regulations that may arise from failing to comply with these guidelines.

Lithium Battery

Lithium Battery!

This computer contains a lithium battery to enable the date, time, and other data to be stored. The battery should only be exchanged by authorized service personnel.

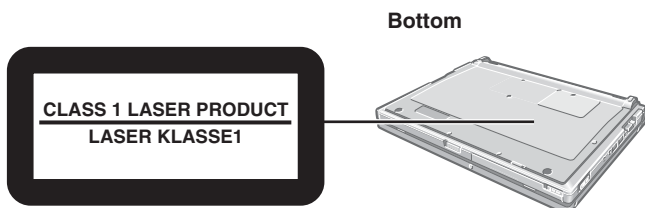
Warning! A risk of explosion from incorrect installation or misapplication may possibly occur.

Pile au lithium!

Le micro-ordinateur renferme une pile au lithium qui permet de sauvegarder certaines données comme la date et l'heure notamment. Elle ne devra être remplacée que par un technicien qualifié.

Avertissement! Risque d'explosion en cas de non respect de cette mise en garde!

DVD-ROM & CD-R/RW Drive Caution



CAUTION!

THIS PRODUCT UTILIZES A LASER.

USE OF CONTROLS, ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF.

REFER SERVICING TO QUALIFIED PERSONNEL

AVERTISSEMENT!

CET APPAREIL UTILISE UN LASER.

L'UTILISATION DE COMMANDES OU DE RÉGLAGES OU L'EXÉCUTION DE PROCÉDURES AUTRES QUE CELLES SPÉCIFIÉES ICI PEUVENT PROVOQUER UNE EXPOSITION À DES RADIATIONS DANGEREUSES.

NE PAS OUVRIR LES COUVERCLES NI ESSAYER DE RÉPARER SOI-MÊME.

CONFIER TOUT TRAVAIL D'ENTRETIEN À UN PERSONNEL QUALIFIÉ.

Read Me First

Precautions

● Usage

Avoid Extreme Heat and Cold

Do not store or use the computer in locations exposed to heat, direct sunlight, or extreme cold. Avoid moving the computer between locations with large temperature difference.

Operation: 5 °C to 35 °C {41 °F to 95 °F}

Storage: -20 °C to 60 °C {-4 °F to 140 °F}



Avoid Direct Sunlight on the LCD Panel

The LCD panel should not be exposed to direct sunlight or ultraviolet light.



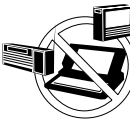
Avoid Humidity, Liquids and Dust

Do not store or use the computer in locations exposed to high humidity, liquids (including rain) or dust.



Prevent Shock

Avoid subjecting the computer to severe vibrations or impact. Do not place the computer inside a car trunk.



Avoid Radio Frequency Interference

Do not place the computer near a television or radio receiver.



Avoiding low-temperature burns

Avoid more than casual contact with any heat producing area of the notebook computer, AC adaptor, and any option or accessory you use with it. Even low heat, if warmer than body temperature, can cause a burn, if the skin is exposed to the heat source for a long enough period of time.



Do not touch the AC plug and modem telephone cable when it starts thundering.



Keep SD memory cards and MultiMedia cards (both sold separately) away from infants and small children.

Accidental swallowing will result in bodily injury. In the event of accidental swallowing, see a doctor immediately.

● Handling



Avoid Magnetic Fields

Keep the computer away from magnets. Data stored on the hard disk may be lost.



Avoid Stacking

Do not place heavy objects on top of the computer.



Keep Small Objects Away

Do not insert paper clips or other small objects into the computer.



Do Not Disassemble the Computer

Do not attempt to disassemble your computer.



Avoid Excessive Force on the Display

Do not apply excessive downward force on the display.

Precautions (Battery Pack)

- Care should be exercised with regard to the following in order to avoid the possibility of overheating, fire or damage.



Avoid Heat

Do not throw the battery pack into a fire or expose it to excessive heat.



Keep Articles Away

Do not place the battery pack together with articles such as necklaces or hairpins when carrying or storing.



Do Not Disassemble

Do not insert sharp objects into the battery pack, expose it to bumps or shocks, deform, disassemble, or modify it.



Do Not Short

Do not short the positive (+) and negative (-) contacts.



Avoid Extreme Heat, Cold and Direct Sunlight

Do not charge, use or leave the battery pack for extended periods where it will be exposed to direct sunlight, in a hot place (in a car on a sunny day, for example), or in a cold place.



Do Not Use With Any Other Computer

The battery pack is rechargeable and was intended for the specified computer. Do not use it with a computer other than the one for which it was designed.



Do Not Put into a Microwave

Do not put the battery pack into a microwave oven or a pressurized chamber.



Stop Using

Should the battery emit an abnormal odor, become hot to the touch, become discolored, change shape, or become in any way different from normal, remove it from the computer and stop using it.

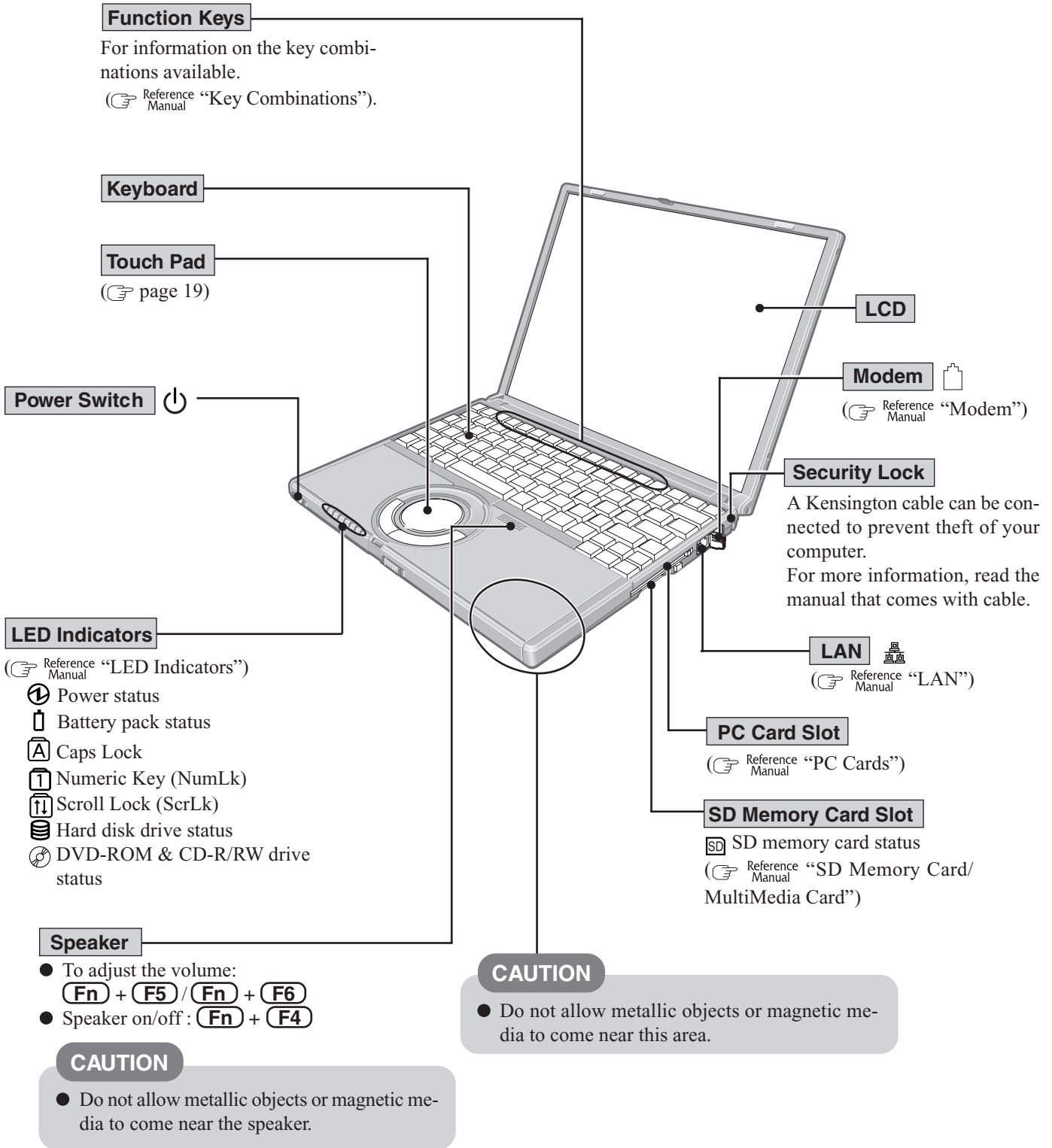
- Do not touch the terminals on the battery pack. The battery pack may no longer function properly if the contacts are dirty or damaged.
- Do not expose the battery pack to water, or allow it to become wet.

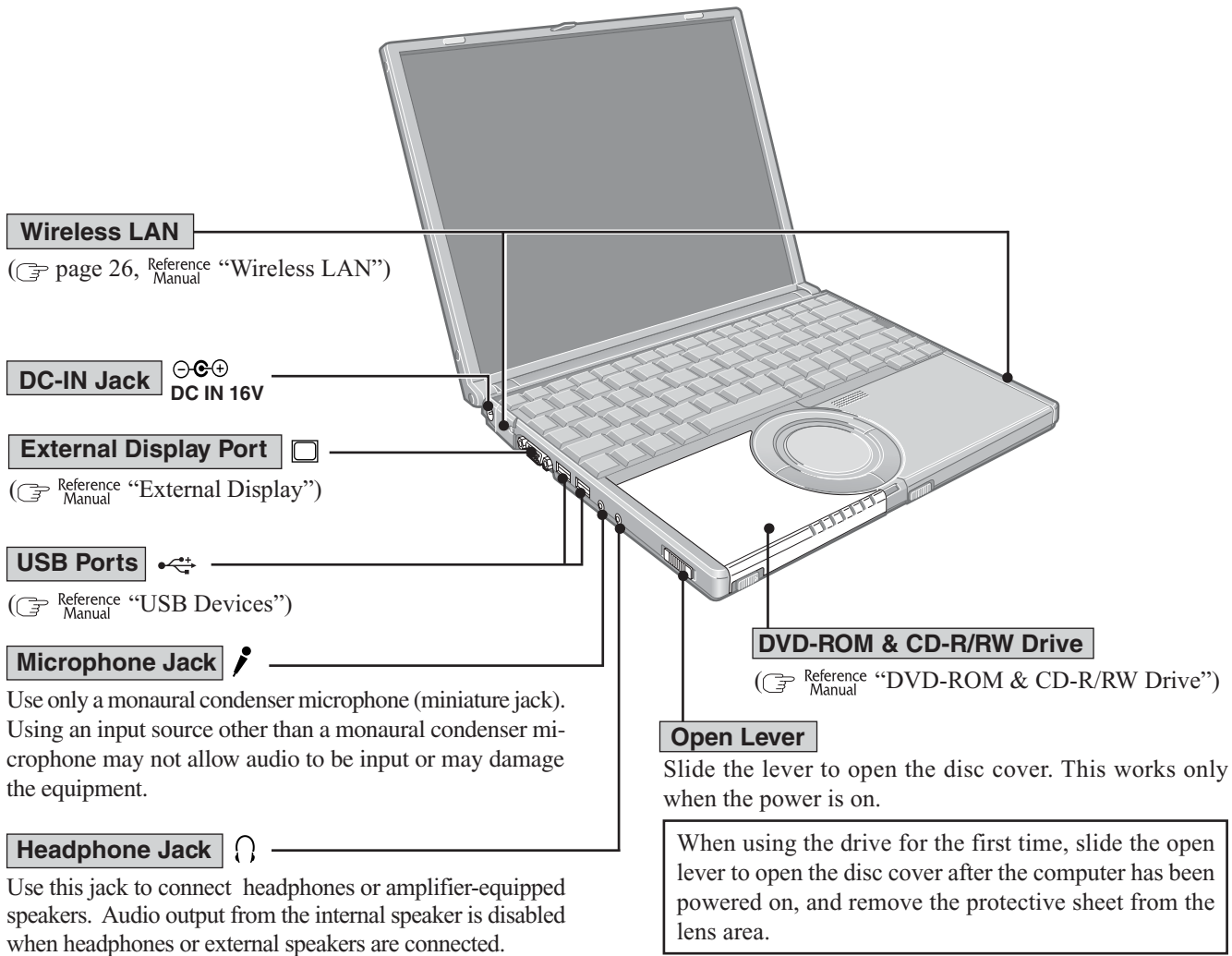
- If the battery pack will not be used for a long period of time (a month or more), charge or discharge (use) the battery pack until the remaining battery level becomes 30% to 40% and store it in a cool, dry place.
- This computer prevents overcharging of the battery by recharging only when the remaining power is less than approx. 95% of capacity.
- The battery pack is not charged when the computer is first purchased. Be sure to charge it before using it for the first time. When the AC adaptor is connected to the computer, charging begins automatically.
- Should the battery leak and the fluid get into your eyes, do not rub your eyes. Immediately flush your eyes with clear water and see a doctor for medical treatment as soon as possible.

NOTE

- The battery pack may become warm during recharging or normal use. This is completely normal.
- Recharging will not commence outside of the allowable temperature range (0 °C to 55 °C {32 °F to 131 °F}). (☞ Reference Manual “Battery Power”) Once the allowable range requirement is satisfied, charging begins automatically. Note that the recharging time varies based on the usage conditions. (Recharging takes longer than usual when the temperature is 10 °C {50 °F} or less.)
- If the temperature is low, the operating time is shortened. Only use the computer within the allowable temperature range.
- The battery pack is a consumable item. If the amount of time the computer can be run off a particular battery pack becomes dramatically shorter and repeated recharging does not restore its performance, the battery pack should be replaced with a new one.
- When transporting a spare battery inside a package, briefcase, etc., it is recommended that it be placed in a plastic bag so that its contacts are protected.
- Always power off the computer when it is not in use. Leaving the computer on when the AC adaptor is not connected will exhaust the remaining battery capacity.

Names and Functions of Parts





CAUTION

- Do not allow metallic objects or magnetic media to come near this area.

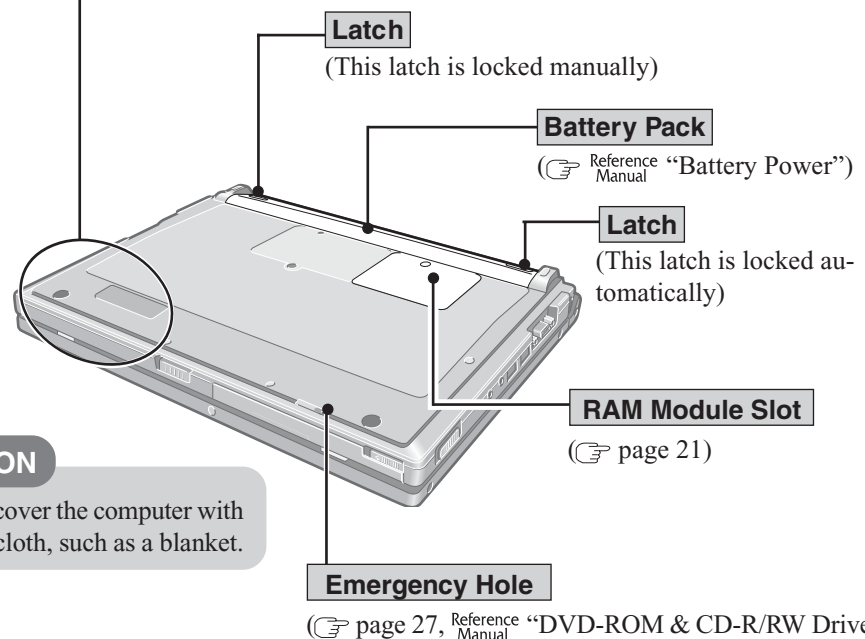


A lithium ion battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.

L'appareil que vous vous êtes procuré est alimenté par une batterie au lithium-ion. Pour des renseignements sur le recyclage de la batterie, veuillez composer le 1-800-8-BATTERY.

CAUTION

- Do not cover the computer with a thick cloth, such as a blanket.

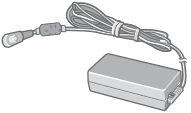
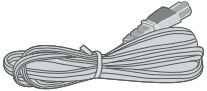
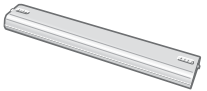




First-time Operation

Read the steps below to help you learn what parts are included, and to gain an understanding of some basic computer-related operations.

1 Confirm the inclusion of all parts.

Make sure the parts shown in the figure have been supplied. If any of these items are missing or is not working properly, contact your technical support office (☎ page 45).

AC adaptor 1	AC Cord 1	Battery Pack 1
 Model No : CF-AA1623A		 Model No :CF-VZSU27
Product Recovery DVD-ROM 1	Modem Telephone Cable 1	Operating Instructions (This book) 1
		Windows® Book 1

2 Read the LIMITED USE LICENSE AGREEMENT. (☞ page 36)

Be sure to read the LIMITED USE LICENSE AGREEMENT before breaking the seal on the computer's packaging.

3 Turn the computer over and insert the battery pack.

- ① Slide the left-side latch (A) to the unlock position (🔓).
- ② Make sure the battery pack is facing the correct direction, slide it in the direction of the arrow.
- ③ Slide the left-side latch to the lock position (🔒), and then check to ensure that the battery pack is held firmly.
(Right-side latch is locked automatically.)

CAUTION

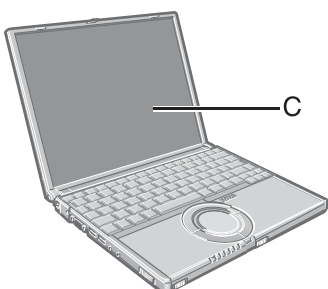
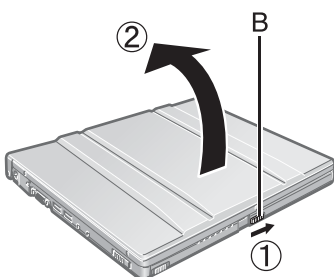
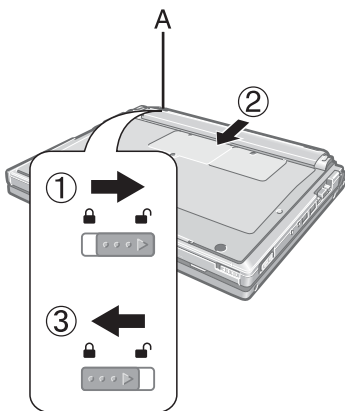
- Confirm that the latch is properly locked. If it is not, the battery pack may come off while you are carrying around the computer.
- Do not touch the terminals on the battery pack and the computer. The battery pack may no longer function properly if the contacts are dirty or damaged. Also, the computer may not operate properly.
- Before using the battery pack, carefully read "Precautions (Battery Pack)" (☞ page 9).

4 Open the display.

- ① Slide the latch (B) located at the front.
- ② Lift open the display.

CAUTION

- Do not open the display wider than necessary (135° or more).
- Do not apply excessive pressure to the LCD (C). Also, do not hold the LCD when opening or closing the display.

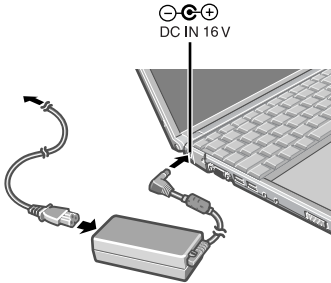


5 Connect your computer to a power outlet.

The battery pack will be charged automatically.

Charging Time: Approx. 4.5 hours

(Varies depending on the usage conditions.)



CAUTION

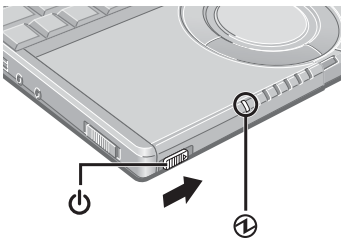
- Be sure the AC adaptor is connected until completing the first-time use operation.
- When using the computer for the first time, do not connect any peripheral device except the battery pack and AC adaptor to the computer.

Handling the AC adaptor

- Do not twist or pull the AC power cord forcefully. Doing so may damage the connections.
- Use only the specified AC adaptor with your computer. Using an AC adaptor other than the one supplied might damage the battery and/or the computer.
- When the DC plug is not connected to the computer, disconnect the AC cord from your AC wall outlet.
- Problems such as sudden voltage drops may arise during periods of thunder and lightning. Since this could adversely affect your computer, an uninterruptible power source (UPS) is highly recommended unless running from the battery pack alone.

6 Turn your computer on.



Slide the power switch  and hold it for approximately one second until the power indicator  turns on before releasing it.



CAUTION

- Do not slide the power switch and hold it for more than four seconds; this will cause the power to be turned off forcibly.
- Do not slide the power switch repeatedly.
- Once the computer is powered off, you must wait at least ten seconds before powering it on again.

7 Setup Windows.

Moving the cursor  or clicking buttons can be performed with the touch pad ( page 19).

CAUTION

- Do not press any keys or touch the touch pad until [Windows XP Professional Setup] is displayed.

- ① At [Welcome to the Windows XP Setup Wizard], select [Next].
- ② After reading the agreement, select [I accept this agreement] or [I don't accept this agreement], then select [Next].

NOTE

- If [I don't accept this agreement] is selected, the Windows setup will be aborted.

- ③ Select settings for your region, then select [Next].
- ④ Enter your name and organization and then select [Next].

First-time Operation

- ⑤ Enter your computer name and administrator password and then select [Next].

CAUTION

- Remember this password! If the password is forgotten, Windows cannot be operated.

- ⑥ Enter the correct date, time and the time zone, then select [Next].

NOTE

- It may take some time before the computer restarts and the screen of step ⑦ is displayed. Wait, and do not press any keys, or touch the touch pad, etc. If the keyboard or the touch pad etc. are operated, a message will appear indicating that there is no response on the screen, or some screens may appear white. In such cases, also wait until the next screen is displayed.


The computer will restart.

- ⑦ Enter your administrator password and select .

8 Create a new account.


- ① Select [start] - [Control Panel] - [User Accounts] - [Create a new account].
- ② Enter a new name for the new account, then select [Next].
- ③ Select [Computer administrator], then select [Create Account].
- ④ <When you want to create a password for the new account>
Select the new account you have created and select [Create a password].
Follow the instructions on the screen to create a password.
- ⑤ Select [start] - [Turn Off Computer] - [Restart] to restart the computer.

CAUTION


- Remember this password! If the password is forgotten, Windows cannot be operated. You can create a password reset disk beforehand ( page 15).

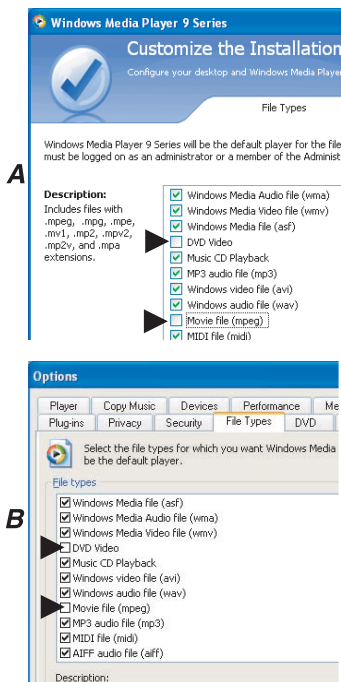
NOTE

When creating a new user account:

- If you make mail settings, create password reset disks ( page 15), or conduct other related operations before creating the user account, you will be unable to use any previous mail history or settings.
- When you create the first new account, you can only select [Computer administrator].
Once a “Computer Administrator” account has been created, you can create additional limited user accounts.
Note also that only the added user account will be displayed in the Welcome screen. The account for the administrator created during Windows setup will not be displayed.


About the Icon Enlarger:

- If the characters or icons on the screen are too small and difficult to see, after completing step 8, select [start] - [All Programs] - [Panasonic] - [Icon Enlarger]. This will allow you to magnify the display of characters and icons on the screen. ( Reference Manual “Icon Enlarger”)
- The [Icon Enlarger] can be set separately for each account.



9 Start up Windows® Media Player.

Log on with the administrator authority, and select  on the desktop. After this, start up the application following the instructions on the screen.

- During this process, you will be required to agree to the license agreement. For Windows® Media Player, it is necessary to agree to the license agreement for each account created.
- If [I Decline] is selected or a window is closed without any decision being made in the license agreement, no icons on the desktop may be selected. In this case, restart the computer.
- To have DVD video and MPEG files played back automatically on WinDVD, remove the check mark from [DVD Video] and [Movie file (mpeg)] on screen **A** or **B** on the left.
- A.** When starting up Windows® Media Player for the first time, one of the setting screens will be displayed.
- B.** After starting up Windows® Media Player, the screen will be displayed when [Tools] - [Options] - [File Types] is selected.
- After completing the settings, select  on the screen of the Windows® Media Player.

NOTE

- To improve the security of the computer, be sure to refer to “Security of the Computer” and “Windows Update”. (☞ page 25)
- If you use the wireless LAN, be sure to refer to “Wireless LAN”. (☞ page 26)

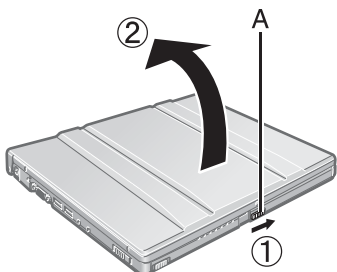
This concludes the first-time use operation guidelines.

Information for Windows XP

- Depending on the Windows settings, installed applications, and drivers, menus and other displays may differ, or some functions (such as use of the password reset disk) may be inoperable. Check with your system administrator for details.
- You can select Classic view for the Control Panel or select the Classic Start menu. You can also change the way a user logs on or off. The procedure in this manual uses the method or view of the Windows XP default setting (not Classic view nor Classic Start menu etc.).
- **Resetting the password**
Windows XP has a function to reset a forgotten password. To use this function, you need to create a password reset disk beforehand following the steps below.
 - 1 Connect the USB floppy disk drive (optional: CF-VFDU03) to your computer.
 - 2 Select [start] - [Control Panel] - [User Accounts].
 - 3 Select [Prevent a forgotten password] from [Related Tasks] menu of the account you used to logon and create a password reset disk following the on-screen instructions. Store the password reset disk in a safe place.
 - Only the logon password for each account can be reset. The password set in the Setup Utility cannot be reset.

Starting Up/Shutting Down

Starting Up

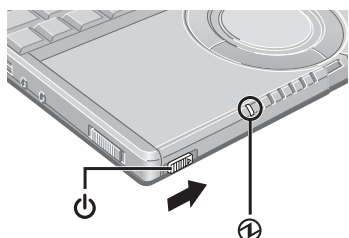


1 Open the display.

- ① Slide the latch (A) located at the front.
- ② Lift open the display.

CAUTION



- Do not open the display wider than necessary (135° or more).
- Do not apply excessive pressure to the LCD. Also, do not hold the LCD when opening or closing the display.





2 Turn your computer on.

Slide the power switch  and hold it for approximately one second until the power indicator  turns on before releasing it.

CAUTION

- While booting, avoid the following until the hard disk drive indicator  has turned off.
 - Connecting or disconnecting the AC adaptor.
 - Touching the power switch.
 - Performing any keyboard, touch pad, or external mouse operations.
 - Closing the display.
- Once the computer is powered off, you must wait at least ten seconds before powering it on again.
- When the CPU temperature rises, the computer may not power on to prevent the CPU from overheating. Should this happen, allow the computer to cool down then switch the power on again.
If the computer still does not power on, contact your technical support office.
( page 45)

3 Log on to Windows.

After confirming that the hard disk drive indicator  has turned off, select the user and input the password, then select . Until the correct password is entered, the computer will not operate.

4 Select your application.

You are able to start working on your computer.

NOTE

- The power saving function is factory set, so if there is no input from a key, the touch pad or an external mouse (when one is connected) for a certain interval of time, the power to the LCD and hard disk may be turned off. The LCD will resume operation when the touch pad or an external mouse (when one is connected) is used or a key is pressed.

The power to the LCD may be turned off even when an application software is being installed. In this case, because it is conceivable that a selection dialog box will be shown, do not press **Space** or **Enter** to attempt to resume from this condition as doing so may trigger a selection, but instead, press a key unrelated to the direct triggering of a selection, like **Ctrl**.

In addition, when the computer is left alone, it automatically enters the standby or hibernation mode (☞ Reference Manual “Standby/Hibernation Functions”). The computer will resume by sliding the power switch.

Enter Password []

● If the screen on the left is displayed immediately after you turn on the power...

A password has been set to ensure the computer's security.

Enter your password*¹ and press **Enter**. (☞ Reference Manual “Security Measures”)

- When the correct password is input, the computer will start.
- When three incorrect password attempts or nothing is input for one minute, the computer will power off.

*¹ Supervisor Password or User Password set in the Setup Utility (not the Windows password).

Starting Up/Shutting Down

Shutting Down (power off your computer)

1 Save important data and close each application.

2 Select [start] - [Turn Off Computer].






3 Select [Turn Off].

Your computer will power off automatically.

- Restarting your computer (without shutting down):

Select [Restart].

- To shut down using the keyboard:

Press , **U**, and select [Turn Off] with    , then press **Enter**.

CAUTION

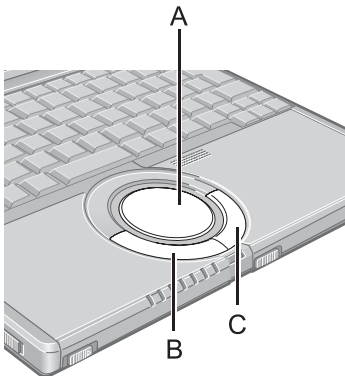
- Do not do the following during the shutdown/restart procedure.
 - Connecting or disconnecting the AC adaptor.
 - Touching the power switch.
 - Performing any keyboard, touch pad or external mouse operations.
 - Closing the display.

- **When you leave the computer or interrupt your work...**


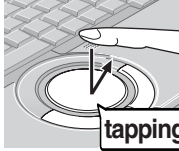

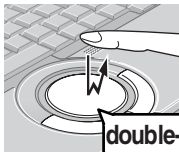
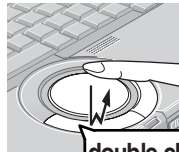

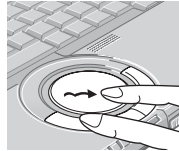
If you use the “Standby” or “Hibernation” function, then when you turn on the power next time, the application software and files you were using before will be displayed, and you can restart the same operations. (Reference Manual “Standby/Hibernation Functions”)

Touch Pad

Use the touch pad to move the cursor on the screen and perform computer operations.



- A. Work Surface (Touch Pad)
- B. Left Button
- C. Right Button

Function	Operation
Moving the Cursor	 <p>Move the tip of your finger lightly over the work surface.</p>
Tapping/Clicking	 tapping or  clicking
Double-Tapping/ Double-Clicking	 double-tapping or  double-clicking
Dragging	 <p>Two quick taps, but on the second tap leaving your finger down (applying pressure) and moving it on the work surface.</p> or  <p>While holding down the button, moving your finger on the work surface.</p>
Scroll	Trace a circle around the touch pad. (📖 Reference Manual "Touch Pad")

NOTE

- Refer to [Mouse Properties] for information on basic operations other than the above. To display [Mouse Properties], select [start] - [Control Panel] - [Printers and Other Hardware] - [Mouse].
- When using the touch pad, keep the following in mind.
 - By design the touch pad is to be used with a finger tip only. Do not place any object on the work surface or press down forcefully with sharp-pointed objects (e.g., nails) or hard objects that can leave marks (e.g., pencils and ball point pens).
 - Try to avoid having any harmful substances, such as oil, come in contact with the touch pad. The cursor may not work properly in such cases.

Reference Manual

Reference Manual / Important Tips

The Reference Manual and the Important Tips can be accessed on your computer. When a printer is connected, these manuals can also be printed.

● Reference Manual

The Reference Manual explains functions for you to make greater use of the computer, such as how to add peripheral devices, how the Setup Utility works, and other useful information. (Refer to the cover of this manual for a list of the main contents included.)

● How to access the Reference Manual

Select [Reference Manual] in [start].

● Important Tips

Important Tips provides information on how to maximize use of the battery pack, which is necessary for computing away from your home or office.

● How to access the Important Tips

Select  on the desktop.

Important Tips can also be accessed from [start] - [All Programs] - [Panasonic] - [On-Line Manuals] - [Important Tips].

When the Reference Manual or Important Tips is accessed for the first time, the License Agreement of the Acrobat Reader may be displayed. If it is displayed, after reading the agreement, select [Accept] to access the Reference Manual or Important Tips.

Refer to Acrobat Reader Help to use the Acrobat Reader.

NOTE

- Illustrations may be difficult to view depending on the magnification. If the illustration is too small, magnify the display.
- When the taskbar is hidden at the bottom portion of Acrobat Reader, set the maximum display window size.
- If a printer is connected, we recommend printing pages. The illustrations and display samples may not print with a high quality.

RAM Module

Use a RAM module meeting the RAM module specifications below. If a module is used that does not meet the specifications, there are cases in which data may become unusable or the computer may not operate properly.

- RAM module specifications: (☞ page 43)
172 pins, Micro DIMM, 2.5 V, DDR SDRAM, PC2100
Contact your technical support office to confirm recommended memory.

CAUTION

- RAM modules are extremely sensitive to static electricity. There are cases where static electricity generated by the human body has adversely affected such modules. When inserting or removing a RAM module, do not touch the terminals or internal components, insert objects other than the module, or allow foreign particles to enter. Doing so has been known to cause damage, fire or electric shock.

Inserting / Removing the RAM Module

CAUTION

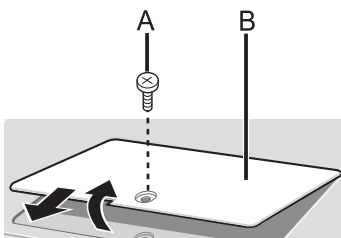
- If the RAM module is difficult to insert or difficult to press down, do not force it. Check once more to ensure that the module is positioned correctly.
- Use the proper size screw driver to insure that the screw does not get stripped.

1 Power off your computer.

(☞ page 18)

Do not shut down using the standby or hibernation function.
Disconnect the AC adaptor.

2 Turn the computer over and remove the battery pack and the screw (A), then remove the cover (B).

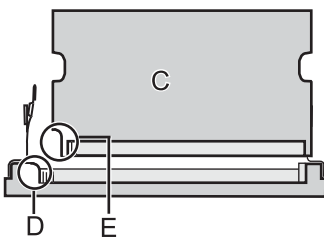


3 Insert/Remove RAM module.

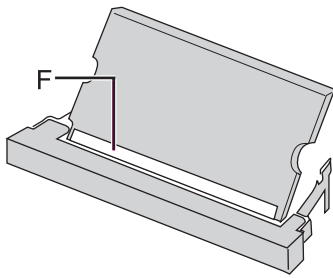
- Inserting the RAM module

① Check direction of a RAM module (C).

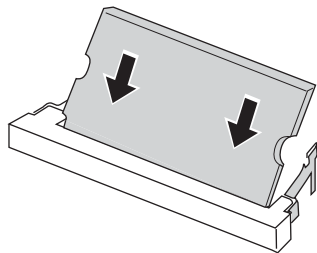
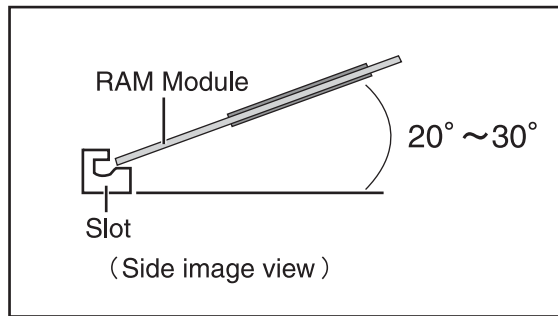
Hold the RAM module in the direction that the notch (E) of the RAM module suits to the protrusion (D) of the slot.



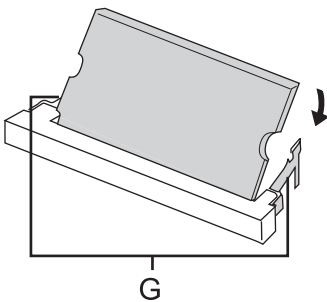
RAM Module



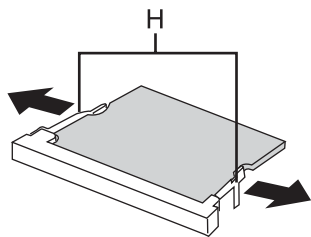
- ② Place the RAM module lightly in parallel with a slot.
(The gold terminals (F) are visible)



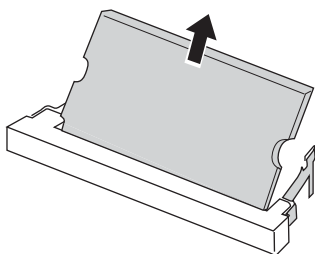
- ③ Insert the module parallel to the slot and press firmly until the gold terminals are no longer visible.
 - The slot may be damaged if the following procedure is performed without inserting the module firmly.



- ④ Press the RAM module down until the right and left hooks (G) lock into place.
 - When pressing down the module, the right and left hooks will open slightly and will return after locking.



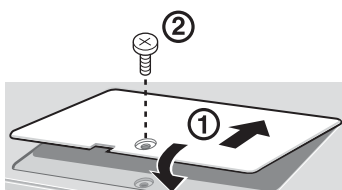
- Removing the RAM module
- ① Gently open the left and right hooks (H).
The RAM module will be raised at an angle.



- ② Gently remove the RAM module from the slot.

4 Put the cover back in place.

- ① Insert the cover at an angle, then fit it into place.
- ② Fasten the screw.



NOTE

- Whether the RAM module is properly recognized or not can be confirmed in [Information] menu of the Setup Utility (Reference Manual “Setup Utility”).
If the RAM module is not recognized, power off the computer and insert it again.

Useful Information

Usage Environment

● Environment

- Place the computer on a flat stable surface. Do not place the computer upright or allow it to tip over. When the computer receives extremely strong shock after falling, the hard disk may become inoperable.
- In use: Temperature: 5 °C to 35 °C {41 °F to 95 °F}
Humidity : 30% to 80% RH (No condensation)
- Not in use: Temperature: -20 °C to 60 °C {-4 °F to 140 °F}
Humidity : 30% to 90% RH (No condensation)

● Places not to use your computer

- Such areas may result in damage to the computer.

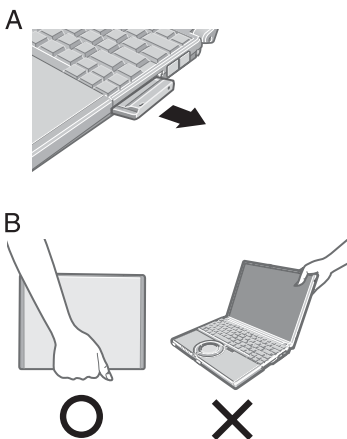
Areas with electronic equipment

These areas may interfere with your display or cause your computer to produce strange sounds.

Areas with extremely high/low temperatures

- Do not leave things near the computer that are sensitive to heat. During operation, the computer may become warm.

Handling



This computer has been designed so as to minimize shock to the LCD and hard disk drive, etc., but no warranty is provided against such trouble. Therefore, as a precision instrument, be extremely careful in the handling.

When carrying the computer, be sure to keep to the following:

- Turn off the computer.
- Remove all external devices, cables, PC Cards protruding from the computer (see figure A), SD memory cards, and MultiMedia Cards before transporting the computer.
- Close the display, and ensure that the latch is positioned correctly in the slot.
- Do not carry the computer by gripping the display or the cabinet around the display (see figure B).
- Do not drop or hit the computer against solid objects.
- If the computer is being carried in a soft bag when the battery pack has been removed, be careful to avoid undue pressure on the body of the computer in a crowded place, etc., as this may result in damage to the LCD.
- When taking an airplane, always carry your computer with you. Never check it in with luggage. Before using the computer inside an airplane, we recommend asking the airlines regarding their policy on this issue.
- When transporting a spare battery pack inside a package, briefcase, etc., it is recommended that it be placed in a plastic bag in order to protect its contacts.

We recommend the following:

- Preparing a fully charged battery pack.
- Making backup copies on discs and carrying them with you.

Maintenance

Display (LCD)

Avoid using water when cleaning the panel. Ingredients included in water may leave scratches and reduce readability of the screen.

<When cleaning dust/dirt>

Avoid rubbing off dust/dirt with cloth since it may leave scratch on the screen.

Sweep dust/dirt with fine brush, then wipe it with a dry soft cloth used for cleaning glasses.

<When cleaning oily surface>

Apply camera lens cleaner on a soft gauze and clean it with gentle force. Then, wipe with a dry soft cloth used for cleaning glasses.

When areas excluding the display/the touch pad become dirty:



Wipe these areas with a soft cloth, after applying water or detergent diluted with water to the soft cloth and firmly wringing out excess water.

CAUTION


- Do not use benzene, thinner, or rubbing alcohol. Doing so may adversely affect the surface, e.g., discoloration. In addition, do not use commercially-available household cleaners and cosmetics, as they may contain components harmful to the surface.
- Do not directly add or spray water or detergent. If liquid enters the inside of the computer, it may cause it to work improperly or be damaged.

Useful Information

Saving Data on the Hard Disk

- **Do not expose your computer to shock.**
Use care when handling your computer, shock may damage your hard disk or make your software applications and data unusable.
- **Do not power off your computer while software applications are running or hard disk drive indicator  is on.**
Properly shut Windows down to avoid problems.
- **Save all valuable data to discs.**
Backing up data to discs will limit damage should trouble occur to your computer or should you inadvertently change or erase data.
- **Use the security function for all important data.** ( Reference Manual “Security Measures” and “SD Memory Card Security Function”)

Hard Disk Lock


When the Hard Disk Lock is set to [Enable], it is impossible to read/write data from/to the hard disk when the hard disk is installed in a different computer, since a password is also set for the hard disk. When the hard disk is returned to the original computer, you can read/write data as before. In this case, however, make the settings in the Setup Utility exactly the same as they were before the hard disk was removed. (Note that this Hard Disk Lock does not guarantee the complete protection of data.) ( Reference Manual “Security Measures”)

When Using Peripheral Devices

Pay strict attention to the following points to avoid damage to the computer, peripheral devices, cables, etc. Also, in addition to following this manual and the Reference Manual, carefully read the instruction manuals for the peripheral devices being used.


- Use only peripheral devices that conform to the computer’s specifications.
- Connect the devices properly, paying close attention to the condition and position of the connectors.
- If a connection cannot be made easily, do not apply undue force; check once more to confirm the condition and position of the connector (alignment of pins, etc.).
- If the connector has holding screws, fasten the screws firmly.
- Do not carry the computer with cables attached, and do not pull on the cables forcefully.

When Disposing of or Transferring Ownership of This Device

When disposing of or transferring ownership of this device, erase all data on the hard disk in order to prevent the theft of hard disk data. Even if you delete data or initialize the hard disk through normal Windows commands, data can still be read using special software. In order to erase all data, either have the data erased by a specialist (at a charge) or use the hard disk data erase utility (included) ( page 42). (Note that this hard disk data erase utility does not guarantee that data will be completely erased.)

Also, note that if you transfer ownership of this device without deleting commercial software that you have installed to the hard disk, you may be in violation of the licensing agreement for that software.

When Changing Hard Disk Partitions

When using the hard disk backup function, divide into the partition when the backup area is created ( page 38). If you divide up the hard disk before creating a backup area, the backup area cannot be created.

Security of the Computer

To improve the security of the computer, use the following measures.

- Use antivirus software (commercially available).
- Use Windows XP Internet Connection Firewall.
- Update Windows (☞ below).
- Getting the newest information about security from the Website of Microsoft Corp. etc.

Using Antivirus Software

Especially in the following cases, we recommend you to perform a virus check.

Be sure to use the most up-to-date antivirus software when checking for viruses.

- After booting your computer.
- After receiving data.

We recommend that you check data received on disks or from external sources, such as data downloaded from the network, Internet, e-mail, etc. (For compressed files, decompression may be required before running a check.)

Using Internet Connection Firewall

An Internet Connection Firewall protects a computer from unlawful access via the Internet etc. Make the settings by the following methods.

- 1 Select [start] - [Control Panel] - [Network and Internet Connections] - [Network Connections].
- 2 Select the icon of the connection you want to protect, from LAN, a modem or a high-speed Internet category, with the right button, and select [Properties].
- 3 Select [Advanced], add the check mark to [Protect my computer and network by limiting or preventing access to this computer from the Internet] of [Internet Connection Firewall], and select [OK].

If there are two or more methods of connecting to the Internet, repeat steps **2-3** of the procedure for each connection.

NOTE

- Some network-related software and some online network games do not operate normally if the Internet Connection Firewall is enabled. Ask the software manufacturer about the Internet Connection Firewall in the case of using such software.
- For further details of the Internet Connection Firewall, select [start] - [Help and Support] and input [Internet Connection Firewall] into [Search], and see the help displayed.

Windows Update


Windows Update enables you to update Windows on your computer by applying the latest patches and service packs for Windows.



Connect the Internet and perform it from [start] - [All programs] - [Windows Update].

Do not apply “Driver Updates” even if a message to update a driver appears. If a driver update is required, contact your technical support office (☞ page 45).

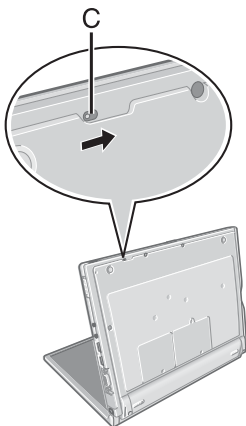
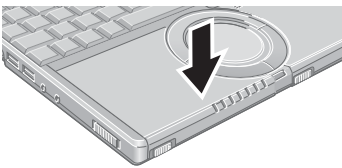
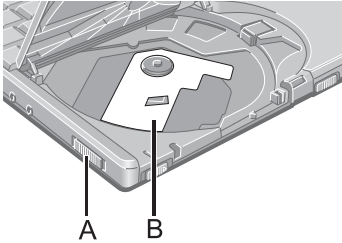
- Be sure to perform Windows Update after reinstallation (☞ page 34).
- The installed patches can be confirmed in [start] - [Control Panel] - [Add or Remove Programs].

Wireless LAN

- **To prevent theft of data or unauthorized access to the hard disk via a wireless LAN.**
If you plan to use wireless LAN functions, we recommend that you do so only after making the appropriate security settings, such as for encryption.
- **For instructions on settings for wireless LAN and cautions during use, select [start]-[Reference Manual], and refer to “Wireless LAN”.**
- **Before using a wireless LAN, turn the wireless LAN on using the following method (at the time of purchase, the wireless LAN is set to [Off]).**
 - 1 Double-click  on the taskbar.
 - 2 Select your wireless LAN adaptor and select [General].
 - 3 Select [On] for [Switch radio].
 - 4 Select [OK].

The icon will turn to  or .
- **Do not use wireless LAN on airplanes, in hospitals, or in other locations where wireless LAN signals may affect the operation of devices in the vicinity.**
Abide by instructions regarding use in airplanes and hospitals.

DVD-ROM & CD-R/RW Drive






● Before using the drive

When using the drive for the first time, slide the open lever (A) on the left side of the computer to open the disc cover after the computer has been powered on, and remove the protective sheet (B) from the lens area.

- Do not expose the DVD-ROM & CD-R/RW drive to excessive smoke that may leave a residue, e.g. oil smoke, or tobacco smoke. Doing so could shorten the life of the drive lens.

● When opening/closing the disc cover

- When the computer is on, be sure to use the open lever on the left side of the computer or perform the ejecting operation through Windows.
 - When using B's Recorder/B's CLiP:  Reference Manual "B's Recorder/B's CLiP"
- When closing the disc cover, press down near the power indicator  (position of the arrow) to ensure that the cover is locked.
- Do not access the drive until after the disc cover is closed and the DVD-ROM & CD-R/RW drive status indicator  is off.
- To remove a disc when the disc cover cannot be opened or when the computer is powered off:
Insert a pointed object (e.g., the bent-out tip of a paper clip, or the tip of a ballpoint pen) into the emergency hole (C), and then move in the direction of the arrow.
- The disc cover can be opened up to an angle of 70 degrees. Do not force the cover open any further.
If a hand etc. touches the disc cover and accidentally opens wider than 70 degrees, pull it forward slowly until the stopper holds the cover in its proper position.
- Do not leave the disc cover in the open position or touch the lens.
Under some conditions, dust may build up on the lens, or on a disc. This may result in a read or write malfunction.
- Be careful not to do any of the following items when the disc cover is open.
 - Do not close the display.
Be sure to close the display only after confirming the disc cover is closed. If the disc cover is not closed, the LCD may become damaged.
 - Never insert foreign objects such as paper clips into the DVD-ROM & CD-R/RW drive. Doing so could cause it to malfunction.
- Insert the disc securely.
If the disc cover is closed without securely inserting the disc, the disc may be damaged.

● About recognition of media

- It may take about 30 - 40 seconds for an image recorded to a rewritable media to be played back.

● While the DVD-ROM & CD-R/RW drive is being accessed

- Do not open the DVD-ROM & CD-R/RW drive or move the computer while the DVD-ROM & CD-R/RW drive is being accessed.
Doing so could cause the disc to shift position and this may damage the disc, or cause the DVD-ROM & CD-R/RW drive to malfunction.
In addition, after running an application involving access to a disc, do not open the DVD-ROM & CD-R/RW drive until after the application has been closed.
- Do not shock the computer, such as by removing or inserting cords and cards. This may result in a read or write malfunction.
- Do not apply excessive force on the disc cover.

● Cleaning

- We recommend cleaning the drive lens with an air puffer used for camera lenses.
(Do not use any spray-type of lens cleaning products.)

List of Error Codes

When turning on the computer, if one of the following error codes or messages is displayed, follow the instructions shown below. If the problem persists, or if the error code or message displayed is not shown here, contact your technical support office (☎ page 45).

Error Code/Message	Action
0211: Keyboard error	<ul style="list-style-type: none"> ● If an external keyboard or mouse is connected, disconnect these devices.
0251: System CMOS checksum bad - Default configuration used	<p>An error has occurred in the memory that stores the Setup Utility settings. This error occurs when the memory content is changed through some inadvertent operation by a program or other function.</p> <ul style="list-style-type: none"> ● Run the Setup Utility and load the default values, then change the settings to the appropriate values as needed. ● If the problem persists, the internal clock battery may need to be replaced. Contact your technical support office.
0271: Check date and time settings	<p>The date and time setting are incorrect.</p> <ul style="list-style-type: none"> ● Run the Setup Utility and set the date and time correctly. ● If the problem persists, the internal clock battery may need to be replaced. Contact your technical support office.
0280: Previous boot incomplete - Default configuration used	<p>Startup has failed repeatedly, so the Setup Utility settings have been returned to their default values, and the computer has been booted.</p> <ul style="list-style-type: none"> ● Run the Setup Utility and load the default values, then change the settings to the appropriate values as needed.
Press <F1> to resume, <F2> to Setup	<ul style="list-style-type: none"> ● Write down the error details and press (F2) to run the Setup Utility. Confirm the settings, and change the settings to the appropriate values as needed.
Operating System not found	<p>The OS is not properly installed on the floppy disk or the hard disk that you are trying to boot from.</p> <ul style="list-style-type: none"> ● If the computer cannot be booted from the floppy disk, check the floppy disk drive to ensure that the disk is in fact bootable, and change it to another if not. ● If the computer cannot be booted from the hard disk, confirm whether the hard disk is properly recognized in [Information] menu of the Setup Utility. If the hard disk is recognized, perform the reinstallation procedure. If not, contact your technical support office. ● If a device is connected to the USB port, disconnect the device, or run the Setup Utility and set [Legacy USB Support] in [Advanced] menu to [Disable].

● How to run the Setup Utility

- 1 Restart the computer.
- 2 Press **(F2)** while [Panasonic] boot screen is displayed soon after the computer begins the startup procedure.

Dealing with Problems (Summary)

When a problem occurs, refer to this page. The “Reference Manual” also contains detailed information. If a problem appears to be related to a software application, read the software related manual. If you still cannot troubleshoot the problem, contact your technical support office (☞ page 45). You can use the PC Information Viewer to check the computer’s usage status. (☞ ^{Reference Manual} “Dealing with Problems (Advanced)”)

● Starting Up

<p>The power indicator or battery indicator is not lit</p>	<ul style="list-style-type: none"> ● Check the cable connection for the AC adaptor. ● Check to see if a fully charged battery is properly inserted. ● Remove the battery pack and disconnect the AC adaptor, then connect them again.
<p>The computer does not operate when a USB device is connected</p>	<ul style="list-style-type: none"> ● The computer may not operate when certain USB devices are connected. Disconnect the USB device, or set [Legacy USB Support] to [Disable] in [Advanced] menu of the Setup Utility.
<p>[Enter Password] is displayed</p>	<ul style="list-style-type: none"> ● Input your Supervisor Password or User Password. If you have forgotten it, contact your technical support office (☞ page 45).
<p>POST Startup Error(s) is displayed</p>	<p>☞ page 28</p>
<p>Windows startup, or an operation is extremely slow</p>	<ul style="list-style-type: none"> ● Press (F9) in the Setup Utility (☞ ^{Reference Manual} “Setup Utility”). This will restore the Setup Utility’s settings to their default values (except the password settings). Then, the Setup Utility must be run once again for you to input the appropriate operating environment settings. (The processing speed depends on the application software used, so this operation may not cause the processing speed to increase.) ● If operations slow down during streaming playback, try changing the number of colors of the display. ● Disable any resident software.
<p>The date and time are incorrect</p>	<ul style="list-style-type: none"> ● You can set the date and time using the following menu: [start] - [Control Panel] - [Date, Time, Language, and Regional Options] - [Date and Time] ● If you continue to experience problems, the internal battery maintaining the clock may need to be replaced. Contact your technical support office (☞ page 45). ● When the computer is connected to a LAN, confirm the date and time of the server. ● This computer will not correctly recognize the date and time starting from the year 2100 A.D.
<p>When resuming from the standby or hibernation mode, [Enter Password] does not appear even if a password has been set in the Setup Utility</p>	<ul style="list-style-type: none"> ● Even when a password has been set in the Setup Utility, [Enter Password] does not appear when the computer resumes from the standby or hibernation mode. If you want to use the security function when using the standby or hibernation mode, use the Windows password as follows: <ol style="list-style-type: none"> 1 Select the account to change in [start] - [Control Panel] - [User Accounts] and set the password. 2 Add the check mark for [Prompt for password when computer resumes from standby] in [Control Panel] - [Performance and Maintenance] - [Power Options] - [Advanced].
<p>When “Remove disks or other media. Press any key to restart” (or a similar message) is displayed</p>	<ul style="list-style-type: none"> ● This means a floppy disk that does not contain system startup information has been left in the floppy disk drive. Remove the floppy disk, and press any key. ● This message may appear when certain USB devices are connected. Remove the USB device, or set [Legacy USB Support] in [Advanced] menu of the Setup Utility to [Disable]. ● If the message still appears even after trying the above measures, this may be an indication that some type of hard disk failure has occurred. Contact your technical support office.
<p>When the administrator password is forgotten</p>	<ul style="list-style-type: none"> ● If you have created a password reset disk (☞ page 15), a message is displayed when you fail to correctly enter the password. Follow the message’s instructions and set the password again by using the password reset disk. If you have not created a password reset disk, after reinstalling, setup Windows and then set the password again.

Dealing with Problems (Summary)

Starting Up (continued)

<p>When the previous item is not the cause</p>	<ul style="list-style-type: none"> ● Press (F9) in the Setup Utility (☞ <small>Reference Manual</small> “Setup Utility”). This will restore the Setup Utility’s settings to their default values (except the password settings). ● Try removing all peripheral devices. ● Check a disk error using the following procedure. <ol style="list-style-type: none"> 1 Display [Local Disk (C:) Properties]. Select [Local Disk(C:)] with the right button in [start] - [My Computer], and select [Properties]. 2 Select [Tools] - [Check Now]. 3 Select [Start] after selecting required items in [Check disk options]. ● At startup, hold down (F8) when [Panasonic] boot screen disappears*¹, and release your finger when the Windows Advanced Option Menu is displayed. Start the computer in Safe Mode, and confirm the details of the error. <p>*¹ When [Password on boot] is set to [Enable], [Enter Password] appears after the [Panasonic] boot screen disappears. Hold down (F8) soon after inputting the password and pressing (Enter).</p>
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Display

<p>No display after powering on</p>	<ul style="list-style-type: none"> ● When there is no display to an external display, <ul style="list-style-type: none"> • Check your cable connection to the external display. • Confirm your display is powered on. • Check the settings for your external display. ● The display destination may be set to the external display. Try changing the display destination by pressing (Fn) + (F3). If you want to switch the display destination repeatedly by pressing (Fn) + (F3), make sure that the display destination has switched completely each time before pressing (Fn) + (F3) again. ● Press (Fn) + (F2) and adjust the brightness.
<p>The power has not been turned off, but after a certain period of time, there is no display</p>	<ul style="list-style-type: none"> ● Has the computer been set to the power-saving mode? To resume operation of your computer from the condition the power of the display is off (for energy conservation purposes), press any key unrelated to the direct triggering of a selection, like (Ctrl). ● To save power, your computer may have automatically entered the standby mode (power indicator blinks green) or hibernation mode (power indicator turns off). In such cases, slide the power switch.
<p>When the battery pack is used, the screen is darker than when the AC adaptor is connected</p>	<ul style="list-style-type: none"> ● Press (Fn) + (F2) and adjust the brightness. Note, however, that when the brightness is increased, the battery running time will become shorter. Brightness can be set to separate levels for when the AC adaptor is connected and when it is disconnected.
<p>The cursor cannot be controlled properly</p>	<ul style="list-style-type: none"> ● If you are using an external mouse, ensure that the external mouse has been connected correctly. ● Restart the computer by using the keyboard (Press (Windows), (U), and select [Restart] with (→) (←) (↑) (↓), then press (Enter)). ● If the computer does not respond to keyboard commands, read “No response” (☞ page 33).
<p>An afterimage appears (e.g., green, red, and blue dots remain on the display) or there are dots not displaying the correct colors</p>	<ul style="list-style-type: none"> ● If an image is displayed for a prolonged period of time, an afterimage may appear. This is not a malfunction. The afterimage will disappear when a different screen is displayed. ● High-precision and advanced technologies are necessary in the production of color liquid crystal displays (color LCDs). Therefore, if 0.002% or less of the picture elements either fail to light or remain constantly lit (that is, more than 99.998% of elements are functioning properly), no defect is considered to exist.
<p>The screen becomes disordered</p>	<ul style="list-style-type: none"> ● Changing the number of colors or resolution of the display may affect the screen. Restart the computer.

● Display (continued)

<p>The external display no longer displays properly</p>	<ul style="list-style-type: none"> ● When an external display not compatible with the power saving mode is used with the computer, the display may not function correctly when the computer enters the power saving mode. In such cases, turn off the power to the external display.
<p>When you want to display the fonts or icons at a larger size</p>	<ul style="list-style-type: none"> ● Change the size of the icons, etc. using “Icon Enlarger” (☞ <small>Reference Manual</small> “Icon Enlarger”). ● You can also change the settings as follows (for more details, refer to the Windows Help). <ol style="list-style-type: none"> 1 Select [start] - [Control Panel] - [Appearance and Themes] - [Display] - [Appearance]. 2 Select the font size in [Font size], and select [Effects] and then add the check mark for [Use large icons] to increase the icon size. 3 Select [OK], then select [OK].
<p>During simultaneous display, the screen of the external display becomes disordered</p>	<ul style="list-style-type: none"> ● Try changing the display by pressing (Fn) + (F3). ● If you continue to experience problems, try changing the display destination in the following menu: [start] - [Control Panel] - [Other Control Panel Options] - [Intel(R) Extreme Graphics] - [Devices] ● When [Command Prompt] is set to “Full Screen” by pressing (Alt) + (Enter), the screen is displayed on one of the displays only. When the window display is restored by pressing (Alt) + (Enter), the screen is displayed on both displays.
<p>When a video such as an MPEG file and a DVD video is being played with WinDVD or Windows® Media Player, the display destination cannot be switched using (Fn) + (F3)</p>	<ul style="list-style-type: none"> ● The display destination cannot be switched while a video such as an MPEG file and a DVD video is playing. Stop playing the video before switching the display destination.

● Shutting Down

<p>Windows cannot be shut down or restarted</p>	<ul style="list-style-type: none"> ● If a USB device is connected, try removing it.
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● Standby / Hibernation Function

<p>Unable to enter standby or hibernation mode</p>	<ul style="list-style-type: none"> ● If a USB device is connected to the computer (note: only for some USB devices), remove the USB device temporarily. If the problem persists, restart the computer. ● It may take one or two minutes to enter standby or hibernation mode. ● The computer may not enter standby mode properly and seems to be frozen in the case that the computer is communicating via the modem. If this happens, slide the power switch for four seconds or more to forcibly turn your computer off. ● If there is a disc in the DVD-ROM & CD-R/RW drive that has been formatted using B’s CLiP, the computer will not enter standby or hibernation mode. Remove the disc.
<p>Unable to automatically enter standby or hibernation mode</p>	<ul style="list-style-type: none"> ● If a peripheral is connected to the computer, disconnect the device. ● When the internal LCD is closed, the computer may not enter standby or hibernation mode. In order to activate standby or hibernation automatically while using the computer with the internal LCD closed, set the [Touch Pad] to [Disable] in the [Main] menu of the Setup Utility. ● If there is a disc in the DVD-ROM & CD-R/RW drive that has been formatted using B’s CLiP, the computer will not enter standby or hibernation mode. Remove the disc.
<p>The computer does not resume</p>	<ul style="list-style-type: none"> ● Did you disconnect the AC adaptor or the battery pack while the computer was in standby mode? If the computer's power supply is disconnected while the computer is in standby mode, all unsaved data will be lost. ● Did you slide the power switch and hold it for four seconds or more? If you slide the power switch and hold it for four seconds or more, the power will be turned off forcibly. In this case, all unsaved data will be lost.

Dealing with Problems (Summary)

● Battery Indicator

The red indicator lights	<ul style="list-style-type: none"> The battery level is very low (the charge is approx. 9% or less). Connect the AC adaptor. You can use the computer when the indicator light is orange. If you do not have an AC adaptor, save your data and power off your computer. After replacing the battery pack with a fully charged one, turn your computer on.
The red indicator blinks	<ul style="list-style-type: none"> Quickly save your data and power off your computer. Remove the battery pack and disconnect the AC adaptor, then connect them again. If the problem persists, contact your technical support office (☞ page 45). The battery pack or charging circuit may be defective.
The orange indicator blinks	<ul style="list-style-type: none"> Battery cannot be recharged temporarily because the internal temperature of the battery pack is outside of the acceptable temperature range for recharging. Once the allowable range requirement is satisfied, charging begins automatically. Your computer can be used normally in this state.

● Reference Manual

The Reference Manual is not displayed	<ul style="list-style-type: none"> Is Acrobat Reader installed? If Acrobat Reader is not installed, run [c:\util\reader\acroreader51_enu_full.exe] in [start] - [Run] to reinstall the program. When installing the program, do not change the installation destination folder. If the destination folder is changed, the Reference Manual cannot be opened from [start] menu.
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● Disk Operations

If the DVD-ROM & CD-R/RW drive vibrates excessively or is noisy	<ul style="list-style-type: none"> Is the disc bent or labeled? Check to see if the disc is inserted correctly, and check that the disc is in good condition. If the disc is good and inserted correctly, set [CD/DVD Drive Speed] to [Low] in the Setup Utility. (☞ ^{Reference Manual} “Setup Utility”) When writing to a disc using B's Recorder, you can minimize vibration while writing by setting the writing speed at [8x] or less.
Cannot eject disc	<ul style="list-style-type: none"> Is the computer powered on? Open lever works only when the computer's power is on. To remove a disc when the computer is powered off, insert a pointed object (e.g., the bent-out tip of a paper clip, or the tip of a pencil or ballpoint pen) into the emergency hole, and then move. (☞ page 27)
Cannot play back TV programs recorded on a commercial DVD recorder	<ul style="list-style-type: none"> In the following cases, finalize the recording on the DVD recorder. <ul style="list-style-type: none"> When the program was recorded in DVD-R/RW in video mode. When the program was recorded in DVD-RW in VR mode.

● Reinstalling B's Recorder/B's CLiP

When reinstalling, the input of a serial number has been asked	<ul style="list-style-type: none"> Input the following serial number B's Recorder: GK5PAA-AAAQ-1756-2885 B's CLiP: ES5PAA-AAGT-8831-1395
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● SD Memory Card

Cannot log on with the SD memory card	<ul style="list-style-type: none"> Windows logon user name and password are not set in the SD memory card correctly. Enter the Windows user name and password without using the SD memory card. After logging on, set the same user name and the password on the SD memory card and Windows, using one of the following operations. <ul style="list-style-type: none"> Change the setting of the SD memory card side by [SD Card Setup]. Change the setting of the Windows side by [Control Panel].
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● Fast User Switching Function

Some applications may not work properly	<ul style="list-style-type: none"> ● When switching to a different user with the Fast User Switching function, the following problems may occur. <ul style="list-style-type: none"> • Some applications may not work properly. • Key combination with (Fn) may not work. • It may not be possible to set the settings of the display. • The wireless LAN cannot be used. • The B's CLiP icon will no longer be shown on the taskbar and B's CLiP cannot be used. <p>In this case, log off all users without using Fast User Switching function, and try the operation once more. If the problem persists, restart the computer.</p>
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● RAM Module

You do not know the available RAM module	☞ page 21
Cannot tell whether the RAM module has been correctly installed	<ul style="list-style-type: none"> ● You can check whether the RAM module is recognized using [Information] menu in the Setup Utility. If the RAM module is not recognized, turn the computer off and reinsert the RAM module.
The RAM module has not been recognized	<ul style="list-style-type: none"> ● Make sure the RAM module has been properly inserted. ● Use the RAM module that supports the recommended specifications (☞ page 21).

● Others

No response	<ul style="list-style-type: none"> ● Press (Ctrl) + (Shift) + (Esc) to open Task Manager and close the software application which is not responding. ● After shutting down by sliding the power switch for more than four seconds, slide the power switch to power on and open the application again. If the program no longer works normally, select [start] - [Control Panel] - [Add or Remove Programs] to delete the program. Then reinstall the program.
When trying to play back video files using Windows® Media Player, the message [Codec required] appears, and the file cannot be played back	<ul style="list-style-type: none"> ● Some video files use a Codec that is not installed as a standard. In these cases, if you play back the video file after connecting to the Internet, the Codec may be downloaded automatically, allowing you to play back the file.
The shortcut icon for the Windows® Media Player is not displayed on the desktop	<ul style="list-style-type: none"> ● Start up Windows® Media Player from [start] - [All Programs]. Also, you can copy the icon from [All Programs] list to the desktop and use this icon to start Windows® Media Player.
Two shortcut icons for the Windows® Media Player are displayed on the desktop	<ul style="list-style-type: none"> ● Did the user who first accepted the Windows® Media Player license agreement have the administrator authority? Two icons will be displayed until someone with the administrator authority accepts the license agreement, but either icon can be used to start the program.
Cannot operate Fn key	<ul style="list-style-type: none"> ● In [Main] menu of the Setup Utility, is [Fn / Ctrl key] set to [Replace]? Return the setting to [Normal], or press (Ctrl) instead of (Fn) if you want to leave the setting in the [Replace] position.

Reinstalling Software

When reinstallation procedure is performed, the contents of the hard disk will be erased. Be sure to back up any critical data on your hard disk to another media or to an external hard disk before running the reinstallation procedure.

The reinstallation procedure will return the computer to its original condition.

Even if a hard disk backup area has been created, this backup area will be erased, and all the backed up data will be lost.

(This is not the case when Windows is reinstalled in the first partition.)

- If you have created partitions for data, the data may be erased or become corrupt as a result of the reinstallation procedure.

Before Reinstallation

● Preparing

You will need the Product Recovery DVD-ROM (included).

● Important

- Before the reinstallation procedure, remove all peripherals.
- Be sure the AC adaptor is connected until the reinstallation procedure is completed.
- Even if reinstallation is executed, the number of times that the DVD video region code can be set will not be returned to the state set at the time of factory shipment.

Reinstalling

1 Turn on the computer, and press **(F2)** while [Panasonic] boot screen is displayed.

The Setup Utility will start up.

If the password has been set, enter the Supervisor Password.

2 Write down all of the contents of the Setup Utility and then press **(F9)**.

At the confirmation message, select [Yes] and press **(Enter)**.

3 Select [Boot] menu, then select [CD/DVD Drive] and press **(F6)** until [CD/DVD Drive] is at the top of the [Boot] menu.

4 Place the Product Recovery DVD-ROM into the DVD-ROM & CD-R/RW drive.

5 Press **(F10)**.

At the confirmation message, select [Yes] and press **(Enter)**.

The computer will restart, and this screen should appear.

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Select a number
-----
1. [ Recovery ] Reinstall Windows.
2. [ Erase HDD ] Erase the whole data on HDD for security.
3. [ Backup   ] Enable the Backup function.

0. [ Cancel   ] Cancel.
-----
```

<When the hard disk backup function has been enabled>
When the message [The Backup function has been enabled. If [Recovery] or [Erase HDD] is executed, the Backup function will be disabled, and your Backup data will be lost.] appears, press **(Y)**.

6 Press **(1)** to execute [1. [Recovery]].
(You can cancel this operation by pressing **(0)**.)
The License Agreement screen should appear.

7 Press **(1)** to select [1. Yes, I agree to the provisions above and wish to continue!].

This screen should appear.

```
-----
Select a number
-----

                                Reinstalling : Windows(R) XP Professional

1. Reinstall Windows to the whole HDD to factory default.
2. Make two partitions, for the operating system and data. And reinstall
   Windows to the operating system partition.
   (All existing partitions on HDD will be lost.)
3. Reinstall Windows to the first partition.

0. Cancel
-----
```

8 Make a selection from the menu.

NOTE

- When [2] is selected, the hard disk backup function cannot be enabled because the hard disk has been divided into partitions.
 - When selecting [2], enter the basic partition size for the operating system installation and press **(Enter)**.
(The data partition size is the remainder after subtracting the basic partition size.)
 - To select [3], the first partition size must be 6 GB or more of the hard disk size. Reinstallation cannot be performed with a small partition size.
- <When the hard disk backup function has been enabled>
If you select [1] or [2], the message [The Backup function has been enabled. If [Recovery] is executed, the Backup function will be disabled, and your Backup data will be lost.] appears. In this case, press **(Y)**.
If the message [Computer must be rebooted in order to execute [Recovery.]] appears, press **(R)**.

- 9 At the confirmation message, press **Y**.
The operation of reinstallation for the hard disk starts automatically. (The operations take about 20 minutes.)

CAUTION

- Do not interrupt the reinstallation procedure before completion, for example by turning off the computer or pressing **Ctrl** + **Alt** + **Del**, as this may prevent Windows from starting up, or may cause data to be lost so that the reinstallation procedure cannot be executed.

After the reinstallation procedure completes, this screen should appear.

[Recovery] is complete.
Windows(R) XP Professional install wizard will start after reboot.
Please remove the Product Recovery DVD-ROM, and turn off the computer.

- 10 Remove the Product Recovery DVD-ROM, and then press any key.
The computer will be shut down.
- 11 Turn on the computer, and press **F2** while [Panasonic] boot screen is displayed.
The Setup Utility will start up.
If the password has been set, enter the Supervisor Password.
- 12 Press **F9**.
At the confirmation message, select [Yes] and press **Enter**. (The Setup Utility settings will return to their default values. Even the security settings with the exception of the password(s) will return to their default values.)
- 13 Press **F10**.
At the confirmation message, select [Yes] and press **Enter**.
- 14 Perform the setup procedure for Windows by following the instructions on the screen (☞ page 13).
- 15 Run the Setup Utility and change the settings where necessary.
- 16 If you can connect to Internet, perform Windows Update.

<Changing the drive letter>

You can change the drive letter for the DVD-ROM & CD-R/RW drive or hard disk drive by the following steps.

- Drive letters can only be changed when two or more partitions have been created on the hard disk drive. The name of the C: drive cannot be changed.
 - We recommend that you make these changes before installing applications.
- 1 Select [start] - [Control Panel] - [Performance and Maintenance] - [Administrative Tools] - [Computer Management].
 - 2 Select [Disk Management] from [Storage].
 - 3 Right click on the partition of the hard disk or the name of the DVD-ROM & CD-R/RW drive and select [Change Drive Letter and Paths...].
 - 4 Select [Change].
 - 5 Select [Assign the following drive letter] and select the new drive letter, and then select [OK].
 - 6 At the confirmation message, select [Yes].

<When the hard disk backup function has been enabled>

If you select [3] in step 8 (☞ page 34) and execute reinstallation, the drive name for the second partition (data partition) may be switched with that of the SD Memory Card. You can still use the drives after the names have been switched, but you can also return the drive names to their original state using the following procedures.

(The following procedure assumes that before reinstallation, the second partition (data partition) was Drive D:, and the SD Memory Card was Drive E:)

- 1 Disable the drive name for the second partition (data partition).
 - ① In the menu below, select [Computer Management].
Select [start] - [Control Panel] - [Performance and Maintenance] - [Administrative Tools].
 - ② Select [Disk Management].
 - ③ Right click on the partition for which [E:] is displayed and select [Change Drive Letter and Paths...].
 - ④ Select [Remove].
 - ⑤ At the confirmation message, select [Yes].
- 2 Change the SD memory card drive name to [E:].
Use the SD drive name change tool to change the SD Memory Card to the E: drive. (☞ Reference Manual “SD Memory Card/ MultiMedia Card”).
- 3 Set the drive name for the second partition (data partition) as [D:].
 - ① In the menu below, select [Computer Management].
Select [start] - [Control Panel] - [Performance and Maintenance] - [Administrative Tools].
 - ② Select [Disk Management].
 - ③ Right click on the partition for which the drive name is not displayed, and select [Change Drive Letter and Paths...].
 - ④ Select [Add...], assign [D:] as the drive letter, and select [OK].

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Hard Disk Backup Function

The hard disk backup function creates a backup area (storage area) on the hard disk. This area is to back up (store) hard disk contents or restore backed up contents to their original locations.

By backing up the data on your hard disk to a backup area, you can protect your data from loss or damage resulting from operational errors or other factors. Also, you can back up or restore hard disk contents using this computer alone, without having to use other media or peripheral devices.

At the time of purchase, the hard disk backup function is disabled. If you follow the procedure below to create a backup area, the hard disk backup function will be enabled, and you will be able to back up your data. Note, that once the backup function has been enabled, you will have to perform the reinstallation procedure to disable it again (☞ page 34).

The hard disk backup function cannot back up or restore data properly if there is a problem with the hard disk when the data is backed up or restored. Note that if an error occurs while data is being restored, whether as a result of an unexpected malfunction, incorrect operation, or other reason, the data in the hard disk (data before restoration) may be lost.

Matsushita Electric Industrial Co., Ltd. will bear no responsibility for any damages suffered by the user (including loss of data) as a result of the use of this function.

Preparing

You will need the Product Recovery DVD-ROM (included).

Before Using a Hard Disk Backup Function

- Disconnect or remove all peripheral devices, SD memory cards, and MultiMedia Cards. Take care to disconnect the USB floppy disk drive, as the backup area may not be created properly while these devices are connected.
- Be sure the AC adaptor is connected to the computer.
- A backup area cannot be created if the hard disk is already divided into several partitions. Return the computer to its condition at the time of purchase (one partition only), and create the backup area.
- To divide the partition, make the selection when the backup area is created (☞ page 39 step 7).
- If the partition configuration is changed (partitions created, size changed, etc.) after the backup area has been created, it will no longer be possible to execute the backup function. To change the configuration, it is necessary to return the computer to its condition at the time of purchase, and then create the backup area again.
- The hard disk backup function will only work for the internal hard disk. This function does not work with an external hard disk.
- Backup and restore functions will not operate if the hard disk has been damaged.
- Do not use the NTFS file system compression function, as this may result in insufficient capacity of the backup area.
- If the hard disk malfunction occurs, it will be impossible to read the data stored hard disk. We recommend that you also back up important data to a location other than the hard disk (an external hard disk or other media).
- Execute a disk error check using the following procedure.
 - 1 Display the [Local Disk(C:) properties].
Select [Local Disk(C:)] with the right button in [start] - [My Computer], and select [Properties].
 - 2 Select [Check Now] from [Tools].
 - 3 In [Check Disk], select [Start] without adding a check mark beside any of the items.
If a message is displayed indicating that there is an error in the disk, display [Check Disk], and add a check mark for [Automatically fix file system errors] and [Scan for and attempt recovery of bad sectors], select [Start], and check for disk errors again.
- The hard disk backup function does not accommodate dynamic disks. Do not convert the hard disk to a dynamic disk.

NOTE

- Regarding backup area
 - Requires availability of at least half of the entire hard disk. Without sufficient space available, the backup area cannot be created.
 - When the backup area is created, the usable hard disk capacity will be reduced to less than half.
 - The backup area cannot be accessed from Windows. For this reason, backed up data cannot be copied to CD-R or other removable disk media.
 - When the hard disk backup function is executed, data in the backup area will be overwritten. If newly created or edited data is backed up later, data stored previously in the backup area will be lost.

Create a Backup Area

- 1 Turn the computer on, and press **(F2)** while [Panasonic] boot screen is displayed. The Setup Utility will start up.
If a password has been set, enter the Supervisor Password.
You cannot register [Boot] menu with a User Password.
- 2 Select [Boot] menu, then select [CD/DVD Drive] and press **(F6)** until [CD/DVD Drive] is at the top of [Boot] menu.
- 3 Place the Product Recovery DVD-ROM into the DVD-ROM & CD-R/RW drive.
- 4 Press **(F10)**.
At the confirmation message, select [Yes] and press **(Enter)**.
The computer will restart. If [Enter Password] is displayed during the following procedures, input the Supervisor Password or the User Password.
This screen should appear.

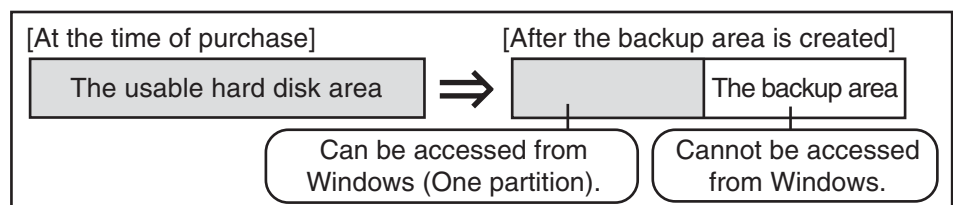
```
-----  
Select a number  
-----  
1. [ Recovery ] Reinstall Windows.  
2. [ Erase HDD ] Erase the whole data on HDD for security.  
3. [ Backup   ] Enable the Backup function.  
-----  
0. [ Cancel   ] Cancel.  
-----
```

- 5 Press **(3)** to execute [3. [Backup]].

CAUTION

- When dividing the hard disk into partitions
Do not execute [1. [Recovery]] to divide the hard disk into partitions. The hard disk backup function cannot be enabled after the hard disk has been partitioned. Use procedure 7 to divide the hard disk.

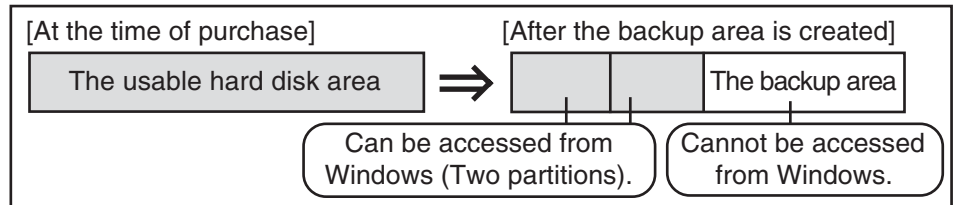
- 6 At the confirmation message, press **(Y)**.
- 7 Select how to divide the hard disk from the menu.
<To create a backup area and enable the backup function without dividing the hard disk>
Select [1].



Hard Disk Backup Function

<To create a backup area and divide hard disk into two partitions, for OS and data>
Select [2], enter the partition size (GB), and press **Enter**.

- You can cancel this operation by pressing **0**.
- The data partition size will be the maximum settable size less the number entered above. The maximum settable size will differ depending on models.



- 8 At the confirmation message, press **Y**.
The backup area is then created.
- 9 When the message [You must reboot in order to enable the Backup function.] appears, remove the Product Recovery DVD-ROM, and press any key to restart the computer. The computer is restarted, then the backup process will begin.
- 10 When the message [[Backup] is complete] appears, press **Ctrl** + **Alt** + **Del** to restart the computer.

CAUTION

- Do not press **Ctrl** + **Alt** + **Del** until the message is displayed.

- 11 A message will appear advising that a new device has been installed and that the computer must be restarted to enable the settings. Select [Yes] to restart the computer.

NOTE

- The [Boot] menu in the Setup Utility is set to start up from the DVD-ROM & CD-R/RW drive. Change this setting if necessary.
- The next time the backup or restore functions are executed, follow the procedure for [Backing Up and Restoring Data] (☞ below).

Backing Up and Restoring Data

CAUTION

- Before executing the backup function, execute a disk error check (☞ page 38).
- Do not interrupt the backup or restore functions before completion, for example by turning off the power or pressing **Ctrl** + **Alt** + **Del**, as this may prevent Windows from starting up, or may cause data to be lost so that the backup and restore functions cannot be executed.

- 1 Turn the computer on, and press **F2** while [Panasonic] boot screen is displayed. The Setup Utility will start up.
If a password has been set, enter the Supervisor Password or the User Password.
- 2 Select [Exit] menu, then select [Hard Disk Backup / Restore] and press **Enter**.
At the confirmation message, select [Yes], and press **Enter**.

- 3** Select the operation to be executed from the menu.
 <To back up hard disk contents to the backup area>
- ① Press **(1)** to execute [1. [Backup]].
 (When dividing the hard disk into two partitions, select the backup method at next screen.)
 - ② At the confirmation message, press **(Y)**.
 The backup process will begin.
- <To restore backed up contents to the hard disk>
- ① Press **(2)** to execute [2. [Restore]].
 (When data is backed up in two partitions, select the restore method at next screen.)
 - ② At the confirmation message, press **(Y)**.
 The restore process will begin.

NOTE

- The time required to complete the backup or restore process differs depending on the data volume.

- 4** When the message [[Backup] is complete] or [[Restore] is complete] is displayed, press **(Ctrl) + (Alt) + (Del)** to restart the computer.
- If the backup or restore process was interrupted before completion, for example if the power was turned off, execute the process again.
 - When a new device is installed and a message appears advising that the computer must be restarted to enable the settings, select [Yes] to restart the computer.

CAUTION

- When the hard disk backup function has been enabled, even if a commercial data erasing utility or similar software is used to erase all data from user-accessible area, the backed up data will not be erased. You can use the hard disk data erase utility included in this computer (☞ page 42) to erase all data on the hard disk, including backed up data. Use this hard disk data erase utility before disposing of or transferring ownership of this computer.
- Occasionally, the message [#1805 cannot write image file] will be displayed, and the backup function will be interrupted. If this error occurs, execute the backup function again. After this, if the backup function is completed properly, then there is no problem in the hard disk.
- **To disable the hard disk backup function**
 Perform the reinstallation procedure. All data in the backup area and the hard disk will be erased.
 Conduct steps **1-7** for [Reinstalling Software] (☞ page 34). Select [1] or [2] to execute the reinstallation at the screen for executing the reinstallation.
 - When [1] is selected, the hard disk backup function can be disabled.
 - When [2] is selected, the hard disk backup function can be disabled, but in this case, because the hard disk has been divided into partitions, the hard disk backup function cannot be re-enabled (☞ page 24).
 - When [3] is selected, the hard disk backup function cannot be disabled.

Hard Disk Data Erase Utility

This computer is equipped with a utility for erasing hard disk data.

When disposing of or transferring ownership of this device, erase all data on the hard disk in order to prevent the theft of hard disk data following the steps below.

The hard disk data erase utility erases data using an overwriting method, but there is a possibility that due to malfunctions or other operational errors, data may not be completely erased. There are also specialized devices that may be able to read data that has been erased using this method. If you need to erase highly confidential data, we recommend that you contact a company that specializes in this process. Matsushita Electric Industrial Co., Ltd. will bear no responsibility for losses or damages suffered as a result of the use of this utility.

Preparing

You will need the Product Recovery DVD-ROM (included).

NOTE

- Be sure the AC adaptor is connected until the procedure is completed.
- This utility can only be used for internal hard disk. It cannot be used to erase data from external hard disks.
- This utility cannot erase data from damaged disk.
- This utility cannot erase data for specific partitions.
- After executing this utility, the computer cannot be booted from the hard disk.
- The backup area and the data in the backup area will be erased.

Procedure

- 1 Turn the computer on, and press **(F2)** while [Panasonic] boot screen is displayed.
The Setup Utility will start up.
If the password has been set, enter the Supervisor Password.
- 2 Select [Boot] menu, then select [CD/DVD Drive] and press **(F6)** until [CD/DVD Drive] is at the top of [Boot] menu.
- 3 Place the Product Recovery DVD-ROM into the DVD-ROM & CD-R/RW drive.
- 4 Press **(F10)**.
At the confirmation message, select [Yes] and press **(Enter)**.
The computer will restart, and this screen should appear.

```
-----  
Select a number  
-----  
1. [ Recovery ] Reinstall Windows.  
2. [ Erase HDD ] Erase the whole data on HDD for security.  
3. [ Backup   ] Enable the Backup function.  
-----  
0. [ Cancel   ] Cancel.  
-----
```

<When the hard disk backup function has been enabled>

When the message [The Backup function has been enabled. If [Recovery] or [Erase HDD] is executed, the Backup function will be disabled, and your Backup data will be lost.] appears, press **(Y)**.

- 5 Press **(2)** to execute [2. [Erase HDD]].
(You can cancel this operation by pressing **(0)**.)
<When the hard disk backup function has been enabled>
When the message [The Backup function has been enabled. If [Erase HDD] is executed, the Backup function will be disabled, and your Backup data will be lost.] appears, press **(Y)**.
When the message [Computer must be rebooted in order to execute [Erase HDD].] appears, press **(R)**.
- 6 At the confirmation message, press **(Y)**.
- 7 When [<<<<Start menu>>>>] is displayed, press **(Enter)**.
- 8 The approximate time required for erasing data will be displayed.
Press **(Space)**.
- 9 At the confirmation message, press **(Enter)**. The operation of erasing the hard disk starts.
(If necessary, the "hard disk data erase" operation can be cancelled after it has begun by pressing **(Ctrl) + (C)**.
If the operation is cancelled before being completed, a part of data will not be erased.)
- 10 After the operation is complete:
Under normal conditions, the message [Hard disk data has been deleted.] will be displayed.
If a problem occurred during the operation, an error message will be displayed.
- 11 Remove the Product Recovery DVD-ROM, and then press any key to turn off the computer.

Specifications

● Main Specifications

Model No.		CF-W2DWAZZKM
CPU/Cache		Intel® Pentium® M Processor 1.1 GHz ULV/1MB* ¹ On-Die Level 2 (L2) Cache
Memory		256 MB* ¹ (768 MB* ¹ Max.), DDR SDRAM
Video Memory		UMA (64 MB* ¹ Max.)* ²
Hard Disk Drive		Approx. 40 GB* ³
LCD	Type	12.1 XGA type (TFT)
	Displayed Colors*⁴	65536/16777216 colors (1024 × 768 dots)
External Display		65536/16777216 colors (800 × 600 dots/1024 × 768 dots/1280 × 1024 dots/1600 × 1200 dots)* ⁵
DVD-ROM & CD-R/RW Drive		Buffer underrun error prevention function: Supported
	Supports	DVD
		CD
		DVD-ROM (Single Layer, Dual Layer), DVD-R* ⁶ (3.95 GB* ³ , 4.7 GB* ³), DVD-RW* ⁶ (4.7 GB* ³), DVD-RAM* ^{6*7} (2.6 GB* ³ , 4.7 GB* ³)
		CD-Audio, CD-ROM, CD-R, Photo CD, VideoCD, Enhanced Music CD, CD-RW, CD-TEXT
	DVD-ROM read*⁸	8X speed (Max.)
	CD-ROM read*⁸	24X speed (Max.)
	CD-R write*⁹	4X speed, 8X speed, 24X speed (Max.)
	CD-RW write	4X speed
	High-Speed CD-RW write	4X speed, 8X speed, 10X speed
	Ultra Speed CD-RW write*¹⁰	8X speed, 10X speed, 16X speed (Max.)
Slots	PC Card Slot	One Type I or Type II
	Allowable current	3.3 V: 400 mA, 5 V: 400 mA
	RAM Module Slot*¹¹	172-pin, 2.5 V, Micro DIMM, DDR SDRAM, PC2100 Compliant* ¹²
	SD Memory Card Slot	SD memory card/MultiMedia Card
Interface	External Display Port	Mini Dsub 15-pin female
	Microphone Jack	Miniature jack, 3.5 DIA
	Headphone Jack	Miniature jack, 3.5 DIA
	USB Ports	4-pin × 2, USB 2.0
	Modem	RJ-11 jack, Data: 56 kbps (V.92 & K56flex)* ¹³ FAX:14.4 kbps
	LAN	RJ-45 jack, IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX
	Wireless LAN	IEEE802.11b/g
Keyboard/Pointing Device		85 keys/Touch Pad
Sound		WAVE and MIDI playback, Monaural Speaker (built in)
Battery Pack		Li-ion 7.4 V, 6.6 Ah
	Operating Time*¹⁴	Approx. 4 hours - 7.5 hours* ¹⁵ (Approx. 5.5 hours* ¹⁶)
	Charging Time*¹⁴	Approx. 4.5 hours
	Clock Battery	Coin type lithium battery 3.0 V

*¹ 1 MB = 1,048,576 bytes

*² A segment of the main memory is allotted automatically depending on the computer's operating status. The size of the Video Memory cannot be set by the user.

*³ 1 GB = 1,000,000,000 bytes. Operating system or some application software will report as fewer GB.

*⁴ A 16777216 color display is achieved by using the dithering function.

*⁵ Maximum resolution depends on the specifications of the external display.

*⁶ Read only.

*⁷ In the case of DVD-RAM, only non-cartridge discs or removable cartridge discs can be used.

*⁸ If an unbalanced disc (e.g., a disc with which the balance has been displaced from the center) is inserted, the speed may become slower if there are large vibrations while the disc is rotating.

*⁹ Depending on the disc, the writing speed may become slower.

*¹⁰ Does not accommodate 24X speed rewriting.

*¹¹ Options: CF-BAU0256U (256 MB), CF-BAU0512U (512 MB) Contact your technical support office. (☞ page 45)

*¹² A PC2700-compliant RAM module added to this computer, operates at the same speed as a PC2100-compliant RAM module.

*¹³ The settings for the K56flex modem need to be changed according to the AT command.

*¹⁴ Varies depending on the usage conditions, CPU speed, etc.

*¹⁵ Measured using BatteryMark™ Version 4.0.1 (LCD brightness: Maximum - Minimum)

*¹⁶ Measured using MobileMark™ 2002 (LCD brightness: 60 cd/m²)

Specifications

● Main Specifications

AC Adaptor ^{*1}	Input	100 V - 240 V AC, 50 Hz/60 Hz	
	Output	16 V DC, 2.5 A	
Power Consumption ^{*2}		Approx. 35 W ^{*3} / Approx. 40 W (maximum when recharging in the ON state)	
Environment	In use	Temperature	5 °C to 35°C {41 °F to 95 °F}
		Humidity	30% to 80% RH (No condensation)
	Not in use	Temperature	-20 °C to 60 °C {-4 °F to 140 °F}
		Humidity	30% to 90% RH (No condensation)
Physical Dimensions (W × H × D)		268 mm × 27.5 mm(at the front)/41.5 mm(at the rear) × 209.2 mm (excluding protrusion){10.6 " × 1.1 " / 1.7 " × 8.3 "}	
Weight		Approx. 1300 g {2.87 lb.}	
Operating System		Microsoft® Windows® XP Professional with Service Pack 1a	
Utility Programs		Adobe® Acrobat® Reader, Intel® PROSet, SD-MovieStage, SD Utility, Icon Enlarger, Touch Pad Utility, DMI Viewer, PC Information Viewer, WinDVD™5 (OEM Version), B's Recorder GOLD7 BASIC, B's CLiP 5, Hotkey Settings Setup Utility, Hard Disk Data Erase Utility ^{*4} , Hard Disk Backup tool ^{*4}	

^{*1} <Only for North America>

The AC adaptor is compatible with power sources up to 240 V AC adaptor. This computer is supplied with a 125 V AC compatible AC cord.

^{*2} Approx. 1.5 W when the battery pack is fully charged (or not being charged) and the computer is off.

^{*3} Rated power consumption.

^{*4} The Product Recovery DVD-ROM is required.

LIMITED WARRANTY

For U.S.A.

PANASONIC PERSONAL COMPUTER AND PERIPHERALS LIMITED WARRANTY

Panasonic Computer Solutions Company (referred to as "Panasonic") will repair this product (other than software, which is covered by a separate warranty) with new or rebuilt parts, free of charge in the U.S.A. for three (3) years from the date of original purchase in the event of a defect in materials or workmanship. This warranty includes the AC adaptor but excludes the batteries and all other options and accessories which are covered for a period of one (1) year from the date of purchase.

This warranty is extended solely to the original purchaser. A purchase receipt or other proof of date of original purchase will be required before warranty performance is rendered.

This warranty only covers failures due to defects in materials or workmanship which occur during normal use. It does not cover damage which occurs in shipment or failures which are caused by products not supplied by Panasonic, or failures which result from alteration, accident, misuse, introduction of liquid or other foreign matter into the unit, abuse, neglect, installation, maladjustment of consumer controls, improper maintenance, modification or service by anyone other than a Factory Service Center or authorized Panasonic Service Dealer, or damage that is attributable to acts of God.

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This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state. If a problem with your product develops during or after the warranty period, you may contact our representatives at 1-800-LAPTOP5. If the problem is not handled to your satisfaction, then write to the Consumer Affairs Division at the address indicated below.

SOFTWARE LIMITED WARRANTY

Panasonic Computer Solutions Company (referred to as "Panasonic") warrants to you only that the disk(s) or other media on which the Programs are furnished will be free from defects in materials and workmanship under normal use for a period of sixty (60) days from the date of delivery thereof to you, as evidenced by your purchase receipt.

This is the only warranty Panasonic makes to you. Panasonic does not warrant that the functions contained in the Programs will meet your requirements or that the operation of the Programs will be uninterrupted or error free.

Panasonic's entire liability, and your exclusive remedy under this warranty shall be limited to the replacement, in the United States, of any defective disk or other media which is returned to Panasonic's Authorized Service Center, together with a copy of the purchase receipt, within the aforesaid warranty period.

Anything in the foregoing to the contrary notwithstanding, Panasonic shall have no obligation for any defects in the disk(s) or other media on which the Programs are furnished resulting from your storage thereof, or for defects that have been caused by operation of the disk(s) or other media otherwise than on the Product or in environmental conditions other than those specified by Panasonic by alteration, accident, misuse, abuse, neglect, mishandling, misapplication, installation, maladjustment of consumer controls, improper maintenance, modification of damage that is attributable to acts of God. In addition, Panasonic shall have no obligation for any defects in the disk(s) or other media if you have modified, or attempted to modify any Program.

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Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.

This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

This Limited Warranty will be governed by the laws the State of New York, without regard to its conflict-of-laws rules.

* * *

To obtain service or technical assistance within the continental U.S.A. and Alaska.

DIAL TOLL FREE: 1-800-LAPTOP5

Correspondence requesting product information should be sent to:
Panasonic Computer Solutions Company
50 Meadowlands Parkway, Panazip 2F-5, Secaucus, NJ 07094

LIMITED WARRANTY

For Canada

PANASONIC COMPUTER AND PERIPHERALS LIMITED WARRANTY

Coverage – Panasonic Canada Inc. (“PCI”) warrants to you, the first end user customer, this computer product (excluding software media), when purchased from PCI or from a PCI authorized reseller, to be free from defects in materials and workmanship under normal use, subject to the terms set forth below, during the period of warranty coverage specified.

Scope of Coverage	Period of Coverage	Type of Failure Coverage
Whole Product (except Batteries), AC adaptor and CD-ROM (if factory installed)	Three (3) Years from Date of Original End User Customer Purchase	Defective Materials or Workmanship
Batteries, CD-ROM (unless factory installed), Port Replicator, Extra Memory Modules and all other Peripherals, Options and Accessories	One (1) Year from Date of Original End User Customer Purchase	Defective Materials or Workmanship

Remedy – In the event of a warranty claim, contact PCI’s representatives within the applicable warranty period, identifying the nature of the defect claimed, at 1-800-668-8386 between 9:00 A.M. and 5:00 P.M., Eastern Time Zone, Mon. – Fri. (excluding holidays) for instructions on how to obtain service. A purchase receipt or other proof of date of original purchase is required before warranty service is performed. Defective parts covered by this Limited Warranty will be repaired or replaced with new or comparable rebuilt parts on an exchange basis. Warranty replacement or repair is subject to the terms of this Limited Warranty for the balance of the original period of warranty coverage.

No Coverage – This Limited Warranty does not cover products purchased outside Canada. Neither does it cover damage to, failure of, or defects in a product or accessory through mishandling, improper installation, abnormal use, misuse, neglect, accident, introduction of liquid or other foreign matter into the product, alteration or servicing by anyone not authorized by PCI, or act of God.

IF YOU SHIP THE PRODUCT FOR WARRANTY SERVICE

Carefully pack the product, preferably in the original carton. Include details of defect claimed and proof of date of original purchase. No liability is assumed for loss or damage to the product while in transit, if you chose your own transportation carrier.

SOFTWARE MEDIA LIMITED WARRANTY

Coverage – Panasonic Canada Inc. (“PCI”) warrants to you, the first end user customer, that the disk(s) or other media on which software program(s) is/are supplied will be free from defects in materials and workmanship under normal use in Canada for a period of sixty (60) days from date of receipt as evidenced by your purchase receipt for your Panasonic Computer product.

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Claim Procedure – In the event of a defect in material or workmanship in the media during the sixty (60) day warranty period, and you return it, transportation costs prepaid, to Panasonic Canada Inc., Computer Products Marketing, at the above address, within the warranty period, together with a copy of your purchase receipt, and an explanation of the suspected defect, PCI will replace in Canada the defective disk(s) or other media.

Remedy – PCI’s entire liability, and your only remedy for any breach of this software media warranty is limited to replacement of the media only. It does not cover any other damages, including, but not limited to, loss of use or profit loss, or special, indirect or consequential damages, or other claims, whether or not of similar character.

No Coverage – This limited warranty does not apply if the disk(s) or other media has been used in other than a Panasonic product, or in environmental conditions other than those specified by PCI or the manufacturer, or if subjected to misuse, neglect, mishandling, modification or attempted modification of the program, or if damaged by accident or act of God. PCI is not responsible for damage to or loss of any program, data or removable storage media.

GENERAL

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NO ACTION, REGARDLESS OF ITS BASIS, MAY BE BEGUN AGAINST PCI MORE THAN TWO (2) YEARS AFTER THE CAUSE OF ACTION AROSE.

Statutory Warranties – Some jurisdictions do not allow these limitations or exclusions, so they may not apply to you.

Memo



As an ENERGY STAR® Partner, Matsushita Electric Industrial Co., Ltd. has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Outline of the International ENERGY STAR® Office Equipment Program

The international ENERGY STAR® Office Equipment Program is an international program that promotes energy saving through the use of computers and other office equipment. The program backs the development and dissemination of products with functions that effectively reduce energy consumption. It is an open system in which business proprietors can participate voluntarily. The targeted products are office equipment such as computers, displays, printers, facsimiles, and copiers. Their standards and logos are uniform among participating nations.

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