



Panasonic®

Personal Computer OPERATING INSTRUCTIONS

Model No. **CF-T1 Series**

2000 XP

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Appendix

[Additional Manual]

Reference Manual

This manual can be accessed on your computer. Refer to page 18 on how to access the Reference Manual.

Please read these instructions carefully before using this product and save this manual for future use.



Customer's Record

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

* For the Model No., insert the 12 digit number (for example, CF-T1R64ZZKM) 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:****WARNING:**

Windows 2000 :

Windows XP :

Enter :

Fn + **F5** :

[Start]* - [Run]:

:

Reference Manual :

NOTE provides a useful fact or helpful information.

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

WARNING indicates a hazard that may result in moderate or serious injury.

Information for Microsoft® Windows® 2000 Professional users.

Information for Microsoft® Windows® XP Professional users.

This illustration means to press the [Enter] key.

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

This illustration means to click [Start]*, then to click [Run].

(For some applications, you may need to double-click.)

* **Windows XP** : [start]

Where to go for referred information.

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

Refer to page 18 on how to access this manual.

- Windows 2000 screens are used in this manual when no specific OS notes are required.
- 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.
- This manual covers two types of models, as distinguished by the type of LCD screen (models with touchscreen and models without touchscreen).
- 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.

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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 computer is provided with PC Card slots 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: AMBIT Microsystems Corporation
Model No. T60M283.00

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 it's 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-LAPTOP5 (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.
10. According to the FCC's electrical safety advisory, we recommend that you may install an AC surge arrestor 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/>>



Read Me First

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

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’assure 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

Getting Started

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



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 mis-application 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!

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.



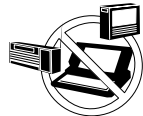
Avoid Humidity, Liquids and Dust

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



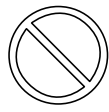
Prevent Shock

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.

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.

Cables

Use of an interface cable longer than 3 m (9.84 feet) is not recommended.



Read Me First

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.



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 (LED) is on.**
Properly shut Windows* down to avoid problems.
- **Save all valuable data to disks.**
Backing up data to disks 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/MultiMedia Card”)

* **Windows 2000** : This computer uses Microsoft® Windows® 2000 Professional.
Windows XP : This computer uses Microsoft® Windows® XP Professional.

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 29). (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.

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.



Read Me First

Computer Viruses

Users are advised to purchase the latest versions of virus protection software and use them regularly.

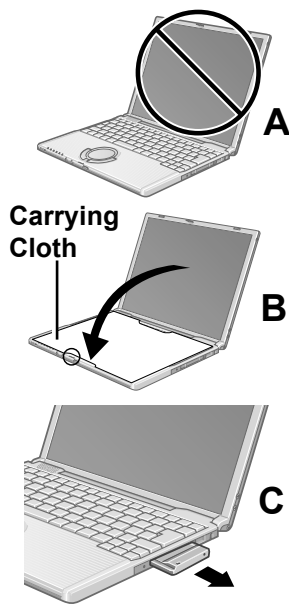
We recommend you run the software:

- 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 Internet, e-mail, etc. (For compressed files, uncompress them before running a check).

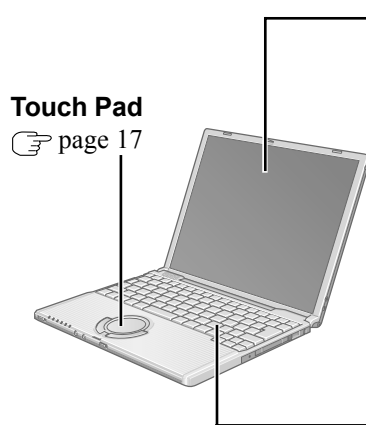
Handling

Getting Started



- 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.
- Do not carry the computer while the display is open, or carry it by gripping the display or the cabinet around the display (see figure A). When closing the display, ensure that the latch is positioned correctly in the slot (☞ page 10).
- Do not carry your computer when the power is on. Lay the carrying cloth that comes with the computer across the keyboard (see figure B), and close the display gently. When closing the display, take care to ensure that the carrying cloth does not get caught in the Panel Switch, and check that the latch on the computer body (☞ page 10) is properly aligned.
- Do not drop or hit your computer against solid objects.
- Remove all external devices, cables, PC Cards sticking out of the computer (see figure C), SD memory cards, and MultiMedia Cards before transporting the computer.
- We recommend preparing a fully charged battery pack. When transporting a spare battery pack inside a package, briefcase, etc., it is recommended that it be placed in a plastic bag so that its contacts are protected.
- Always carry your computer with you. Never check it in with luggage. For use of the computer inside an aircraft, we recommend asking the airlines regarding their policy on this issue.
- It is a good idea to make backup copies on disks and carry them with you.

Maintenance



Touch Pad
☞ page 17

Display

<Models with touchscreen>

Use the soft cloth included with the computer. (For more information, refer to “Suggestions About Cleaning the LCD Surface” that comes with the soft cloth.)

<Models without touchscreen>

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.

Areas excluding the display

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

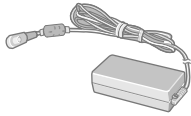
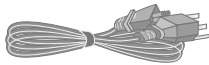
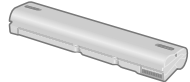

- Do not use benzene, thinner, or rubbing alcohol. Doing so may adversely affect the surface, e.g., discoloration. In addition, do not use commercially-available household cleaners and cosmetics, as they may contain components harmful to the surface.
- Do not directly add or spray water or detergent.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

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

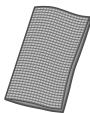

Make sure the parts shown in the figure have been supplied. If any of these items are missing or is not working properly, contact your technical support office (☎ page 32).

AC adaptor 1  Model No : CF-AA1623A	AC Cord 1 	Battery Pack 1  Model No :CF-VZSU24
Product Recovery CD-ROM Windows 20002 Windows XP3	Modem Telephone Cable 1 	Operating Instructions (This book) 1 Windows® Book 1

Getting Started

Refer to page 8 for details on the carrying cloth for protecting the keyboard.

<Only for models with touchscreen>

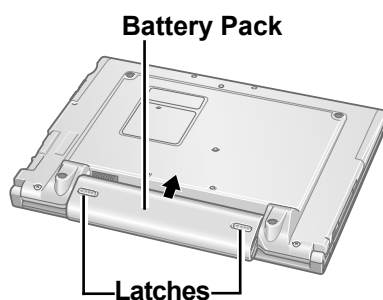
Soft Cloth 1 	Stylus 1  <small>(☞ Reference Manual "Touchscreen")</small>
--	---

2 Read the LIMITED USE LICENSE AGREEMENT (☞ page 27)

Before removing the seal covering the power switch, read the LIMITED USE LICENSE AGREEMENT.

3 Turn the computer over and insert the battery pack

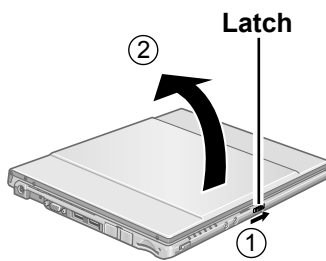
Make sure the battery pack is facing the correct direction, slide it in the direction of the arrow, and then check to ensure that the battery pack is held firmly by the latches on the left and right sides.



CAUTION

- Be sure the battery pack is properly connected to the connector.
- 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 6).

First-time Operation

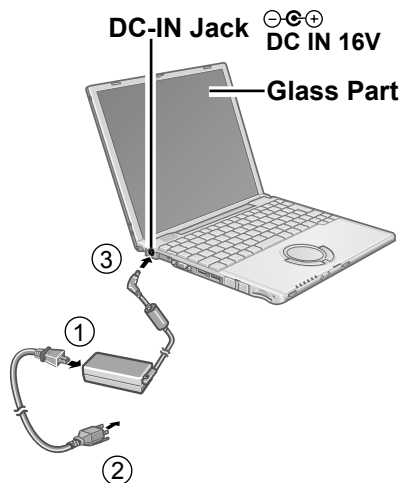


4 Open the display

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

CAUTION

- Do not open the display wider than necessary (160° or more).
- Do not apply excessive pressure to the glass part of the display. Also, do not hold the glass part when opening or closing the display.



5 Connect your computer to a power outlet

The battery pack will be charged automatically.

Charging Time: Approx. 3 hours

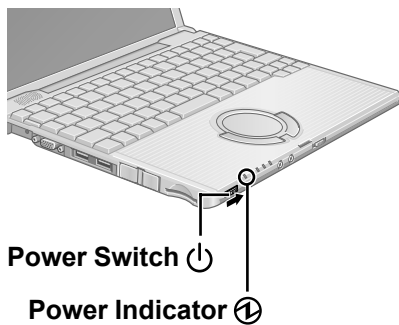
(Varies depending on the usage conditions.)

CAUTION

- Be sure the AC adaptor is connected until completing Step 8 on page 12.
- 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 17).

Windows 2000

CAUTION

Do not press any key or move the touch pad until [Windows 2000 Professional Setup] is displayed.

- ① At the [Welcome to the Windows 2000 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].
- 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].
You can also complete these settings at a later time. In this case, set [Date and Time] in [Start] - [Settings] - [Control Panel] - [Date/Time].
- ⑦ At [Networking Settings], select [Typical settings], then select [Next].
- ⑧ At [Workgroup or Computer Domain], select [No, this computer is not on a network, or is on a network without a domain], then select [Next].
The computer will restart.
- ⑨ At [Welcome to the Network Identification Wizard], select [Next].
- ⑩ At [Users of This Computer], select [Users must enter a user name and password to use this computer], then select [Next].
- ⑪ Select [Finish].
- ⑫ Enter your administrator password and select [OK].

<Only for models with touchscreen>

If the cursor can not be pointed correctly with the stylus, perform [Calibration] in [Start] - [Settings] - [Control Panel] - [Mouse] - [TouchScreen].

Windows XP

CAUTION

Do not press any key or move 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].
- ⑤ Enter your computer name and administrator password and then select [Next].

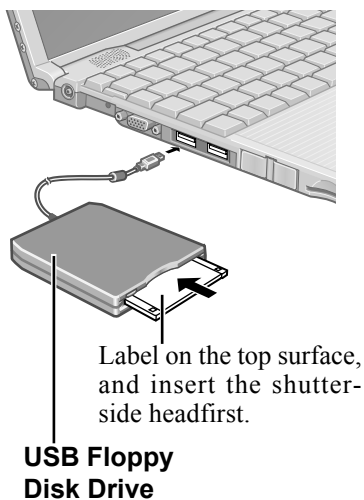
CAUTION

Remember this password! If the password is forgotten, Windows cannot be operated. You can create a password reset disk beforehand (☞ page 13).

- ⑥ Enter the correct date, time and the time zone, then select [Next].
You can also complete these settings at a later time. In this case, set [Date and Time] in [start] - [Control Panel] - [Date, Time, Language, and Regional Options].
- ⑦ At [Networking Settings], select [Typical settings], then select [Next].
- ⑧ At [Workgroup or Computer Domain], select [No, this computer is not on a network, or is on a network without a domain], then select [Next].
The computer will restart.
- ⑨ Enter your administrator password and select [Next].

<Only for models with touchscreen>

If the cursor can not be pointed correctly with the stylus, perform [Calibration] in [start] - [Control Panel] - [Printers and Other Hardware] - [Mouse] - [TouchScreen].



8 <When using a PC Card-compatible CD drive for reinstalling> Create Backup Disks for reinstallation

To create backup disks, the floppy disk drive (optional: CF-VFDU03) and formatted 2HD floppy disks are needed.

- 1 Connect the USB floppy disk drive to your computer.

NOTE

The floppy disk drive must be the A drive.

- 2 Prepare 2HD floppy disks and make sure they are not in the write-protected state, and then set it.

Windows 2000

Select [Start] - [Programs] - [Panasonic] - [Create Backup Disk] and follow the on-screen instructions.

Windows XP

Select [start] - [All Programs] - [Panasonic] - [Create Backup Disk] and follow the on-screen instructions.

- 4 Place a label identifying the contents on each disk.

● Name of created backup disk

FIRSTAID FD (When the display for creating the UPDATE FD is shown, create the disk by following the on-screen instructions.)

CAUTION

- Store the floppy disks in a safe place. They will enable you to return your computer to the condition at the time of purchase should any problems occur. When creating backup disks, do not run any other application program.
- When creating backup disks and the message [Insufficient files to copy] is displayed, select [OK] and then contact your technical support office (☞ page 32).
- While the floppy disk drive indicator is on, do not remove the floppy disk, power off your computer or use the standby or hibernation function (☞ Reference Manual "Standby/Hibernation Functions").
- Be sure to create the backup disk.
If a backup disk is not created, it will be impossible to return the computer to its original state. In this case, contact your technical support office (☞ page 32).

This concludes the first-time use operation guidelines.



Information for Windows XP

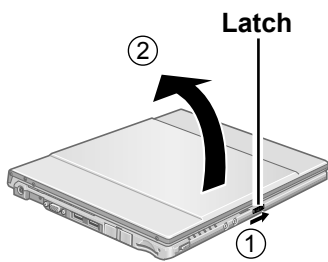
- Depending on the Windows settings, installed applications, and drivers, menus and other displays may differ, or some functions (such as use of the password reset disk) may be inoperable.
- You can select Classic view for the Control Panel or select the Classic Start menu. You can also change the way 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 or 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-VFUDU03) to your computer.
 - 2** Select [start] - [Control Panel] - [User Accounts] and select the account you used to logon.
 - 3** Select [Prevent a forgotten password] from the [Related Tasks] menu 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.
- When you create the first new account, you can only select [Computer administrator]. Only the added user account will be displayed in the Welcome screen. The account for the administrator created during Windows setup (when the computer is started up for the first time) will not be displayed.

Starting Up/Shutting Down

Starting Up

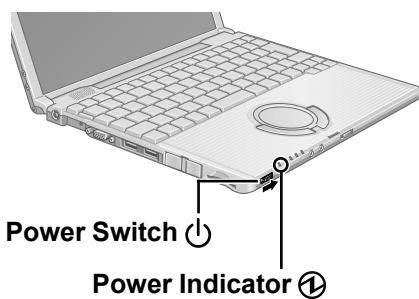


1 Open the display

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

CAUTION

- Do not open the display wider than necessary (160° or more).
- Do not apply excessive pressure to the glass segment of the display. Also, do not hold the glass segment when opening or closing the display.



2 Turn your computer on

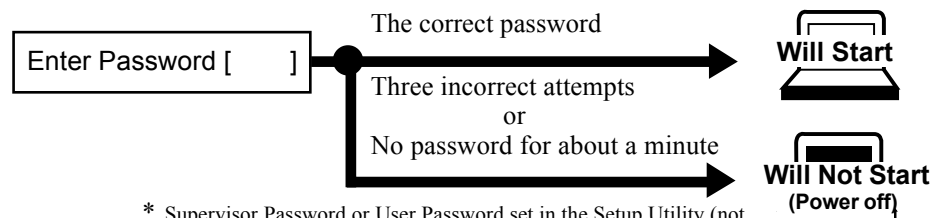
Slide the power switch and hold it for approximately one second until the power indicator turns on before releasing it.

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, touchscreen (only for models with touchscreen), 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 using this computer with the battery pack only, it may take some time for the power to turn on after sliding the power switch. In this case, slide the power switch and hold it for more than one second. This phenomenon occurs because the standby power is minimized while the power is turned off; it is not a malfunction.
- 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 32)

● If [Enter Password] is displayed

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



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


● When an application or file that was previously displayed appears on your screen

The standby or hibernation mode has been set (Reference Manual “Standby/Hibernation Functions”).





3 Log on to Windows

Windows 2000

After confirming that the hard disk drive indicator () has turned off, input the user name and password, then select [OK]. Until the correct user name and password are entered, the computer will not operate.

Windows XP

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, the touchscreen (only for models with touchscreen) 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, the touchscreen (only for models with touchscreen) 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.

Windows XP

- When switching to a different user with the Fast User Switching function, it may not be possible to set the settings of the display. In this case, log on with the administrator authority again, not using the Fast User Switching function, and try the operation once more.



Starting Up/Shutting Down

Shutting Down (power off your computer)

This procedure is for shutting down the computer without using the standby or hibernation function (☞ Reference Manual “Standby/Hibernation Functions”).

1 Save important data and close each application

2 Windows 2000

Select [Start] - [Shut Down]

Windows XP

Select [start] - [Turn Off Computer]

3 Windows 2000

Select [Shut down], then select [OK]

Windows XP

Select [Turn Off]

Your computer will power off automatically.

● Restarting your computer (without shutting down)

Windows 2000

Select [Restart], then select [OK].

Windows XP

Select [Restart].

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, touchscreen (only for models with touchscreen), or external mouse operations.
- Closing the display.






NOTE

● To shut down using the keyboard,

Windows 2000

Press , **U**, and select [Shut down] with    , then press **Enter**.

Windows XP

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

● To quickly resume computer operation after shutting down,

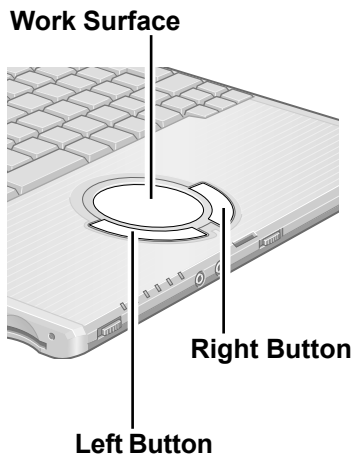
The standby or hibernation function is available (☞ Reference Manual “Standby/Hibernation Functions”).


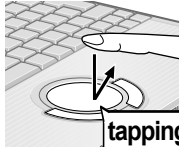

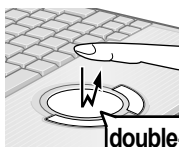
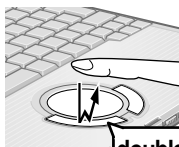



Touch Pad

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

NOTE

By design the touch pad is to be used with a finger tip only. Therefore, do not use any implement which causes damage on the work surface.



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	 Reference Manual "Touch Pad"

NOTE

- Refer to [Mouse Properties]* for information on basic operations other than the above.
 - * **Windows 2000** : [Start] - [Settings] - [Control Panel] - [Mouse]
 - Windows XP** : [start] - [Control Panel] - [Printers and Other Hardware] - [Mouse]
- Even if the NOTE "The help message in..." appears in the "Touch Pad" section of the Reference Manual, the statement does not refer to this model. Even when settings are changed using [Control Panel] - [Date, Time, Language, and Regional Options] - [Regional and Language Options] - [Standards and formats], the display language within [Mouse Properties] - [Device Settings] - [Settings] does not change.

Handling the Touch Pad

- 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.
- **When the touch pad becomes dirty:**
 - Wipe to remove dirt by using a dry soft cloth such as gauze or a soft cloth first applied with detergent diluted with water and then thoroughly wrung.
 - 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.



Reference Manual

The Reference Manual can be accessed on your computer. When a printer is connected, the Reference Manual can also be printed. This 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.)

Run the Reference Manual

1 Turn your computer on

2 **Windows 2000**

Select [Reference Manual] in [Start] - [Programs] - [Panasonic] - [On-Line Manuals]

Windows XP

Select [Reference Manual] in [start]

When the Reference Manual is started up 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.

NOTE

- Illustrations may be difficult to view depending on the magnification. If this is the case, we recommend that the display be magnified.
- The characters in PDF files (such as the Reference Manual) may be difficult to read depending on the Acrobat Reader settings and the Windows Desktop settings. In such cases, change the Acrobat Reader settings with the following procedure.
 - 1** Start up Acrobat Reader.
 - 2** Select [Edit] - [Preferences] - [Accessibility], and then set [Color Scheme] to [Use colors specified in document].
- 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.

Windows XP

- When switching to a different user with the Fast User Switching function, PDF files may not be printed properly. In this case, log on with the administrator authority again, not using the Fast User Switching function, and try the operation once more.

List of Error Codes

The following is a list of the messages that BIOS can display. Most of them occur during POST. Some of them display information about a hardware device, e.g., the amount of memory installed. Others may indicate a problem with a device, such as the way it has been configured. Following the list are explanations of the messages and remedies for reported problems.

If your system displays any of the below error messages other than the ones marked with an asterisk (*), write down the message and contact your technical support office (☎ page 32). If your system fails after you make changes in the Setup menus, reset the computer, enter Setup and install Setup defaults or correct the error.

0200 Failure Fixed Disk

Fixed disk is not working or not configured properly. Check to see if fixed disk is attached properly. Run Setup. Find out if the fixed-disk type is correctly identified.

0210 Stuck key

Stuck key on keyboard.

0211 Keyboard error

Keyboard not working.

0212 Keyboard Controller Failed

Keyboard controller failed test. May require replacing keyboard controller.

0213 Keyboard locked - Unlock key switch

Unlock the system to proceed.

0230 System RAM Failed at offset : *nnnn*

System RAM failed at offset *nnnn* of the 64k block at which the error was detected.

0231 Shadow RAM Failed at offset : *nnnn*

Shadow RAM failed at offset *nnnn* of the 64k block at which the error was detected.

0232 Extended RAM Failed at offset : *nnnn*

Extended RAM Failed at address line : *nnnn*

Extended memory not working or not configured properly at offset or address *nnnn*.

0250 System battery is dead - Replace and run SETUP

The CMOS clock battery indicator shows the battery is dead. Replace the battery and run Setup to reconfigure the system.

***0251 System CMOS checksum bad - Default configuration used**

System CMOS has been corrupted or modified incorrectly, perhaps by an application program that changes data stored in CMOS. The BIOS installed Default SETUP Values. If you do not want these values, enter Setup and enter your own values. If the error persists, check the system battery or contact your technical support office (☎ page 32).

0260 System timer error

The timer test failed. Requires repair of system board.

0270 Real time clock error

Real-time clock fails BIOS test. May require board repair.

***0280 Previous boot incomplete - Default configuration used**

Previous POST did not complete successfully. POST loads default values and offers to run Setup. If the failure was caused by incorrect values and they are not corrected, the next boot will likely fail. On systems with control of **wait states**, improper Setup settings can also terminate POST and cause this error on the next boot. Run Setup and verify that the wait-state configuration is correct. This error is cleared the next time the system is booted.

0281 Memory Size found by POST differed from EISA CMOS

Memory size found by POST differed from EISA CMOS.

02B0 Diskette drive A error

02B1 Diskette drive B error

Drive A: or B: is present but fails the BIOS POST diskette tests. Check to see that the drive is defined with the proper diskette type in Setup and that the diskette drive is attached correctly.

02B2 Incorrect Drive A type - run SETUP

Type of floppy drive A: not correctly identified in Setup.

02B3 Incorrect Drive B type - run SETUP

Type of floppy drive B: not correctly identified in Setup.

02D0 System cache error - Cache disabled

Contact your technical support office (☎ page 32).

02F0: CPU ID:

CPU socket number for Multi-Processor error.

02F4: EISA CMOS not writable

ServerBIOS2 test error: Cannot write to EISA CMOS.



List of Error Codes

02F5: DMA Test Failed

ServerBIOS2 test error: Cannot write to extended DMA (Direct Memory Access) registers.

02F6: Software NMI Failed

ServerBIOS2 test error: Cannot generate software NMI (Non-Maskable Interrupt).

02F7: Fail - Safe Timer NMI Failed

ServerBIOS2 test error: Fail-Safe Timer takes too long.

***device* address Conflict**

Address conflict for specified *device*.

Allocation Error for: *device*

Run ISA or EISA Configuration Utility to resolve resource conflict for the specified *device*.

Failing Bits : *nnnn*

The hex number *nnnn* is a map of the bits at the RAM address which failed the memory test. Each 1 (one) in the map indicates a failed bit. See error 230,231 or 232 for offset address of the failure in System, Extended or Shadow memory.

Invalid System Configuration Data

Problem with NVRAM (CMOS) data.

I/O device IRQ conflict

I/O device IRQ conflict error.

Operating System not found

Operating system cannot be located on either drive A: or drive C:. Enter Setup and see if fixed disk and drive A: are properly identified.

Parity Check 1 *nnnn*

Parity error found in the system bus. BIOS attempts to locate the address and display it on the screen. If it cannot locate the address, it displays ????. Parity is a method for checking errors in binary data. A parity error indicates that some data has been corrupted.

Parity Check 2 *nnnn*

Parity error found in the I/O bus. BIOS attempts to locate the address and display it on the screen. If it cannot locate the address, it displays ????.

Press <F1> to resume, <F2> to Setup

Displayed after any recoverable error message. Press <F1> to start the boot process or <F2> to enter a Setup and change the settings. Write down and follow the information shown on the screen.

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 32)

● Starting Up

The power indicator or battery indicator is not lit	<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.
The computer does not operate when a USB device is connected	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.
[Enter Password] is displayed	Input your password. If you have forgotten it, contact your technical support office (☞ page 32).
POST Startup Error(s) is displayed	☞ page 19
Windows startup, or an operation is extremely slow	<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). 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.
The date and time are incorrect	<ul style="list-style-type: none"> ● You can set the date and time using the following procedure: Windows 2000 [Control Panel] - [Date/Time] Windows XP [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 32). ● 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.
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>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:</p> <p>Windows 2000 Set the password in [Control Panel] - [Users and Passwords], then add the check mark for [Prompt for password when computer goes off standby] in [Control Panel] - [Power Options] - [Advanced].</p> <p>Windows XP Select the account to change in [Control Panel] - [User Accounts] and set the password, then add the check mark for [Prompt for password when computer resumes from standby] in [Control Panel] - [Performance and Maintenance] - [Power Options] - [Advanced].</p>
When “Invalid system disk. Replace the disk, and then press any key.” (or a similar message) is displayed	<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 two measures, this may be an indication that some type of hard disk failure has occurred. Contact your technical support office (☞ page 32).



Dealing with Problems (Summary)

Starting Up (continued)

<p>When the administrator password is forgotten</p>	<p>Windows 2000 After reinstalling, setup Windows and then set the password again.</p> <p>Windows XP If you have created a password reset disk (☞ page 13), 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.</p>
<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. <ul style="list-style-type: none"> Windows 2000 <ol style="list-style-type: none"> 1 Select [Local Disk(C:)] with the right button in [My Computer], and select [Properties]. 2 Select [Tools] - [Check Now]. 3 Select [Start] after selecting required items in [Check disk options]. Windows XP <ol style="list-style-type: none"> 1 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 the [Panasonic] screen disappears, and release your finger when the Windows Advanced Options Menu is displayed. Start the computer in Safe Mode, and confirm the details of the error.

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. ● Try switching the display destination by pressing (Fn) + (F3).
<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. ● There is a possibility that an external display is set as the display destination. Press (Fn) + (F3) to switch the display destination. ● 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.
<p>When the battery pack is used, the screen is darker than when the AC adaptor is connected</p>	<p>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>
<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 (Fn) + (U), and select [Restart] with (→) (←) (↑) (↓), then press (Enter)). ● If the computer does not respond to keyboard commands, read "Computer hangs" (☞ page 24).



● Display (continued)

An afterimage appears (e.g., green, red, and blue dots remain on the display) or there are dots not displaying the correct colors	<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.
The screen becomes disordered	Changing the number of colors or resolution of the display may affect the screen. Restart the computer.
The external display no longer displays properly	When an external display not compatible with the power saving mode is used with the computer, the external display may no longer display properly when the computer enters the condition the power of the display is off (for energy conservation purposes). In such cases, turn off the power to the external display.
During simultaneous display, the screen of the external display becomes disordered	<ul style="list-style-type: none"> ● Try switching the display destination by pressing (Fn) + (F3). ● If the external screen is not displayed even after switching screens using (Fn) + (F3), try switching the display destination using the following procedure: Windows 2000 [Start] - [Settings] - [Control Panel] - [Intel® Extreme Graphics] Windows XP [start] - [Control Panel] - [Other Control Panel Options] - [Intel® Extreme Graphics]
The screen does not fill up the entire display (i.e., the screen is shown in the center of the display)	If the screen resolution is set to 800 x 600 or less and the screen is set to simultaneous display, the screen will not fill up the entire display. Also, if the screen is set to Extended Desktop, the screen may not fill up the entire display.
When an MPEG file is being played with Media Player, the display destination cannot be switched using (Fn) + (F3)	The display destination cannot be switched while an MPEG file is playing. Stop playing the MPEG file before switching the display destination.

● Shutting down

Windows cannot be shut down or restarted	If a USB device is connected, try removing it.
---	--

● Battery Indicator

The red indicator lights	The battery level is low. Save your data and power off your computer. After connecting the AC adaptor or replacing the battery pack with a fully charged one, turn your computer on.
The red indicator blinks	The battery pack or recharging function may be defective. Quickly save current data and exit Windows. Remove the battery pack and disconnect the AC adaptor, then connect them again. If the problem persists, contact your technical support office (☎ page 32).
The orange indicator blinks	Unable to recharge due to violation of temperature limits. The ambient temperature is outside the allowable range. Once the allowable range requirement is satisfied, charging begins automatically.



Dealing with Problems (Summary)

● Reference Manual

The Reference Manual is not displayed	<p>Is Acrobat Reader installed?</p> <p>If Acrobat Reader is not installed, run [c:\util\reader\ar505enu.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 the [Start]* menu.</p> <p>* Windows XP : [start]</p>
--	--

● Fast User Switching Function **Windows XP**

Some applications do not work properly	<p>When switching to a different user with the Fast User Switching function, the following problems may occur.</p> <ul style="list-style-type: none"> • Some applications may not work properly (for example, PDF files may not be printed properly). • It may not be possible to set the settings of the display. <p>If any of the above occur, log on with the administrator authority again, not using the Fast User Switching function, and try the operation once more.</p>
---	--

● Others

Computer hangs	<ul style="list-style-type: none"> ● Do not switch screens continuously (e.g., using [Command Prompt] full screen display) while an MPEG file is playing. ● 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. <p>If the program no longer works normally, delete the program using the following procedure.</p> <p>Then reinstall the program.</p> <p>Windows 2000 : [Start] - [Settings] - [Control Panel] - [Add/Remove Programs] Windows XP : [start] - [Control Panel] - [Add or Remove Programs]</p>
-----------------------	---

Reinstalling Software

Before Reinstallation

● Preparing

- BACKUP DISK(s) created in advance (☞ page 12)
- Product Recovery CD-ROM (included)
- Panasonic USB floppy disk drive (optional: CF-VFUDU03)
- Panasonic CD drive (optional: KXL-RW10A <PC Card-compatible> or CF-VDRRT1 <USB>)
When using a PC Card-compatible CD drive other than the Panasonic KXL-RW10A CD drive: ☞ page 26

NOTE

If you have not created the FIRSTAID FD, you can create by using the following procedure:

- Windows 2000** : [Create Backup Disk] in [Start] - [Programs] - [Panasonic]
- Windows XP** : [Create Backup Disk] in [start] - [All Programs] - [Panasonic]

If you can not create this disk, contact your technical support office (☞ page 32).

● Important

- Save all important data. If reinstallation is carried out, all data existing prior to the installation will be lost. The reinstallation will return the computer to the conditions at time of purchase.
- Before the reinstallation procedure, remove all peripherals (except for the CD and floppy disk drive).
- Be sure the AC adaptor is connected until the reinstallation procedure is completed.
- When using the Panasonic KXL-RW10A CD drive, set the switch of the PC Card to 16-bit.

Reinstalling

CAUTION

- If the reinstallation procedure is cancelled before being completed, perform the process again from the beginning.
- Do not cancel during reinstalling.
- For users intending to change the partitioning of the hard disk:
Do not use the FDISK program that comes as a standard with Windows 95, Windows 98, and Windows 98 Second Edition, as this has been shown to result in an error in the partitioning settings.
The following FDISK programs will enable the correct settings:
 - FDISK program that comes as a standard with Windows Me
 - Windows 98 and Windows 98 Second Edition FDISK programs for hard disks that is larger than 64 GB in size**A patch for correcting the bug in the standard FDISK program has been made available as a free download. For details, please refer to the Microsoft Web Site.

- 1 Turn off the computer.
- 2 Connect the CD drive to the computer.
<Only when using the CD drive Panasonic KXL-RW10A>
Connect the floppy disk drive to the USB port of the computer, then set the FIRSTAID FD in the floppy disk drive.
- 3 Turn the computer on, and immediately hold down **(F2)**. Release the key when the Setup Utility starts up.
If the password has been set, enter the Supervisor Password.
- 4 Write down all of the contents of the Setup Utility and then press **(F9)**.
At the confirmation message, select [Yes] and press **(Enter)**.
<Only when using the USB CD drive Panasonic CF-VDRRT1>
Select [Boot] menu, then select [USB CD Drive] and press **(F6)** until [USB CD Drive] is at the top of the [Boot] menu.
- 5 Place the disc number one of the recovery CDs into the CD drive.
- 6 Press **(F10)**.
At the confirmation message, select [Yes] and press **(Enter)**.
The computer will restart, and this screen should appear.

```
-----  
Select a number  
-----  
1. Start restoring the operating system.  
2. Erase the whole data on HDD for security.  
3. End  
-----
```
- 7 Select [1. Start restoring the operating system.].
The License Agreement screen should appear.

Reinstalling Software

- 8 Select [1. Yes, I agree to the provisions above and wish to continue!].

This screen should appear.

Windows 2000

Select a number

1. Restore Windows(R) 2000 Professional to the whole HDD.
2. Make two partitions, for the operating system and data. And restore Windows(R) 2000 Professional to the operating system partition. (All existing partitions on HDD will be lost.)
3. Restore Windows(R) 2000 Professional to the first partition.
4. End

Windows XP

Select a number

1. Restore Windows(R) XP Professional to the whole HDD.
2. Make two partitions, for the operating system and data. And restore Windows(R) XP Professional to the operating system partition. (All existing partitions on HDD will be lost.)
3. Restore Windows(R) XP Professional to the first partition.
4. End

- 9 Make a selection from the menu.
- 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 initial partition size must be 6 GB or more of the hard disk size. Reinstallation cannot be performed with a small partition size.

- 10 At the confirmation message, press **Y**.
The operation of reinstallation for the hard disk starts automatically. (The operations take about 20 <PC Card-compatible> or 50 <USB> minutes.)
When a message appears instructing you to insert the next CD, insert the recovery CD showing the next number in the sequence, and then select [OK].

NOTE

If the message "The media does not contain the correct file" appears, select [OK]. A message will appear instructing you to insert the next CD.

Confirm that the proper recovery CD has been inserted by opening the tray of the CD drive and then close the tray, then select [OK].

- 11 After the reinstallation procedure completes, press any key. The computer will be shut down.
<Only when using the CD drive Panasonic KXL-RW10A>
Remove the FIRTAID FD and the floppy disk drive.
- 12 Remove the recovery CD and the CD drive.
- 13 Turn the computer on, and immediately hold down **F2**. Release the key when the Setup Utility starts up. If the password has been set, enter the Supervisor Password.

- 14 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.) Change the settings where necessary.

- 15 Press **F10**.

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

- 16 Perform the setup procedure for Windows by following the instructions on the screen (☞ page 10).

NOTE

When the FIRTAID FD is to be created, follow the steps in the readme.txt on the disk (☞ page 12).

<When using a PC Card-compatible CD drive other than the Panasonic KXL-RW10A>

Copy the necessary drivers, from the floppy disk included with your CD drive, to the FIRTAID FD with the method below. It will be necessary to edit the CONFIG.SYS file and AUTOEXEC.BAT file on the FIRTAID FD. When editing the AUTOEXEC.BAT file, some CD drives require card managers (card and socket service). See the manual included with your CD drive for further details.

- ① Start Windows and insert the FIRTAID FD.

- ② **Windows 2000**

Select [Start] - [Programs] - [Accessories] - [Notepad] - [File] - [Open], input [a:\config.sys], then select [Open].

Windows XP

Select [start] - [All Programs] - [Accessories] - [Notepad] - [File] - [Open], input [a:\config.sys], then select [Open].

- ③ Rewrite the following line and save.

Delete the following four lines.

```
;KXL-RW10A DRIVER  
DEVICE=A:\TOOLS\KMASMGRA.SYS  
DEVICE=A:\TOOLS\KMASASPA.SYS  
DEVICE=A:\TOOLS\KMASCDA.SYS /D:MSCD000
```

Add the driver of your CD drive.

```
Device=A:\DRIVER1.SYS /D:MSCD000
```

↳ Rewrite this driver for the driver of your CD drive. The driver for the PC Card will also be necessary. Refer to the operation manual that accompanies the CD drive.

Save the file and close [Notepad].

- ④ Copy the CD driver file (i.e., the driver file rewritten in step ③) of the CD drive below [a:\] of the FIRTAID FD.
- ⑤ Set the floppy disk to the write-protect state.

After this, follow the reinstallation procedure of **<Only when using the CD drive Panasonic KXL-RW10A>** (☞ page 25).



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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

- BACKUP DISK(s) created in advance (☞ page 12)
 - Product Recovery CD-ROM (included)
 - Panasonic USB floppy disk drive (optional: CF-VFUD03)
 - Panasonic CD drive (optional: KXL-RW10A <PC Card-compatible> or CF-VDRRT1 <USB>)
- When using a PC Card-compatible CD drive other than the Panasonic KXL-RW10A CD drive: ☞ page 26

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.
 - If you have not created the FIRTAID FD, you can create by using the following procedure:
 - Windows 2000** : [Create Backup Disk] in [Start] - [Programs] - [Panasonic]
 - Windows XP** : [Create Backup Disk] in [start] - [All Programs] - [Panasonic]
- If you can not create this disk, contact your technical support office (☞ page 32).
- When using the Panasonic KXL-RW10A CD drive, set the switch of the PC Card to 16-bit.

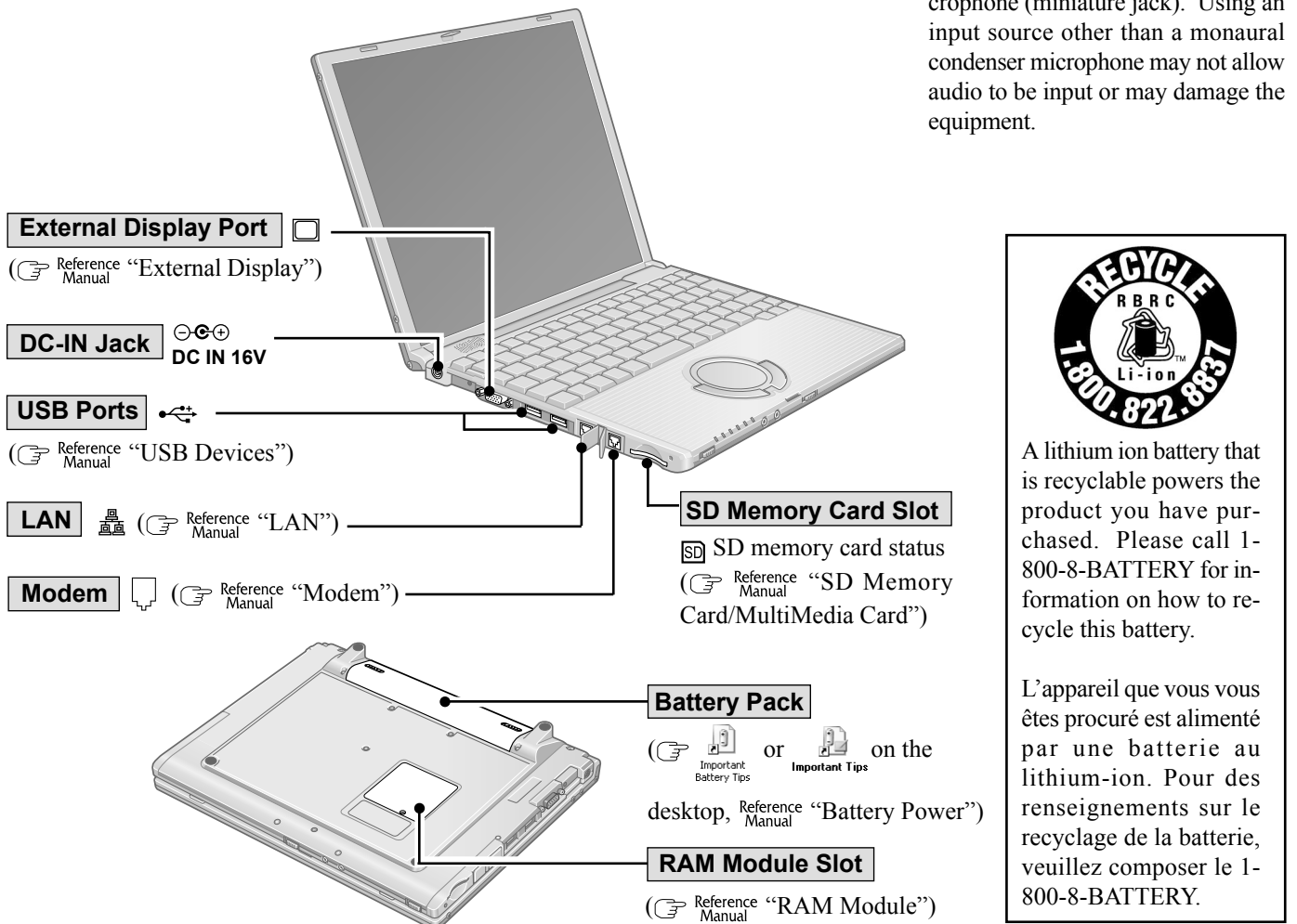
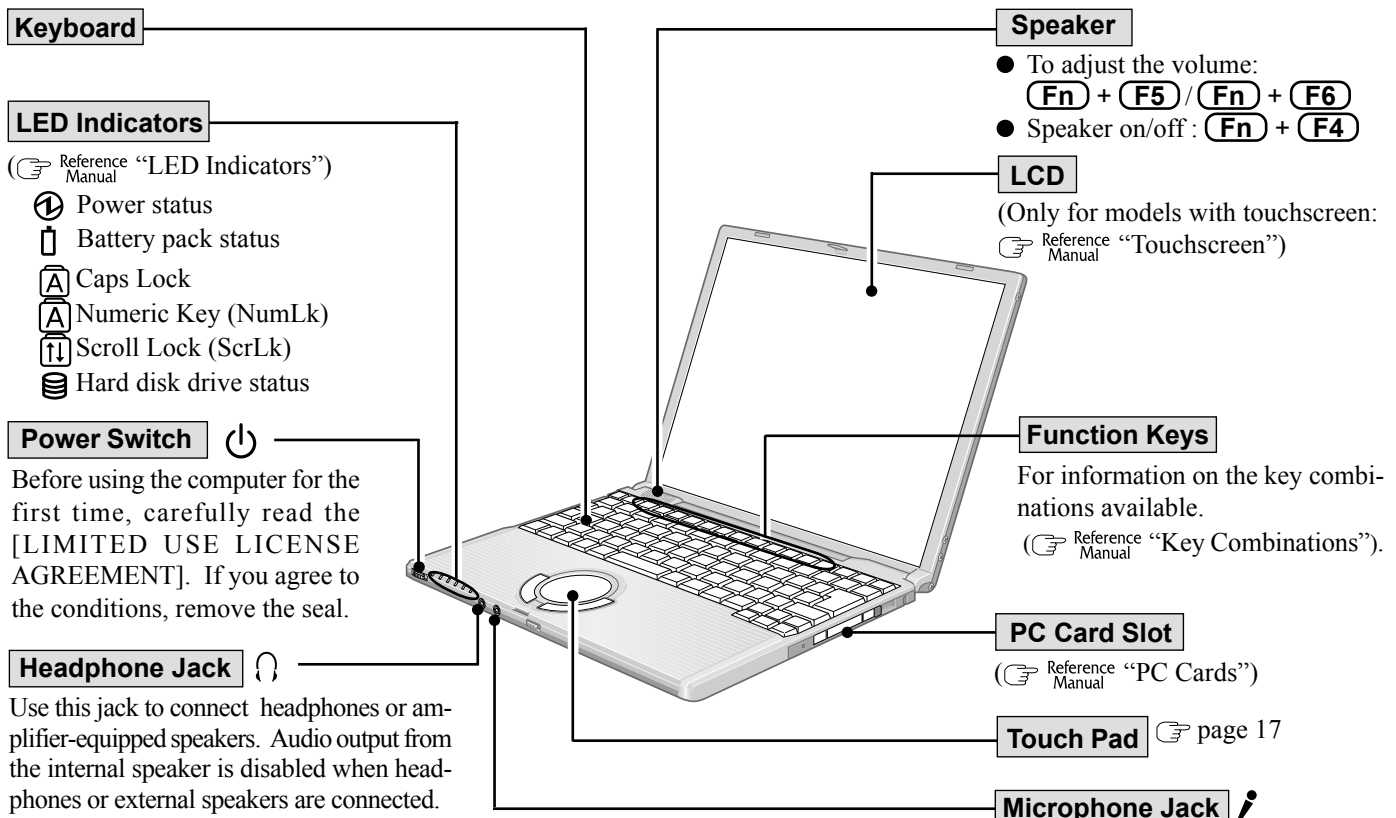
Procedure

- 1 Turn off the computer.
- 2 Connect the CD drive to the computer.
<Only when using the CD drive Panasonic KXL-RW10A>
Connect the floppy disk drive to the USB port of the computer, then set the FIRTAID FD in the floppy disk drive.
- 3 Turn the computer on, and immediately hold down **(F2)**. Release the key when the Setup Utility starts up.
If the password has been set, enter the Supervisor Password.
- 4 Write down all of the contents of the Setup Utility and then press **(F9)**.
At the confirmation message, select [Yes] and press **(Enter)**.
<Only when using the USB CD drive Panasonic CF-VDRRT1>
Select [Boot] menu, then select [USB CD Drive] and press **(F6)** until [USB CD Drive] is at the top of the [Boot] menu.
- 5 Place the disc number one of the recovery CDs into the CD drive.
- 6 Press **(F10)**.
At the confirmation message, select [Yes] and press **(Enter)**.
The computer will restart, and this screen should appear.
- 7 Select [2. Erase the whole data on HDD for security.].
- 8 At the confirmation message, press **(Y)**.
- 9 At the start menu, press **(Enter)**.
- 10 The approximate time required for erasing data will be displayed.
Press **(Space)**.
- 11 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.)
- 12 After the operation is complete:
Under normal conditions, the message [Hard disk data has been deleted.] will be displayed. Press any key. The computer will be shut down.
If a problem occurred during the operation, an error message will be displayed.
<Only when using the CD drive Panasonic KXL-RW10A>
Remove the FIRTAID FD and the floppy disk drive.
- 13 Remove the recovery CD and the CD drive.

Select a number

1. Start restoring the operating system.
2. Erase the whole data on HDD for security.
3. End

Names and Functions of Parts



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.

Specifications

● Main Specifications

Model No.		CF-T1R64ZZKM	
CPU		Mobile Intel® Pentium® III Processor 866 MHz - M supports Intel® SpeedStep™ technology L1 Cache Memory: 32 KB L2 (Second) Cache Memory: 512 KB	
Memory (Expandable to)		256 MB (512 MB Max.)	
Video Memory		UMA (48 MB Max.)*1	
LCD	Type	12.1 type (TFT)	
	Displayed Colors*2	65536/16M colors (800 × 600 dots/1024 × 768 dots)	
External Display		65536/16M colors (800 × 600 dots/1024 × 768 dots/1280 × 1024 dots)*3	
Hard Disk Drive		Approx. 40 GB*4	
Keyboard		85 keys	
Slots	PC Card Slot	One Type I or Type II	
	Allowable current	3.3 V: 400 mA, 5 V: 400 mA	
	RAM Module Slot*5	144-pin, 3.3 V, Micro DIMM, SDRAM, PC133 Compliant*6	
	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, Impedance 32 Ω, Output Power 4 mW × 2	
	USB Ports	4-pin × 2, USB 2.0	
	Modem	RJ-11 jack, Data: 56 kbps (V.90 & K56flex) FAX:14.4 kbps	
	LAN	RJ-45 jack, IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX	
Pointing Device		Touch Pad	
Sound		WAVE and MIDI playback, Monaural Speaker (built in)	
Battery Pack	Li-ion 7.4 V, 4.4 Ah		
	Operating Time*7	Approx. 5 hours	
	Charging Time*7	Approx. 3 hours	
	Clock Battery	Coin type lithium battery 3.0 V	
AC Adaptor*8	Input	100 V - 240 V AC, 50 Hz/60 Hz	
	Output	16 V DC, 2.5 A	
Power Consumption*9		Approx. 35 W*10 / 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 × 26.1 mm(at the front)/39.1 mm(at the rear) × 210 mm (excluding protrusion) {10.6 " × 1.0 " / 1.5 " × 8.3 "}	
Weight		Approx. 1090 g {2.4 lb}	
Operating System		Microsoft® Windows® XP Professional with Service Pack 1	
Utility Programs		Setup Utility, DMI Viewer, Adobe® Acrobat® Reader, SD Utility, SD Movie-Stage, Touch Pad Utility, Hard Disk Data Erase Utility*11	

*1 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.

*2 A 16M color display is achieved by using the dithering function.

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

*4 1GB = 10⁹ bytes

*5 Options: CF-BAP0128U (128MB), CF-BAP0256U (256MB)

*6 Only a RAM card designed for PC133 can be added.

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

*8 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.

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

*10 Rated power consumption.

*11 The Product Recovery CD-ROM is required.



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For U.S.A.

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* * *

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Correspondence requesting product information should be sent to:
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For Canada

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