



Panasonic®

Personal Computer

OPERATING INSTRUCTIONS

CF-71 Series

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TOUGHBOOK

95

[Additional Manual]

Reference Manual

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

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Getting Started

Operation

Troubleshooting

Appendix

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

Customer's Record


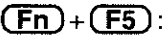


Model No.* _____	Dealer's Name _____
Serial No. _____	_____
or	
Code No. _____	Dealer's Address _____
Product Key No. _____	_____
Date of Purchase _____	_____

*For the Model No., insert the 12 digit number (for example, CF-71GYAGBAM) located on the bottom of the computer.

Introduction

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

Illustrations in this manual

- NOTE:** **NOTE** provides a useful fact or helpful information.
- CAUTION:** **CAUTION** indicates a condition that may result in minor or moderate injury.
- WARNING:** **WARNING** indicates a hazard that may result in moderate or serious injury.
- [Start] - [Shut Down]: This illustration means to click [Start], then to click [Shut Down].
(For some applications, you may need to double-click.)
- : This illustration means to press the [Enter] key.
- : This illustration means to press and hold the [Fn] key, then press the [F5] key.
- : 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.

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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.

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)

Lithium Battery

Lithium Battery!

This computer contains a lithium battery to enable the date, time, and other data to be stored in it.

The battery should only be exchanged by service personnel. Warning! Risk of explosion from incorrect installation or misapplication!

Avertissement concernant la pile au lithium (pile de sauvegarde)

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

This computer has been designed so as to minimize shock to the LCD and hard disk drive, the leakage of liquid (e.g., water) from the keyboard, etc., but no warranty is provided against such trouble. Therefore, as a precision instrument, please be extremely careful in the handling.

● 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 differences.

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.

Avoid low-temperature burns

Avoid more than casual contact with any heat producing area of the notebook computer, power adapter, 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.

Avoid Stacking

Do not place heavy objects on top of the computer.

Keep Small Objects Away

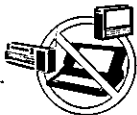
Do not insert paper clips or other small objects into the computer.

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 when it is completely opened, especially when plugs and/or cables are connected to the rear of the computer.



Precautions

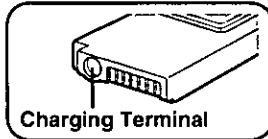
● Peripherals

Incorrectly using peripheral devices may lead to a decrease in performance, an increase in temperature and/or damage your computer. For more information on peripheral devices, please refer to the Reference Manual.

● Battery Pack

CAUTION

The charging terminal of the battery pack is used with the battery charger, which is sold separately.



Never connect anything to the charging terminal other than the exclusive adapter that is supplied with the battery charger. Doing so could damage the device connected to the battery pack, the cable, and the battery pack itself. It could also result in overheating or bursting.

- Care should be exercised with regard to the following in order to avoid the possibility of liquid leakage, overheating, or bursting.



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 an automobile 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 or charger. 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.





Discontinue Use

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 or charger and discontinue use.

- 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 adapter 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 45 °C {32°F to 113 °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 {48 °F} or less.)
- If the temperature is low, the operating time is shortened. Only use the computer within the allowable temperature range.
- Although the battery has remaining capacity, the battery indicator may light up red or emit a beep. This indicates a significant rise in the temperature (60 °C {140 °F} or more) of the battery pack  Reference Manual "Battery Power". This is typically caused by the fact that the battery pack has been delivering a high level of power because the computer has been used with the display at the brightest setting and with the power-saving function off. To protect the battery pack from increases in temperature, the brightness of the display automatically decreases, allowing the temperature of the battery to drop. In this condition, if the computer is left as is, it will automatically go off after about three minutes have elapsed. Within that period, therefore, be sure to connect the AC adapter or shut the computer OFF after saving any open data (if necessary).

CAUTION!

THIS PRODUCT UTILIZES A LASER.

USE OF CONTROLS OR 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.

WARNUNG!

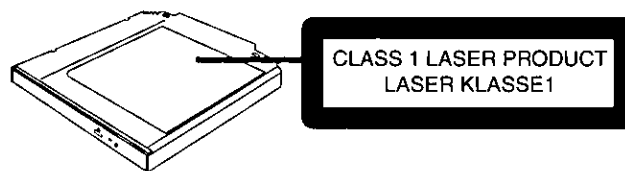
DIESES PROUKT ERZEUGT LASERSTRAHLUNG.

DURCHFÜHRUNG ANDERER VORGÄNGE ALS DER HIER ANGEgebenEN KANN ZU GEFÄHRLICHER STRAHLUNG FÜHREN.

REPARATUREN DÜRFEN NUR VON QUALIFIZIERTEM FACHPERSONAL DURCHGEFÜHRT WERDEN.

VARNING

Om apparaten används på annat sätt än i denna bruksanvisning specificerats, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.



Read Me First

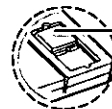
Saving Data on the Hard Disk

- **Do not expose your computer to shock.**
Please 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 HDD indicator (HDD) is on.**
Properly shut Windows* down to avoid problems ([Start] - [Shut Down]).
- **Save all valuable data to floppy disks.**
Backing up data to floppy 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")

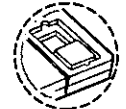
* This computer uses Microsoft® Windows® 95 Operating System.

Saving Data on Floppy Disks

- **Do not power off your computer or press the floppy disk drive eject button while the MP indicator (MP) is on.**
Doing so may damage the data on the floppy disk and render the disk useless.
- **Use care when handling floppy disks.**
To protect the data on your floppy disks or to prevent a floppy disk from becoming stuck in your computer, avoid the following:
 - Sliding the shutter on the floppy disk manually.
 - Exposing the disk to a magnetic field.
 - Storing the disk in locations prone to high temperatures, low pitched noise, dampness, or dust.
 - Applying more than one label on the disk.
- **Confirm the contents of a floppy disk before formatting it.**
Confirm that no important data is on the disk, because all data on the disk will be erased.
- **Use the write-protect tab.**
This is a must for preserving important data. This prevents your data from being erased or overwritten.



Write Enable



Write Disable

Computer Viruses

- **Users are advised to purchase the latest versions of virus protection software and use them regularly.**
We recommend you run the software:
 - When booting your computer.
 - After receiving data.We recommend that you check data received on floppy disks or from external sources, such as data downloaded from the Internet, e-mail, etc. (For compressed files, uncompress them before running a check).

First-time Operation


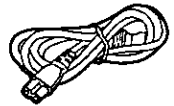

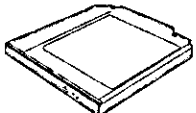



Read the steps below to help you learn what parts are included, and to gain an understanding of some basic computer-related operations.


1 Confirm the inclusion of all parts

Make sure the parts shown in the figure have been supplied. If any of these items is missing or is not working properly, contact Panasonic Technical Support.



CAUTION

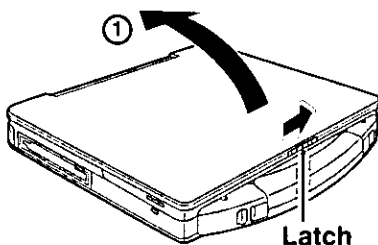
Have 2HD floppy disks prepared to create disks that will allow you to reinstall the operating system should a problem occur. Be sure that these disks are not write-protected. (It is not necessary for these disks to be preformatted.)

AC Adapter 1  Model No: CF-AA1639	AC Cord 1 
Battery Pack 1  Model No: CF-VZSU09	CD-ROM Pack 1  Model No: CF-VCD711
Operating Instructions 1 	Product Recovery CD-ROM.....1 
Windows Book..... 1 	

Using a CD-ROM pack  Reference Manual "Using a Multimedia Pocket Device"

CAUTION

The Product Key Number is necessary during the Setup procedure for Windows ( page 9), so be sure to write down the number, which is written on the "Certificate of Authenticity" (in the Windows book that comes with this computer) or on the bottom of the computer, in the column "Customer's Record" ( page 2).

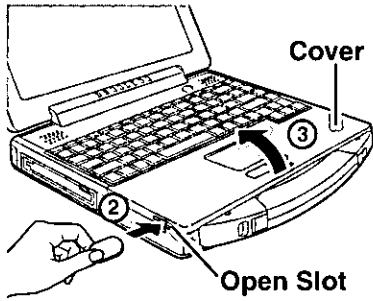


2 Connect the battery pack

- Slide the latch located at the front and lift open the display.

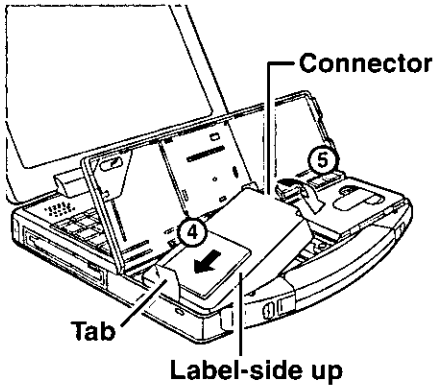
First-time Operation

Getting Started



② Insert a thin, flat object, like a ruler into the open slot on the left side of the computer.

③ Open the cover.

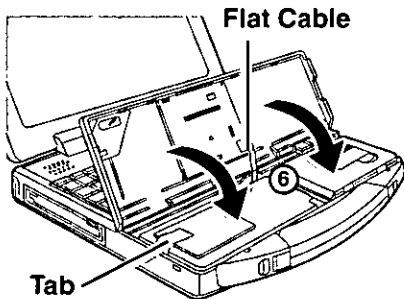


④ Pull the tab outside the frame of the computer, and insert the non-connector-side of the battery pack into the computer with the label-side up.

⑤ Insert the connector-side of the battery pack into the computer to secure the connector.

CAUTION

- Be sure the battery pack is properly connected to the connector.
- If the tab is set under the battery pack, the battery pack will be difficult to remove later.
- Do not touch the battery connector on the computer and flat cable. The computer may not operate properly.

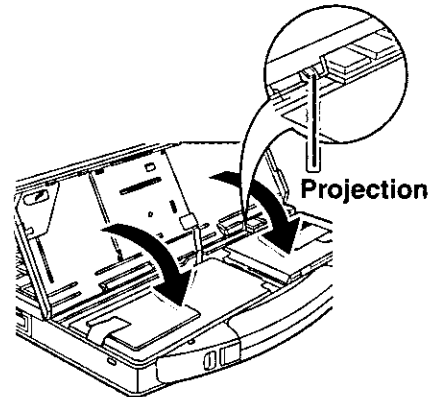


⑥ Close the cover until it clicks into place; be sure the tab does not get caught when closing the cover.

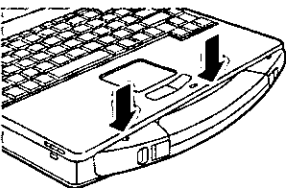
CAUTION

When closing the cover;

- Be careful not to get your fingers caught in the cover.
- There are instances the right side of the cover will float. In such cases, attempt to close the cover again by pushing the projection.



Press down on these areas firmly.



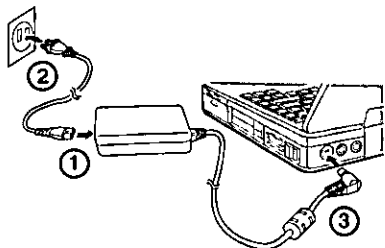
3 Connect your computer to a power outlet

CAUTION

Be sure the AC adapter is connected until completing Step 8 on page 10.

Handling the AC adapter

- Do not twist or pull the AC power cord forcefully. Doing so may damage the connections.
- Use only the specified AC adapter with your computer. Using an AC adapter 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/surges may arise during periods of thunder and lightning. Since this could adversely affect your computer, an uninterruptible power source (UPS) is highly recommended unless the battery pack is installed.

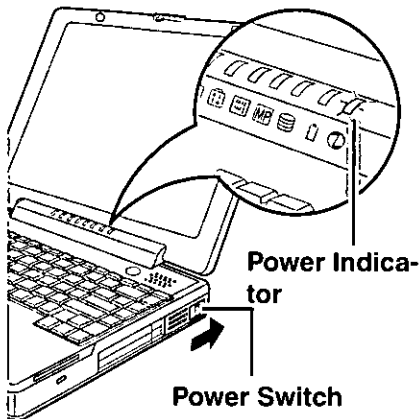


4 Read the LIMITED USE LICENSE AGREEMENT (☞ page 25)

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

5 Turn your computer on

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



CAUTION

- After confirming that the power indicator has turned on, do not touch the power switch until Windows setup has started.
- Once the computer is powered off, you must wait at least ten seconds before powering it on again.

NOTE

The power saving function is factory set, so if there is no input from a key, the touch pad, or the external mouse for two minutes, the power to the LCD is cut (ECO mode).

The LCD will resume operation when the touch pad or the external mouse is used or a key is pressed.

The computer may enter the ECO mode while Windows is setting up or even when an application software is being installed. In this case, because it is conceivable that a selection dialog box will be shown, for resuming from the ECO mode, do not press **Enter** which may trigger a selection, but instead, press a key unrelated to the direct triggering of a selection, like **Shift**.

6 Setup Windows

- ① Select settings for your region, then press [Next].

NOTE

Moving the cursor (⤴) or clicking buttons can be performed with the touch pad. (☞ page 14)

- ② Select your keyboard layout, then press [Next].
(for U.S.A.: United States 101)
- ③ Enter your name and your company's name, then press [Next].
(It is possible to omit the company name item.)
The License Agreement will be displayed.
- ④ After reading the agreement, select [I accept the agreement] or [I don't accept the agreement], then press [Next].

NOTE

If [I accept the agreement] is selected, the [Certificate of Authenticity] will appear. If [I don't accept the agreement] is selected, the Windows setup will be aborted.

- ⑤ Input the Product Key Number written down in the column "Customer's Record" (☞ page 2,7) then press [Next].
- ⑥ Press [Finish].

First-time Operation

- ⑦ Input the correct date, time and time zone and press [Close]. You can also complete these settings at a later time.
- ⑧ If you wish to complete the printer settings, press [Next]. If not, press [Cancel].

NOTE

Follow the on-screen instructions. You can complete these settings at a later time.

7 Create floppy disks

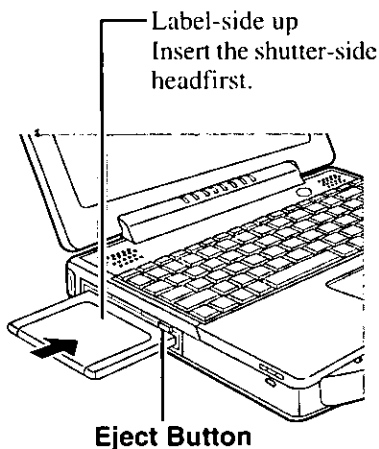
Prepare 2HD floppy disks and make sure they are not in the write-protected state, then select [Start] - [Programs] - [Panasonic] - [Create FIRTAID FD] (for CF-71GYAGBAM model) / [Create BACKUP DISK] (for CF-71KYCKCAM model) and follow the on-screen instructions. Place a label identifying the contents on each disk.

- Name of created backup disk
FIRTAID 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 close to the condition at the time of purchase should any problems occur.
When creating floppy disks, do not run any other application program.
- When creating floppy disks and the message [Insufficient files to copy] is displayed, click [OK] and then contact Panasonic Technical Support.
- While the MP indicator (MP) is on, do not remove the floppy disk, power down your computer or use the suspend or hibernation function (☞ Reference Manual "Suspend/Hibernation Functions").



<For CF-71GYAGBAM model only>

8 Install the Acrobat® Reader 3.01

NOTE

Acrobat® Reader is necessary to view the Reference Manual, which explains detailed operational procedures concerning your computer.

- ① In [Start] - [Run], input [c:\util\avapp\reader\ar32e301.exe], then press [OK].
When the [This will install Adobe Acrobat Reader 3.01. Do you wish to continue?] appears, press [Yes].
- ② Press [Next] and set up the Acrobat® Reader 3.01.
- ③ After reading the "Software License Agreement", select [Yes] if you agree to the terms.
- ④ Press [Next].
- ⑤ Press [Finish].
Read the [Readme] file as necessary. To close the file, click in the top right corner of the window.
- ⑥ Press [OK].


This concludes the first-time use operation guidelines.

NOTE

When using the files in the following folders available on the retail version of the Windows 95 CD-ROM, it is necessary to run a separate file decompression program.

\admin
\datalink
\drivers
\help
\other

To uncompress the files, it is necessary to have about 150 MB of free disk space available on the hard disk.

To be able to use the CD-ROM drive in the MS-DOS mode, perform the operation below after modifying config.sys and autoexec.bat ( Reference Manual "Using a Multimedia Pocket Device").

File decompression method:

- ① Turn your computer on.
- ② When [Starting Windows 95] is displayed, press **F8**.
- ③ Select [Command prompt only].
- ④ Insert the Product Recovery CD-ROM.
- ⑤ At the prompt, input the following:

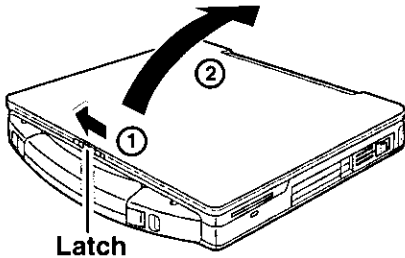
L:\en\addfile **Enter**

Follow the on-screen instructions.

After this program is executed, the contents of the above folders will be decompressed to the c:\util\win95add folder.

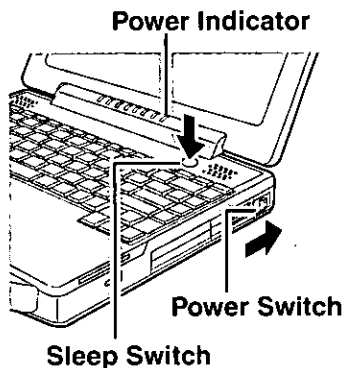
Starting Up/Shutting Down

Starting Up



1 Open the display

Slide the latch as shown and lift open the display.




2 Turn your computer on

The following two methods are available.

- Slide the power switch toward the rear of the computer and hold it for approximately one second until the power indicator turns on before releasing it.
- Press the sleep switch* and hold it until the power indicator turns on before releasing it.

*The power cannot be turned on with the sleep switch when the power goes off by holding down the sleep switch for more than four seconds or when either the AC adapter or the battery pack is reconnected or both the AC adapter and battery pack are reconnected after both of them have been disconnected.

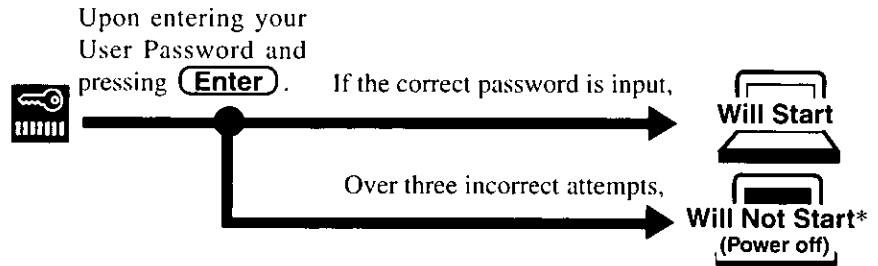
CAUTION

- The computer will not power on when the display is closed (except when connecting an external display and when [Display] has been set to [External Monitor] in the Setup Utility ( Reference Manual "Setup Utility").
- After confirming that the power indicator has turned on, avoid the following until Windows has completed loading.
 - Touching the power switch or the sleep switch.
 - Performing any keyboard or touch pad (or external mouse) operations.
 - Closing the display.If the display is closed while Windows is starting up, it is possible that color, etc., will not be displayed properly. Run the [MS-DOS Prompt] ([Start] - [Programs] - [MS-DOS Prompt]), and use full screen display mode by pressing **Alt** + **Enter**. After returning from the full screen mode (**Alt** + **Enter** again), the display will be shown correctly.
- 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 Panasonic Technical Support.
- If the computer has not been used for a long period of time, it may produce an unusual sound at start up. The sound may continue for a short period of time, but if the computer starts up in a normal manner, then the problem is not serious. If, however, the computer fails to start up, contact Panasonic Technical Support.

● If security indicator (🔑) is displayed,

you must first enter your User Password. (📖 Reference Manual "Security Measures")



* If after three attempts the correct password is not input, or if no password is entered for about a minute, the computer returns to the condition just before the attempt was made to start up the computer.

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

the suspend or hibernation function has been set. (📖 Reference Manual "Suspend/Hibernation Functions")

3 Select your application

You are able to start working on your computer.

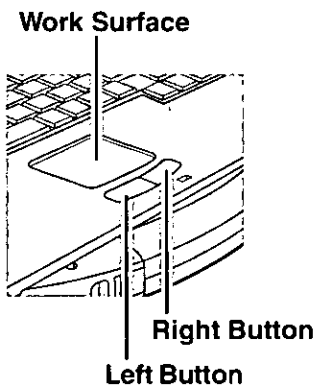
NOTE


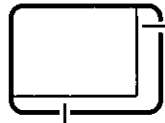
- The power saving function is factory set, so if there is no input from a key, the touch pad, or the external mouse for two minutes, the power to the LCD is cut (ECO mode).
The LCD will resume operation when the touch pad is used or a key is pressed.
- [System Devices] in [Start] - [Settings] - [Control Panel] - [System] - [Device Manager] may contain a device or devices bearing an exclamation mark or question mark. This does not indicate a malfunction. Such a mark (exclamation or question mark) will not be displayed if the operating environment of the device showing the mark is corrected, by for instance installing the driver of the device.


Starting Up/Shutting Down

Using the Touch Pad

Use the touch pad to move the cursor on the display and perform normal computer operations. For instructions on how to handle the touch pad, refer to page 15. The touch pad has the following two modes of operation.




Microsoft® IntelliMouse™ Wheel Mode (Setting at the time of purchase)	Original Mode
<p>Wheel mode operations (almost identical to the case of using the Microsoft® IntelliMouse™ for scroll, zoom, etc., operations) are possible for Microsoft® wheel function-compatible applications.</p> <p>Microsoft® IntelliMouse™ is a mouse-type device that, in addition to the two conventional buttons, incorporates a wheel able to rotate forwards/backwards.</p>	<p>Only scroll operation is possible for applications not compatible with the Microsoft® wheel function.</p> <p>Even for applications compatible with the Microsoft® wheel function, there are cases where only vertical scrolling or only horizontal scrolling is possible in this mode.</p>
<p>Scrolling Area</p>  <p>Scrolling up/down</p> <p>For the Pan and Auto Scroll functions, the entire work surface of the touch pad can be used for scrolling.</p>	<p>Scrolling Area</p>  <p>Scrolling up/down Possible when a check mark ✓ is added for [Vertical].</p> <p>Scrolling side-to-side Possible when a check mark ✓ is added for [Horizontal].</p>

 : Typical mouse operations use this area. When no check mark is added for [IntelliMouse Wheel mode], [Horizontal] and [Vertical] of [Scroll Configuration], the entire surface can be used for typical mouse operations.

NOTE

When you are not sure whether an application is compatible with the Microsoft® wheel function or not, try using both modes. Furthermore, depending on the application, there are cases where scrolling may not be possible with either mode.

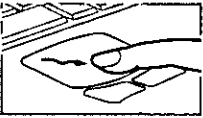
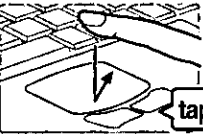
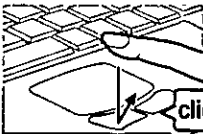

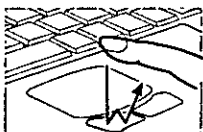
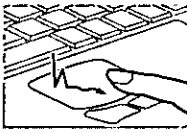

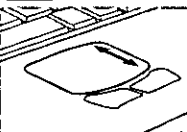

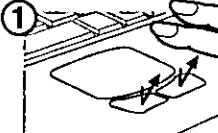

● Changing the mode of the touch pad

- 1 Select  from the taskbar or select [Motion] in [Start] - [Settings] - [Control Panel] - [Mouse].
- 2 ● To set the Microsoft® IntelliMouse™ Wheel mode
Add the check mark ✓ for [IntelliMouse Wheel mode] of [Scroll Configuration].
● To set the original mode
Delete the check mark for [IntelliMouse Wheel mode] of [Scroll Configuration] and add the check mark ✓ for [Horizontal] and/or [Vertical].
- 3 Press [OK].

Basic Operation

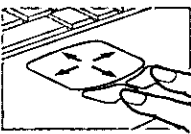
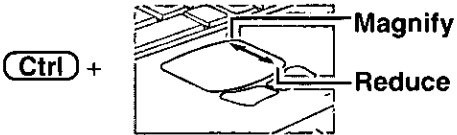
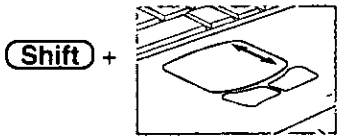
Wheel Indicates an operation applicable to the Microsoft® IntelliMouse™ Wheel mode.

Original Indicates an operation applicable to the original mode.

Function	Touch Pad Operation
Moving the Cursor Wheel Original	 <p>Move the tip of your finger lightly over the surface.</p>
Tapping/Clicking Wheel Original	 <p>tapping</p> <p>or</p>  <p>clicking</p>
Double-Tapping/Double-Clicking Wheel Original	 <p>double-tapping</p> <p>or</p>  <p>double-clicking</p>
Dragging Wheel Original	 <p>or</p>  <p>Two quick taps, but on the second tap leaving your finger down (applying pressure) and moving it on the work surface.</p> <p>While holding down the button, moving your finger on the work surface.</p> <ul style="list-style-type: none"> ● When a check mark ✓ is added for [use Drag Lock] * <p>After the drag operation (above : left side), it is necessary to determine the destination (i.e., location of drop) by one tap. Under the condition no destination is selected, do not use the suspend or hibernation function. Nothing is shown on the display, even after resuming from the suspend or hibernation mode.</p> <p>In this case, the display will return after a tap or click is made.</p> <p>* In [Start] - [Settings] - [Control Panel] - [Mouse] - [Tap and Buttons]</p>
Scroll* Wheel Original	 <p>Wheel</p>  <p>Original</p> <p>Scroll a document (rotate the wheel)</p>
Auto Scroll* Wheel	 <p>①</p>  <p>②</p> <p>Automatically scroll a document (move the mouse after clicking the wheel)</p> <p>Operate after pressing the two buttons simultaneously.</p> <ul style="list-style-type: none"> ● When releasing the auto scroll function: <p>One tap on the work surface.</p>

The illustrations shown may differ from the actual physical appearances.

Starting Up/Shutting Down

Function	Touch Pad Operation
Pan* (Wheel) Scroll in various directions of a document (move the mouse slightly while holding down the wheel)	 Operate while holding down the two buttons.
Zoom* (Wheel) Magnify/reduce the display of a document. (rotate the wheel while holding down Ctrl)	 Ctrl +
Data Zoom* (Wheel) Display or hide a document, or perform operations to return to or proceed with Internet Explorer. (rotate the wheel while holding down Shift)	 Shift +

Within the parentheses () are operations to follow when using an external Microsoft® IntelliMouse™.

* Indicates that the movements will differ depending on the application.

CAUTION

- Do not enter the suspend or hibernation mode when an external mouse is connected to the serial port.
- When an external mouse or trackball with additional functions (e.g., wheel function) is connected, a part or all of the additional functions may not function. To use these additional functions, install the driver or application software of the external device by following the procedure below. However, once the driver or application software is installed, it is possible that part of the functions of the touch pad (e.g., auto scroll) will no longer operate even when the touch pad is enabled again (see the procedure for “When you want to re-enable the touch pad.”).
 - 1 Select [Mouse] in [Start] - [Settings] - [Control Panel].
 - 2 Select [General] in [Mouse Properties], and then select [Change].
 - 3 Select [(Standard mouse types)] for [Manufacturers:], select [Standard PS/2 Port Mouse] for [Models:], then select [OK].
 - 4 Select [Close]. At the message asking whether to restart the computer, select [No].
 - 5 Power off your computer (☞ page 17) and connect the external mouse or trackball device to the computer.
 - 6 Turn the power on and run the Setup Utility (☞ Reference Manual "Setup Utility"). In [Main] menu, set [Touch Pad] to [Disable] and close the Setup Utility.
 - 7 Following the operating instructions for the connected external mouse, install the necessary driver.

When you want to re-enable the touch pad;

- 1 Perform steps 1 to 4 of the procedure shown above.
- 2 Power off your computer (☞ page 17) and remove the external mouse or trackball device.
- 3 Turn the power on and run the Setup Utility (☞ Reference Manual "Setup Utility"). In [Main] menu, set [Touch Pad] to [Enable] and close the Setup Utility.
- 4 Perform steps 1 and 2 of the procedure shown above, select [Matsushita] for [Manufacturers:] and [Touch Pad] for [Models:], then select [OK].
- 5 Select [Close]. At the message asking whether to restart the computer, select [Yes].

NOTE

The double-tapping speed of the touch pad cannot be changed, even if the setting for [Double-click Speed] in [Start] - [Settings] - [Control Panel] - [Mouse] - [Tap and Buttons] is changed.


Handling the Touch Pad

- Do not place any object on the work surface or press down forcefully with sharp-pointed objects (i.e. nails), hard objects or objects leave marks (i.e. pencils and ball point pen).
- Do not allow things that could dirty the touch pad, such as oil. The cursor may not work properly in such cases.
- When the touch pad becomes dirty:
Wipe to remove dirty areas 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 or thinner, or disinfectant-type alcohol.

Using a CD-ROM Pack

Please refer to "Using a Multimedia Pocket Device" of the Reference Manual on precautions and how to install or remove a CD-ROM Pack.

Shutting Down (power off your computer)

This procedure is shutting down without using the suspend or hibernation function.
( Reference Manual "Suspend/Hibernation Functions")

1 Display the shut down screen

After saving important data and closing each application, select [Shut Down] from the [Start] menu.

NOTE

From the keyboard,

You may choose to press down on , then select the menu with  or .

2 Confirm shut down

Select [Shut down].

Your computer will power off automatically.


(In the OFF state, if you are not recharging your battery pack or if the pack is fully charged, your computer consumes approximately 1.5 W.)

● Restarting your computer (without shutting down)

Select [OK] after selecting [Restart].

NOTE

To quickly resume computer operation after shutting down,

The suspend or hibernation function is available. ( Reference Manual "Suspend/Hibernation Functions")

Starting Up/Shutting Down

About the Reference Manual

The Reference Manual can be accessed on your computer. When a printer is connected, it is also possible to print.

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.

Run the Reference Manual

<For CF-71GYAGBAM model>

1 Turn your computer on

2 Select [Reference Manual] in [Start] - [Programs] - [Panasonic]

<For CF-71KYCKCAM model>

1 Turn your computer on

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

When the Reference Manual is run for the first time, the License Agreement will be displayed. After reading the agreement, select [Accept] to access the Reference Manual.

CAUTION

When you read the Reference Manual, it is necessary to install the Acrobat® Reader 3.01. (☞ page 10)

NOTE

When the Reference Manual is run for the first time, an error message may appear if the Reference Manual is run using a method that differs from the above explanation. If an error message appears, press [OK].

Zoom-in
Go forward or back a page, or to the beginning or end of a document.

Hand tool
To move around the current page.

Cancel or correct an operation

Change the display size

Perform a "find" operation

Exit

Table of Content (Items)
By clicking an item, the corresponding page will be displayed at 100%.

Movable splitter bar
This bar can be dragged, for example, to the right to enlarge the display of the Table of Contents.

Page indicator
A desired page can be displayed by inputting the page number after clicking here.

Change the display size
You can choose to magnify/demagnify the display.

Display of the manual

(The display may be changed without notification.)

CAUTION

- Illustrations may be difficult to view depending on the magnification. If this is the case, we recommend that the display be magnified.
- 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.

Usage, Carrying and Maintenance

Usage Environment

● Environment

- Place the computer on a flat stable surface.
- 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.

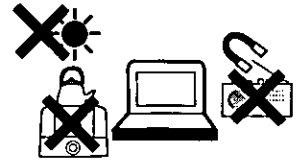
Areas exposed to direct sunlight

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

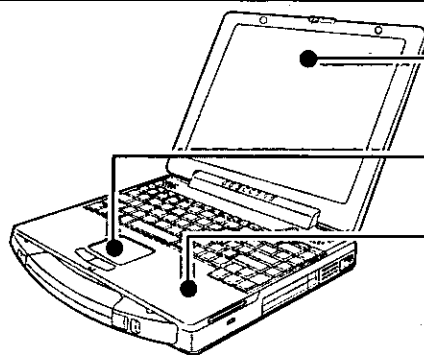
- Do not leave things near the computer that are sensitive to heat. During operation, the computer may become warm.



Transporting

- This computer has been designed so as to minimize shock to the LCD and hard disk drive, the leakage of liquid (e.g., water) from the keyboard, etc., but no warranty is provided against such trouble. Therefore, as a precision instrument, be extremely careful in the handling.
- Do not drop or hit your computer against solid objects.
Do not stand the computer on its side or allow it to tip over. When the computer receives extremely strong shock after falling, the hard disk or floppy disk drive, etc., may become inoperable.
- Do not carry your computer when it is ON.
- Remove all cables before transporting your computer.
- We recommend preparing a fully charged battery (and optional charger, if possible).
When transporting spare batteries inside a package, briefcase, etc., it is recommended that the batteries be stored in a plastic bag.
- Do not place the computer upright. When the computer receives extremely strong shock after falling, the hard disk or floppy disk drive, etc., may become inoperable.
- Do not carry the computer while the display is open, or carry it by gripping the display.
- Do not put anything (e.g., a piece of paper) between the display and keyboard.
- 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.

Maintenance



Display

Use a soft dry cloth like gauze to lightly wipe the display.

Touch Pad

☞ page 17

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 or thinner, or disinfectant-type alcohol.
- Do not directly use water, liquid detergents or spray-type cleaners. If liquid enters the computer, this may cause the computer to malfunction or become defective.

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 one of except the messages marked below with an asterisk (*), write down the message and contact Panasonic Technical Support. 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 in 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 Shadow RAM Failed at offset : *nnnn*

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

0231 System RAM Failed at offset : *nnnn*

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

0232 Extended RAM Failed at offset : *nnnn*

Extended memory not working or not configured properly at offset *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 Panasonic Technical Support.

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 CMOS

Memory size found by POST differed from 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 Panasonic Technical Support.

02F0: CPU ID:

CPU socket number for Multi-Processor error.

02F4: EISA CMOS not writable

ServerBIOS2 test error: Cannot write to EISA CMOS.

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*.

CD ROM Drive

CD ROM Drive identified.

Entering SETUP ...

Starting Setup Utility.

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.

Fixed Disk *n*

Fixed disk *n* (0-3) identified.

Invalid System Configuration Data

Problem with NVRAM (CMOS) data.

I/O device IRQ conflict

I/O device IRQ conflict error.

PS/2 Mouse Boot Summary Screen:

PS/2 Mouse installed.

***nnnn* kB Extended RAM Passed**

Where *nnnn* is the amount of RAM in kilobytes successfully tested.

***nnnn* Cache SRAM Passed**

Where *nnnn* is the amount of system cache in kilobytes successfully tested.

***nnnn* kB Shadow RAM Passed**

Where *nnnn* is the amount of shadow RAM in kilobytes successfully tested.

***nnnn* kB System RAM Passed**

Where *nnnn* is the amount of system RAM in kilobytes successfully tested.

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, <F3> for previous

Displayed after any recoverable error message. Press <F1> to start the boot process or <F2> to enter a Setup and change the settings. Press <F3> to display the previous screen (usually an initialization error of an Option ROM, i.e., an add-on card). Write down and follow the information shown on the screen.

Press <F2> to enter Setup

Optional message displayed during POST. Can be turned off in Setup.

PS/2 Mouse:

PS/2 mouse identified.

System BIOS shadowed

System BIOS copied to shadow RAM.

UMB upper limit segment address : *nnnn*

Displays the address *nnnn* of the upper limit of Upper Memory Blocks, indicating released segments of the BIOS which can be reclaimed by a virtual memory manager.



Video BIOS shadowed

Video BIOS successfully copied to shadow RAM.

Dealing With Problems (Summary)

When a problem occurs, please refer to this page. The Reference Manual also contains detailed information. If you still cannot troubleshoot the problem, please contact Panasonic Technical Support.

● Starting Up

The power indicator or battery indicator is not lit	<ul style="list-style-type: none"> ● Check the cable connection for the AC adapter. ● Check to see if a fully charged battery is properly installed. ● Remove the battery pack and disconnect the AC adapter, then connect them again.
 or  is displayed	Please input your password. If you have forgotten it, contact Panasonic Technical Support.
[POST Startup Error(s)] is displayed	☞ page 20
Windows startup, or an operation is extremely slow	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.)
The date and time are incorrect	<ul style="list-style-type: none"> ● You can set the date and time through [Date/Time] in [Start] - [Settings] - [Control Panel]. ● When the computer is connected to a Local Area Network (LAN), please confirm the date and time of the server. ● If you continue to experience problems, the internal battery maintaining the clock may need to be replaced. Please contact Panasonic Technical Support.
When the previous item is not the cause	<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). ● In the MS-DOS mode, run SCANDISK to check the hard disk. ● At start-up, press (F8) to operate the computer in the Safe mode. ● Try removing all peripheral devices.


● Shutting down

Unable to shut down Windows 95	<ul style="list-style-type: none"> ● If a USB device is connected, try removing it. ● Do not shut down Windows during music playback.
--------------------------------	---

● Battery Indicator

The red indicator lights. Repeated beeping sound while the computer is in use.	The battery level is low. Save your data and power off your computer. After connecting the AC adapter or replacing the battery pack with a fully charged one, turn your computer on.
The red indicator blinks	<ul style="list-style-type: none"> ● The battery pack or recharging function may be defective. Quickly remove the battery pack and disconnect the AC adapter, then connect them again. ● If the problem persists, contact Panasonic Technical Support.
After the AC adapter is connected, the orange indicator blinks five times	Unable to charge because of an improper temperature range. (☞ page 4)

● Display

<p>No display after powering on</p>	<ul style="list-style-type: none"> ● At the time of purchase, the display setting is preset for an external display. If you connect an external display, the screen is displayed on the external display. ● 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 changing the display by pressing Fn + F3. ● When displaying only through an external display, if the computer is shut down by using the suspend or hibernation function, there will be no display on the LCD unless the external display is connected when operations are resumed. In this case, connect the external display.
<p>The power has not been cut, 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 ECO mode, press any key. ● To save power, your computer may have automatically entered the suspend or hibernation mode. (☞ <small>Reference Manual</small> "Computing On the Road") ● The coffee break password may have been set. In such cases, perform the following steps. <ol style="list-style-type: none"> 1 Press any key. 2 If the display remains dark, enter the Coffee break Password and press Enter. 3 If the display continues to remain dark, press Enter again.
<p>The resolution of the display cannot be changed</p>	<p>Set [None] for [Wallpaper] in [Start] - [Settings] - [Control Panel] - [Display] - [Background], and then press [OK]. Then, once again try changing the resolution. After the change, be sure to restart the computer.</p>
<p>An afterimage appears (i.e., green, red, and blue dots remain on the display) or there are dots not displaying the correct colors</p>	<p>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 99.998% or more of the picture elements are functioning properly, no defect is considered to exist.</p>
<p>The motion of the mouse cursor is not smooth</p>	<p>Select [Start] - [Settings] - [Control Panel] - [Mouse] - [Motion] and add the check mark ✓ for [Show trails].</p>
<p>The cursor does not move in scrolling area of the touch pad</p>	<p>When the Microsoft® IntelliMouse™ Wheel mode or the original mode is set for the touch pad, only scroll operations are possible for the right part or bottom part of the touch pad. In this case, cursor operations are possible by using the work surface excluding the right part or bottom part. When no mode is set, the entire surface of the touch pad can be used for cursor operations. (☞ page 14)</p>
<p>The cursor cannot be controlled</p>	<p>Restart the computer by using the keyboard (e.g., ).</p>
<p>During simultaneous display, the screen of the external display becomes disordered</p>	<p>Try changing the display by pressing Fn + F3.</p>
<p>The external display no longer displays properly</p>	<p>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 ECO mode. In such cases, turn off the power to the external display.</p>

Reinstalling Software

Before Reinstallation

● Preparing

You will need the Product Recovery CD-ROM and the FIRSTAID FD you made earlier.

NOTE

If you have not created the FIRSTAID FD, you can create by selecting [Create FIRSTAID FD] (for **CF-71GYAGBAM model**) / [Create BACKUP DISK] (for **CF-71KYCKCAM model**) in [Start] - [Programs] - [Panasonic]. If you can not create this disk, contact Panasonic Technical Support.

● 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 close to the conditions at time of purchase.
- Before the reinstallation procedure, remove all peripherals (except for the CD-ROM drive).
- Be sure the AC adapter is connected until the reinstallation procedure is completed.

Reinstalling

● Windows 95 (HDD format)

CAUTION

If data on your hard disk is compressed, the data should be uncompressed.

- 1 Set the CD-ROM pack in the multimedia pocket, and turn the computer on.
- 2 When the message [Press <F2> to enter SETUP] is displayed, press **(F2)** and then run the Setup Utility. If the password has been set, enter the supervisor password.
- 3 Press **(F9)**.
At the confirmation message, select [Yes] and press **(Enter)**.
- 4 Select [Security] menu and set [Boot Up Drive] to [CDD/A:/C:].
- 5 Set the Product Recovery CD-ROM in the CD-ROM drive.
- 6 Press **(F10)**.
At the confirmation message, select [Yes] and press **(Enter)**. The computer will reboot, and this screen should appear.

Select the number

1. Restore the whole HDD to factory default
2. Restore the drive C to factory default
3. End

- 7 Make a selection from the menu.

To restore all contents of the hard disk to factory default, including the partition setting(s):

Select [1. Restore the whole HDD to factory default].

To restore the hard disk (C drive) to factory default, excluding the partition setting(s):

Select [2. Restore the drive C to factory default].


NOTE

FAT16 file system is not supported.

- 8 At the confirmation message, press **(Y)**.
The operations of "format" and "restore" for the hard disk start automatically. (The operations take about one hour.)
- 9 After the "restore" procedure completes, remove the Product Recovery CD-ROM, then close the tray.
- 10 Turn the computer off and remove the CD-ROM pack.
- 11 Set the floppy disk drive in the multimedia pocket, set the FIRSTAID FD, turn the computer on.
Follow the on-screen instructions.
- 12 After the reinstallation procedure completes, the following message will appear on the display.

All data on the whole HDD has been restored to the factory default.
After removing floppy disk, restart the computer and set up Windows 95 again.

(The display may be changed without notification.)

Restart the computer by pressing **(Ctrl) + (Alt) + (Del)**, and perform the setup procedure for Windows 95 by following the instructions on the screen.  page 9

NOTE

During the reinstallation procedure, the settings of the Setup Utility are changed as follows.

When necessary, please change these settings again.

Power Menu Power Management: Disable
Sleep Switch : No Action

When necessary, in the Setup Utility, set [Boot Up Drive] to [A:/C:].

Installing Acrobat® Reader 3.01

<For **CF-71GYAGBAM model only**>

 page 10, Step 8

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Names and Functions of Parts

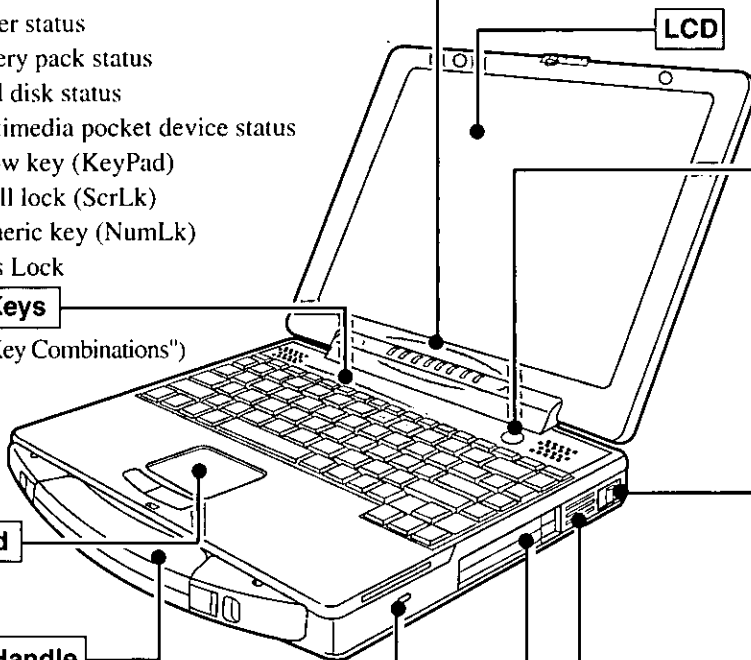
LED Indicators

(☞ Reference Manual "LED Indicators")

-  Power status
-  Battery pack status
-  Hard disk status
-  Multimedia pocket device status
-  Arrow key (KeyPad)
-  Scroll lock (ScrLk)
-  Numeric key (NumLk)
-  Caps Lock

Function Keys

(☞ Reference Manual "Key Combinations")



Sleep Switch

(☞ Reference Manual "Suspend/Hibernation Functions")

CAUTION

Only when the computer stops operating or locks up should the sleep switch be held more than four seconds to power off the computer. Data not previously saved will be lost.

Power Switch POWER ▶

Before using the computer for the first time, carefully read the [LIMITED USE LICENSE AGREEMENT]. If you agree to the conditions, remove the seal.

Touch Pad

☞ page 14

Carrying Handle

For enhanced portability and in-the-field efficiency.

Security Lock LOCK

A cable can be connected to prevent theft of your computer. For more information, please read the manual that comes with the cable.

The computer has two security locks on the right side and on the left side.

- Right side: Only the battery pack can be removed. The cover in front of the keyboard can be opened and closed.
- Left side: You can prevent theft of your computer. (even removal of the battery pack is not possible)

Ventilation Holes

These holes allow heat to exit.


CAUTION

Do not block or place the computer in a location that may prevent proper ventilation.

PC Card Slots

(☞ Reference Manual "Using PC Cards")

Speakers

- To adjust the volume*, select  on the taskbar, then [Volume Control].

* You may also use the function keys to adjust the volume: **Fn** + **F5** or **F6**

- Speakers on/off : **Fn** + **F4**

Battery Pack

(☞ Reference Manual "Battery Power")

Hard Disk Drive

MP Release Button MP RELEASE

(☞ Reference Manual "Using a Multimedia Pocket Device")

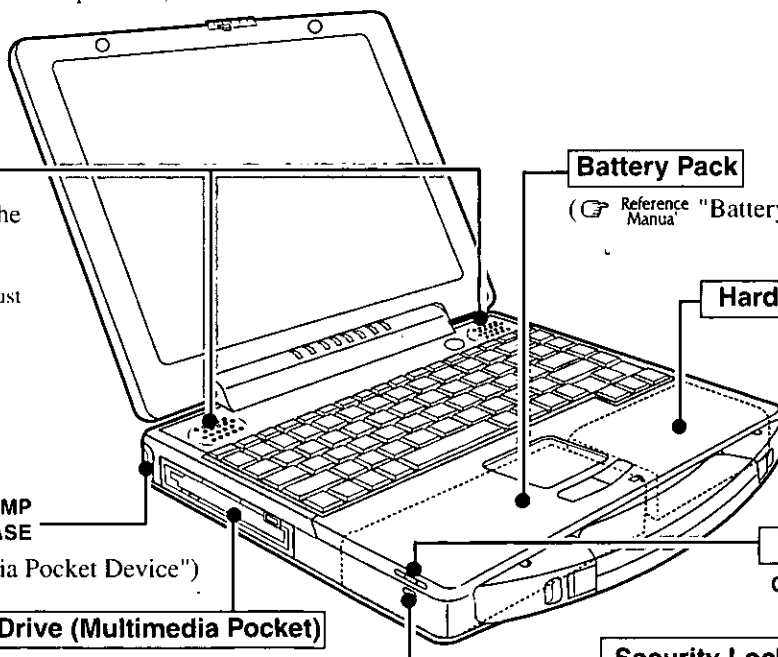
Floppy Disk Drive (Multimedia Pocket)

(☞ Reference Manual "Using a Multimedia Pocket Device")

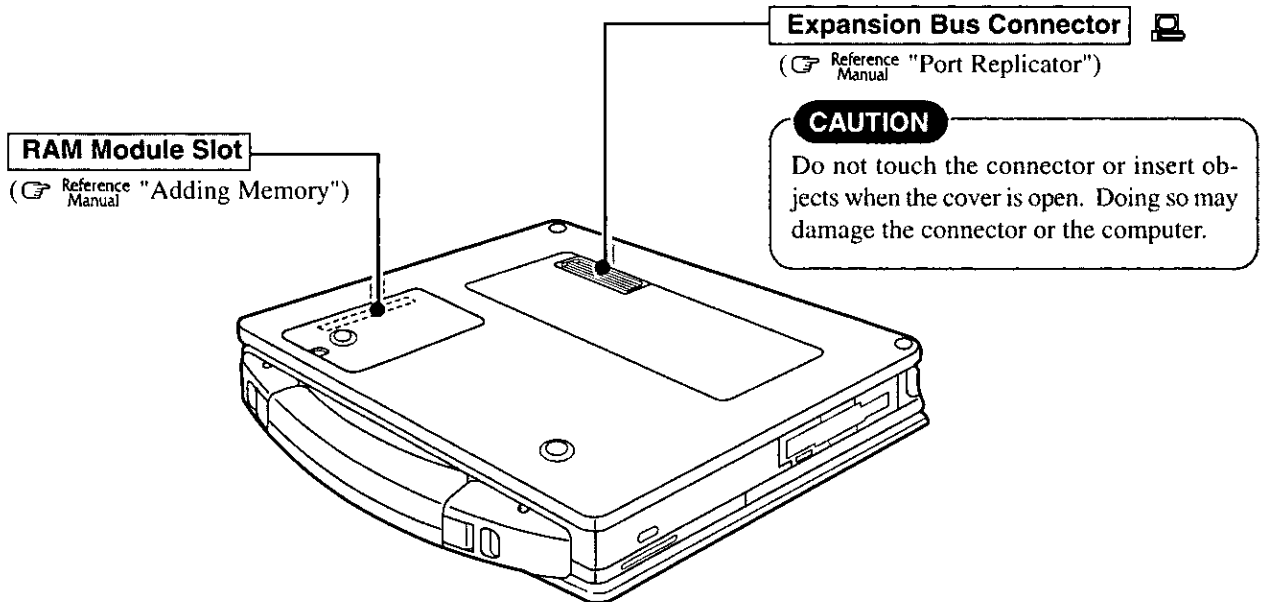
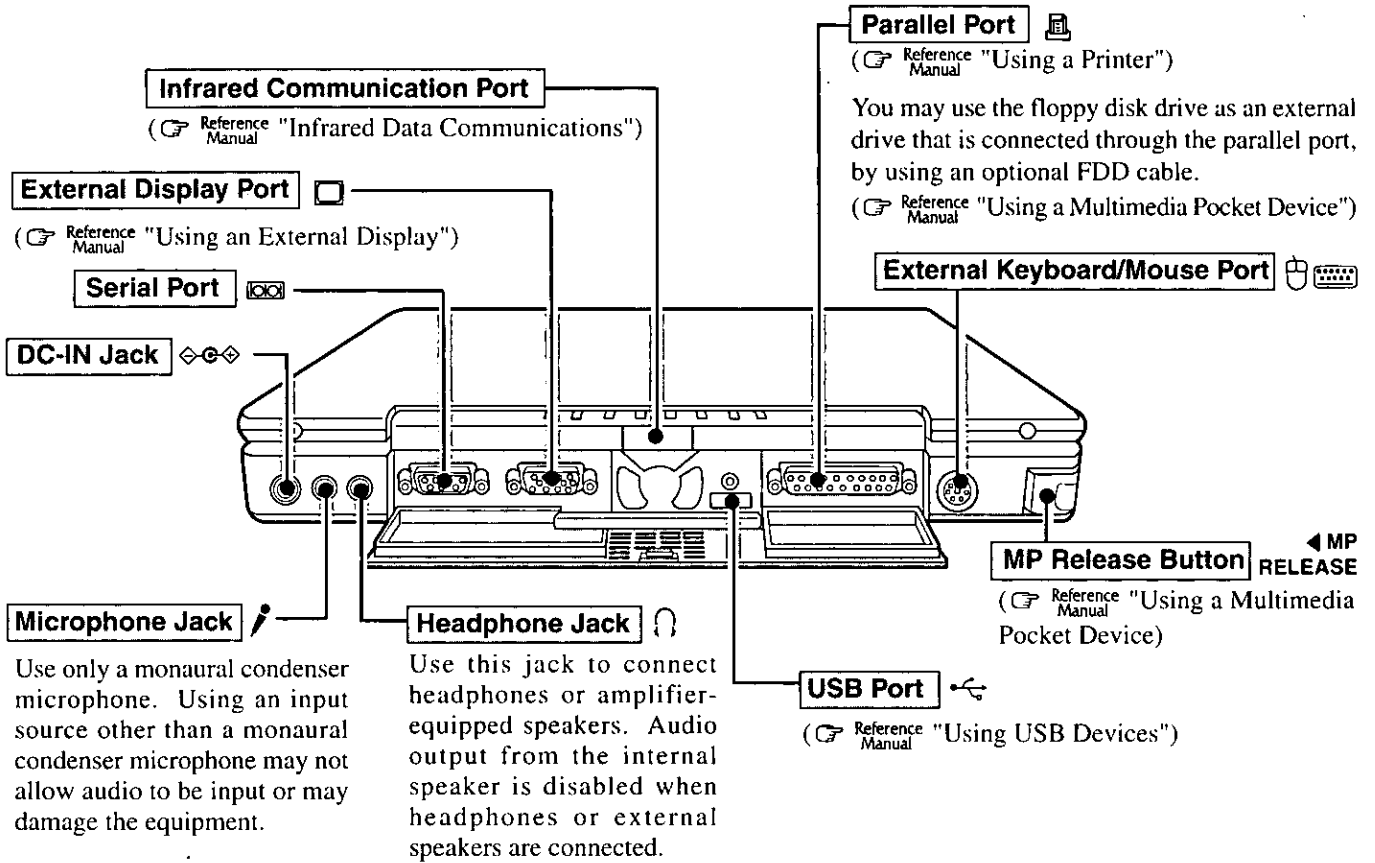
Open Slot OPEN ▶

Security Lock LOCK

(☞ above)



Names and Functions of Parts



Specifications

● Main Specifications

Model No.		CF-71GYAGBAM	CF-71KYCKCAM
CPU		Mobile Pentium®II Processor 366 MHz	Mobile Pentium®III Processor 450 MHz
Main Memory (Expandable to)		64 MB (192 MB Max.)	128 MB (256 MB Max.) PC100 Compliant
Video Memory		2.5 MB	
LCD	Type	13.3" (TFT)	
	Displayed Colors*1	256/65536/262144 colors (640 x 480 dots/800 x 600 dots/1024 x 768 dots)	256/65536/262144/16M colors (640 x 480 dots/800 x 600 dots/1024 x 768 dots)
Hard Disk Drive (including about 200 MB used specifically by the system)		10 GB*2	12 GB*2

*1 800 x 600 16-color resolution is not supported. If this resolution is selected, the message "There is an error in the display settings" will appear when you reboot. Start up again, selecting 256 Color, High Color (16 bit), or True Color (24 bit), following the on-screen instructions. Besides this phenomenon, you might encounter some unexpected behavior. Do not select 16 color mode in any resolution. A 16M color display on the LCD is achieved by using the dithering function. *2 1GB = 10⁹ bytes

● Other Specifications

Keyboard	87 keys				
Floppy Disk Drive	720 KB/1.44 MB (two-mode)				
CD-ROM Pack	Operating voltage range	DC 5 V±5%			
	Data transfer rate*1	150 KB/sec (Standard) 3600 KB/sec 24x Speed (Max.)			
	Access time	150 ms (24x Speed, 1/3 Stroke*2)			
	Interface	Conforms to enhanced IDE (ATAPI) standard			
Slots	PC Card Slots	Two Type I or Type II, or one Type III			
		Allowable current (total for two slots)	3.3 V: 400 mA, 5 V: 400 mA, 12 V: 120 mA		
Interface	RAM Module Slot	144-pin, SO-DIMM, 3.3 V, SDRAM			
	Parallel Port	Dsub 25-pin female			
	External Display Port	Mini Dsub 15-pin female			
	Serial Port	Dsub 9-pin male			
	Microphone Jack*3	Miniature jack, 3.5 DIA Input impedance 600 Ω, Input voltage range 0.01 Vp-p			
	Headphone Jack	Miniature jack, 3.5 DIA Impedance 32 Ω, Output Power 4 mW (Impedance 32 Ω) x 2			
	Infrared Communication Port	IrDA 1.1 compliant, 4 Mbps data transmission speed*4			
	External Keyboard/Mouse Port	Mini DIN 6-pin female			
	Expansion Bus Connector	Dedicated 200-pin female			
USB Port	4-pin				
Pointing Device	Touch Pad				
Speakers	Stereo Speakers (built in)				
Sound	16 bits, 44.1 kHz PCM/FM sound (Sound Blaster PRO Compatible)				
Software	Operating System	Microsoft® Windows® 95 (FAT32 File System)			
	Utility Programs	Setup Utility, DMI Viewer, Panasonic Hand Writing, Panasonic Battery Monitor			
Battery	Battery Pack	Li-ion 10.8 V, 4.5 Ah			
	Operating Time	Approx. 2.0 - 4.5 h*5			
	Charging Time	Power On	Approx. 5.5 h*5	Power Off	Approx. 3.0 h*5
	Clock Battery	Coin type lithium battery 3.0 V	Operating Time	Approx. 7 years	
AC Adapter*6	Input	100 - 240 V AC, 50 / 60 Hz	Output	15.6 V DC, 3.85 A	
Power Consumption	Approx. 50 W*7 (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 X H X D)	297 mm X 44.6 mm X 240 mm {11.7 " X 1.8 " X 9.4 "} (Not including the carrying handle)				
Weight	Approx. 3.0 kg {Approx. 6.7 lb.} (Not including the carrying handle)				

*1 If an unbalanced disc (i.e., 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 CD is rotating.

*2 Stroke: Indicates the amount of movement the lens (pickup) of the CD-ROM pack must make in order to read data.

*3 Use only a monaural condenser microphone.

*4 A communications software is necessary.

*5 Varies depending on the usage conditions.

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

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

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* * *

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DIAL TOLL FREE: 1-800-LAPTOP5

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

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Scope of Coverage	Period of Coverage	Type of Failure Coverage
Whole Product (except Batteries), AC Adapter, CD-ROM (if factory installed), Port Replicator, Extra Memory Modules and all other Options and Accessories	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

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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.

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As an ENERGY STAR® Partner, Panasonic 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.

Panasonic Personal Computer Company,
50 Meadowlands Parkway, Panazip 2F-5,
Secaucus, NJ 07094

Panasonic Canada Inc.
5770 Ambler Drive Mississauga,
Ontario L4W 2T3

