

Panasonic_®

Personal Computer

OPERATING INSTRUCTIONS

Model No. CF-37 Series

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Reference Manual

- Read Me First
- Key Combination
- LED Indicators
- Touch Pad (Advanced)
- Touchscreen
- Panasonic Hand Writing (Touchscreen)
- Display Rotation Tool

Operation

Reference Manual

- Standby/Hibernation Functions
- Security Measures
- Computing on The Road
- Battery Power
- Multimedia Pocket
- CD-ROM/DVD-ROM Drive
- SuperDisk™ Drive
- PC Cards
- RAM Module

- Printer
- External Display
- USB Devices
- Infrared Data Communications
- Modem
- LAN (Model with both an internal modem and an internal LAN port)
- Hard Disk Drive
- · Setup Utility
- Smart Boot

[Additional Manual] Reference Manual

This manual can be accessed on your computer.

Refer to page 14 on how to access the Reference Manual.

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Reference Manual

- Technical Information
- List of Error Codes
- DMI Viewer
- Dealing with Problems (Advanced)

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Model No *1	Dealer's Name	
Serial No		
or		
Code No	Dealer's Address	
Product Key*2		

- *i For the Model No, insert the 12 digit number (for example, CF-37NDEDDEM) located on the bottom of the computer
- *2 For Product Key, record the Product Key shown on the "Certificate of Authenticity" located on the bottom of the computer or on the cover of the Windows book (provided with this 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)
Enter	This illustration means to press the [Enter] key
(Fn) + (F5)	This illustration means to press and hold the [Fn] key, then press the [F5] key
G	Where to go for referred information
Reference Manual	This illustration means to refer to the Reference Manual, which is available on your computer Refer to page 14 on how to access this manual

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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.

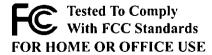
This device complies with Part 15 of the FCC Rules Operation is subject to the following two conditions

- (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.

Modem 3Com Corporation Model No 3CN3AC1556 or AMBIT Microsystems Corporation Model No J07 017 C 00 or T60 071 C 00



1 This equipment complies with Part 68 of the FCC 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.
- If your telephone equipment cause harm to the telephone network, the telephone company will notify you in advice that temporary discontinuance of service may be required. But if advice 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 reduire le risque d'incendie, utiliser uniquement des conducteurs de telecommunications 26 AWG ou de section superieure"

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 touts les dispositifs n'excède pas 5."

IES: Voir sous le fond de l'ordinateur

Important Safety Instructions / Importantes Mesures De Sécurité

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

- 1. Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
- 2. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
- 3. Do not use the telephone to report a gas leak in the vicinity of the leak.
- 4. Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.

Certaines mesures de sécurité doivent être prises pendant l'utilisation de matérial 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 manual. 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 misapplication may possibly occur.

Warnung bezüglich der Lithiumbatterie (Sicherungsbatterie)

Lithiumbatterie!

Dieser Computer enthält eine Lithiumbatterie zur Sicherung von Datum und Uhrzeit der eingebauten Uhr sowie anderer Systemdaten im Speicher bei einer Unterbrechung der Hauptstromversorgung. Diese Sicherungsbatterie darf nur von Kundendienstpersonal ausgewechselt werden.

Warnung! Bei falschem Gebrauch besteht Explosionsgefahr! Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

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

CD-ROM Drive Caution

CAUTION!

THIS PRODUCT UTILIZES A LASER.

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

DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL

WARNUNG!

DIESES PROUKT ERZEUGT LASERSTAHLUNG.

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

REPARATUREN DÜRFEN NUR VON QUALIFIZIERTEM FACHPERSONAL DURCHGEFÜHRT WERDEN.

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.



Les mesures de sécurité relatives au laser ne s'appliquent que lors de l'installation d'une unité avec laser.

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 differences.

Operation: 5 °C to 35 °C {41 °F to 95 °F} -20 °C to 60 °C {-4 °F to 140 °F} Storage:

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



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, power 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.



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.

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.

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 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 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 45 °C {32°F to 113 °F})
 Reference "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 rechargings do not restore its performance, the battery pack should be replaced with a new one.
- When a spare battery pack is to be carried in a pocket or bag, 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.

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 (⊜) is on. Properly shut Windows* down to avoid problems ([Start] [Shut Down]).
- 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 "Security Measures")

Hard Disk Lock

* This computer uses Microsoft® Windows® 98 Second Edition Operating System.

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 and 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 complete protection of data.) (Reference "Security Measures")

Saving Data on Disks

NOTE)

In this manual, the followings are described as disks.

When using disks, an included SuperDisk Drive Pack (CF-VFS372) is needed.

SuperDisk (120 MB)

Floppy disk (720 KB, 1.44 MB)

- Do not power off your computer or press the SuperDisk drive eject button while the MP indicator (MP) is on. Doing so may damage the data on the disk and render the disk useless.
- Use care when handling disks.

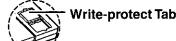
To protect the data on your disks or to prevent a disk from becoming stuck in your computer, avoid the following:

- Sliding the shutter on the 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 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 disks or from external sources, such as data downloaded from the Internet, e-mail, etc. (For compressed files, please uncompress them before running a check).

LCD Panel

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.

System File Checker

Microsoft Corporation has announced that, with a computer in which Internet Explorer 5.01 is installed, if the [System File Checker] in [System Information] is executed, the following may occur.

- The message [System File Checker identified that the following file may be corrupted] may appear for normal files.
- In such cases, there is the possibility that the system will become unstable if the file is repaired with the System File Checker.

Read Me First

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 with electronic equipment

These areas may interfere with your display or cause your computer to produce strange sounds. Areas with extremely high/low temperatures

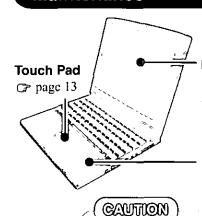
9 Do not leave things near the computer that are sensitive to heat. During operation, the computer may become warm.



- 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.
- On 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.
- **1** 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.
- It is a good idea to make backup copies on disks and carry them with you.
- Do not leave a disk in the drive while transporting your computer.

Maintenance



Display

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.)

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.

- 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 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 Panasonic Technical Support.

missing of is not working property, contact ranasome recimical support				
AC Adaptor	1	AC Cord	1	
CF-AA1639		C.		
Battery Pack1		Super Disk Drive1		
CF-VZSU14		CF-VFS372		
Modem Telephone Cable 1 Stylus		1	Soft Cloth 1	
62	(Reference Manual	Touchscreen*)		
Operating Instructions1	Windows® Book1		Product Recovery CD-ROM1	
(This book)			0	

2 Write down the Product Key

CAUTION

Write down the number shown on the "Certificate of Authenticity" located on the bottom of the computer in the "Customer's Record" section on page 2 of this manual.

<Only for CF-37MBA2CEM/CF-37MBABCEM>

The Product Key is necessary during the reinstallation procedure for Windows (P page 11).

3 Read the LIMITED USE LICENSE AGREEMENT (@page 22)

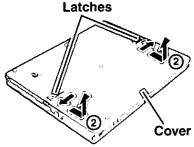
Before removing the seal covering the power switch, read the LIMITED USE LICENSE AGREEMENT.

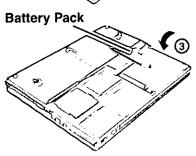
4 Connect the battery pack

- 1 Turn your computer over.
- (2) While sliding and holding the latches in the outward positions, slide the cover to open it.
- 3 Use the blue tab to lower the battery pack into place.

CAUTION

- Be sure the battery pack is properly connected to the connector.
- Do not touch the battery connector on the computer. The computer may not operate properly.

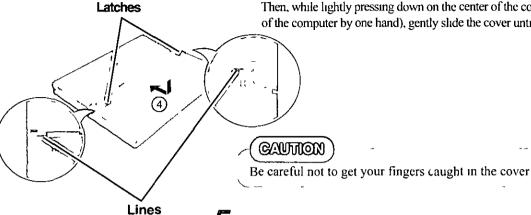




First-time Operation

(4) Position the cover so that the edge of the cover is aligned with the lines of the computer

Then, while lightly pressing down on the center of the cover (with suppressing the back of the computer by one hand), gently slide the cover until it snaps into place

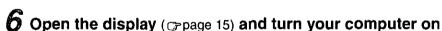


5 Connect your computer to a power outlet

CAUTION)

Be sure the AC adaptor is connected until completing Step 7 on page 11 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 the battery pack is installed



Slide the power switch and hold it for approximately one second until the power indicator ((1)) 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

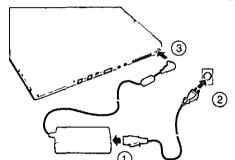
NOTE

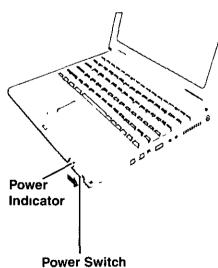
The power saving function is factory set, so if there is no input from a key, the touch pad, the touchscreen or an external mouse (when one is connected) for a certain interval of time, the power to the LCD and hard disk may be turned off The LCD will resume operation when the touch pad or an external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

The power to the LCD may be turned off 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, 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 mode (Reference "Standby/Hibernation Functions") The computer will resume by sliding the power switch





7 Setup Windows

Moving the cursor (\c) or clicking buttons can be performed with the touch pad, a key or the touchscreen. ($\c)$ page 13, Reference Manual "Touchscreen")

<For CF-37NDEDDEM/CF-37MBA2CEM>

- ① Select settings for your region and your keyboard layout, then press [Next]. (for U.S.A.: United States 101)
- (2) Enter your name, then press [Next].
- (3) Select [Skip] at the [Using Your Modem to Connect].
- (4) Select [Yes] at the [Cancel Dialing], then press [Next]. The License Agreement will be displayed.
- (5) After reading the agreement, select [I accept this agreement] or [I do not accept the agreement], then press [Next].

NOTE

- If [I do not accept the agreement] is selected, the Windows setup will be aborted.
- ◆ <Only for CF-37MBA2CEM> <During the setup procedure after reinstalling only>
 After accepting the agreement, the [Windows product key] is displayed.
 Input the Product Key written down in the "Customer's Record" section and select [Next]. (page 9 step 2)
- 6 Press [Finish].
- (7) Input the correct date, time and time zone and press [Close]. You can also complete these settings at a later time.

<For CF-37MBABCEM>

- (1) At the [Add New Hardware Wizard] [PCI Ethernet Controller], select [Cancel].
- ② At the [Add New Hardware Wizard] [PCI Communication Device], select [Cancel].
- (3) Select settings for your region and your keyboard layout, select [Next]. (for U.S.A.: United States 101)
- (4) Enter your name, select [Next].
- (5) Select [Skip] at the [Using Your Modem to Connect].
- (6) Select [Yes] at the [Cancel Dialing], select [Next]. The License Agreement will be displayed.
- (7) After reading the agreement, select [I accept this agreement] or [I do not accept the agreement], select [Next].

NOTE

- If [I do not accept the agreement] is selected, the Windows setup will be aborted.
- <During the setup procedure after reinstalling only>
 After accepting the agreement, the [Windows product key] is displayed.
 Input the Product Key written down in the "Customer's Record" section, then press [Next]. (page 9 step 2)
- (8) Select [Finish].
- (9) Input the correct date, time and time zone and select [Close]. You can also complete these settings at a later time.
- (10) Select [Start] [Settings] [Control Panel] [Modems], select [Lucent Win Modem], then select [Remove].
- (1) Select [Close], then click \(\subseteq \) in the top of right corner of the window.
- (12) Select [Start] [Shut Down] [Restart], select [OK].
- (3) At the [Add New Hardware Wizard] [PCI Ethernet Controller], select [Next].
- (4) Select [Search for the best driver for your device.(Recommended)], select [Next].
- (5) Select [Specify a location], input [C:\UTIL\DRIVERS\CLAN] and select [Next].
- (6) When [Windows driver file search for the device: 3Com 10/100 Mini PCI Ethernet Adapter] is displayed, select [Next].
- (17) When [Insert Disk] is displayed, select [OK].
- (8) Input [C:\UTIL\DRIVERS\CLAN] at the [Copy files from:] and select [OK].
- (19) At the [Version Conflict], select [Yes]. (twice)
- (20) Select [Finish].

First-time Operation

- 2) When the message [Do you want to restart your computer now?] is displayed, select [Yes].
- 22 At the [Enter Network Password], input your user name and password, select [OK].
- 23 At the [Add New Hardware Wizard] [PCI Communication Device], select [Next].
- 24 Select [Search for the best driver for your device.(Recommended)], select [Next].
- Select [Specify a location], input [C:\UTIL\DRIVERS\CMODEM] and select [Next].
- 26 When [Windows driver file search for the device: 3Com 56K V.90 Mini PCI Modem] is displayed, select [Next].
- 27) Select [Finish].

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 CD-ROM, it is necessary to run a separate file decompression program.

\tsclient \tools

To uncompress the file, it is necessary to have approximately 80 MB of free disk space available on the hard disk.

To use the CD-ROM/DVD-ROM drive in MS-DOS mode, perform the operation below after modifying config.sys and autoexec.bat (Reference "CD-ROM/DVD-ROM Drive").

File decompression method:

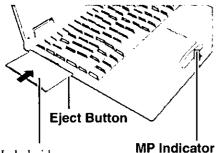
- Turn your computer on.
- (2) When [Press <F2> to enter SETUP] is displayed, immediately press Ctrl (until the menu is displayed).
- Select [Command prompt only].
- (4) Insert the Product Recovery CD-ROM.
- (5) At the prompt, input the following:

L:\en\addfile (Enter)

Follow the message on the screen.

After this program is executed, the contents of the above folders will be decompressed to the c:\util\win98add folder.

Create BACKUP Disks for Reinstallation-



Label-side up Insert the shutter-side headfirst. For reinstallation (page 21), create backup disks. To create backup disks, the included SuperDisk Drive Pack (CF-VFS372) and 2HD floppy disks are needed.

- 1 Turn the computer off, then remove the CD-ROM drive (Reference "Multimedia Pocket").
- (2) Insert the SuperDisk Drive Pack in the multimedia pocket and turn the computer on.
- (3) Set a floppy disk and make sure it is not in the write-protected state, then select [Start] [Programs] [Panasonic] [Create BACKUP DISK] and follow the on-screen instructions. Place a label identifying the contents on each disk.
- Name of created backup disk

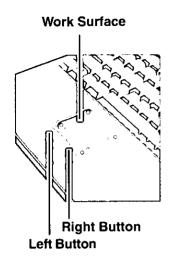
FIRSTAID FD

(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 floppy disks, do not run any other application program.
- When creating floppy disks and the message [Insufficient files to copy] is displayed, select [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 standby or hibernation function (Reference "Standby/Hibernation Functions").

Touch Pad (Basic Operation)



Use the touch pad to move the cursor on the display and perform normal computer operations. For instructions on how to operate, refer to Reference "Touch Pad (Advanced)".

(NOTE

The touch pad has been designed to work only when a finger is used. Therefore, do not use any implement on the touch pad.

-Basic Operation,

Function	Touch Pad Operation
Moving the Cursor	Move the tip of your finger lightly over the surface.
Tapping/Clicking	or clicking
Double-Tapping/ Double-Clicking	double-tapping double-clicking
Dragging	Two quick taps, but on the second tap leaving your finger down (applying pressure) and moving it on the work surface. While holding down the button, moving your finger on the work surface.

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 that can 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, thinner, or disinfectant-type alcohol.

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.

Run the Reference Manual

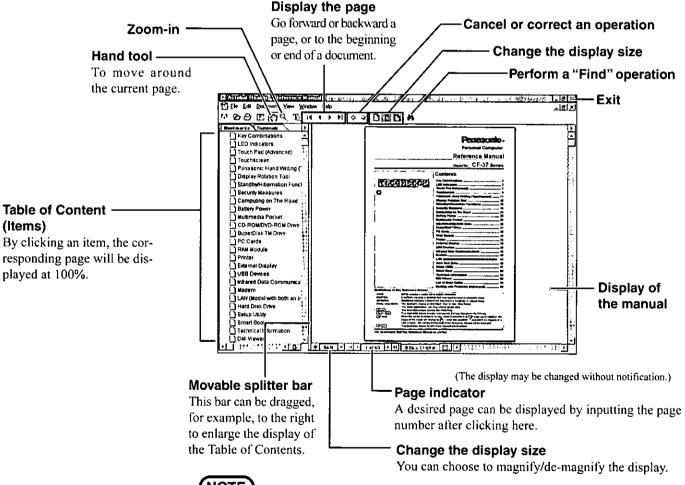
1 Turn your computer on

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

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

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].

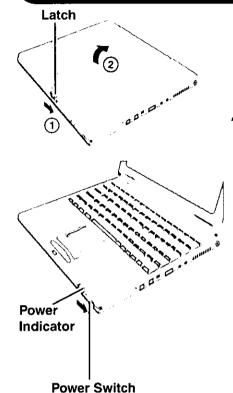


(NOTE

- 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.

Starting Up/Shutting Down

Starting Up



7 Open the display

- (1) Slide the latch as shown.
- (2) Lift open the display.

Turn your computer on

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

CAMMON .

- The computer will not power on when the display is closed (except when connecting an external display or when [Panel Switch] has been set to [LCD Off] in the Setup Utility (Reference "Setup Utility").
- After confirming that the power indicator has turned on, avoid the following until Windows has completed loading.
 - · Touching the power switch.
 - Performing any keyboard, touch pad, touchscreen (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, please contact Panasonic Technical Support.

Select a device to start up the Operating System

You can select the device for starting up the Operating System when starting up the computer. It is not necessary to change the settings of the [Boot] menu in the Setup Utility.

- 1 Turn the computer on and press **Esc** when [Press <Esc> to enter Boot First Menul is displayed.
- **2** Select the device from the menu, press **Enter**.

NOTE

ШШ

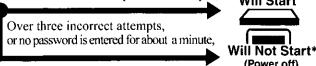
- When the Operating System is unable to start up from the selected device, it will start up from the device last used for start up.
- If no start up device is selected, the Operating System will start up in the order of the settings of the [Boot] menu in the Setup Utility during subsequent start ups.
- When you want to change the settings in the Setup Utility, select <Enter Setup> from the menu.

If security indicator (🖺) is displayed,

you must first enter your password. (Reference "Security Measures")

Upon entering your password and pressing (Enter).

If the correct password is input,



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.

Will Start

(Power off)

Starting Up/Shutting Down

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

the standby or hibernation function has been set. (Reference "Standby/Hibernation Functions")

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 or an external mouse (when one is connected) for a certain interval of time, the power to the LCD and hard disk may be turned off. The LCD will resume operation when the touch pad or an external mouse (when one is connected) is used, or when a key or the touchscreen is pressed. The power to the LCD may be turned off 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, 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 mode (**Standby/Hibernation Functions"). The computer will resume by sliding the power switch.

[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.

Shutting Down (power off your computer)

This procedure is shutting down without using the standby or hibernation function. Reference "Standby/Hibernation Functions")

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 []

Confirm shut down

Select [Shut down], then press [OK]. 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 standby or hibernation function is available. (Reference "Standby/Hibernation Functions")

Troubleshooting

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.

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 you still cannot troubleshoot the problem, contact Panasonic Technical Support.

Starting Up

The power indicator or bat- tery indicator is not lit	 Check the cable connection for the AC adaptor. Check to see if a fully charged battery is properly installed. Remove the battery pack and disconnect the AC adaptor, then connect them again.
is displayed	Input your password. If you have forgotten it, contact Panasonic Technical Support.
[POST Startup Error(s)] is displayed	page 17
Windows startup, or an op- eration is extremely slow	Press F9 in the Setup Utility (Reference "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	 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), 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. Contact Panasonic Technical Support. This computer will not correctly recognize the date and time starting from the year 2100 A.D.
When the previous item is not the cause	 Press F9 in the Setup Utility (Reference "Setup Utility"). This will restore the Setup Utility's settings to their default values (except the password settings). Run SCANDISK to check the hard disk. At start-up, press Ctrl to operate the computer in the Safe mode. Try removing all peripheral devices.
When resuming from the standby mode, does not appear even if a password has been set in the Setup Utility	Use the Windows password as the following. Select [Start] - [Settings] - [Control Panel] - [Power Management] - [Advanced], then add the check mark for [Prompt for password when computer goes off standby].

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 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 remove the battery pack and disconnect the AC adaptor, then connect them again. If the problem persists, contact Panasonic Technical Support.
After the AC adaptor is connected, the orange indicator blinks five times	Unable to charge because of an improper temperature range. (page 6)

Application Software

Computer hangs	 Press Ctrl + Alt + Del to reboot the computer. After cutting the power by pressing the power switch for more than four seconds, slide the power switch to power on and open the application again. If the program no longer works normally, go to [Start] - [Settings] - [Control Panel] - [Add/Remove Programs] to delete the program. Then try installing the program once
	again.

Dealing with Problems (Summary)

Display

No display after powering on	 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, 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. (This combination does not work when the computer is in the Dual-Display Mode.) 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. 				
The power has not been turned off, but after a certain period of time, there is no dis- play	 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				
The resolution of the display cannot be changed	Set [None] for [Wallpaper] in [Start] - [Settings] - [Control Panel] - [Display] - [Background], select [OK]. Then, once again try changing the resolution. After the change, be sure to restart the computer.				
The cursor cannot be controlled	Restart the computer by using the keyboard (e.g.,				
An afterimage appears(i.e., green, red, and blue dots remain on the display) or there are dots not displaying the correct colors	 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 motion of the mouse cursor is not smooth	Select [Start] - [Settings] - [Control Panel] - [Mouse] - [Motion] and try to change the speed or acceleration.				
During simultaneous dis- play, the screen of the ex- ternal display becomes dis- ordered	Try changing the display by pressing Fn + F3 . (This combination does not work when the computer is in the Dual-Display Mode.)				
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.				

Reference Manual

The Reference Manual is not displayed	If Acrobat Reader is not installed, run [c:\util\reader\setup.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.

Reinstalling Software

Before Reinstallation

Preparing

You will need the Product Recovery CD-ROM and the BACKUP DISK (e.g., FIRSTAID FD) you made earlier. (→ page 12)

If you have not created the BACKUP DISK, you can create by selecting [Create BACKUP DISK] 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 the conditions at time of purchase.
- Before the reinstallation procedure, remove all peripherals (except for the CD-ROM/DVD-ROM drive).
- Be sure the AC adaptor is connected until the reinstallation procedure is completed.
- When the computer enters 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**.

Reinstalling

Windows 98

CAUTION

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

- 1 Set the CD-ROM/DVD-ROM drive 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 [Boot] menu, press F5 / F6 and (†) / (1) until [CD-ROM/DVD-ROM] is at the top of the [Boot] menu and [Floppy Drive] is the next position.
- **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 the License Agreement screen should appear.

7 <For CF-37MBA2CEM/CF-37MBABCEM>

Press(Y).

<For CF-37NDEDDEM>

Press (1).

This screen should appear.

Select the number

- . Restore the whole HDD to factory default . Restore the drive C to factory default

- 8 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].

- **9** At the confirmation message, press Y. The operations of "format" and "restore" for the hard disk start automatically. (The operations take about one hour.)
- 10 After the "restore" procedure completes, remove the Product Recovery CD-ROM, then close the tray.
- 11 Turn the computer off by sliding the power switch and remove the CD-ROM/DVD-ROM drive.
- 12 Set the SuperDisk drive pack in the multimedia pocket, set the FIRSTAID FD and turn the computer on. Follow the on-screen instructions.
- 13 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

Restart the computer by pressing (Ctrl)+(Alt) + (Del).

- 14 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.
- 15 Press (F9).

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

16 Press (F10).

At the confirmation message, select [Yes] and press

17 Perform the setup procedure for Windows 98 by following the instructions on the screen. page 11

NOTE

If necessary, set the CD-ROM/DVD-ROM drive in the multimedia pocket (Reference "Multimedia Pocket").

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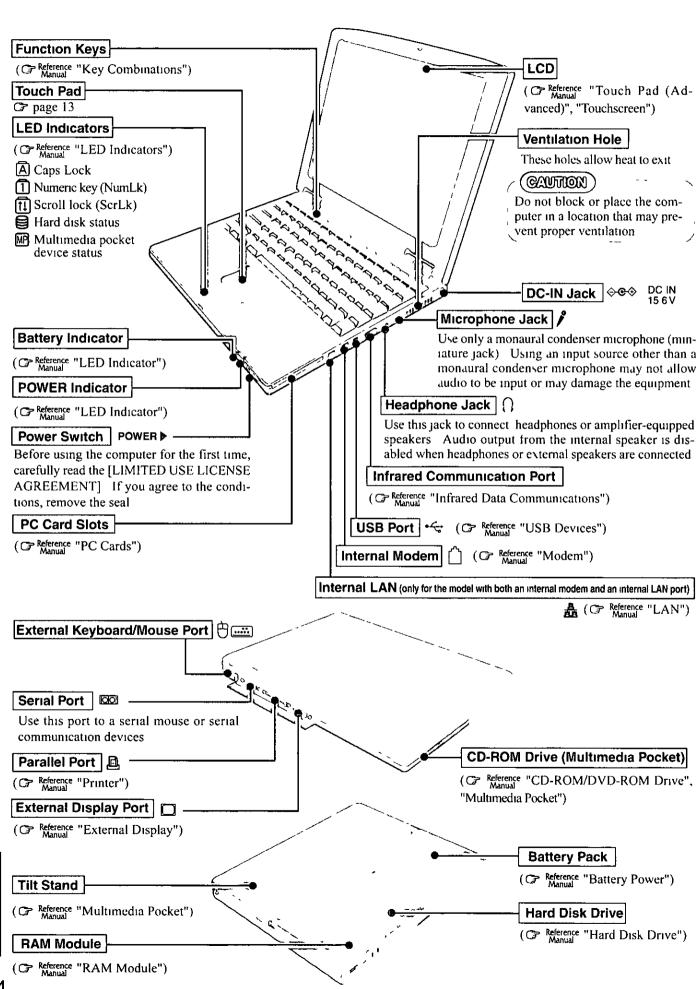
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Names and Functions of Parts



Specifications

Model No.	<u></u>	CF-37	7MBA2C	CEM		CF-37MBABCEM		CF-37NDEDDEM	
CPU					sor 60			Mobile Pentium® III Processor	
		Mobile Pentium® III Processor 600 MHz LV					700 MHz SS featuring Intel® SpeedStep™ Technology		
L1 Cache		32 KB							
L2 (Secon	d) Cache Memory	256 KB							
Memory (Expandable to)		64 MB (192 MB Max)						128 MB (256 MB Max)	
Video Mer	nory	4 MB						8 MB	
LCD	Туре	12 1 Type (TFT)						
	Displayed Colors*1	256 / 65536 / 16 M colors (640 × 480 dots / 800 × 600 dots) 256 (640						256 / 65536 / 16 M colors (640 × 480 dots / 800 × 600 dots / 1024 × 768 dots)	
External D	Display	256 / 65536 / 16 M colors (640 × 480 dots / 800 × 600 dots / 1024 × 768 dots)							
Hard Disk	Drive	10 GB*2 20 GB*2							
Keyboard		Windows keyboard (87 keys)							
Pointing D)evice	Touch Pad Touchscreen (Anti-Reflection, Finger and stylus (included) touch capable)							
CD-ROM D	Drive	24x Speed	(Max)						
	PC Card Slots	Type I or Type II							
Slots						A, 5 V 400 mA			
	RAM Module Slot		44-pin, SO-DIMM, 3 3 V, SDRAM, PC 100 Compliant						
	Parallel Port	Dsub 25-pin female							
	External Display Port	Mını Dsub 15-pın female							
	Serial Port	Dsub 9-pin male							
Interface	Microphone Jack*3	Miniature jack, 3 5 DIA							
	Headphone Jack	Miniature jack, 3 5 DIA Impedance 32 Ω, Output Power 4 mW × 2							
	Infrared Communication Port								
	External Keyboard/Mouse Port	Mını DIN 6-	pın fema	ale					
	USB Port	4-pin							
	internal Modem		Data 56 kbps (V90 & K56flex) FAX 14 4 kbps			ta 56 kbps (V 90 & X2) X 14 4 kbps		Data 56 kbps (V90 & K56flex) FAX 14 4 kbps	
	Internal LAN					IEEE 802 3 10Base-T IEEE 802 3u 100Base-TX		IEEE 802 3 10Base-T IEEE 802 3u 100Base-TX	
Speaker		Stereo Speaker (built in)							
Sound		16 bits, 44 1 kHz AC '97 2 1 Compatible							
	Battery Pack	Li-ion 10 8 V, 3 0 Ah							
		Operating Time*5 Approx 1							
Battery		Charging Time*5 Power On Approx 35 h							
			Power Off Approx 30 h						
	Clock Battery	Coin type lithium battery 3 0 V							
		Operating Time Approx 7 years							
AC Adapte		Input 100 V - 240 V AC, 50 H ₂ / 60 H ₇ Output 15 6 V DC, 3 85 A							
Power Cor	nsumption* ⁷	Approx 33 W*8 / Approx 60 W (maximum when recharging in the ON state)							
Software		Microsoft® Windows® 98 Second Edition (FAT32 File System)							
	Utility Programs		Smart Boot, Display Rotation Tool					Setup Utility, DMI Viewer, Panasonic Hand Writing, Smart Boot, Display Rotation Tool, Intel SpeedStep Technology	
Environment		In use Temperature 5 °C to 35 °C {41 °F to 95 °F}							
		Humidity 30% to 80% RH (No condensation)						ation)	
		Not in use					0 °C {-4 °F to 140 °F}		
			Humid			to 90% RH (No conde			
Physical D	imensions	297 mm × 25 6 mm (at the front) / 31 2 mm (at the rear) × 236 5 mm (11 7 ′ × 1 0 ″ or 1 2 ″ × 9 3 ″) (excluding the rear height adjustment parts)							
Weight						including the CD-ROM d			
Meiñir		Approx 2 I	kg (Ap	PIOX 4 0	ונטונ	including the CD-NOM 0	iive)		

^{*1} A 16 M color display on the LCD is achieved by using the dithering function
*2 1GB = 10⁹ bytes
*3 Use only a monaural condenser microphone
*4 A communications software is necessary
*5 Varies depending on the usage conditions
*6 The AC extension compatible with power source up to 240 V AC

^{*6} The AC adaptor is compatible with power sources up to 240 V AC
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 *8 Rated power consumption

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