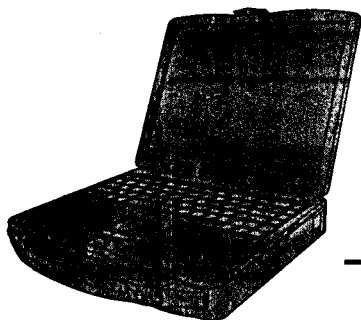


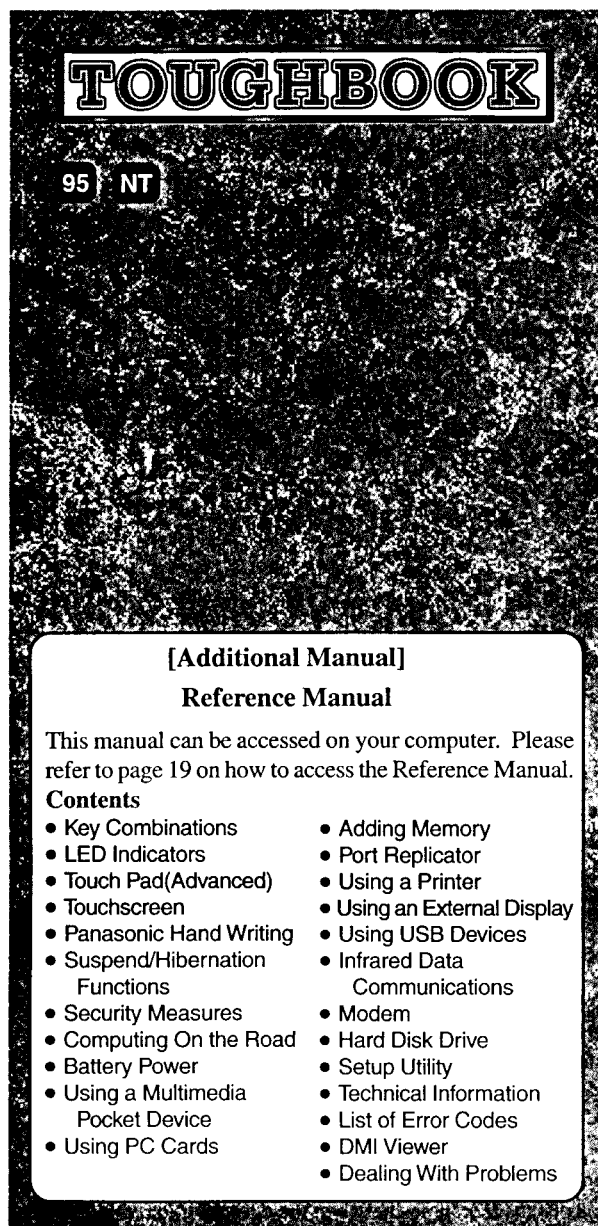


Panasonic®

Personal Computer

OPERATING INSTRUCTIONS

CF-27 Series



[Additional Manual] Reference Manual

This manual can be accessed on your computer. Please refer to page 19 on how to access the Reference Manual.

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- LED Indicators
- Touch Pad(Advanced)
- Touchscreen
- Panasonic Hand Writing
- Suspend/Hibernation Functions
- Security Measures
- Computing On the Road
- Battery Power
- Using a Multimedia Pocket Device
- Using PC Cards
- Adding Memory
- Port Replicator
- Using a Printer
- Using an External Display
- Using USB Devices
- Infrared Data Communications
- Modem
- Hard Disk Drive
- Setup Utility
- Technical Information
- List of Error Codes
- DMI Viewer
- Dealing With Problems

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Appendix

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

Addendum for Using GSM Model

This manual contains supplementary instructions regarding the use of the computer. It explains the cases where the operation of the computer differs from that in the OPERATING INSTRUCTIONS.

Read Me First - For U.S.A.

"OPERATING INSTRUCTIONS (page 3)"

Replace as follows.

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.

When used with the optional GSM PCS Module, a minimum spacing distance of 1 cm must be maintained between antenna and person's body during wireless modes of operation to comply with FCC RF exposure safety requirements.

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

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Responsible Party: Matsushita Electric Corporation of America
One Panasonic Way
Secaucus, NJ 07094
Tel No: 1-800-LAPTOP-5 (1-800-527-8675)

FCC Regulation Notice for modem This equipment contains a FCC approved modem.

Manufacturer of modem: Aztech Labs, Inc.
Model No. MP3930V-W

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

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 modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack which is Part 68 compliant. See Installation Instructions for details.
3. The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all area, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company.
4. If your telephone equipment cause harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.
5. The telephone company may take changes in it's facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.
6. If trouble is experienced with this equipment, for repair or warranty information, please contact Matsushita Electric Corporation of America, toll free at 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.

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

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

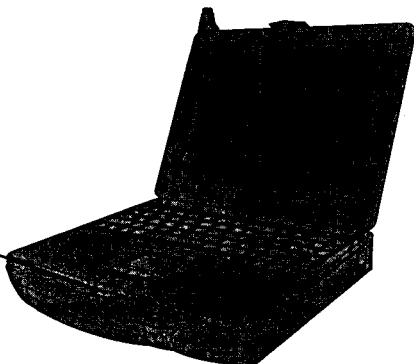
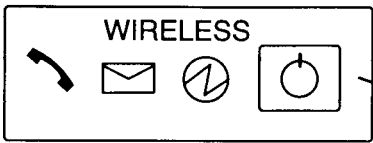
Using GSM

The following function has been added.

Your computer is equipped with GSM enabling you to communicate using radio frequencies.

Names and Functions

● Front Panel Description



GSM Switch

The modem powers up independently from the computer regardless of the computer power status and will remain on when the computer is power off.



Power On Indication - Green:

A green LED will be used to signal when the modem has been powered on.



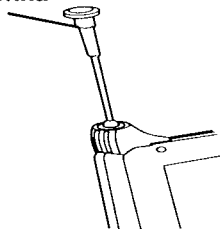
Ring Indication - Amber:

The LED will flash when the modem has received a ring.



Communication-mode Indication - Green:

The LED will light while communicating.



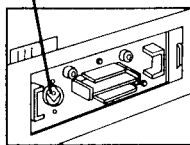
● H.O.T. Antenna

Your computer is equipped with a H.O.T. Antenna (High-gain, Omni-directional, Telescopic).

The antenna is retractable into the LCD assembly, and data can be sent and received even when the antenna is not extended.

Position the antenna to radiate away from the body to increase effective coverage.

External Antenna Connector



● **External Antenna Connector**

Your computer is equipped with an external antenna connector. An external antenna (i.e. mounted on a vehicle) may be connected to provide higher signal strength in fringe or low signal areas to maximize effective coverage.

CAUTION

Journal of Interpersonal Violence 26(10) 1953-1970
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hosted at
http://online.sagepub.com

[Faint, illegible text]

These computers are available with 16 Mbytes disk storage and feature built-in wireless transmitters, which will be especially recommended when they become avail-

able. Other, third-party wireless transmitters have not been RF exposure evaluated, and the common practice of carrying a mobile phone with RF exposure in the back pocket is not covered by the standard.

epi-*nick*



Customer's Record

Model No. ^{*1}	Dealer's Name
Serial No.	
or	
Code No.	Dealer's Address
Product ID ^{*2}	
Date of Purchase	

*1 For the Model No., insert the 12 digit number (for example, CF-27FCCKFAM) located on the bottom of the computer.

*2 For Product ID, record the Product ID 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. 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.
Windows 95	Information for Microsoft Windows® 95 Operating System users.
Windows NT	Information for Microsoft Windows NT® Workstation Version 4.0 users.
	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 19 on how to access this manual.

● Some of the illustrations and screens in this manual may differ slightly in shape from the actual items in order to make the explanation easier to understand. The illustrations of the computer in this manual (except for the screen) are for reference only.

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Read Me First

For U.S.A.

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- 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

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Secaucus, NJ 07094
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FCC Regulation Notice for modem

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Manufacturer of modem: Aztech Labs, Inc.

Model No. MP3930V-W



**Tested To Comply
With FCC Standards**

FOR HOME OR OFFICE USE

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 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.
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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.

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

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

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 ATTACHEMENT LIMITATIONS

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

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

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

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

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

REN: See bottom of the computer

RESTRICTIONS CONCERNANT LE RACCORDEMENT DE MATÉRIEL

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

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

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

Pour sa propre protection, l’utilisateur doit s’assurer que tous les fils de mise à la terre de la source d’énergie électrique, des lignes téléphoniques et des canalisations d’eau métalliques, s’il y en a, sont raccordés ensemble. Cette précaution est particulièrement importante dans les régions rurales. Avertissement: L’utilisateur ne doit pas tenter de faire ces raccordements lui-même; il doit avoir recours à un service d’inspection des installations électriques, ou à un électricien, selon le cas.” “AVIS: L’indice d’équivalence de la sonnerie (IES) assigné à chaque dispositif terminal indique le nombre maximal de terminaux qui peuvent être raccordés à une interface. La terminaison d’une interface téléphonique peut consister en une combinaison de quelques dispositifs, à la seule condition que la somme d’indices d’équivalence de la sonnerie de tous les dispositifs n’excède pas 5.”

REN: Voir sous le fond de l’ordinateur

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 can possibly occur.

Avertissement concernant la pile au lithium (pile de sauvegarde)

Pile au lithium!

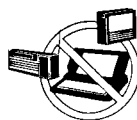
Le micro-ordinateur renferme une pile au lithium qui permet de sauvegarder certaines données comme la date et l'heure notamment. Elle ne devra être remplacée que par un technicien qualifié.

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

Precautions

The CF-27 was developed based on thorough research into the real-world portable computing environments. Exhaustive pursuit of usability and reliability under harsh conditions led to innovations such as the magnesium alloy exterior, vibration damped hard disk drive and floppy disk drive, flexible internal connections. The CF-27's outstanding engineering has been tested using the stiff MIL-STD- 810E (for vibration and shock) and IP (for dust and water) based procedures.

As with any portable computer device precautions should be taken to avoid any damage. The following usage and handling procedures are recommended.



Avoid Radio Frequency Interference

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



Avoid Magnetic Fields

Keep the computer away from magnets.



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.

Avoiding 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.

● Peripherals

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

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 50% 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 after the battery is fully charged.
- 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}). Once the allowable range requirement is satisfied, charging begins automatically. Note that the recharging time varies based on the usage conditions.
- 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 of the battery pack. 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).

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")

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

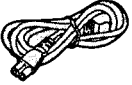
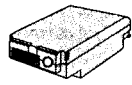
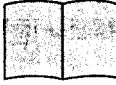
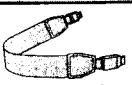
- **Users are advised to purchase the latest versions of virus protection software and use them regularly.**
We recommend you run the software:
 - When booting your computer.
 - After receiving data.
 We recommend that you check data received on floppy disks or from external sources, such as data downloaded from the Internet, e-mail, etc. (For compressed files, please 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 are missing or is not working properly, contact Panasonic Technical Support.

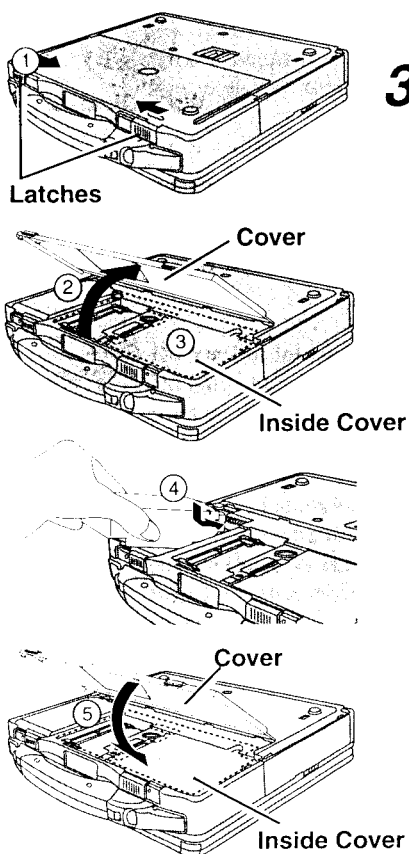
AC Adapter 1  Model No: CF-AA1639	AC Cord 1 	Battery Pack.. 1  Model No: CF-VZSU04	Operating Instructions 1 
Product Recovery CD-ROM 1 	Windows® Book 1 	For CF-27EB6GDAM, CF-27EB6GDCM model only Hand Strap 1  (☞ page 10)	

2 Write down the Product ID

CAUTION

The Product ID is necessary during the setup procedure for Windows (☞ pages 11, 12). Record the number 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), in the "Customer's Record" section on page two of this manual.

3 Connect the battery pack



① Turn your computer over and slide the latches inward.

② Lift open the cover holding both sides and remove it.

③ Remove the inside cover. (This is shown by dotted line in the figure.)

④ Put a battery pack into the computer and slide the battery pack inward until it is firmly in 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.

⑤ Put the inside cover back into place and attach the cover holding both sides.

CAUTION

When attaching the cover;

Be careful not to get your fingers caught in the cover.

NOTE

The power saving function is factory set, so if there is no input from the keyboard, touch pad, touchscreen or external mouse for two minutes, the LCD is powered off (ECO mode Reference Manual "Computing On The Road")*.

In the ECO mode the LCD will resume operation when the touch pad is used, or when a key or the touchscreen is pressed.

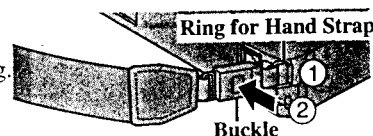
The computer may enter the ECO mode while Windows is setting up or even when an application software is being installed. In this case, because it is conceivable that a selection dialog box will be shown, for resuming from the ECO mode, do not press **Enter** and **Space** which may trigger a selection,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

*Except the devices connected to the USB port such as a USB mouse.

<For models including a hand strap only> Using the Hand Strap

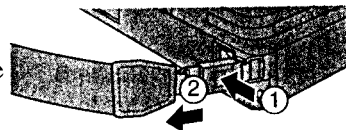
● Attaching the hand strap

- ① Attach the end of the hand strap to the ring.
- ② Push the buckle.



● Removing the hand strap

Push and slide the buckle to the direction of the arrows in the figure.



CAUTION

- The hand strap has been designed to carry only the weight of the computer. Therefore, be sure that the hand strap does not carry a weight that exceeds the weight of the computer. The hand strap may accidentally come loose from the computer.
- Do not use a hand strap that is damaged or about to tear.

8 Setup Windows

Windows 95

Moving the cursor () or clicking buttons can be performed with the touch pad, a key or the touchscreen. ( page 17,  Reference Manual "Touchscreen")

- ① Select settings for your region, then press [Next].
- 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 ID written down in the "Customer's Record" section
( pages 2, 8), then press [Next].
- 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.
- ⑧ Press [Next] to complete the printer setup or [Cancel] to skip.

NOTE

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

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

( Reference Manual "Touchscreen")

Windows NT

Moving the cursor (⤴) or clicking buttons can be performed with the touch pad. (☞ page 17)

- ① The Software License Agreement will be displayed. After reading the agreement, select [I Agree] or [I Disagree].
- ② Select [Next].
- ③ Input your name and organization, then select [Next].
(It is possible to omit the organization item.)
- ④ Input the Product ID written down in the "Customer's Record" section (☞ pages 2,8), then select [Next].
To move the cursor to a particular item, press **Tab** or click the desired box.
- ⑤ Input your computer name and select [Next].
- ⑥ Input an Administrator password and select [Next].

CAUTION

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

- ⑦ Select [Next].
- **When not establishing settings for a network:**
Select [Do not connect this computer to a network at this time], then select [Next].
(Settings can be made for a network even after Windows starts up. In this case, be sure to read [When Adding New Software or Hardware Components] in the Reference Manual [Technical Information].)
- **When establishing settings for a network:**
The settings will vary for different network environments depending on the network system being used. For more details, ask your system administrator or the person in charge of the network. Follow the on-screen instructions.
(It takes several minutes for the necessary files to be copied. If the computer enters the ECO mode, the power to the LCD is automatically turned off. In this case, press a key unrelated to the direct triggering of a selection, like **Ctrl**.)
- ⑧ Select [Restart Computer]. Select "Windows NT Workstation Version 4.00" and press **Enter**.
- ⑨ Following the display, press **Ctrl** + **Alt** + **Del**. Input the password set in step ⑥ and select [OK], then select [Close] at the [Welcome] display.
As the computer starts up, it will be necessary to input the password set in step ⑥.
- ⑩ Follow the on-screen instructions and install touchscreen driver.
(At the [Welcome] display, select [Next], then select [Next]. At the [Information] display, select [OK]. When the installation completes, select [No, I will restart my computer later], then select [OK].)

NOTE

For models equipped with a 13.3" LCD, the touchscreen will not operate until the setup for Windows completes.

- ⑪ Follow the on-screen instructions and install DS-XG Driver for WinNT.
(At the [YAMAHA DS XG Audio Driver], select [OK]. When the installation completes, select [No, I will restart my computer later], select [OK].)
- ⑫ Follow the on-screen instructions and install the modem driver.
(At the [Modem Board Installation Wizard], select [Next].
Confirm [MP3930V-W Modem] is displayed when "The wizard will install the modem driver shown below" is displayed on the screen, then select [Next].
When the installation completes, select [Finish].)
- ⑬ Follow the on-screen instructions and install Phoenix APM 2.0 for Windows NT.
When the installation completes, select [Don't Restart Now].
- ⑭ Follow the display and install Phoenix Card Executive™ for Windows NT.
When the installation completes, select [Restart Now].
- ⑮ Select "Windows NT Workstation Version 4.00" and press **Enter**.
- ⑯ The [Begin Logon] display will appear. Perform the operation in step ⑨.

- ⑰ Select [Next] at the [Card Executive 2.0 for NT Diagnostics].

NOTE

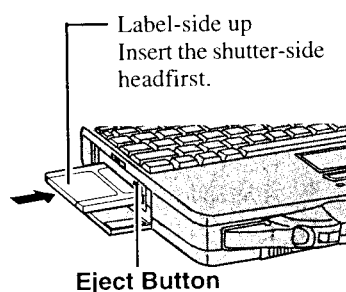
The diagnostics may take about two minutes.

- ⑱ Select [Next], then select [Finish].
Windows will restart.
Select "Windows NT Workstation Version 4.00" and press **Enter**.
- ⑲ The [Begin Logon] display will appear. Perform the operation in step ⑨.
- ⑳ Double-click the [Internet Explorer] icon to install Internet Explorer.
Follow the on-screen instructions.
- ㉑ Set the correct settings for all items in [Control Panel]-[Regional Settings] and [Date/Time] etc.

CAUTION

Be sure to perform [Calibration] in [Start] - [Settings] - [Control Panel] - [Mouse] - [Touchscreen], so that when you touch the display, that touch will correspond to the exact same location on the computer (i.e., no displacement).

( Reference Manual "Touchscreen")



9 Create floppy disks

Prepare 2HD floppy disks and make sure they are 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 DISK 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").

10 Install Acrobat® Reader 4.0 **Windows NT**

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\reader\Ar40eng.exe], then press [OK].
- ② Press [Next] and set up the Acrobat® Reader 4.0.
- ③ After reading the "Software License Agreement", select [Accept] if you agree to the terms.
- ④ Press [Next].
- ⑤ At the [Setup Complete], select [Yes, I want to restart my computer now], then select [Finish].

11 Partition the Hard Disk **Windows NT**

The hard disk includes an NT file system (NTFS) partition of 4GB. The remaining free hard disk space can be used when necessary by creating more partitions (in [Start]-[Programs]-[Administrative Tools (Common)]-[Disk Administrator]).

CAUTION

This concludes the first-time use operation guidelines.

NOTE

Windows 95

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.

\admin \help
\datalink \other
\drivers

To uncompress the file, it is necessary to have approximately 75 MB of free disk space available on the hard disk.

To use the CD-ROM drive or DVD-ROM drive in MS-DOS mode, perform the operation below after modifying config.sys and autoexec.bat. ( Reference Manual "Using a Multi-media 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 message on the screen.

(If the computer enters the ECO mode while copying, press **(Ctrl)**.)

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

NOTE

Windows NT

The library able to be used with the retail version of Windows NT 4.0 for Service Pack 6A is in the following folder on the hard disk drive.

c:\winnt\i386\drvlib

Starting Up/Shutting Down

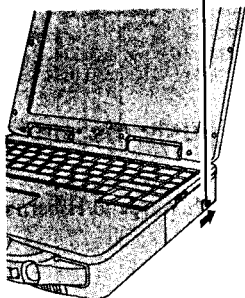
Starting Up

1 Open the display (☞ page 9)

2 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.

Power Switch



CAUTION

- The computer will not power on when the display is closed (except when connecting an external display).
- 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.

3 Select your operating system **Windows NT**

Select "Windows NT Workstation Version 4.00" and press **Enter**.

4 Logon **Windows NT**

Wait for 10 seconds after confirming that the HDD access has been completed, then press **Ctrl** + **Alt** + **Del**.

5 Input your password **Windows NT**

Input the user name and password, then press [OK]. If [Cancel] is clicked, the computer will return to the initial [Begin Logon] display. Until the correct user name and password are entered, the computer will not operate.

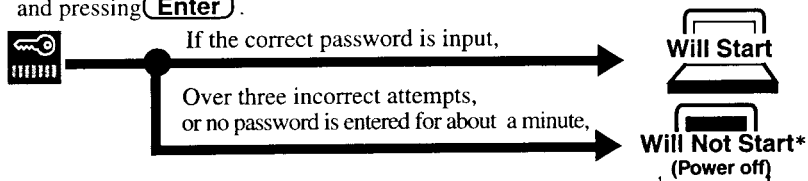
6 Select your application

You are able to start working on your computer.

● If security indicator (🔑) is displayed,

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

Upon entering your password
and pressing **Enter**.



* If you are starting from the suspend or hibernation mode (📖 Reference Manual "Suspend/Hibernation Functions"), 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 suspend or hibernation mode.

● 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")

NOTE

The power saving functions are a factory default. If there is no input from the keyboard, touch pad, touchscreen or external mouse for two minutes, the LCD is powered off (ECO mode).

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

Windows 95

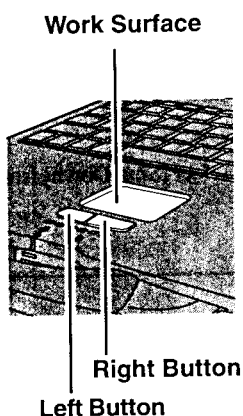
- <For CF-27FCCKFAM model only>

Do not delete the check mark for "Allow Windows to manage power use on this computer" in [Start] - [Settings] - [Control Panel] - [Power]. If it is unmarked, the computer may automatically enter a power saving mode to prevent the temperature from rising above allowable levels, depending on usage condition.

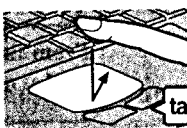
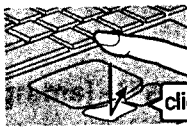
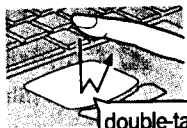
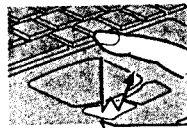
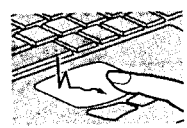
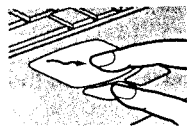
- [System Devices] in [Start] - [Settings] - [Control Panel] - [System] - [Device Manager] may contain a device or devices bearing an exclamation mark or question mark. This does not indicate a malfunction. Such a mark (exclamation or question mark) will not be displayed if the operating environment of the device showing the mark is corrected, (e.g. installing or reinstalling the device driver).

Using the Touch Pad

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



Basic Operation

Function	Touch Pad Operation
Moving the Cursor	 Move the tip of your finger lightly over the surface.
Tapping/Clicking	 or  tapping clicking
Double-Tapping/Double-Clicking	 or  double-tapping double-clicking
Dragging	 or  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.

Operation

Handling the Touch Pad

- When using a key combination such as **(Fn) + (F5)**, do not touch the touch pad. If a key combination is used while the pad is being touched, the function of the key combination will not work. In addition, it is possible that control of the cursor will be lost and the cursor will not show proper movements. In such cases, the computer has to be restarted by using the keyboard (e.g., **(Ctrl) + (Alt) + (Del)**).
- 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 or thinner, or disinfectant-type alcohol.