

Panasonic®

OPERATING INSTRUCTIONS

Personal Computer

Model No. **CF-19** series

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Getting Started

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Troubleshooting

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Appendix

For further information about the computer, you can refer to the on-screen manual.

To access the on-screen manual
→ page 16 “On-screen Manual”

Read Me First

Models for U.S.A.

Federal Communications Commission Radio Frequency Interference Statement

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the Panasonic Service Center or an experienced radio/TV technician for help.

Warning

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

FCC RF Exposure Warning:

- This equipment is provided with PC Card slot that could be used with wireless transmitters, which will be specifically recommended when they become available. Other third-party wireless transmitters have not been RF exposure evaluated for use with this computer and may not comply with FCC RF exposure requirements.

<Only for model with wireless LAN/Bluetooth>

- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
- This equipment may not be co-located or operated with any other antenna or transmitter.
- This equipment has been approved for portable operation, and unless otherwise advised in separate supplemental instructions for individual wireless transmitter(s), requires minimum 1.5 cm spacing be provided between antenna(s) and all person's body (excluding extremities of hands, wrist and feet) during wireless modes of operation.
- This equipment may use multiple installed transmitters, which may be capable of simultaneous transmission.
- This equipment is provided with external antenna connector(s) for connection to optional Car Mounter or Port Replicator for mobile external mounted antenna(s). External antenna(s) must be professionally installed and cannot exceed recommended maximum antenna gain as described in individual provided supplement instructions for wireless transmitters. Also, user must maintain minimum 20 cm spacing between external antenna(s) and all person's body (excluding extremities of hands, wrist and feet) during wireless modes of operation.

<Only for model with wireless LAN>

- WLAN external antenna connector is intended for connection to Radiall/Larsen WLAN Base Whip antenna, type NM05E2400BKTNC with 5 dBi antenna.

<Only for model with wireless WAN>

- WWAN external antenna connector is intended for professional installation and should not exceed maximum antenna gain of 9.85 dBi for 824.7 - 848.31 MHz

operation and 8.34 dBi for 1851.25 - 1908.75 MHz operation.

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: Panasonic Corporation of North America
One Panasonic Way
Secaucus, NJ 07094
Tel No:1-800-LAPTOP5 (1-800-527-8675)

6-M-1

FCC Regulation Notice for modem

This equipment contains a FCC approved modem.

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

1. This equipment complies with CFR47 Part 68 rules. On the computer is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If required, this information must be provided to the telephone company.
2. An FCC compliant telephone cord and modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack which is Part 68 compliant. See Installation Instructions for details.
3. The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all area, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company.
4. If your telephone equipment cause harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.
5. The telephone company may take changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.
6. If trouble is experienced with this equipment, for repair or warranty information, please contact Panasonic Corporation of North 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.

CSA C22 2 NO.213-conforming model. (The model which has description of “CSA C22 2 NO.213” in the bottom of the computer.)

- THIS EQUIPMENT IS SUITABLE FOR USE IN CLASS I, DIVISION2, GROUPS A, B, C, AND D OR NON-HAZARDOUS LOCATIONS ONLY.
- WARNING-EXPLOSION HAZARD-SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION2.
- When connecting and using a device manufactured by a third party, enquire to the manufacturer as to whether the device suits CLASS I, DIVISION2.

33-Ca-1

<Only for model with wireless LAN/Bluetooth>

Industry Canada

This product complies with RSS210 Industry Canada. Operation is subject to the following two conditions;

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

30-Ca-1-1

<Only for model with wireless LAN>

This product (local network devices) for the band 5150-5250 MHz is only indoor usage to reduce potential for harmful interference to co-channel Mobile Satellite systems.

High power radars are allocated as primary users (meaning they have priority) of 5250-5350 MHz and 5650-5850 MHz and these radars could cause interference and/or damage to LELAN devices.

30-Ca-2-1

This device has been designed to operate with an antenna having a maximum gain of 2.15 dBi. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The Required antenna impedance is 50 ohms. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than that required for successful communication.

25-Ca-1-1

<Only for model with Bluetooth>

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

7-M-1

Models for Europe

<Only for model with a “CE” mark on the bottom of the computer>

Declaration of Conformity (DoC)



“Hereby, we declare that this Personal Computer is in compliance with the essential requirements and other relevant provisions of the Directive 1999/5/EC.”

Hint:

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

Contact:

Panasonic Services Europe
A Division of Panasonic Marketing Europe GmbH
Panasonic Testing Centre

Network connection.

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

In all the countries of European Economical Area;

- Public Switched Telephony Networks

Technical Features.

The terminal equipment includes the following features;

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

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

18-E-1

Compliance Notice - CE Mark

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

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

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

1999/5/EC R&TTE

21-E-1

Supplementary Instructions for Wireless LAN

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.

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

FCC Radio Frequency Interference Requirements

This product is restricted to indoor use due to its operation in the 5.15 to 5.25 GHz frequency range.

FCC requires this product to be used indoors for the frequency range 5.15 to 5.25 GHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems.

High power radars are allocated as primary users of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and /or damage this product.

Specifications

| | |
|------------------------|---|
| Data transfer rates | IEEE802.11a: 54/48/36/24/18/12/9/6Mbps (automatically switched) |
| | IEEE802.11g: 54/48/36/24/18/12/9/6Mbps (automatically switched) |
| | IEEE802.11b: 11/5.5/2/1 Mbps |
| Standards supported | IEEE802.11a/IEEE802.11g/IEEE802.11b |
| Transmission method | OFDM system, DSSS system |
| Wireless channels used | IEEE802.11a: Channels 36 to 64, 149 to 165 |
| | IEEE802.11b/IEEE802.11g: Channels 1 to 11 |
| RF frequency band | IEEE802.11a: 5.18~5.32GHz, 5.745~5.825GHz |
| | IEEE802.11g/IEEE802.11b: 2412~2462MHz |

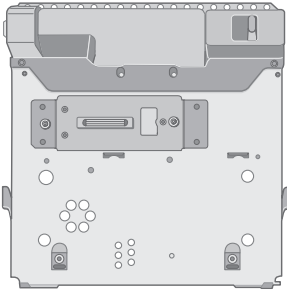
Supplementary Instructions for HSDPA/UTMS Modem

Personal Computer
Model No. **CF-19 Series**

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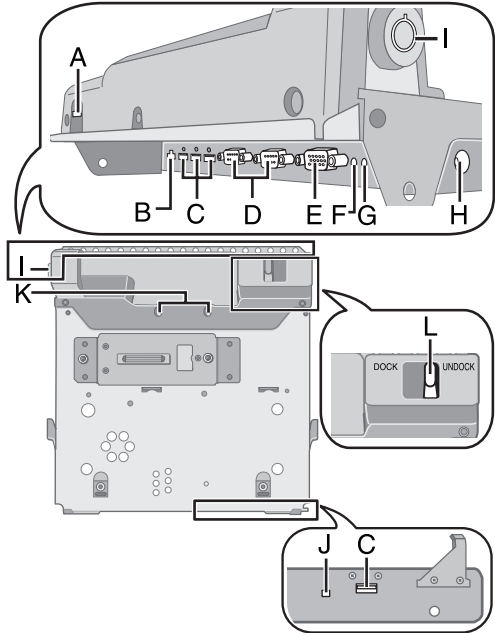
Car Mounter
Auto monter
车载模块
カーマウンター

Model No. CF-WEB184 Series
型号 **CF-WEB184 系列**


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Description of Parts

- A. Security lock **LOCK**
You can connect a Kensington cable. Refer to the instruction manual of the cable.
- B. LAN port 
- C. USB port 
- D. Serial port 
- E. External display port 
- F. Headphone jack 
- G. Microphone jack 
- H. DC-IN jack  **DC IN 16V**
- I. Key insertion slot 
- J. Dock indicator **DOCKED**
- K. Latch
- L. Lever **DOCK UNDOCK**
The lever is locked when the key is inserted and turned toward  side. When the computer has been installed, be absolutely sure to lock this lever by turning the key toward  side.

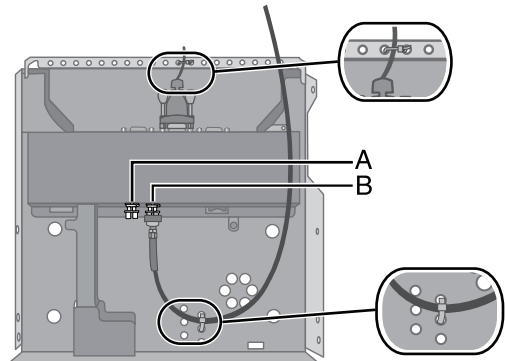


NOTE

- The lock was turned to  side in the default setting.
- When installing the computer, confirm that the lever is slid toward the UNDOCK side.

Bottom Side

- A. External wireless WAN antenna port **WWAN** (optional)
- B. External wireless LAN/GPS antenna port **WLAN/GPS** (optional)



Precautions for Installing the Car Mounter

- Do Not Install This Product in Unstable State**

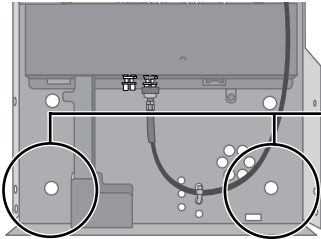
If balance of the computer is lost, it may fall over or drop, resulting in an injury.

Install the Car Mounter horizontally.

- Do Not Install This Product Wherever There is a Lot of Water, Moisture, Steam, Dust, Oily Vapors, etc.**

Otherwise, possibly resulting in fire or electric shock.

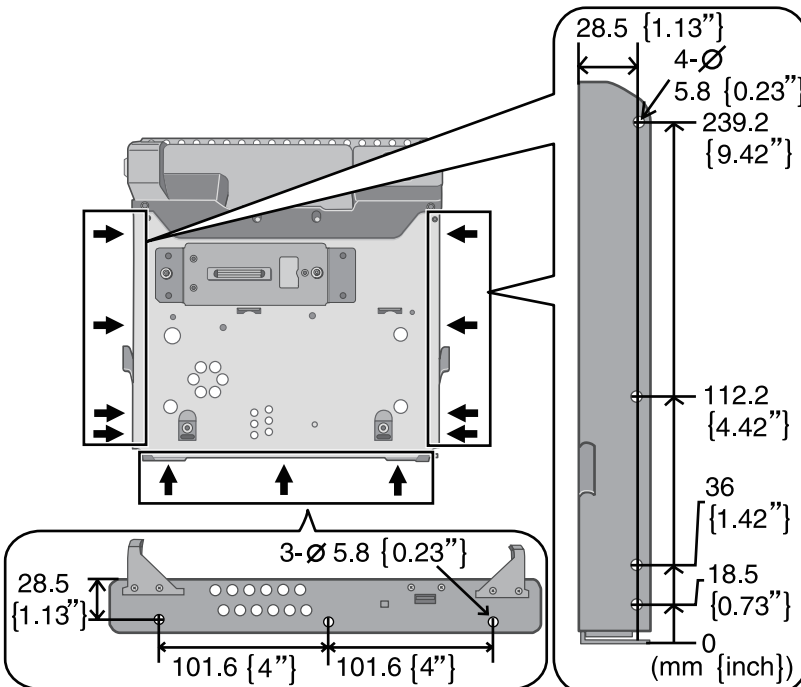
Bottom Side



CAUTION

- The ends of the screws are protruding. Take care to protect your fingers, etc. from their sharp points when installing the Car Mounter.

Dimensional Drawing



Installation holes are provided in the areas indicated by the arrows in the figure above.