

# Panasonic®

## Personal Computer

Model No. **CF-18/CF-29/CF-73 Series**

### ENGLISH

This Supplementary Instructions manual gives you information about Bluetooth.


### Supplementary Instructions for Bluetooth™

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ENGLISH

# Read Me First

## Illustrations and Terminology 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.
- Windows 2000** : Information for Microsoft® Windows® 2000 Professional users.
- Windows XP** : Information for Microsoft® Windows® XP Professional or Windows® XP Tablet PC Edition users.
- [Start] - [Run]: This illustration means to click [Start], then to click [Run].  
(For some applications, you may need to double-click.)
- : Where to go for referred information.

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## For U.S.A.

Replace the “Federal Communications Commission Radio Frequency Interference Statement” (👉 Operating Instructions “Read Me First”) with the following.

### Federal Communications Commission Radio Frequency Interference Statement

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

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

### Warning

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

### FCC RF Exposure Warning:

- This computer is provided with PC Card slots that could be used with wireless transmitter(s), which will be specifically recommended, when they become available. Other third-party wireless transmitter(s) have not been RF exposure evaluated for use with this computer and may not comply with FCC RF exposure requirements.
- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
- This equipment must be installed and operated in accordance with provided instructions and minimum 1.5 cm spacing must be provided between antenna 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 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)

## Information to the User

### This product and your Health

This product, like other radio devices, emits radio frequency electromagnetic energy. The level of energy emitted by this product however is far much less than the electromagnetic energy emitted by wireless devices like for example mobile phones.

Because this product operates within the guidelines found in radio frequency safety standards and recommendations, we believe this product is safe for use by consumers. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature.

In some situations or environments, the use of this product may be restricted by the proprietor of the building or responsible representatives of the organization. These situations may for example include:

- Using this product on board of airplanes, or
- In any other environment where the risk of interference to other devices or services is perceived or identified as harmful.

If you are uncertain of the policy that applies on the use of wireless devices in a specific organization or environment (e.g. airports), you are encouraged to ask for authorization to use this product prior to turning on the product.

### Regulatory Information

We are not responsible for any radio or television interference caused by unauthorized modification of this product. The correction of interference caused by such unauthorized modification will be the responsibility of the user. We and its authorized resellers or distributors are not liable for damage or violation of government regulations that may arise from failing to comply with these guidelines.

# About Bluetooth

Bluetooth is a technology which enables wireless communication. With Bluetooth, you can access internet or exchange data with other Bluetooth devices (e.g., computer, mobile phone, access point) without connecting cables.

## Bluetooth Specification





- Bluetooth Specification V1.1 Compliant
- Power class: Class 1

## Bluetooth Services

- LAN Access Profile (Client and Server)
- Dial-up Networking Profile (Client and Server)
- FAX Profile (Client)
- Serial Port Profile (Client and Server)
- Generic Object Exchange Profile
- Object Push Profile (Client and Server)
- File Transfer Profile (Client and Server)
- Synchronization Profile (Client and Server)
- Generic Access Profile
- Headset Profile (AG and HS)
- Hardcopy Cable Replacement Profile (Client)
- Personal Area Network Profile (AP, Group and User)
- Human Interface Device Profile (Host)

## Bluetooth Switch (Bluetooth ON/OFF)

Bluetooth can be switched on or off.

- To switch Bluetooth off  
Select  (blue icon) on the taskbar and select [Disable Bluetooth].  
 turns .
- To switch Bluetooth back on  
Select  (blue icon with red prohibition symbol) and select [Enable Bluetooth].

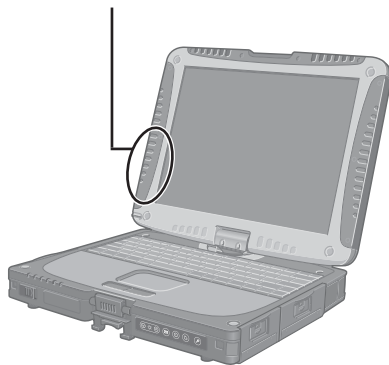
## CAUTION

Communications are conducted via a Bluetooth antenna. Do not do anything to block the radio waves, for example by obstructing the antenna segment with your hand.

## NOTE

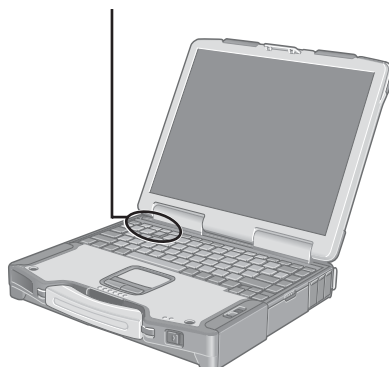
- Communication speeds and distances may vary depending on surrounding conditions, such as the other device sending or receiving communications and the installation environment.
- It is a characteristic of radio waves that communication speeds will tend to decrease as the communication distance increases. We recommend that communications between Bluetooth devices be conducted in as close proximity as possible.
- Communication speeds may decrease if a microwave oven is being used nearby.

Bluetooth Antenna



CF-18 Series

Bluetooth Antenna



CF-29 Series

Bluetooth Antenna



CF-73 Series

# Connecting to Bluetooth Devices

## Installing Bluetooth Driver

Perform the following procedure after completing the first-time use operation (☞ Operating Instructions “First-time Operation”).

### NOTE

- When [Found New Hardware Wizard] is displayed, select [Cancel].
- <For MUI (Multilingual User Interface) OS version>  
Install the driver before you change the setting of language. If you have already changed it, set the language to the default values in the following menu. After the installation completes, change the setting of language.  
**Windows 2000**  
[Start] - [Settings] - [Control Panel] - [Regional Options]
  - [Your locale (location)] - [English (United States)]
  - [Menus und dialogs] - [English]**Windows XP**  
[Start] - [Control Panel] - [Date, Time, Language and Regional Options] - [Regional and Language Options]
  - [Regional Options] - [Standards and Formats] - [English (United States)]
  - [Languages] - [Language used in menus and dialogs] - [English]

### Windows 2000

- 1** Connect the CD drive (optional), and install the driver if necessary.
- 2** Place the Bluetooth Software CD-ROM into the CD drive.
- 3** Select [Start] - [Run], enter “d\*:\btw\setup.exe”, and then select [OK].
- 4** At [Welcome to the InstallShield Wizard for WIDCOMM Bluetooth Software...], select [Next].
- 5** After reading the license agreement, select [I accept the terms in the license agreement], and select [Next].
- 6** At [Destination Folder], select [Next].
- 7** At [Ready to Install the Program], select [Install].
- 8** At [Driver Signature Notice], select [OK].
- 9** At [InstallShield Wizard Completed], select [Finish].
- 10** Select [Yes] to restart the computer.
- 11** Select [Start] - [My Bluetooth Places].
- 12** Select the locations where you want the icon to appear, and select [Next].

**13** Enter the computer name, set [Computer type] to [Laptop], and then select [Next].

**14** Select [Next].

**15** At [Choose the services that this computer will offer:], select [Next].

**16** Select [Skip].

**17** Select [Finish].

**18** Select [Start] - [Run], enter “d\*:\btswitch\setup.exe”, and then select [OK].

**19** At [Welcome to the InstallShield Wizard for Bluetooth Switch...], select [Next].

**20** Select [Yes, I want to restart my computer now], and select [Finish].

The computer will restart.

**21** Remove the CD-ROM and the CD drive.

\* “d” is the drive letter of the CD drive. You can change the letter to suit your preference.

#### Windows XP

**1** Connect the CD drive (optional), and install the driver if necessary.

**2** Place the Bluetooth Software CD-ROM into the CD drive.

**3** Select [Start] - [Run], enter “d\*:\btw\setup.exe”, and then select [OK].

**4** At [Welcome to the InstallShield Wizard for WIDCOMM Bluetooth Software...], select [Next].

**5** After reading the license agreement, select [I accept the terms in the license agreement], and select [Next].

**6** At [Destination Folder], select [Next].

**7** At [Ready to Install the Program], select [Install].

**8** At [Driver Signature Notice], select [OK].

**9** At [InstallShield Wizard Completed], select [Finish].

**10** Select [Start] - [All Programs] - [My Bluetooth Places].

# Connecting to Bluetooth Devices

- 11** Select the locations where you want the icon to appear and select [Next].
- 12** Enter the computer name, set [Computer type] to [Laptop], and then select [Next].
- 13** Select [Next].
- 14** At [Choose the services that this computer will offer:], select [Next].
- 15** Select [Skip].
- 16** Select [Finish].
- 17** Select [Start] - [Run], enter “d\*:\btswitch\setup.exe”, and then select [OK].
- 18** At [Welcome to the InstallShield Wizard for Bluetooth Switch...], select [Next].
- 19** Select [Yes, I want to restart my computer now], and select [Finish].  
The computer will restart.
- 20** Remove the CD-ROM and the CD drive.

\* “d” is the drive letter of the CD drive. You can change the letter to suit your preference.


## Connecting


### NOTE

Make the required settings to connect to the desired Bluetooth devices beforehand. (e.g., installing a printer driver for the desired printer.)

### <Example>

When connecting to Bluetooth printer using the Serial Port Profile:

- 1** Double-click  on the desktop.
- 2** Select [Bluetooth] from the menu and select [Advanced Configuration] - [Client Applications], then double-click [Bluetooth Serial Port].  
The [Bluetooth Properties] screen\*<sup>1</sup> is displayed.  
Make a note of the Bluetooth serial port number (e.g., COM7)\*<sup>2</sup> displayed in [COM Port]. This is necessary for the setting on page 7.
- 3** Remove the check mark from [Secure Connection], and select [OK].

- 4** Select [OK].
- 5** Right-click  on the taskbar, and select [Quick Connect] - [Bluetooth Serial Port] - [Find Devices].
- 6** Select the desired Bluetooth printer, and select [Connect].
- 7** When [Created connection shortcut...] is displayed, select [OK].
- 8** When [The Bluetooth serial port COM7\*<sup>2</sup> is now configured...] is displayed, select [OK].
- 9**
  - Windows 2000**  
Restart the computer by selecting [Start] - [Shut Down] - [Restart] - [OK].
  - Windows XP**  
Restart the computer by selecting [Start] - [Turn Off Computer] - [Restart].

## Bluetooth Serial Port

When you use the Bluetooth serial port service, you can establish connections between two Bluetooth devices via a virtual communication port. This means that you can handle connected devices in the same way as you would hard-wired connections. To establish a Bluetooth serial port connection, configure the serial port number of the selected device to the Bluetooth serial port number.

### ● Setting

<Example>

Set the serial port number of the desired printer to COM7\*<sup>2</sup>.

#### Windows 2000

- 1** Select [Start] - [Settings] - [Control Panel] - [Printers].
- 2** Right-click the desired printer and select [Properties] - [Ports]. Then select [COM7\*<sup>2</sup>], and select [OK].

#### Windows XP

- 1** Select [Start] - [Control Panel] - [Printers and Other Hardware] - [Printers and Faxes].
- 2** Right-click the desired printer and select [Properties] - [Ports]. Then select [COM7\*<sup>2</sup>], and select [OK].


\*<sup>1</sup> This screen may be displayed behind the [My Bluetooth Places] screen. In this case, minimize the [My Bluetooth Places] screen.

\*<sup>2</sup> This varies depending on the settings.

# Security Setting

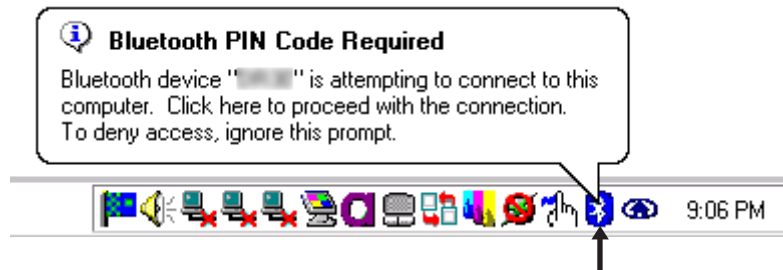
You can establish security settings for individual services.

To enable/disable the security setting:

- 1 Double-click  on the desktop.
- 2 Select [Bluetooth] from the menu, and select [Advanced Configuration] - [Client Applications].
- 3 Double-click the desired application name (service).
- 4 ● To enable:  
Add the check mark for [Secure Connection].  
● To disable:  
Remove the check mark from [Secure Connection].
- 5 Select [OK], then select [OK].

## PIN Code Request

If the security setting is enabled, when you try to connect to other Bluetooth devices, the following message will appear, and you will be asked for the PIN Code.



Click here and enter a PIN Code, then select [OK].

### NOTE

#### PIN Code

A PIN Code is a password for which you can set up to 16 alphanumeric characters. When establishing security settings, the PIN Code for the device to be connected (slave) must be the same as the PIN Code for the device where the connection originates (master).



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# Specifications

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Transmission method	FHSS system
Wireless channels used	Channels 1 to 79
RF frequency band	2402-2480 MHz

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