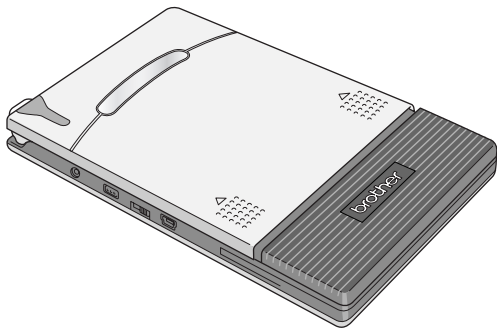


User's Guide

- General Description
- Getting Started
- Operating Environment
- Bluetooth Technology
- Installation
- Appendix, etc.

MPRINT

MW-145BT **Mobile Printer**



- Before using this printer, be sure to read this User's Guide.
- We suggest that you keep this manual in a handy place for future reference.

Introduction

Thank you for purchasing the MPrint MW-145BT (hereafter referred to as “the printer”).

This monochrome thermal mobile printer is ultra-portable and can be connected to a Windows Mobile® device or Windows® PC (a computer running Windows® operating system) to make quick printouts.

This User's Guide contains operating precautions and instructions. Before using this printer, be sure to read this manual for information on its correct operation.

In addition, we suggest that you keep this manual in a handy place for future reference.

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- Please note that we assume no responsibility for damages arising from earthquakes, fire, other disasters, actions of third parties, the user's intentional or negligent operation, misuse or operation under other special conditions.
- Please note that we assume no responsibility for damage (such as losses, loss of business profits, lost profits, business disruptions or a lost means of communication) that may result from the use or inability to use this printer.
- Please note that we assume no responsibility for damages that may result from incorrect operation of this printer by connecting incompatible equipment or using incompatible software.
- If this printer should be defective due to faulty manufacturing, we shall replace it during the warranty period.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN
INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO THE
INSTRUCTIONS.

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Precautions













Precautions indicated as shown below contain important safety information and should be strictly observed.

If the printer malfunctions, immediately stop using it, and then contact the sales representative where it was purchased.

The meanings for marks used in this manual are described below.

 Danger	Failure to accurately observe instructions marked with this symbol lead to an extremely high risk of death or serious injuries.
 Warning	Failure to observe instructions marked with this symbol may result in death or serious injuries.
 Caution	Failure to observe instructions marked with this symbol may result in injuries or property damage.

Meanings for symbols used in this manual

	Indicates danger
	Indicates danger of fire under certain circumstances
	Indicates danger of electric shock under certain circumstances
	Indicates danger of burns under certain circumstances
	Indicates an action that must not be performed
	Indicates danger of combustion if fire is nearby
	Indicates danger of sustaining injuries if the indicated part of the printer is touched
	Indicates danger of injuries, such as electric shock, if the indicated part of the printer is disassembled
	Indicates danger of electric shock if the operation is performed with wet hands
	Indicates danger of electric shock if the printer is exposed to water
	Indicates an action that must be performed
	Indicates that the power supply cord must be unplugged from the electrical outlet

Concerning this printer (Rechargeable Lithium Ion Battery)

Danger



- Do not use this printer with any rechargeable battery other than that specified, otherwise a fire or damage may result.



- Carefully observe the following precautions for the rechargeable lithium ion battery (hereafter, referred to as “rechargeable battery”) included with the printer, otherwise heat or cracks may be produced, or a fire, an electric shock or damage may result.
 - To recharge the battery, insert the rechargeable battery into the printer, and then use the AC adapter designed specifically for this printer.
 - Do not expose the rechargeable battery or the printer with the rechargeable battery installed to pressure, heat or an electric charge (for example, an oven or microwave oven, clothes dryer, high-voltage equipment or electromagnetic cooker).
 - Do not place the rechargeable battery or the printer with the rechargeable battery installed near a fire or in a location exposed to heat or high temperatures (for example, near a flame or stove, in the sun, or in a location where the temperature is 60 °C/140 °F or more, such as in a hot car).
 - Do not place the rechargeable battery or the printer with the rechargeable battery installed near water or seawater. In addition, do not drop them in water or allow them to get wet.
 - Do not short-circuit the terminals of the rechargeable battery or the printer with the rechargeable battery installed, such as with a metal object.
 - Do not pierce or poke a hole in the rechargeable battery or the printer with the rechargeable battery installed with a sharp object, such as a nail.
 - Do not hit with a hammer, step on, throw, drop or apply a strong shock to the rechargeable battery or the printer with the rechargeable battery installed.
 - Do not disassemble or alter the rechargeable battery or the printer with the rechargeable battery installed.
 - Do not use a damaged or deformed rechargeable battery.
 - Do not use in a corrosive environment (for example, exposed to salty air or salt water, or acidic, alkaline or corrosive gas).


Warning


- Do not use this printer wherever it is prohibited, for example, on an airplane, otherwise it may affect equipment, resulting in an accident.



- If this printer is to be used in special environments, for example, near medical equipment, make sure in advance that there would be no harmful effects from electromagnetic waves. Please note that we assume no responsibility for injuries resulting from interference from electromagnetic waves.



- Do not insert foreign objects into the printer or its connectors and ports, otherwise a fire, an electric shock or damage may result. Make sure that no foreign objects are present when replacing the battery.


















- If foreign objects are dropped into the printer, immediately turn it off, unplug the AC adapter from the electrical outlet, remove the battery, and then contact the sales representative where it was purchased. If you continue to operate the printer, a fire, an electric shock or damage may result.



- Do not operate, recharge or store the printer in the following locations, otherwise leaks, fire, electric shock or damage may result.
 - Near water, such as in a bathroom or near a water heater, or in an extremely humid location
 - In a location where it is exposed to rain or moisture
 - In an extremely dusty location
 - In an extremely hot location, such as near naked flames, heaters, or direct sunlight
 - In a closed car under a hot sun
 - In a location where condensation may form

⚠ Warning

  	<ul style="list-style-type: none"> Liquid leaking from the printer may indicate that the battery is damaged. Immediately move the printer away from flames, otherwise a fire may result. In addition, do not touch the leaking liquid. This liquid may damage your eyes or skin if brought in contact with them. If the liquid makes contact with your eyes, immediately rinse them with water and consult a medical professional. If the liquid makes contact with your skin or clothing, immediately rinse them with water.
   	<ul style="list-style-type: none"> Do not try to disassemble or alter this printer, otherwise fire, electric shock or damage may result. For servicing, adjustments or repairs, contact the sales representative where it was purchased. (The warranty does not cover repairs for damage resulting from disassembly or alterations performed by the user.)
   	<ul style="list-style-type: none"> The printer may be damaged if it is dropped or subjected to strong shocks, for example, from being stepped on. If you continue to operate a damaged printer, a fire or an electric shock may result. If the printer is damaged, immediately turn it off, unplug the AC adapter from the electrical outlet, and then contact the sales representative where it was purchased.
   	<ul style="list-style-type: none"> If the printer operates abnormally, for example, if it produces smoke, or an unusual odour/noise, stop using it, otherwise fire, electric shock or damage may result. Immediately turn off the printer, unplug the AC adapter from the electrical outlet, remove the battery, and then contact the sales representative where it was purchased for repairs.

Warning



- If the printer is not fully charged after the specified amount of time has passed, stop charging it, otherwise fire, electric shock or damage may result. Contact the sales representative where it was purchased.

Caution























- Keep the printer out of the reach of children, particularly infants, otherwise injuries may result.
- Stop operating the printer if it leaks or becomes discolored, deformed or otherwise defective.
- Do not leave the printer in a closed car under a hot sun, otherwise it may be damaged.

Others


















- The battery is slightly charged so that the operation of the printer can be verified; however, the battery should be fully charged with the AC adapter before the printer is used.
- If the printer will not be used for a long period of time, remove the rechargeable battery from the printer, and then store it in a location where it is not exposed to high humidity, high temperatures (A temperature between 15 and 25 °C/ 59 °F and 77 °F and 40% to 60% humidity is recommended.) or static electricity. In order to maintain the efficiency and life of the rechargeable battery, recharge it at least every six months.
- If this printer can only be used for a short period of time, even though it is fully charged, the battery may have reached the end of its service life. Replace the rechargeable battery with a new one.
- In order to maintain the efficiency and life of the rechargeable battery, remove the AC adapter from the printer when charging is completed.

Concerning the AC adapter

 Warning	
  	<ul style="list-style-type: none"> • Only use the AC adapter designed specifically for this printer, otherwise fire, electric shock or damage may result.
  	<ul style="list-style-type: none"> • Do not plug the printer into an electrical outlet other than a household outlet (AC 110 V - 120 V), otherwise fire, electric shock or damage may result.
 	<ul style="list-style-type: none"> • Do not touch the AC adapter or the power supply plug with wet hands, otherwise electric shock may occur.
  	<ul style="list-style-type: none"> • Do not try to disassemble, alter or repair the AC adapter, otherwise fire, electric shock or injuries may result. For servicing, adjustments or repairs, contact the sales representative where the printer was purchased.
  	<ul style="list-style-type: none"> • Do not spill water or drinks on the AC adapter. In addition, do not use the adapter in a location where it may get wet, otherwise combustion or electric shock may result.
 	<ul style="list-style-type: none"> • If the power supply plug becomes dirty, for example, with dust, unplug it from the electrical outlet, and then wipe it with a dry cloth. If you continue to use a dirty power supply plug, a fire may result.
  	<ul style="list-style-type: none"> • When unplugging the power supply cord, do not pull on the cord, otherwise fire or electric shock may result.

 **Warning**

  	<ul style="list-style-type: none"> Do not insert foreign objects into the terminals of the AC adapter, otherwise burns or electric shock may result.
 	<ul style="list-style-type: none"> Incorrectly using the AC adapter may result in fire or electric shock. Therefore, observe the following precautions. <ul style="list-style-type: none"> <input type="radio"/> Do not damage it. <input type="radio"/> Do not modify it. <input type="radio"/> Do not twist it. <input type="radio"/> Do not severely bend it. <input type="radio"/> Do not pull on it. <input type="radio"/> Do not place objects on it. <input type="radio"/> Do not subject it to heat. <input type="radio"/> Do not bind it. <input type="radio"/> Do not allow it to be pinched.
	<ul style="list-style-type: none"> If the AC adapter is damaged, request a new one from the sales representative where the printer was purchased.
	<ul style="list-style-type: none"> Keep the AC adapter out of the reach of children, particularly infants, otherwise injuries may result.
	<ul style="list-style-type: none"> Do not use the AC adapter near microwave ovens, otherwise damage may result.
  	<ul style="list-style-type: none"> Do not use the AC adapter near flames or heaters. If the covering of the AC adapter cord melts, fire or electric shock may result.
 	<ul style="list-style-type: none"> Before maintaining the printer, for example, when cleaning it, unplug the AC adapter from the electrical outlet, otherwise electric shock may result.
	<ul style="list-style-type: none"> If the printer is not to be used for a long period of time, be sure to unplug the AC adapter from the unit and the electrical outlet for safety reasons.
	<ul style="list-style-type: none"> Do not wind the AC adapter cable around the adapter or bend the cable, otherwise the cable may be damaged.

Operating precautions

- Operate this printer in an environment that meets the following requirements.
 - Temperature: 0 - 40 °C/32 - 104 °F,
When charging: 5 - 40 °C/41 - 104 °F
 - Humidity: 20 - 80 %
(Maximum wet-bulb temperature: 27 °C/81 °F)
 - Do not operate or store this printer in a location exposed to extremely high or extremely low temperatures, extreme humidity, extreme dust, or extreme vibrations, otherwise the printer may be damaged or malfunction.
 - If condensation occurs, allow it to dry naturally before operating the printer.
 - Due to the characteristics of batteries, even though the battery is fully charged, using them in locations at low temperatures greatly reduces the number of prints possible.
- The AC adapter case and the printer may become warm while the printer is charging or printing. This does not indicate a malfunction.
- When the printer is not used, unplug the power supply plug from the electrical outlet.
- Do not block the paper output slot.
- If the AC adapter connector or USB port becomes dirty, it could result in faulty connections or charging. Periodically clean the connector and port with a dry cotton swab.
- When cleaning the printer, use a soft, dry cloth. Do not use benzene or paint thinners, otherwise the printer may become discolored or deformed. (→ Refer to page 36.)
- When using optional accessories, use them as described in their instruction manuals.
- Use thermal paper with this printer. If printed text is written over or stamped, the text may disappear or become discolored. In addition, it may take some time for the ink to dry.
- Do not touch the printer with wet hands.

- Do not press the power button with a sharp object such as a pen, otherwise the power button may become indented or the machine may be damaged.
- Do not carry around the printer with the USB cable or power cable connected, otherwise the cable connectors may be damaged.
- Do not leave paper cassette cover open when storing as this may cause paper misfeeding or a paper sensor error.
- Concerning the paper cassette and the handling of the paper
 - Store the paper cassette away from extremely hot, humid or dusty locations and out of direct sunlight, otherwise the paper may become discolored or a malfunction may result.
 - Be sure to close the lid of the paper cassette before storing it, otherwise the paper may become discolored.
 - Do not leave paper cassettes in a closed car under a hot sun, otherwise they may become discolored.
 - After opening the package of paper cassettes, close it again as soon as possible, otherwise the paper may become discolored.
 - Do not use paper that has been exposed to condensation.
 - Do not try to use paper transferred from one paper cassette to another, otherwise a malfunction may result.
 - Do not try to reuse paper that has already passed through the printer, otherwise a malfunction may result.
 - Do not open the paper cassette cover or pull out or push in the paper while the printer is printing, otherwise a malfunction may result.
 - Do not use folded, curled, cut, wet or damp paper, otherwise a paper misfeed or a malfunction may result.
 - Do not touch paper cassettes or paper with wet hands, otherwise a malfunction may result.
 - Do not prepare or replace the paper cassette in an extremely humid location, otherwise a malfunction may result.

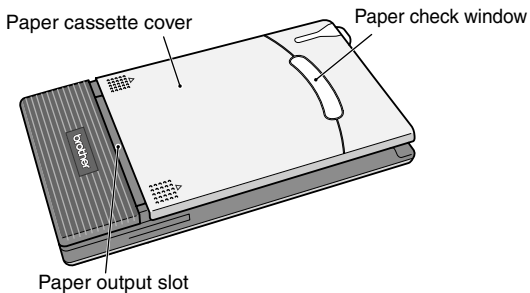
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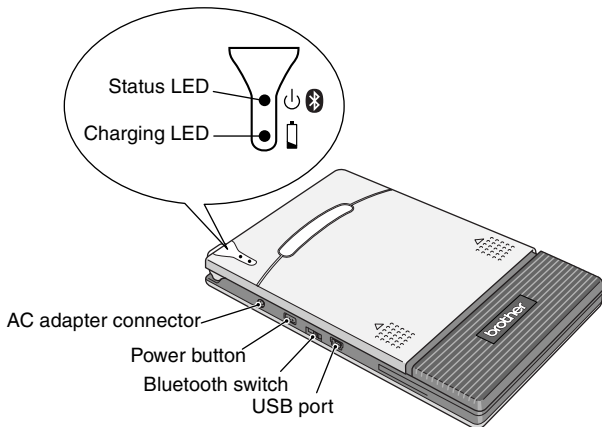
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1 General Description

Right side



Left side



Status LED

A blue or green LED indicates the printer is operating correctly, while a red LED indicates an error has occurred.



When the status LED is blue, it is possible to receive data using both the Bluetooth and USB interfaces. However, once a connection is established using one of the interfaces, data cannot be received using the other interface until printing is complete.

LED color	LED status	Printer status
Blue	Constantly lit	Waiting to receive data using Bluetooth or USB
	Flashing	Receiving data using Bluetooth
	Flashing in long intervals	Sleep mode (power-saving standby condition, possible only when receiving data using Bluetooth)
Green	Constantly lit	Waiting to receive data using USB
	Flashing	Receiving data using USB
Red	Flashing	An error has occurred. * Refer to (1) on the next page.
	Constantly lit	A system error has occurred. * Refer to (2) on the next page.

(1) If an error has occurred (indicated by a red flashing Status LED), check for the following causes.

Error description	Remedy
There is no paper cassette installed. The paper cassette is installed facing the wrong direction. There is no more paper.	Correctly install a paper cassette containing paper. →Refer to pages 15 to 17.
A paper misfeed occurred.	Remove the misfed paper. →Refer to page 19.
A transmission error occurred.	Check the transmission status. →Refer to page 34.
An overheat error occurred.	The inside of the printer has started to overheat. Wait until it cools.

(2) If a system error has occurred (indicated by a constant red Status LED):

The printer may be damaged. Contact the sales representative where it was purchased.

2 Getting Started

Installing the battery

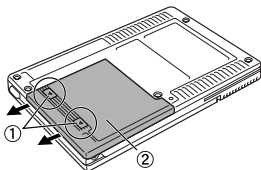
⚠ Danger

- ⊘ • Only use the rechargeable battery (BT-100) that is designed for this printer. Otherwise there will be a risk for fire or serious damage.
- ⚠ • When handling the rechargeable battery, refer to and observe the precautions on pages v to ix.

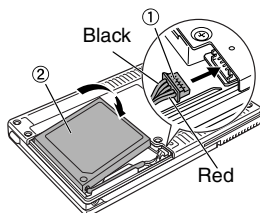


- DO NOT take off the black plastic that covers the battery.
- The battery connector should not be frequently unplugged and reconnected, otherwise it may become damaged or the battery cord may break. The battery should only be removed when replacing it at the end of its service life, or when the printer will not be used for a long period of time.

- 1** Press the area indicated ① on the battery cover ② and slide it off the MW-145BT.

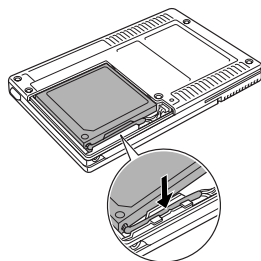


- 2** Insert the connector ① of the battery ② in the direction shown right.

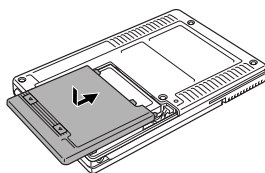


- Insert the connector fully, without using excessive force.
- Be sure you insert the connector in the correct orientation, otherwise it may be damaged.

- 3** Fit the battery cord into the groove as shown in the illustration.



- 4** Install the battery cover by sliding it onto the back of the MW-145BT.



- Be careful that you do not catch the battery connector cord.

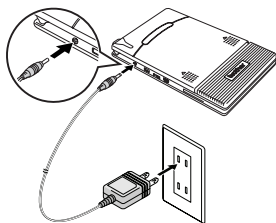
Charging

Use the AC adapter designed specifically for this printer to charge the battery.

After purchasing this printer, be sure to charge the battery fully before using it.

- 1 Plug the AC adapter cable into the printer.

- 2 Plug the AC adapter plug into a household electrical outlet (AC 110 V - 120 V). Charging of the lithium ion battery automatically begins.



- The orange charging LED is lit.
- When charging is finished, the charging LED goes off.



- It takes approximately three hours for the battery to be recharged from completely empty to fully charged (with the printer turned off).
- Recharge the battery in an environment with a temperature between 5 °C and 40 °C/41 and 104 °F. (The battery will not recharge if the ambient temperature is outside of this range.)

- 3 After charging is finished, disconnect the AC adapter.



The MW-145BT cannot be operated solely with the AC adapter. The rechargeable battery must be installed.

■ Charging LED (Orange)

With the charging LED, the status of the power supply can be checked.

The charging LED has two functions.



(1) Checking the charging status (when the AC adapter is connected)

LED status	Printer status
Constantly lit	Charging
Off	Finished charging
Flashing	Malfunctioning battery

(2) Checking the battery level (while running off the lithium ion battery)

LED status	Battery level
Off	More than 60% charged
Flashes once	Less than 60% charged
Flashes twice	Less than 30% charged
Continues to flash 3 times	Almost empty



- Please try to discharge the battery completely before recharging it, to increase battery lifetime.
- If the charging LED flashes while the printer is printing, immediately connect the AC adapter and charge the battery. The printer may stop printing.
- Due to the characteristics of batteries, even though the battery is fully charged, using them in locations at low temperatures greatly reduces the number of prints possible.
- In order to maintain the efficiency and life of the rechargeable battery, remove the AC adapter from the printer when charging is completed.
- In order to maintain the efficiency and life of the rechargeable battery, do not place or use the printer in direct sunlight, near heaters or other hot appliances, in any location exposed to extremely high temperatures (e.g. on the dashboard or in the back of your car).



- This printer is powered with a rechargeable lithium ion battery. If this printer can only be used for a short period of time, even though it is fully charged, the battery may have reached the end of its service life. Replace the rechargeable lithium ion battery with a new one.
- In order to protect the circuitry, the battery cannot be charged if the unit is in a location exposed to extremely high or extremely low temperatures.
- Do not wind the AC adapter cable around the adapter or bend the cable, otherwise the cable may be damaged.



Replacing the battery

Danger



- Only use the rechargeable battery (BT-100) that is designed for this printer. Otherwise there will be a risk for fire or serious damage.

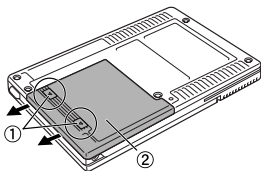


- When handling the rechargeable battery, refer to and observe the precautions on pages v to ix.



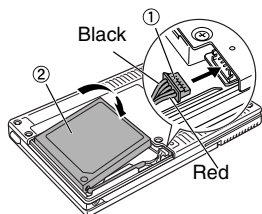
- DO NOT take off the black plastic that covers the battery.
- The battery connector should not be frequently unplugged and reconnected, otherwise it may become damaged or the battery cord may break. The battery should only be removed when replacing it at the end of its service life, or when the printer will not be used for a long period of time.

- 1** Press the area indicated ① on the battery cover ② and slide it off the MW-145BT.



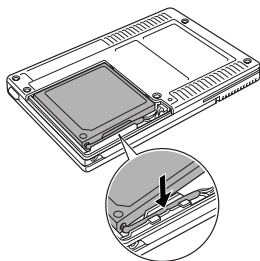
- 2** Remove old battery and disconnect the battery cord connection.

- 3** Insert the connector ① of the battery ② in the direction shown right.

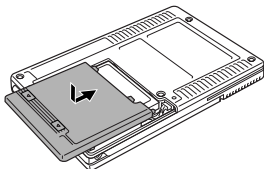


- Fully insert the connectors. However, do not apply extreme force.
- Be sure to insert the connectors in the correct orientation, otherwise they may be damaged.

- 4** Fit the battery cord into the groove as shown in the illustration.



- 5** Install the battery cover by sliding it onto the back of the MW-145BT.



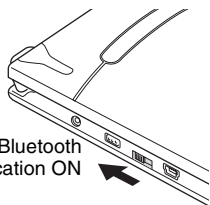
- Be careful that you do not catch the battery connector cord.
- Be sure to dispose of the expired battery as directed by local regulations for the disposal of lithium ion battery.
- When handling the rechargeable battery, refer to and observe the precautions on pages v to ix.

Using Bluetooth

Using the Bluetooth switch, select whether or not to use Bluetooth communication.

→ Slide the switch to ON to use Bluetooth communication.

Bluetooth communication ON



Printing can still be carried out using USB communication even if “Bluetooth communication ON” is selected (except during the sleep mode). (→ For details on software, refer to the Software User's Guide.)



■ Wireless connections are used in a wide range of fields. Therefore, in order to prevent malfunctions with the following, Bluetooth should be turned off.

- Hospitals
- Aircraft
- Gasoline/Petrol stations
- Fire alarms

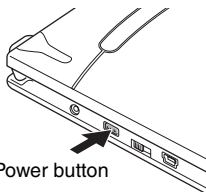
■ Bluetooth connectivity varies greatly according to its operating environment. If a good connection cannot be achieved, try connecting again. Connections are difficult to achieve in the following locations.

- Near electronic equipment
- Near broadcasting stations or wireless base stations
- Near wireless LAN (IEEE 802.11)

■ Equipment using Bluetooth technology may require a few seconds until the Bluetooth functionality can be used after it is turned on. This length of time differs depending on the equipment. (This unit requires a maximum of 8 seconds.)

Turning on/off the printer

Press and hold the power button for a short while, until the green or blue status LED illuminates.



- When the printer is turned on, the status LED is:
- Green (if Bluetooth is switched off)
 - Blue (if Bluetooth is switched on)



- In order to prevent this printer from accidentally being turned on, it will not come on if the power button is lightly pressed.

- In order to conserve the lithium ion battery during use, follow the operations below.

(1) Auto sleep (with Bluetooth switched on):

If there is no operation or data transmission for a set length of time, the printer automatically enters sleep mode. The length of time [auto sleep time] until the printer automatically enters the sleep mode can be specified using the Utility software. [→ Refer to the Software User's Guide.]

(2) Auto power-off (with Bluetooth switched off)

If there is no operation or data transmission for a set length of time, the printer automatically turns off. The length of time [auto power-off time] until the printer automatically powers off can be specified using the Utility software. [→ Refer to the Software User's Guide.]

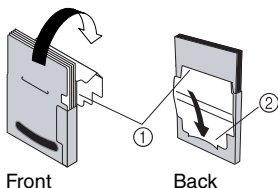
Preparing the paper cassette

Use only the paper cassette designed exclusively for this printer. Use of any other paper will result in damage.

Prepare the paper cassette before installing it into the printer.

- Be careful not to drop any paper while the paper cassette is being prepared.

- 1** **Firmly** fold the lid back along the fold (①).



Make sure that the lid is firmly folded, otherwise a paper misfeed may result.

- 2** Insert the tab on the lid into the slit (②) at the back of the cassette.

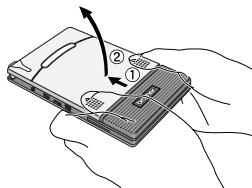
**■ Handling the paper cassette**

- This printer determines the paper type depending on the installed paper cassette, then automatically selects the settings appropriate for that type of paper. Do not transfer paper to a different paper cassette.
- Do not try to reuse paper that has already passed through the printer.
- The paper cassette is made of cardboard. After all of the paper is used, dispose of the cassette according to local regulations.
- Do not use a torn or deformed paper cassette, otherwise damage may result.
- When storing the paper cassette, be sure to close its lid.
- Use the paper as quickly as possible, otherwise it may become discolored.

Installing the paper cassette

- 1 Slide the paper cassette cover (on the top of the printer) in the direction shown in ①.

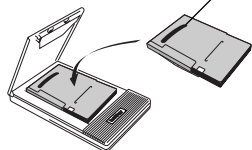
→ The paper cassette cover will open in the direction indicated by ②.



- 2 Insert the paper cassette.

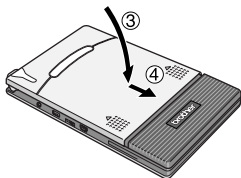
The paper type indication on the paper cassette should face up. The end of the paper should point toward you.

Paper type indication



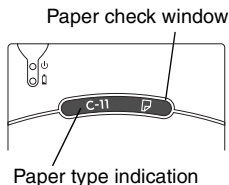
- When loading the paper cassette, make sure that it is correctly aligned and that the end of the paper is not folded, otherwise a paper misfeed may result.
- Before replacing the paper cassette, unplug the AC adapter and USB cable.

- 3** Close the paper cassette cover in the direction shown in ③.

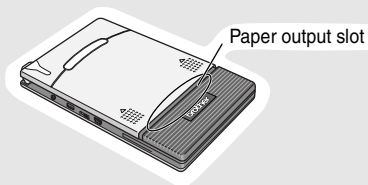


- 4** Slide the paper cassette cover in the direction shown in ④.

If the paper cassette is correctly loaded, the paper type indication on the cassette can be seen through the paper check window, and the paper cassette cover will be locked.



- Do not remove the paper from the paper cassette and load it directly into the printer.
- To change the paper type, install a different paper cassette.
- While the printer is printing, do not apply pressure to the paper output slot or place anything on the printer.

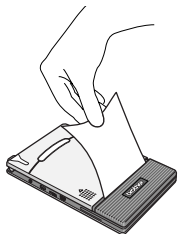


If a paper misfeed occurs

Remove the paper according to the following procedure.

■ If the paper has been fed out of the paper output slot:

Pull the paper out from the paper output slot.



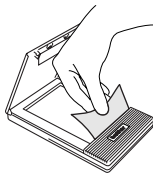
When pulling out the paper, be sure not to tear it.

■ If the paper has not been fed out of the paper output slot:

1 Open the paper cassette cover.

2 Remove the paper cassette.

3 Pull out the misfed paper.



When pulling out the paper, be sure not to tear it.



Pulling out the paper will not have adverse effects on the printer.

3 Operating Environment

This mobile printer can print data from a Windows[®] PC (a computer running Windows[®] operating system or a device or portable telephone running Windows Mobile[®]).

In order to use this printer, make sure that your system configuration meets the following requirements.

■ Windows[®] PC

Processor	Pentium 266 MHz or higher recommended
Operating system	Microsoft [®] Windows [®] 2000 Professional Windows [®] XP/Windows Vista [®]
Interface	Compliant with USB Ver.2.0 (Full speed) Compliant with Bluetooth ver. 2.1 + EDR class 2 serial port profile supported
Memory	Windows [®] 2000 Professional/XP: More than 128 MB, Windows Vista [®] : More than 512 MB
Hard disk free space	Minimum 70 MB

A processor and memory greater than that recommended for each operating system is required.

■ Windows Mobile[®] device

Processor	ARM
Operating system	Microsoft [®] Windows Mobile [®] 5.0 Microsoft [®] Windows Mobile [®] 6 Professional/Classic Microsoft [®] Windows Mobile [®] 6 Standard
Interface	Compliant with USB Ver.2.0 (Full speed) Compliant with Bluetooth ver. 2.1 + EDR class 2 serial port profile supported

When installing the software, a Windows[®] PC that can connect to the Windows Mobile[®] device will be needed.

4 Communication Using Bluetooth Technology

■ Precautions for printing using Bluetooth

Before installing the printer driver for MW-145BT, install the Bluetooth connection software on the Windows® PC.



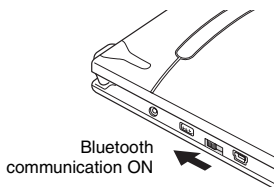
The following instructions show you the basic procedures to make a Bluetooth connection. For details, refer to the instruction manual for your Bluetooth device.

Establishing a Bluetooth connection

The following procedure describes how to specify the various basic settings required for this printer to communicate using Bluetooth technology with a Windows® PC or a Windows Mobile® device. For details, refer to the manual for the Bluetooth device.

- 1 Slide the Bluetooth switch to turn on Bluetooth.

→ The status LED will be blue.



- 2** Run the Bluetooth connection software on the Windows[®] PC or Windows Mobile[®] device.
- 3** Use the Bluetooth connection software to search for Bluetooth devices.
 - “MW-145BTxxxx” is detected. “xxxx” is the last 4 digits of its serial number (PIN code).
- 4** Select your printer from the list of displayed.
 - The screen to enter the “PIN code” (or “Pass key”) appears only the first time that the computer running Windows[®] PC or Windows Mobile[®] device is connected to the printer.



Depending on the Bluetooth device, you may be requested to re-enter the PIN code with subsequent connections.

- 5** Enter the “PIN code” or “Pass key” (at the time of shipment, the code is set to the last four digits of the serial number of the printer) and click/tap the Enter button.
 - The Bluetooth connection software registers your printer as a paired device.
- 6** Use the Bluetooth connection software to select the serial port as the method for connecting to this printer.



Note the COM port number when it appears (The COM port number may be required when printing depending on the type of the computer or the Windows Mobile[®] device).

5 Installation on a Windows® PC


In order to use this printer to print data from a Windows® PC, the included software must be installed on the computer.

Installing the software



Do not connect the printer to the computer until you are instructed to do so.

1 Insert the enclosed CD-ROM into the CD-ROM drive of the Windows® PC.

- The installer automatically starts up.
- If the installer does not automatically start up, double-click  on the CD-ROM.

2 Select the desired language and click the top button - PC (Windows) software.

- A dialog box appears, allowing you to select what to install.



3 Click the button for the software that you wish to install.

Here, click the button for the Standard Installation.

→ Standard Installation begins.



■ Software packages that are installed by Standard Installation

Software	Description
P-touch Editor 5.0	P-touch Editor 5.0
	P-touch Library 2.1
	P-touch Transfer Manager 2.1
	P-touch Editor 5.0 Add-Ins Utility
Printer driver	Printer driver (and driver utility)

4 Follow the instructions that appear, to finish the installation.

Next, the printer driver is installed.

The installation procedure for the printer driver differs depending on the operating system being used.

Select “USB” or “Bluetooth communication” and then click the OK button.

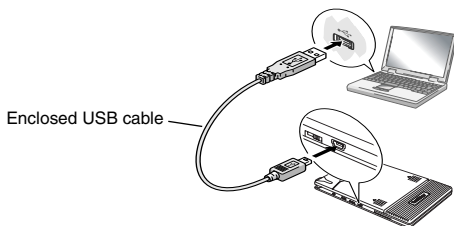
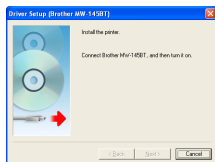


For USB → Go directly to the procedure “For USB connection” on page 25.

For Bluetooth → Go directly to the procedure “For Bluetooth connection” on page 26.

■ For USB connection

- 5** When the message “Connect Brother MW-145BT, and then turn it on.” appears, use the enclosed USB cable to connect this printer to the Windows® PC, and then turn on the printer.



The printer driver is installed.

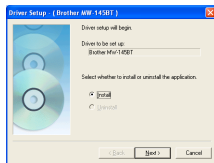
Finish the installation according to the instructions that appear on the screen.

→ For details on software, refer to the Software User's Guide.

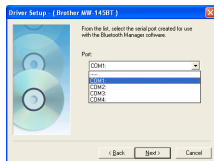
■ For Bluetooth connection

5 Select the “Install”, and then click the next button.

→ Printer driver installation is started.



6 Select the COM port number you are using for the Bluetooth connection, and then click the next button.



→ Follow the instructions on the screen, and finish installing.
For details, refer to the manual for the Bluetooth device.

→ For details on software, refer to the Software User's Guide.

Uninstalling the software and printer driver

■ Uninstalling the P-touch Editor

The uninstall procedure for the P-touch Editor differs depending on the operating system being used.

1 ▶ For Windows Vista®

From “Control Panel”, go to “Programs” and open “Uninstall a program”.

→ The “Uninstall or change a program” dialog appears.

▶ For Windows® 2000/XP

From “Control Panel”, go to “Add/Remove Programs” (2000)/“Add or Remove Programs” (XP).

→ The “Add or Remove Programs” dialog appears.

2 ▶ For Windows Vista®

Choose “Brother P-touch Editor 5.0”, and click “Uninstall/Change”.

▶ For Windows® 2000/XP

Choose “Brother P-touch Editor 5.0”, and click “Change/Remove”.

3 Click “OK”.

→ The uninstall operation starts. After the software is removed from your computer, the “Maintenance Complete” dialog box appears.

4 Close the “Add/Remove Programs” (2000)/“Add or Remove Programs” (XP)/“Programs and Features” (Windows Vista®) dialog.

→ P-touch Editor has been uninstalled.

■ Uninstalling the printer driver

1 Turn off the Brother MW-145BT.

2 ▶ For Windows Vista®

From “Control Panel”, go to “Hardware and Sound” and open “Printers”.

▶ For Windows® 2000/XP

From “Control Panel”, open “Printers” (2000)/ “Printers and Faxes (XP)” window.



For details, see Windows® Help.

3 ▶ For Windows Vista®

Choose “Brother MW-145BT”, right click on the icon, and then click “Delete”.

▶ For Windows® 2000/XP

Choose “Brother MW-145BT”, and click “File” - “Delete”.

4 ▶ For Windows Vista®

In the “Printers” window, right click and select “Run as administrator” - “Server Properties...”.

If the authorization confirmation dialog appears, click “Continue”.

If the “User Account Control” dialog appears, enter the password and click “OK”.

▶ For Windows® 2000/XP

Go to “File” - “Server Properties”.

5 ▶ For Windows Vista®

Click the “Drivers” tab and choose “Brother MW-145BT”. Then, click “Remove...”.

▶ For Windows® 2000/XP

Click the “Drivers” tab and choose “Brother MW-145BT”. Then, click “Remove...”.

6 ▶ For Windows Vista®

Choose “Remove driver only”. and click “OK”.

▶ For Windows® 2000/XP

Now, go to step 7.

7 Close the “Print Server Properties” window.

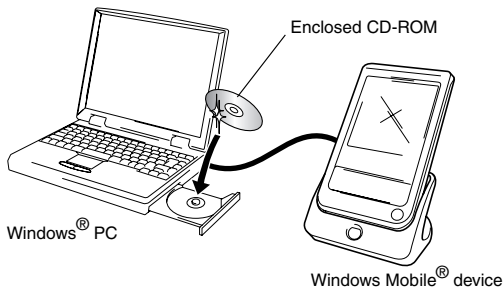
→ The printer driver has been uninstalled.

6 Installation on a Windows Mobile® device

In order to use this printer to print data from a Windows Mobile® device (Windows Mobile® device), a Windows® PC must be used to install the software onto the Windows Mobile® device.

- For details on ActiveSync®, Bluetooth, or on connecting the Windows Mobile® device to a Windows® PC, refer to the instruction manual for the Windows Mobile® device.

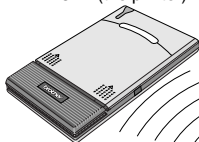
■ Installing the software onto a Windows Mobile® device



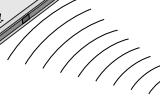
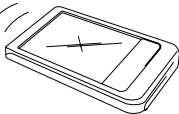
■ **Connecting the printer to the Windows Mobile® device using Bluetooth/Printing**

(→ Refer to page 21)

MW-145BT (the printer)



Windows Mobile® device




Installing Brother mobile printing software



The Brother mobile printing software is only available in English, German, French, Spanish and Italian.

- 1** Insert the enclosed CD-ROM into the CD-ROM drive of the Windows® PC.

→ If the installer does not automatically start up, double-click  on the CD-ROM.

- 2** Select the desired language and click the second button (Windows mobile printing software).

→ The “MPRINT Setup” dialog box appears.



- 3** Click the button for the operating system that you are using.

→ The “InstallShield Wizard” starts.



Continue the installation according to the instructions that appear on the screen.

→ For details on software, refer to the Software User's Guide.

■ Software packages that are installed

Software	Description
Common modules (The "MPrintUtility" will be installed at the same time.)	Basic components of the software (The settings for this printer can be changed.)
Note Print	Prints memos saved with Notes
Schedule Print	Prints schedules saved with Schedule
Task Print	Prints tasks and appointments saved with Tasks
Contact Print	Prints names, addresses and telephone numbers saved with Contact
Clipboard Print	Prints images and text copied to the Clipboard
Screen Capture Print	Prints the currently displayed screen of the Pocket PC
Image File Print	Prints saved image files
E-mail Print	Prints saved e-mails
Help files	Operating guide that can be viewed on the screen of the Pocket PC

- * When the Brother mobile printing software for Windows Mobile 6 Standard is installed, Note Print, Clipboard Print and Screen Capture Print cannot be used.

Uninstalling the software

Uninstall (remove) the software using the Windows Mobile® device functions. For details on uninstalling the software, refer to the instruction manual for the Windows Mobile® device.

Sending data from a Windows Mobile® device or Windows® PC

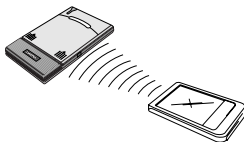
In order to use the printer to print data from a Windows Mobile® device or Windows® PC, the software must first be installed onto the Windows Mobile® device or the Windows® PC.

Refer to the Software Guide for details on installing the software onto the Windows® PC or the Windows Mobile® device. The necessary software and the printer driver (for the computer) are provided on the enclosed CD-ROM.

■ Communicating using Bluetooth

Windows® PC and the Windows Mobile® device with Bluetooth wireless technology can connect to the printer using Bluetooth technology.

- 1** Set the computer or the Windows Mobile® device so that Bluetooth communication will be valid and the printer will be recognized.



- 2** Start printing.

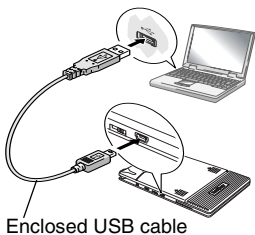
→ While data is being transmitted, the status LED flashes in blue.



- Communication with the printer using Bluetooth technology cannot be performed if the printer is already communicating with another Windows® PC using the USB connection.
- For more details, refer to the instruction manual for the Windows® PC or the Windows Mobile® device.

■ Sending data through a USB connection

Using the enclosed USB cable, this printer can be connected to a Windows® PC or a Windows Mobile® device supporting a USB host interface.



7 Appendix

Maintenance



Be sure to turn off the printer before cleaning it.

■ Cleaning the surface of the printer

Clean off any dust or other dirt from the printer by wiping it with a soft, dry cloth.

If the printer is extremely dirty, wipe it with a slightly damp cloth.

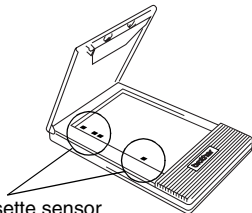


Do not use benzene or paint thinners, otherwise the printer may become discolored or deformed.

■ Cleaning the paper cassette sensor

If the paper cassette sensor is dirty, it will not be able to correctly detect the paper cassette, and a malfunction may result.

Clean the paper cassette sensor with a dry cotton swab.



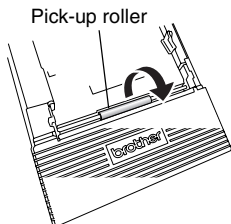
Paper cassette sensor

■ Cleaning the pick-up roller

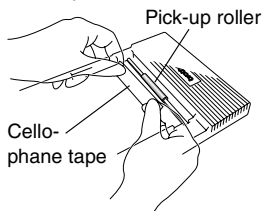
If the paper is not fed correctly, clean the pick-up roller.

1 Open the paper cassette cover.

2 Rotate the pick-up roller in the feed direction until it stops.



3 Attach a piece of cellophane tape to the rubber pick-up roller.



4 Remove the cellophane tape, and turn the pick-up roller 3 to 4 mm/0.1" to 0.2" in the opposite direction of the feed direction.

→ Any dirt on the pick-up roller is removed with the tape.

5 Repeat steps 3 and 4 until the pick-up roller is clean.

Troubleshooting

Symptoms & remedies

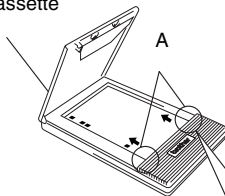
Problem	Solution
The printer cannot be turned on.	Press and hold the power button for a short while. (→ Refer to page 14.) The lithium ion battery needs recharging. (→ Refer to page 8.)
Although the print command was issued, the printer does not print.	<ul style="list-style-type: none"> ■ With a Bluetooth connection: <ul style="list-style-type: none"> • Make sure that a valid Bluetooth connection is available to the Windows[®] PC or the Windows Mobile[®] device. (→ Refer to the Software User's Guide.) • Make sure that another Windows[®] PC or the Windows Mobile[®] device is not transmitting data to the printer using the USB or Bluetooth. (→ Refer to page 34.) ■ With a USB connection: <ul style="list-style-type: none"> • Check that this printer is securely connected to the Windows[®] PC with the USB cable. (→ Refer to page 35.) • Make sure that another Windows[®] PC or the Windows Mobile[®] device is not transmitting data to the printer using Bluetooth. (→ Refer to page 34.)
There is a paper misfeed.	Remove the misfed paper. (→ Refer to page 19.)

Even though the misfed paper was removed, the error cannot be cancelled.	Some torn paper may still remain in the printer. Contact the sales representative where the printer was purchased.
An LED is lit or flashing.	Refer to the explanation in "Status LED" on pages 4 to 5.
The paper does not feed.	<ul style="list-style-type: none">• Make sure that the lid of the paper cassette is firmly folded along the fold (①). (→ Refer to page 15.)• Make sure that the paper cassette cover is securely closed. (→ Refer to page 18.)• The paper may be dirty. Pull out the first sheet from the back of the paper cassette, and then install the paper cassette again. (→ Refer to pages 15 to 18.)• Clean the pick-up roller. (→ Refer to page 37.)
The print is faint (light).	Make sure that the paper cassette cover is securely closed. (→ Refer to page 18.)

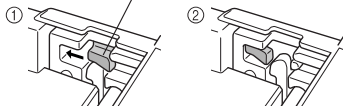
The paper cassette cover cannot be closed.

The parts indicated by "A" in the illustration below have become stuck. Refer to the illustration and use the tip of a ball-point pen to slide the indicated part in the direction of the arrow to free it.

Paper cassette cover



Push with the tip of a ball-point pen to slide it.



Free the part on the opposite side using the same method.

Product specifications

Printer specifications

Model name		MW-145BT
LEDs		Status LED (blue/green/red)
		Charging LED (orange)
Printing	Method	Direct thermal printing with a line thermal print head
	Resolution	300 dpi × 300 dpi
	Print speed	15 seconds/sheet (standard text on thermal paper with 7 % coverage at an ambient temperature of 25 °C/77 °F)
	No. of pages that can be printed	100 or more during continuous printing with a fully charged battery. Using Bluetooth sleep mode will affect this figure. (Based on 7% coverage at an ambient temperature of 25 °C/77 °F.) (Standard paper manufactured by Brother: A7 thermal)
Paper supply method		Brother paper cassette, automatic paper feed mechanism
Paper		Brother A7 cut paper (74 mm × 105 mm/2.9" × 4.1")
Print area		69 mm × 100 mm/2.7" × 3.9" (C51: 62 mm × 95 mm/2.4" × 3.7")
Power supply		AC adapter for charging, lithium ion battery 7.4 V
Interface		Complies with USB Ver. 2.0 (Full Speed) and compliant with Bluetooth ver. 2.1 + EDR class 2 serial port profile supported
Dimensions		100 mm (W) × 160 mm (D) × 17.5 mm (H)/ 3.9" (W) × 6.3" (D) × 0.7" (H) (not including projection)
Weight		300 g/0.66 lbs. (including the lithium ion battery and a paper cassette containing 50 sheets of plain thermal paper)

brother®