SHARP®

DIGITAL FULL COLOUR MULTIFUNCTIONAL SYSTEM

Installation Guide

PART 1
HARDWARE INSTALLATION

PART 2
SOFTWARE INSTALLATION

Keep this manual close at hand for reference whenever needed.

Thank you for purchasing this product. This manual explains how to set up your machine so that it is ready for use, including the procedures for installation of the machine, options, and software.

INSTALLATION PROCEDURE

To ensure safe use of the machine, read the Maintenance & Safety Guide.
The Maintenance & Safety Guide contains safety information and guidelines for the installation site.

If you are using the machine for the first time, be sure to read Part 1, "HARDWARE INSTALLATION" (page 1), and install the machine correctly.

After installing the machine, if you will be using the printer function or the scanner function, install the necessary software as explained in Part 2, "SOFTWARE INSTALLATION" (page 41).

To gain a general understanding of how to use the machine, read the Quick Start Guide.
The Quick Start Guide explains the basic procedures for operating the machine.

Illustrations and the operation panel shown in this manual

The peripheral devices are generally optional, however, some models include certain peripheral devices as standard equipment.

The explanations in this manual assume that 500-sheet paper feed units (total of four trays) are installed on the DX-C381.

For some functions and procedures, the explanations assume that devices other than the above are installed.

PART 1
HARDWARE INSTALLATION

TABLE OF CONTENTS

1 UNPACKING

2 INSTALLING OPTIONAL EQUIPMENT

3 INSTALLING THE ACCESSORIES

4 TURNING ON THE POWER AND ADJUSTING THE IMAGE QUALITY

1 UNPACKING

This section gives an overview of the setup procedures and explains preparations for setup such as removing the packaging.

SETUP PROCEDURE

When using the machine for the first time, setup the machine following the procedure shown below.

> ⚠ Be sure to set up the machine in the order shown below.
> If you do not follow this order, the machine may not operate correctly and a failure may result.

UNPACKING
- Open the carton, and make sure that all the accessories are supplied with the machine.
- Remove the protective materials.

⬇

INSTALLING OPTIONAL EQUIPMENT (page 8)
If you did not purchase this option, go to the next step.
- Install the 500-sheet paper feed unit. (Only if you purchased a 500-sheet paper feed unit.)
- Install the finisher. (Only if you purchased a finisher.)

⬇

INSTALLING THE ACCESSORIES (page 23)
- Install the developer cartridge.
- Install the operation manual pocket.
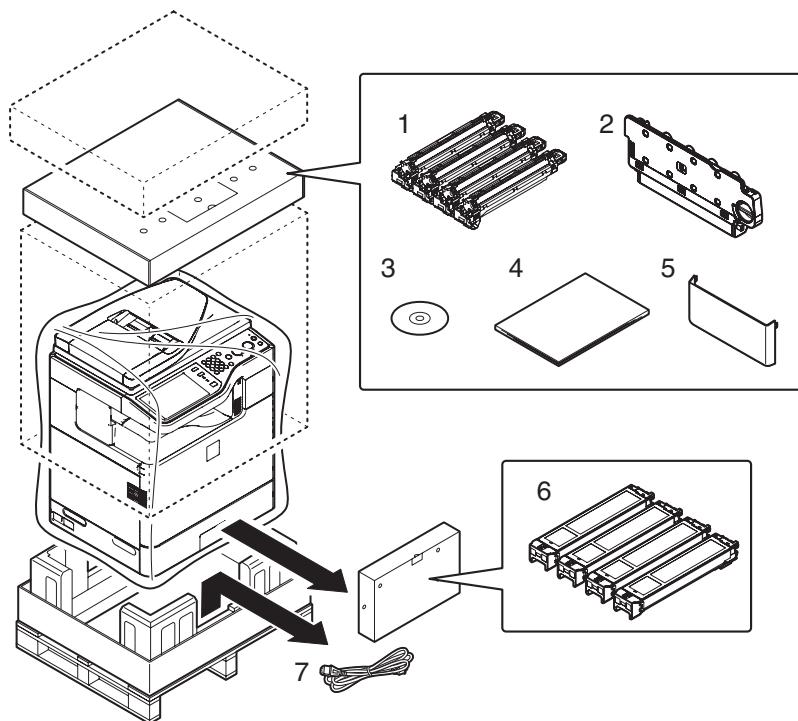- Load the paper in the paper tray.

⬇

TURNING ON THE POWER AND ADJUSTING THE IMAGE QUALITY (page 36)
- Plug the other end of the power cord into the nearest outlet and turn on the power.
- Install the toner cartridge.

CHECKING PACKED COMPONENTS AND ACCESSORIES

Open the carton and check if the following components and accessories are included.

| No.	Packed part names	Quantity	Check
1	Developer cartridge	1 piece for each colour	
2	Toner collection container	1	
3	Software CD-ROM	1	
4	Operation manual	1 set	
5	Operation manual pocket	1	
6	Toner cartridge	1 piece for each colour	
7	Power cord	1	

⚠ **Caution**

The main unit is extremely heavy, and thus two people are required to do the work. When lifting the main unit, grasp the handles on each side firmly.

Handles

Handles
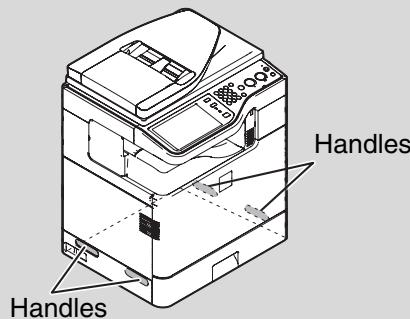
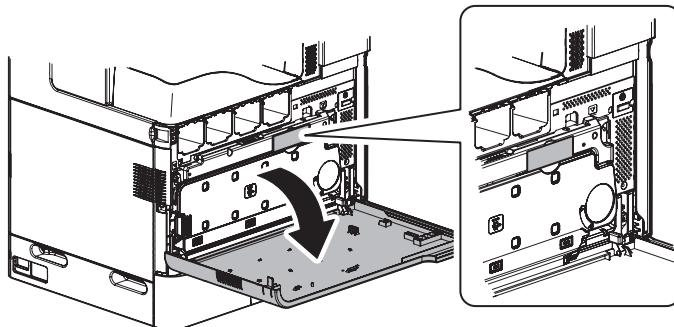# REMOVE THE PROTECTIVE MATERIALS

1 **Remove all pieces of tape shown in the illustration below.**
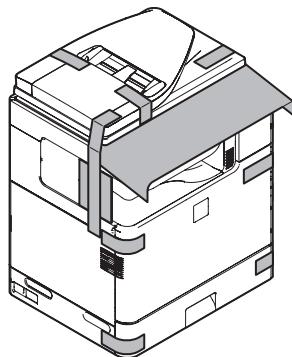
2 **Open the front cover and remove the fixing tape in the illustration below.**

After removing the fixing tape, close the front cover.

6

3 Gently pull the tray out until it stops and remove the fixing tape and protective material.

After removing the fixing tape and protective material, insert the tray slowly.
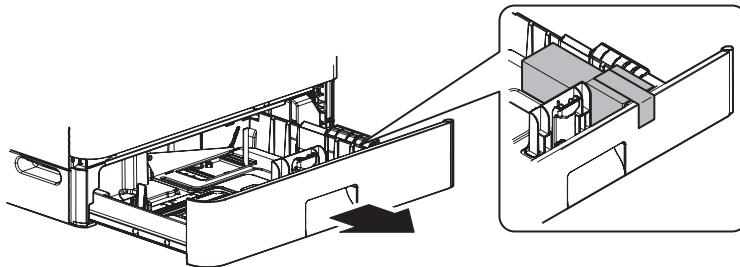
- If you purchased an optional paper feed unit or finisher:
  ☞ INSTALLING OPTIONAL EQUIPMENT (page 8)
- If you did not purchase any of the above options:
  ☞ INSTALLING THE ACCESSORIES (page 23)

7

2 INSTALLING OPTIONAL EQUIPMENT

This section explains how to install the optional paper feed units and finisher. If you purchased both a paper feed unit and a finisher, be sure to install the paper feed unit first.

- If you only purchased a finisher:
  ☞ INSTALLING THE FINISHER (page 17)
- If you did not purchase any of the above options:
 ☞ INSTALLING THE ACCESSORIES (page 23)

> ⚠ If you are already using the machine and have newly purchased an option, make sure that the LINE indicator and the DATA indicator on the operation panel are off, turn off the power, and remove the power plug from the outlet before starting installation work.
> ☞ TURNING OFF THE POWER OF THE MACHINE (page 40)

INSTALLING THE 500-SHEET PAPER FEED UNIT

If you purchased a 500-sheet paper feed unit, follow the steps below to install the unit on the main unit.
If you are installing multiple 500-sheet paper feed units, attach MX-CSX1 and MX-CSX2 units together before installing the units on the main unit. The order of unit installation should always be main unit, MX-CSX1, MX-CSX2.
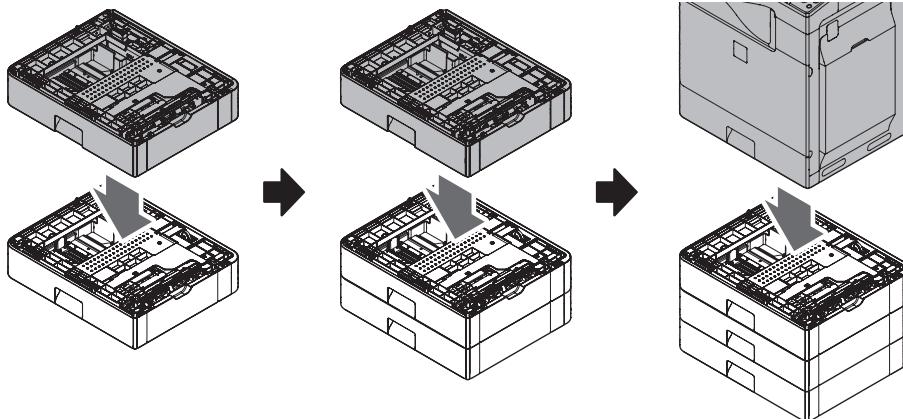

Main unit

MX-CSX1

MX-CSX2

MX-CSX2

8
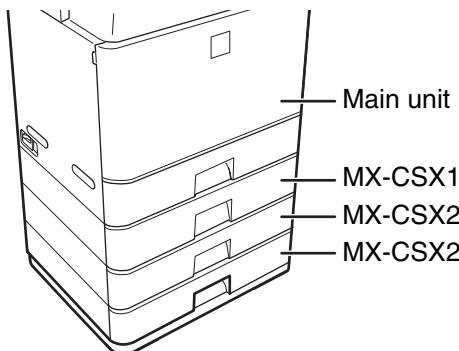
▶ Installing multiple paper feed units

(1) MX-CSX2 + MX-CSX2   (2) MX-CSX1 + (1)   (3) Main unit + (2)

☞ INSTALL THE MX-CSX1 OR THE MX-CSX2 TO THE MX-CSX2 (page 10)

☞ INSTALL THE MAIN UNIT TO THE MX-CSX1 (page 14)

⚠ • Only the MX-CSX1 can be installed directly under the main unit. Take care that you perform the installation steps in the correct order.
The paper trays of the main unit, MX-CSX1, and MX-CSX2 are not interchangeable. If a tray is installed in the wrong location, it will not be possible to correctly close the tray. After removing a tray from a unit, be sure to replace the tray in its correction location.

• When two or more optional paper feed units are installed, there is a danger that the machine will topple.
When installing two or more paper feed units, be sure to install the specified cabinet to prevent toppling before using the machine.

9

INSTALL THE MX-CSX1 OR THE MX-CSX2 TO THE MX-CSX2

In the example below, installation of the MX-CSX1 to the MX-CSX2 is described. Installation of the MX-CSX2 to another MX-CSX2 is performed similarly.

If you are installing one MX-CSX1 unit and two MX-CSX2 units (three units altogether) on the machine, first attach the MX-CSX2 units together as explained below, and then repeat the procedure to attach the MX-CSX1 unit to the MX-CSX2 units.

If you only purchased the MX-CSX1:
☞ INSTALL THE MAIN UNIT TO THE MX-CSX1 (page 14)

1 **Remove the 500-sheet paper feed unit from the polyethylene bag, and remove the fixing tape and the protective material.**
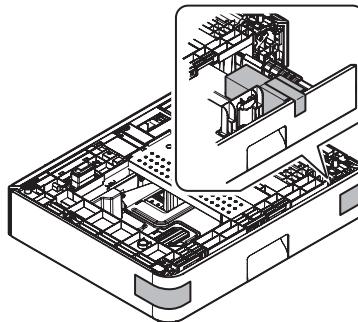
2 **Put the MX-CSX1 (or MX-CSX2) on the MX-CSX2 so that they fit together.**
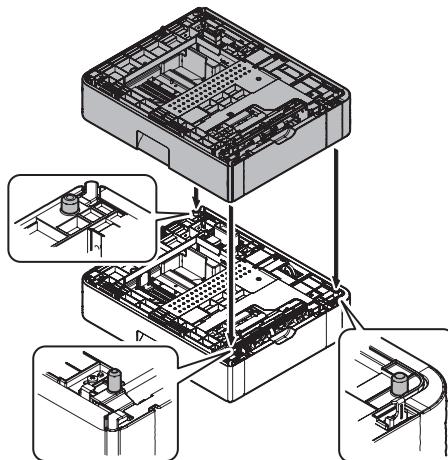
⚠ • The left cover is a sliding cover. When lifting the unit, take care that it does not slide.

• When installing a unit, take care that your fingers do not become pinched between units.

✎ When the MX-CSX1(or the upper MX-CSX2) is put on the MX-CSX2, it is automatically locked at the left and the right of the rear side.

11
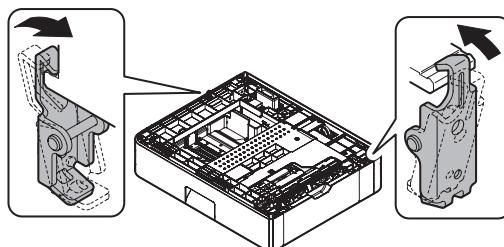
3 **Pull out the trays of the MX-CSX1 (or the upper MX-CSX2) and the MX-CSX2.**
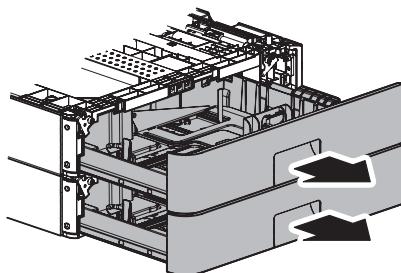
4 **Loosen the hand screws on the left and the right sides.**
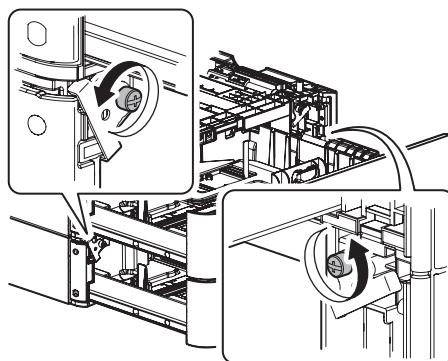
5 **Hang the fixing clasp on the MX-CSX1 (or the upper MX-CSX2), and tighten the hand screws.**

12
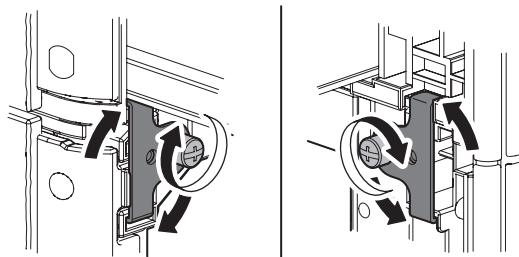
6 Push in and close the trays.
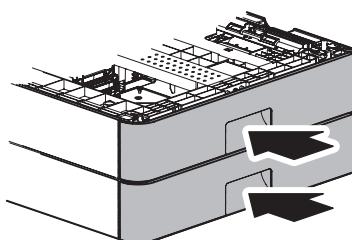
INSTALL THE MAIN UNIT TO THE MX-CSX1

1 **Put the main unit on the MX-CSX1 so that they fit together.**
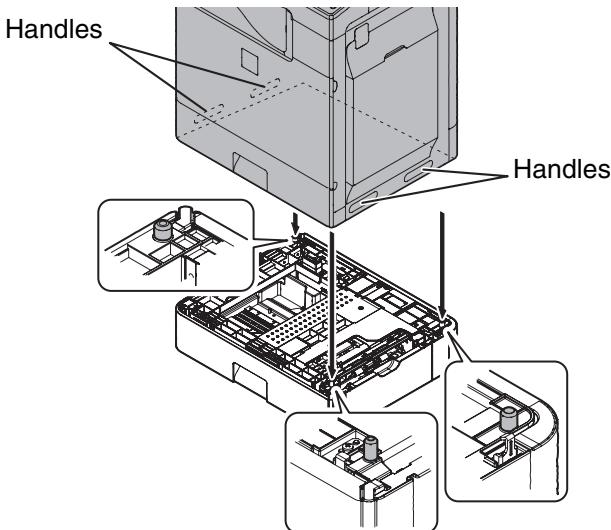
Handles

Handles

⚠ **Caution**

• **The main unit is extremely heavy, and thus two people are required to do the work. When lifting the main unit, grasp the handles on each side firmly.**

• **When installing a unit, take care that your fingers do not become pinched between units.**

When the main unit is put on the MX-CSX1, it is automatically locked at the left and the right of the rear side.
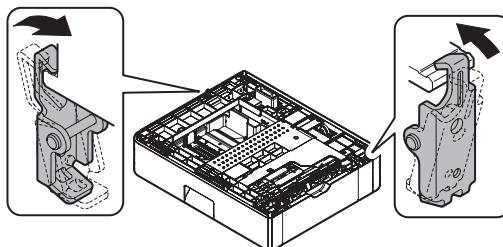
2 Pull out the tray of the main unit and that of the MX-CSX1.
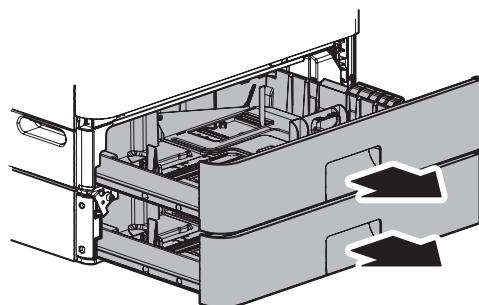
3 Loosen the hand screws on the left and the right sides.
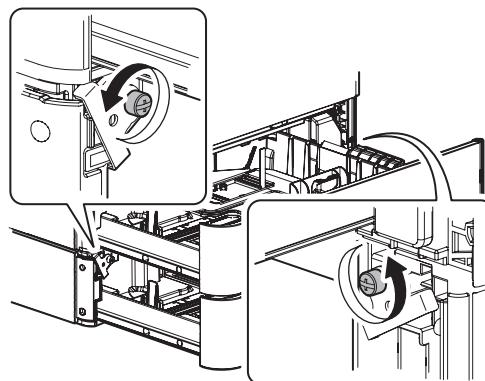
4 Hang the fixing clasp on the main unit, and tighten the hand screws.

15
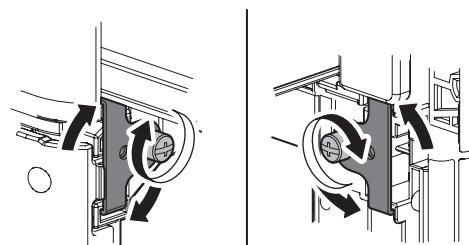
5 Push in and close the trays.
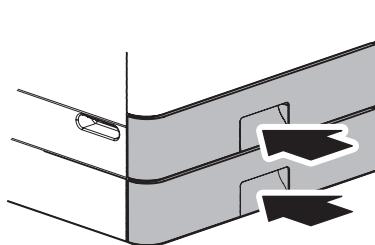
This completes the installation of the 500-sheet paper units.
- If you purchased a finisher:
  ☞ INSTALLING THE FINISHER (page 17)
- If you did not purchase any of the above options:
  ☞ INSTALLING THE ACCESSORIES (page 23)

INSTALLING THE FINISHER

If you purchased a finisher, follow the steps below to install the finisher on the machine.

1 **Remove the finisher from the polyethylene bag, and remove the fixing tape and the protective materials.**
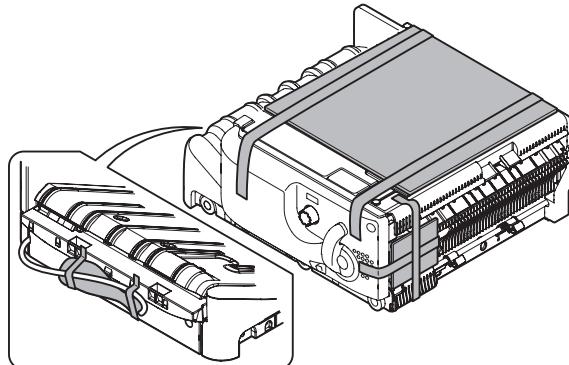
2 **Check the packed items.**
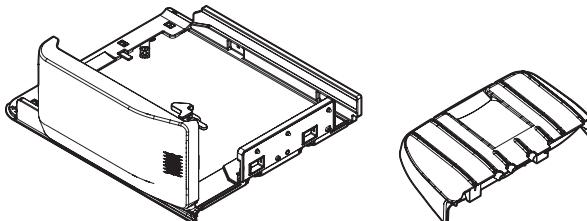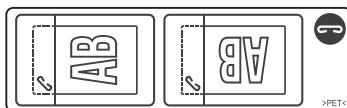
No.	Packed part names	Quantity	Check
1	Machine connection unit	1	
2	Paper exit tray	1	
3	Staple position label (For automatic document feeder)	1	
4	Staple position label (For document glass)	1	

3 **Remove the full detection actuator and the paper exit auxiliary plate at the paper exit port of the main unit.**

- Pull the full detection actuator straight out.
- The removed full detection actuator and paper exit auxiliary plate are not used. Store the removed parts in a safe location where they will not be lost.
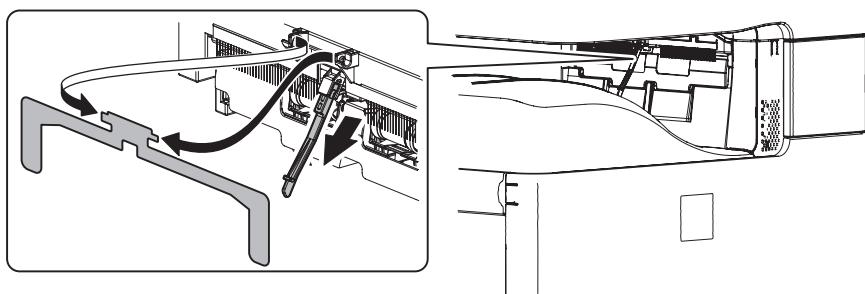
4 **Remove the paper exit cover from the right side of the main unit.**

- While pressing the top of the paper exit cover down, pull it toward you, release the catches, and pull it out.
- The removed paper exit cover is not used. Store the removed part in a safe location where it will not be lost.
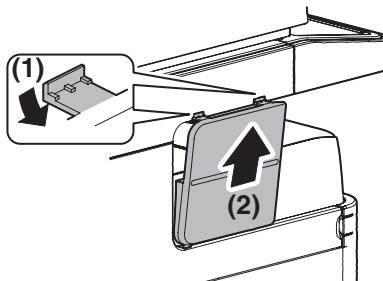
5 **Open the front cover.**
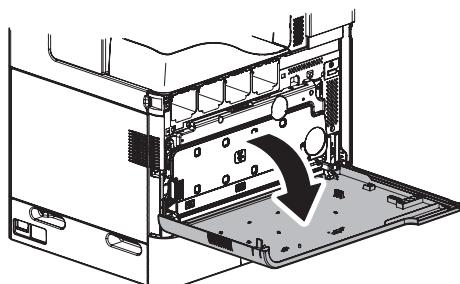
6 Remove the coin screw, and remove the paper exit tray.

• Pull the paper exit tray out horizontally.
• The removed paper exit tray and coin screw are not used. Store the removed parts in a safe location where they will not be lost.
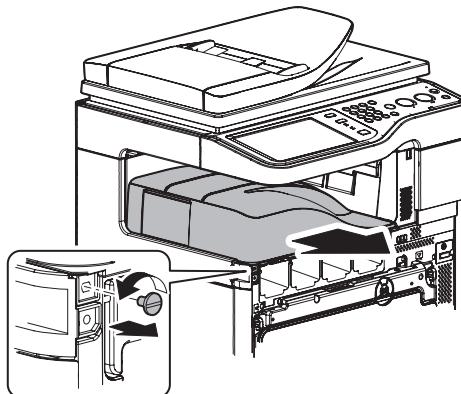
7 Install the machine connection unit (included in the package) to the machine.

Attach the machine connection unit so that the catches (two) on the main unit insert into the slots on the machine connection unit.

19
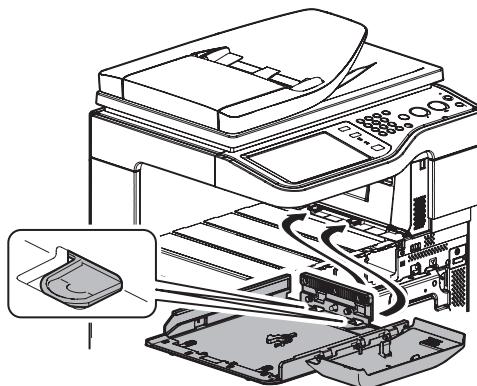
8 Slide the lock lever toward " 🔒 " (Lock) to lock the machine connection unit onto the main unit.
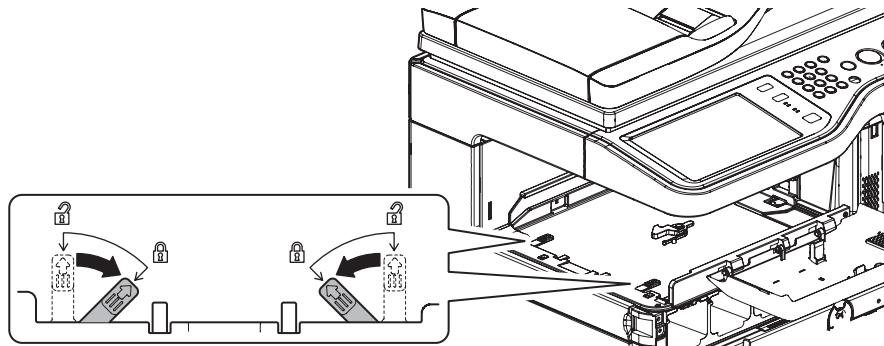
9 Install the finisher to the machine connection unit.

- -
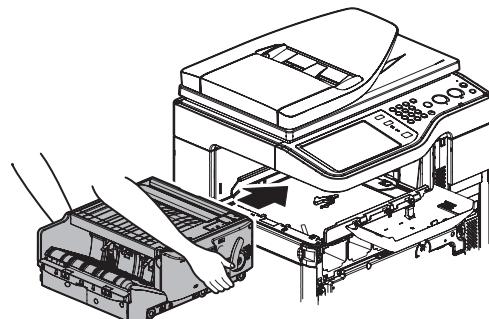
⚠ The finisher is heavy. When lifting the finisher, firmly grip the front frame and the back frame.

10 Close the front cover of the finisher.
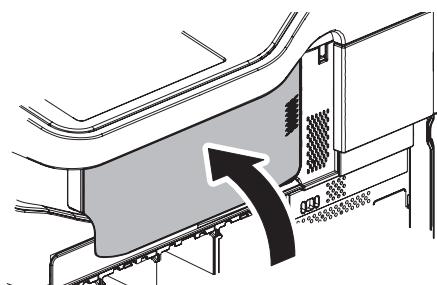
11 **Close the front cover of the main unit.**
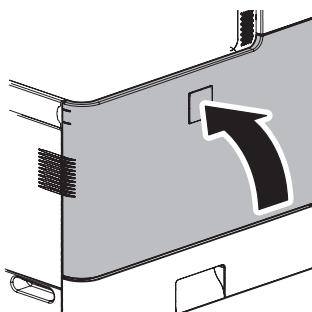
12 **Install the paper exit tray (included in the package) to the finisher.**
Attach the paper exit tray to the finisher by inserting the catches into the slots (two) on the finisher.
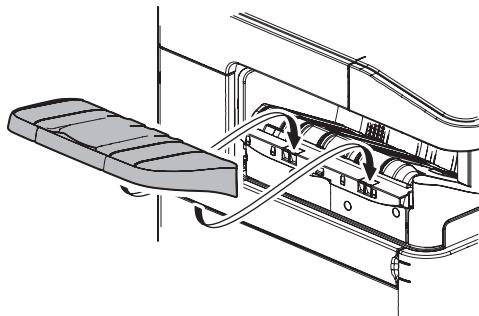
13 **Remove the cap from the connector for the finisher on the back of the main unit, and connect the I/F cable of the finisher to the connector.**
Tighten the finger screws to secure the I/F cable connector.

21
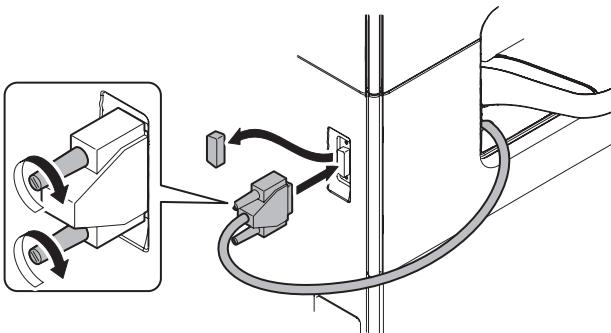
14 **Attach the staple position label (included in the package) for the automatic document feeder to the automatic document feeder unit.**

There are two types of staple position labels. Take care to attach the correct label (see step 2).
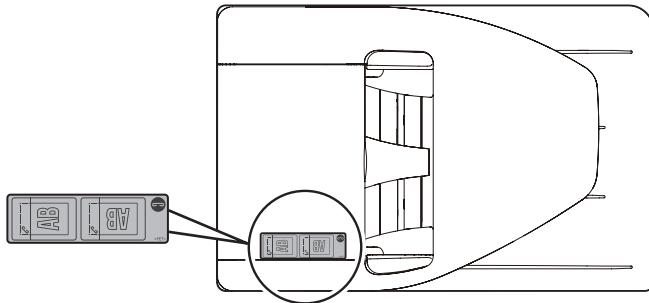
15 **Attach the staple position label (included in the package) for the document glass to the scanner unit.**

3 INSTALLING THE ACCESSORIES
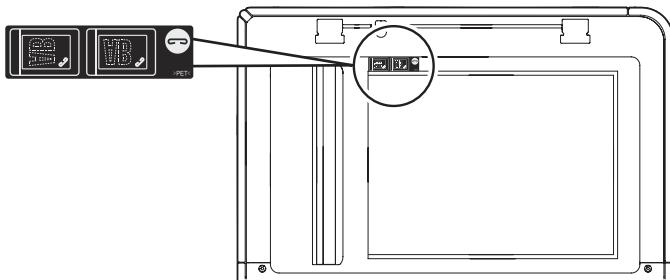
This section explains how to install the developer cartridges and operation manual pocket that accompany the machine. Install these items in the order described in this manual.

> ⚠ Be sure to install the accessories before turning on the main power of the machine.

INSTALLING THE DEVELOPER CARTRIDGE

> ✐ To replace a developer cartridge, see the Maintenance & Safety Guide.

1 **Open the front cover.**
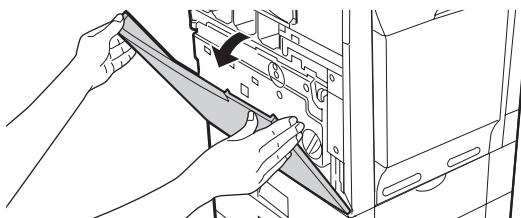
2 **Turn the toner collection container lock lever to the right until it is horizontal.**
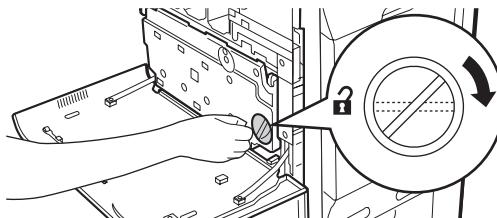
3 **Tip the toner collection container forward.**

Grasp the toner collection container with both hands at the marks on the upper right and lower left of the container and slowly tip the container toward you.

Mark

Mark
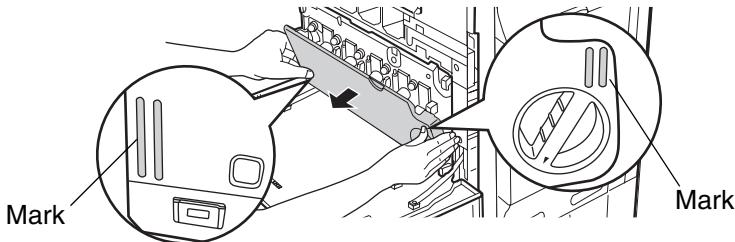
4 **Remove the toner collection container.**

Hold the container by both hands and lift it up slowly.
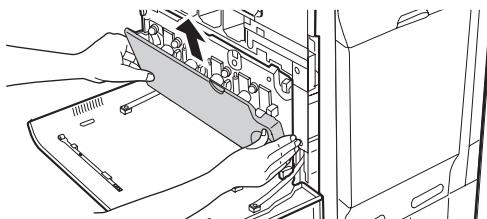
If the toner collection container is tipped forward too far, it will not be possible to remove it.

Hold the container by both hands and lift it up slowly.

5 **Turn the main charger cover lock levers in the direction of an arrow below.**

When the lock levers are horizontal, the lock is released.

24
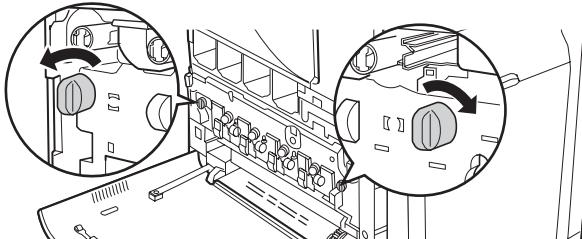
6 **Grasp the lock levers and tip the cover forward.**
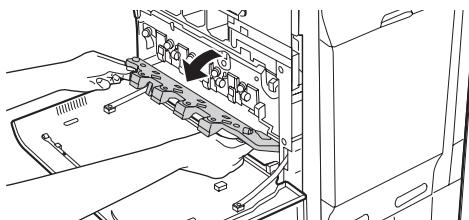
7 **Shake the new developer cartridge 5 or 6 times as shown.**
Hold the developer cartridge firmly as shown below and shake forward and back, left and right.
Remove the protective material after shaking the developer cartridge.

5~6

Protective material

- -
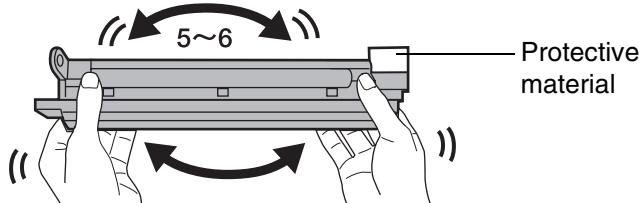
- The seal must not be removed when shaking the new developer cartridge.

- Take care not to damage the developer cartridge when shaking it. If damaged, the developer in the cartridge may leak out.

- The part of the developer cartridge shown in the illustration is easily deformed or damaged. Do not touch this part when handling the cartridge.

25
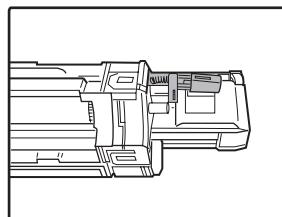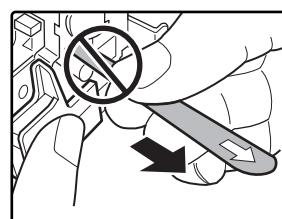
8 Insert the new developer cartridges (Yellow, Magenta, Cyan and Black) horizontally.

- Support the developer cartridge near the middle with your hand and insert the new developer cartridges horizontally.
- The shape of the developer cartridge varies by colour.
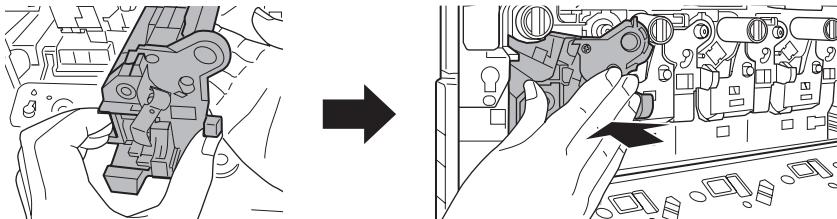
Locations of developer cartridges

(Y) (M) (C) (Bk)

(Y): Yellow
(M): Magenta
(C): Cyan
(Bk): Black

- -
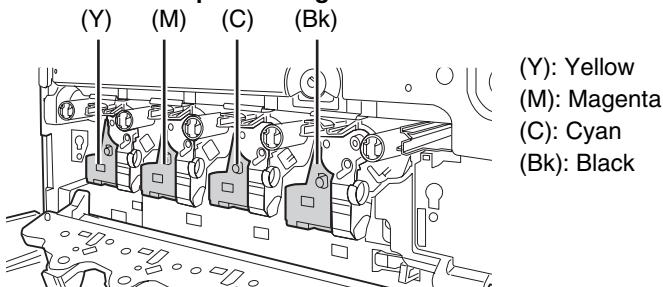
- Do not tilt the developer cartridge or insert it in the wrong direction or orientation. This may damage the cartridge and the drum or cause a failure.
- When inserting the developer cartridge, grasp it with both hands at the middle.
- Do not remove the seal from the developer cartridge until the cartridge is installed in the machine. If the seal is removed when the cartridge is not locked, the cartridge may fall out of the machine.

Insert with the arrow on the cartridge aligned with the arrow on the machine.

9 **Detach the end of the seal from the developer cartridge.**

Align the notch in the seal with the tab on the attachment part and pull up. Be careful not to completely remove the seal by pulling too hard.
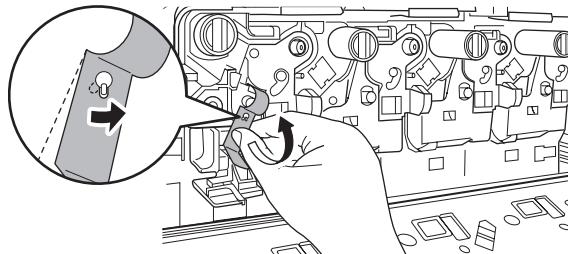
10 **Grasp the developer cartridge lock and replace it on the machine.**
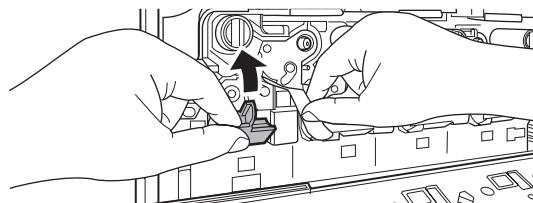
11 **Hold the developer cartridge with one hand and slowly remove the seal with the other hand.**

Slowly pull the seal straight and horizontally out.

- -
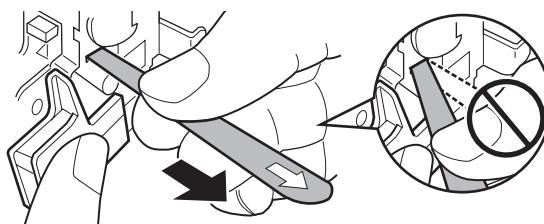
If excessive force is used or the seal is pulled out diagonally, it may tear.

There is a mark (red belt) on the end of the seal. After removing the seal, be sure to verify that the mark (red belt) is on the end of the seal.
If the seal has been cut on the developer cartridge, the cartridge cannot be used. Replace with a new developer cartridge.

27

12 **Close the main charger cover and rotate the lock levers in the direction of the arrows to lock the cover.**

When the lock levers are vertical, the cover is locked.
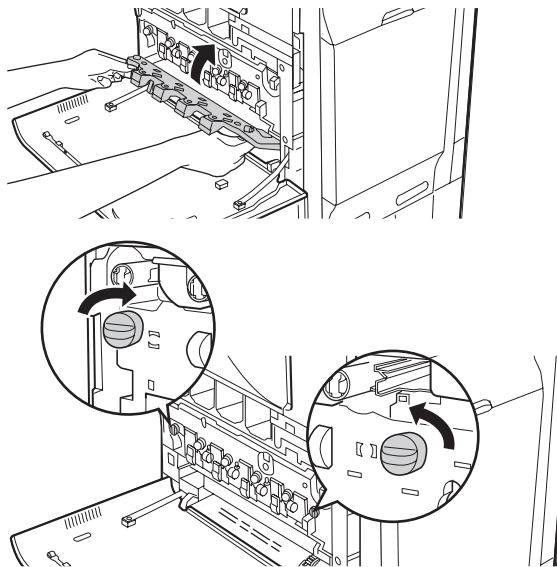
This completes the procedure for installing the developer cartridges. Next, clean the laser unit.

▶ Cleaning the laser unit

After installing the developer cartridges for the first time, follow the procedure below to clean the laser unit.

1 **Remove the cleaning tool for the writing unit from the front cover.**
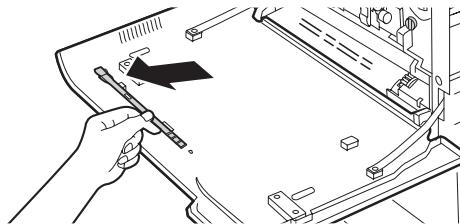
2 **Clean the laser unit.**

(1) Point the cleaner down and slowly insert the tool into the hole that you wish to clean.

The parts of the writing unit that require cleaning are indicated by labels similar to (A).
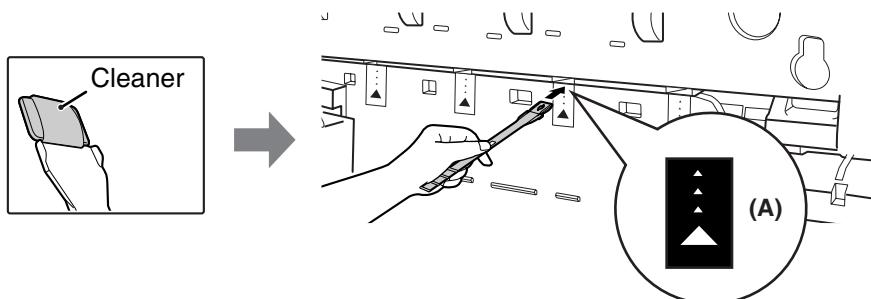
(2) Insert the cleaning tool all the way into the hole and then pull it back out.

Pull the cleaning tool out until you feel the tip of the tool leave the cleaning surface of the laser unit.

29
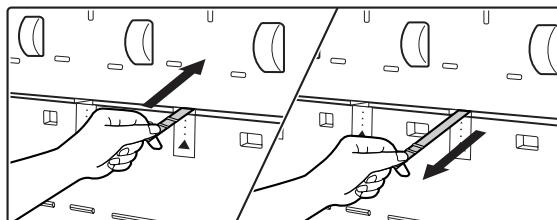
(3) Repeat step (2) two or three times and then remove the cleaning tool.
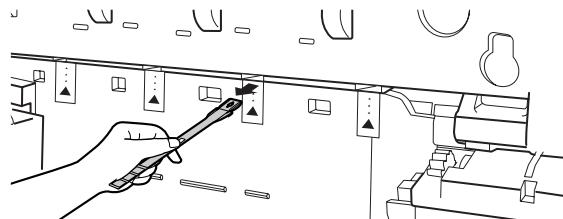
3 **Repeat step 2 to clean all holes in the laser unit.**

Holes to be cleaned

- -
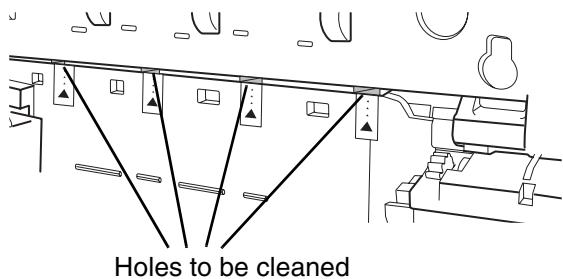
There are a total of 4 holes to be cleaned in the laser unit.

4 **Replace the cleaning tool.**

30
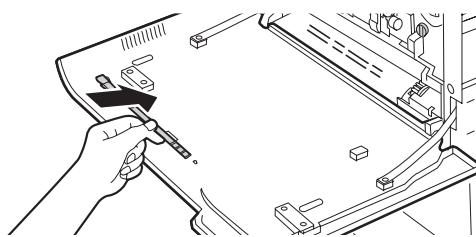
5 Install the toner collection container.

Insert the container from above at a slant. (The direction opposite to when you removed it.)
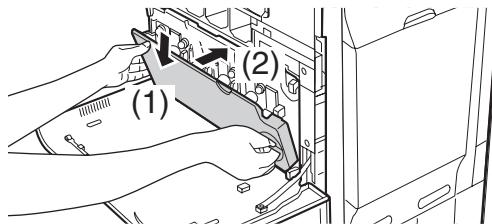
6 Turn the lock lever on the toner collection container to the left.

Turn the lock lever to the left until it stops.
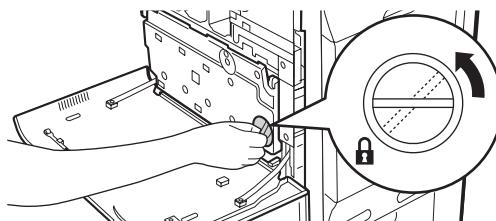
⚠ If the lock lever does not turn, check if the toner collection container is installed correctly.

---

7 Close the front cover.

31
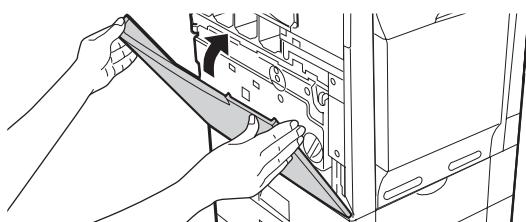
INSTALLING THE OPERATION MANUAL POCKET

Install the operation manual pocket (included in package) to the left side of the machine.
First, insert the pawl on the lower side of the operation manual pocket.
Then, lift the pawl on the upper side and insert it, and slide down to install.
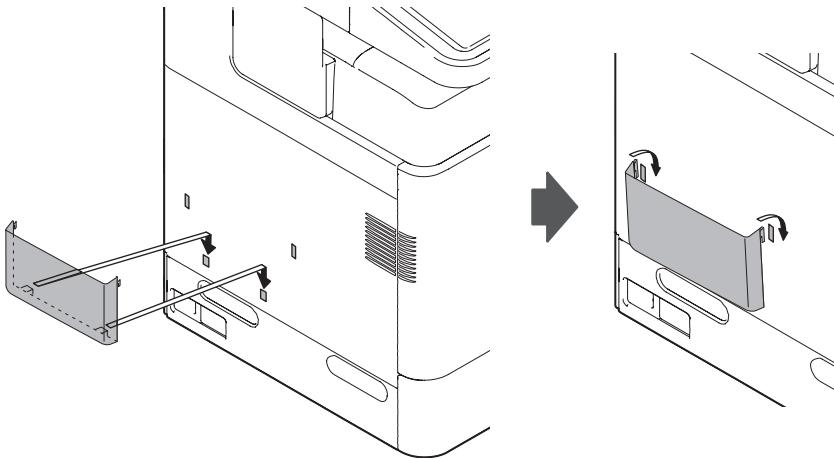
LOADING PAPER

The procedure for loading paper in the paper trays for the first time is explained below. For the sizes and types of paper that can be loaded in each tray, see the Maintenance and Safety Guide. To add paper to a tray, see the Quick Start Guide.

1 **Pull out the paper tray.**
Gently pull the tray out until it stops.

- -
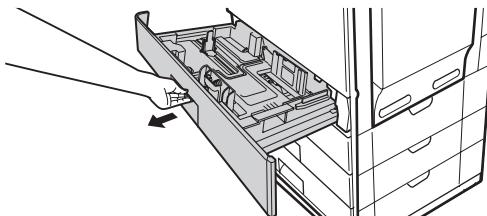
Do not pull hard on the tray. This may cause failure.

2 **Adjust the guide plates A and B by squeezing their lock levers and sliding them to match the vertical and horizontal dimensions of the paper to be loaded.**
The guide plates A and B are slidable. Slide each guide plate while squeezing its lock lever.

- -
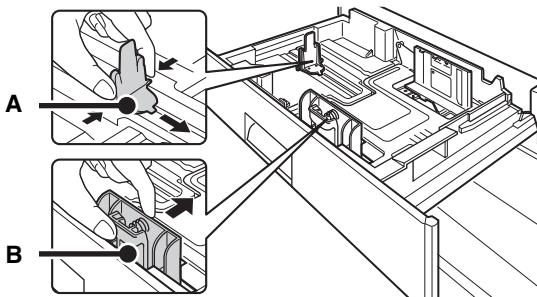
Be sure to place the guide to match the size of the paper. If the guide is not placed correctly, paper skewing or misfeeds may occur.

3 **Fan the paper.**

Fan the paper well before loading it. If the paper is not fanned, multiple sheets may feed at once and cause a misfeed.
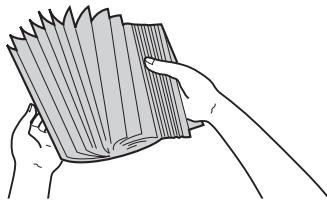
When handling paper, take care not to cut yourself on the edges of the paper.

4 **Insert the paper into the tray.**

Load the paper with the print side face up. The stack must not be higher than the indicator line (maximum of 500 sheets).

Indicator line
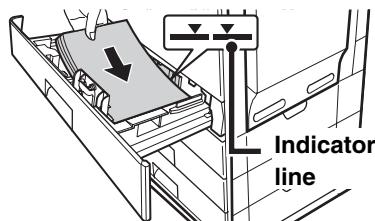
- If paper is loaded higher than the line, paper misfeeds may occur.
- When pushing in a tray, take care that your fingers do not become pinched in the tray.

5 Gently push the paper tray into the machine.

Push the tray firmly all the way into the machine.

- -
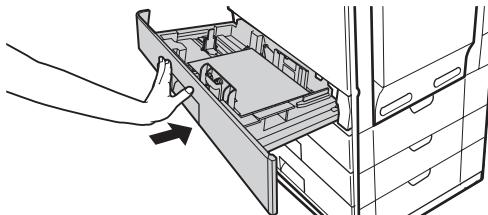
(!) When pulling out a tray after paper is loaded, do not pull hard. The tray may be damaged, the machine may topple, and injury may result.

⚠ Caution

If children are present, ensure that the children do not sit or play on a tray that has been pulled out. Sitting on a tray may damage the tray and cause the machine to topple, resulting in injury.

(!) Do not place heavy objects on the tray or press down on the tray.

35

4 TURNING ON THE POWER AND ADJUSTING THE IMAGE QUALITY

This section explains how to turn on the power and adjust the image quality, which is done after turning on the power.

POWER-ON AND AUTO ADJUSTMENT OF THE DEVELOPER

The machine has two power switches. One is the main power switch on the left side of the machine, and the other is the [POWER] key (⏻) on the upper right side of the operation panel.

When the power of the machine is turned on for the first time, developer adjustment starts automatically. Follow the on-screen instructions to complete auto developer adjustment.

Several minutes may be needed to complete the auto developer adjustment.

1 **Ensure that the main power switch of the machine is in the "off" position. Insert the attached power cord into the power cord socket at the rear of the machine.**
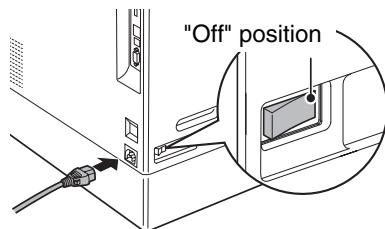
"Off" position

2 **Insert the power plug into the power outlet.**

3 **Switch the main power switch to the "on" position.**

When the main power switch is switched on, the main power indicator on the operation panel lights up.

"On" position

"Off" position

36
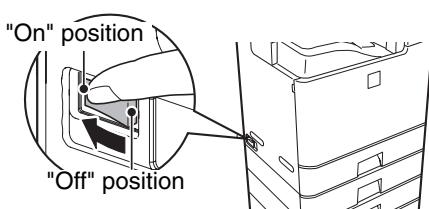
4 **Press the [POWER] key (⏻) on the operation panel to turn on the power.**
When the power is turned on, developer adjustment begins automatically.

Main power indicator

[POWER] key
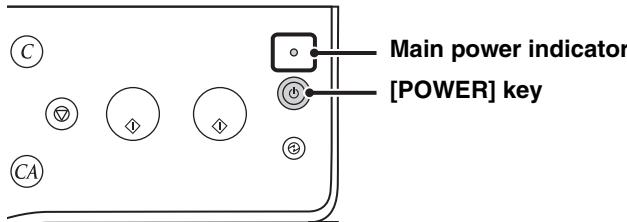
⚠️ During auto developer adjustment, do not open the front cover or right side cover, and do not turn off the power. This may cause degraded image quality.

INSTALLING THE TONER CARTRIDGE

When installing the toner cartridges for the first time, install the cartridges after the power has been turned on and auto adjustment of the developer is finished.

📝 To replace a toner cartridge, see the Maintenance & Safety Guide.

1 **Take out the new toner cartridge, hold it with both hands, and shake 5 or 6 times horizontally.**

Protective
material

$5\sim6$
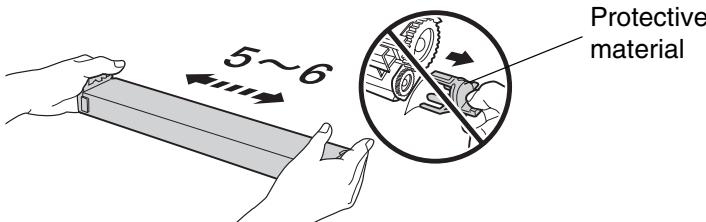
⚠️ • When shaking the toner cartridge, be sure to shake with the protective material inserted in the cartridge. If you shake the cartridge after removing the protective material, toner may spill out.

• Shake the toner cartridge only in the horizontal direction. If shaken in any other direction, toner may collect in one part of the cartridge.

37

2 **Remove the protective material from the new toner cartridge.**
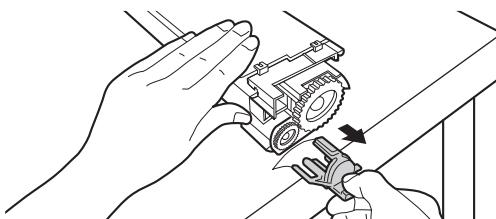
- Hold the toner cartridge firmly while removing the protective material.
- After the protective material has been removed, do not point the toner cartridge down or shake it. Toner may spill out.

3 **Open the front cover.**
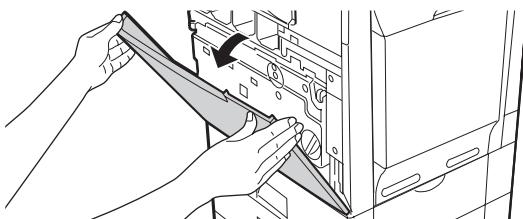
4 **Insert the new toner cartridges (Yellow, Magenta, Cyan and Black) horizontally and push it firmly in.**

The shape of the toner cartridge varies by colour. Insert in the same location as the toner cartridge that was removed.

Locations of colour toner cartridges

(Y): Yellow
(M): Magenta
(C): Cyan
(Bk): Black

38
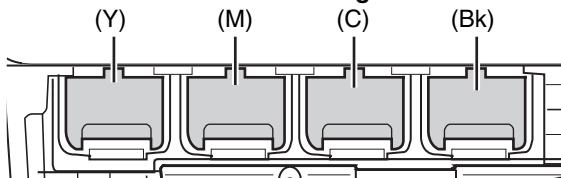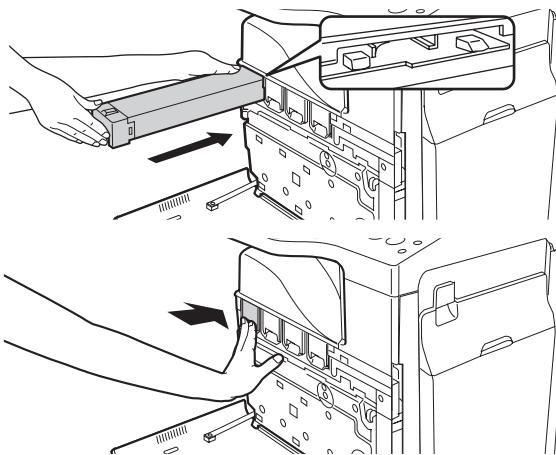
5 **Close the front cover.**
When the front cover is closed, image quality adjustment begins automatically.
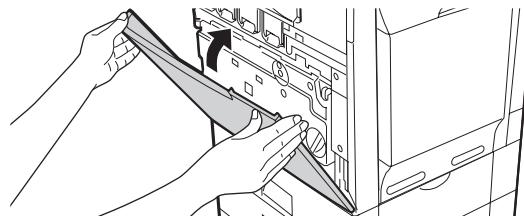
⚠ During image quality adjustment, do not open the front cover or right side cover, and do not turn off the power. This may cause degraded image quality.

When image adjustment ends and the base screen of copy mode appears in the display, hardware installation is completed.
- After installing the machine, if you will be using the printer function or the scanner function, install the necessary software as explained in Part 2, "SOFTWARE INSTALLATION" (page 41).
- To gain a general understanding of how to use the machine, read the Quick Start Guide. The Quick Start Guide explains the basic procedures for operating the machine.
- To turn off the power of the machine, see "TURNING OFF THE POWER OF THE MACHINE" (page 40).

TURNING OFF THE POWER OF THE MACHINE

To turn off the power of the machine, make sure that the LINE indicator and the DATA indicator on the operation panel are off, and then follow the steps in the order shown below.

1 **Press the [POWER] key (⏻) on the operation panel to turn off the power.**
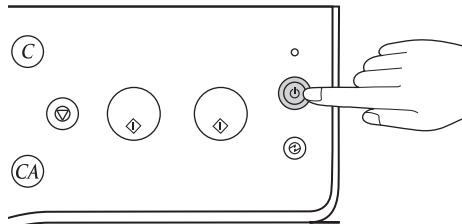
2 **Wait 20 seconds and then switch off the main power switch.**

"On" position

"Off" position
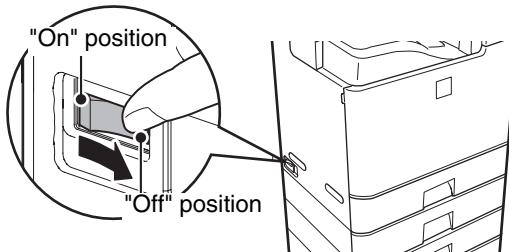
3 **Disconnect the power plug from the power outlet.**

⚠ **Important rules when turning off the main power**
When turning off the main power, always turn off the operation panel power first, wait at least 20 seconds, and then turn off the main power.
If you turn off the main power without turning off the operation panel power, or do not wait at least 20 seconds before turning off the main power, machine failure may result.
If the main power is suddenly interrupted due to a power failure or other reason, turn the machine power back on and then turn it off correctly as described above.

PART 2
SOFTWARE INSTALLATION
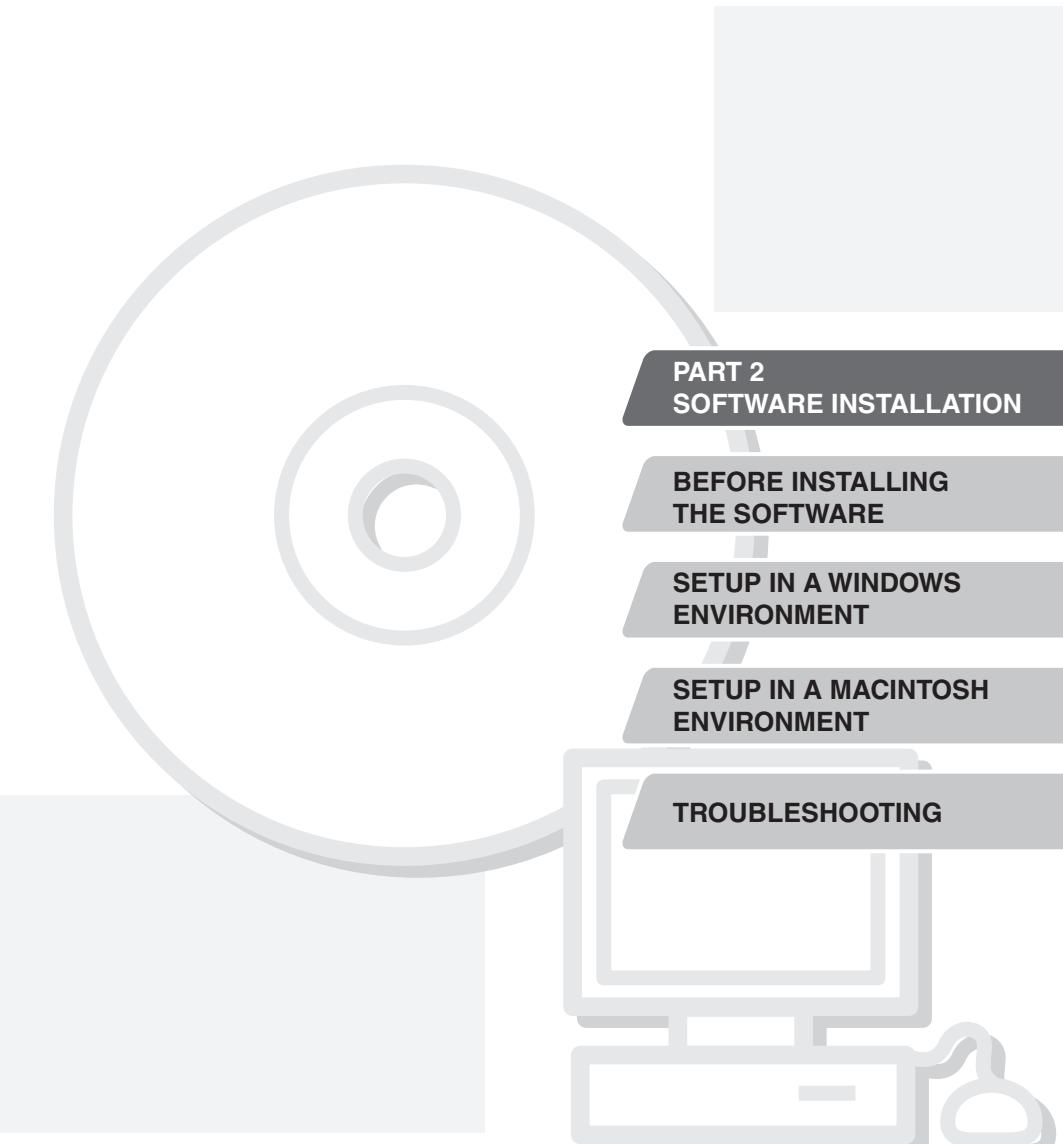
This part explains how to install and configure the software that allows the machine to be used as a printer or scanner for a computer.
This part also explains how to install the printer drivers and software that are used when the expansion kits are installed, and how to install the scanner driver.
If the software is not installed correctly or you need to remove the software, see "4. TROUBLESHOOTING" (page 106).

Please note

- The explanations in this manual assume that you have a working knowledge of your Windows or Macintosh computer.
- For information on your operating system, please refer to your operating system manual or the online Help function.
- The explanations of screens and procedures in this manual are primarily for Windows Vista® in Windows® environments, and Mac OS X v10.4 in Macintosh environments. The screens may vary depending on the version of the operating system.
- Wherever "DX-xxxx" appears in this manual, please substitute your model name for "xxxx".

SOFTWARE LICENSE

The SOFTWARE LICENSE will appear when you install the software from the CD-ROM. By using all or any portion of the software on the CD-ROM or in the machine, you are agreeing to be bound by the terms of the SOFTWARE LICENSE.

For users of Windows 98/Me/NT 4.0

The CD-ROM does not include software for Windows 98/Me/NT 4.0.
Contact your dealer or nearest authorised service representative if you want software for Windows 98/Me/NT 4.0.
The scanner driver cannot be installed on Windows NT 4.0.

TABLE OF CONTENTS

1   BEFORE INSTALLING THE SOFTWARE

2   SETUP IN A WINDOWS ENVIRONMENT

3   SETUP IN A MACINTOSH ENVIRONMENT

4   TROUBLESHOOTING

1 BEFORE INSTALLING THE SOFTWARE

This chapter describes the software programs that allow you to use the printer and scanner functions of the machine, the CD-ROMs that contain the software, and the pages where the installation procedures can be found.

CD-ROMS AND SOFTWARE

The software that can be used with the machine is on the CD-ROMs that accompany the machine and the expansion kits.
Before installing the software, make sure that your computer and the machine meet the system requirements described in "VERIFYING SYSTEM REQUIREMENTS" (page 47).

SOFTWARE CD-ROM

The "Software CD-ROM" that accompanies the machine contains the printer driver and other software. The "Software CD-ROM" consists of 2 discs.

> **For users of Windows 98/Me/NT 4.0**
> The CD-ROM does not include software for Windows 98/Me/NT 4.0.
> Contact your dealer or nearest authorised service representative if you want software for Windows 98/Me/NT 4.0.

Disc 1
Software for Windows
 • **Printer driver**
   These allow the machine to be used as a printer.
   - **PCL6 and PCL5c printer driver**
     The machine supports the Hewlett-Packard PCL6 and PCL5c printer control languages. It is recommended that you use the PCL6 printer driver. If you have a problem printing from older software using the PCL6 printer driver, use the PCL5c printer driver.
   - **PS printer driver**
     The PS printer driver supports the PostScript 3 page description language developed by Adobe Systems Incorporated.

44

- **PPD driver**
  The PPD driver enables the machine to use the standard Windows PS
  printer driver.
  ☞ WHEN THE MACHINE IS CONNECTED TO A NETWORK (page 52)
  ☞ WHEN THE MACHINE WILL BE CONNECTED WITH A USB CABLE
     (page 64)

• **Printer Status Monitor (can only be used when the machine is
connected to a network)**
  This allows you to monitor the status of the machine on your computer screen.
  ☞ INSTALLING THE PRINTER STATUS MONITOR (page 82)

Disc 2
Software for Windows
• **PC-Fax driver**
  This enables you to send a file from your computer as a fax using the same
  procedure as when printing the file. (When the fax option is installed.)
  Even if the fax function is not installed, the PC-Fax driver can be updated
  using the CD-ROM in the Internet fax expansion kit to enable you to send a
  file from your computer as an Internet fax in the same way as you print a file.
  ☞ INSTALLING THE PRINTER DRIVER / PC-FAX DRIVER (page 52)

**The following software can be used only when the machine is connected
to a network.**

• **Scanner driver (TWAIN driver)**
  This allows you to use the scanner function of the machine from a
  TWAIN-compliant software application.
  ☞ INSTALLING THE SCANNER DRIVER (page 84)
• **Printer Administration Utility**
  This allows the administrator to monitor the machine and configure machine
  settings from a computer. To install and use the Printer Administration Utility,
  see the Readme file and the manual in PDF format on the "Software
  CD-ROM" (Disc 2). The Readme file and manual are in the following folder on
  the CD-ROM. (Substitute the letter of your CD-ROM drive for "R" in the
  following path.)
  R:\Sadmin\Documents\English

Software for Macintosh
• **PPD file**
This is the printer description file which enables the machine to be used as a PostScript 3 compatible printer.
☞ MAC OS X (page 92)
☞ MAC OS 9.0 - 9.2.2 (page 102)

• To use the machine as a printer in a Macintosh environment, the machine must be connected to a network. A USB connection cannot be used.
• If you are using the DX-C310/C380, the PS3 expansion kit is required to use the machine as a printer in a Macintosh environment.
• The scanner driver and PC-Fax driver cannot be used in a Macintosh environment.

OTHER CD-ROMS

▶ "PRINTER UTILITIES" CD-ROM that accompanies the Internet fax expansion kit (for Windows)

This CD-ROM is used to update the PC-Fax driver on the "Software CD-ROM" so that it can be used to send Internet faxes (PC-I-Fax function). If you wish to use the PC-I-Fax function, first install the PC-Fax driver from the "Software CD-ROM" and then run the installer on this CD-ROM. If the PC-Fax driver is already installed, run only the installer. (There is no need to reinstall the PC-Fax driver.)
☞INSTALLING THE PRINTER DRIVER / PC-FAX DRIVER (page 52)

▶ "Sharpdesk/Network Scanner Utilities" CD-ROM (for Windows)

This contains software that helps you get the most out of the images that you scan on the machine. The software includes "Sharpdesk", a desktop document management application that enables integrated management of scanned images and files created using a variety of applications. To use the "Scan to Desktop" scanner function, the "Network Scanner Tool" must be installed from the CD-ROM. For the system requirements of the software, see the manual (PDF format) in the "Manual" folder or the Readme file on the CD-ROM. For the procedures for installing the software, see the "Sharpdesk Installation Guide".

▶ "PRINTER UTILITIES" CD-ROM that accompanies the PS3 expansion kit (for DX-C310/C380)

This contains the display fonts that are used with the PS printer driver. (Install the PS printer driver and Macintosh PPD file from the "Software CD-ROM".)
☞ INSTALLING THE PS DISPLAY FONTS (DX-C310/C380) (page 87)

VERIFYING SYSTEM REQUIREMENTS

SYSTEM REQUIREMENTS

Before installing the software described in this manual, make sure that your computer satisfies the following requirements.

	Windows	Macintosh*5
Operating system*1	Windows 98, Windows Me, Windows NT Workstation 4.0 (Service Pack 5 or later)*2, Windows 2000 Professional, Windows XP Professional, Windows XP Home Edition, Windows 2000 Server, Windows Server 2003, Windows Vista, Windows Server 2008	Mac OS 9.0 to 9.2.2, Mac OS X v10.2.8, Mac OS X v10.3.9, Mac OS X v10.4.11, Mac OS X v10.5 to 10.5.1
Computer type	IBM PC/AT compatible computer Equipped with a 10Base-T/100Base-TX/1000Base-T LAN board or equipped standard with a USB 2.0*3/1.1*4 port.	An environment in which any of the operating systems listed above can fully operate (including Macintosh computers with an Intel processor).
Display	1024 x 768 dots resolution and 16-bit colour or higher is recommended.	
Other hardware requirements	An environment that allows any of the above operating systems to fully operate.	

*1 Printing is not possible in MS-DOS mode.
*2 USB is not supported. The scanner driver cannot be installed.
*3 The machine's USB 2.0 port will transfer data at the speed specified by the USB 2.0 (Hi-Speed) standard only if the Microsoft USB 2.0 driver is preinstalled in the computer, or if the USB 2.0 driver for Windows 2000 Professional/XP/Vista that Microsoft provides through "Windows Update" is installed.
*4 Compatible with models preinstalled with Windows 98, Windows Me, Windows 2000 Professional, Windows XP Professional, Windows XP Home Edition, Windows 2000 Server, Windows Server 2003, Windows Vista, or Windows Server 2008 and which are equipped standard with a USB interface.
*5 Cannot be used when the machine is connected with a USB cable. The PC-Fax driver and scanner driver cannot be used.

> • **For users of Windows 98/Me/NT 4.0**
>   The CD-ROM does not include software for Windows 98/Me/NT 4.0.
>   Contact your dealer or nearest authorised service representative if you want software for Windows 98/Me/NT 4.0.
> • **For users of Windows NT 4.0/2000/XP/Server 2003/Vista/Server 2008**
>   To perform the procedures described in this manual such as installing the software and configuring settings after installation, administrator authority is required.

SOFTWARE REQUIREMENTS

The following requirements must be met to use the software described in this manual.

Operating system environment[1]	Software	Required expansion kits		Type of connection[1]
		DX-C310/C380	DX-C311/C381	
Windows	PCL6 printer driver, PCL5c printer driver	Can be used in the standard configuration.		Network/ USB
	PS printer driver, PPD driver	PS3 expansion kit		
	PC-Fax driver[2]	Facsimile expansion kit[3]		
	Scanner driver	Can be used in the standard configuration.		Network only (cannot be used with a USB connection)
	Printer Status Monitor			
	Printer Administration Utility			
Macintosh	Macintosh PPD file	PS3 expansion kit		

*1 For the types of computers and operating systems that can run the software, see "SYSTEM REQUIREMENTS" (page 47).

*2 To use the PC-Fax driver, Internet Explorer 4.0 or later must be installed on your computer.

*3 When the Internet fax expansion kit is installed, the PC-Fax driver can be updated using the "PRINTER UTILITIES" CD-ROM to enable the driver to be used as a PC-I-Fax driver. In this case, the driver can be used without the facsimile expansion kit.

CONNECTING THE MACHINE

CONNECTING TO A NETWORK

To connect the machine to a network, connect the LAN cable to the machine's network connector. Use a shielded LAN cable.
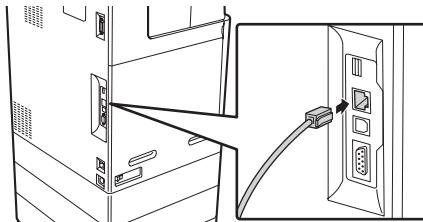
After connecting the machine to a network, be sure to configure the IP address and other network settings before installing the software. (The factory default setting for the IP address is to receive the IP address automatically when the machine is used in a DHCP environment.)
Network settings can be configured using "Network Settings" in the system settings (administrator) on the machine.

> • If the machine is used in a DHCP environment, the IP address of the machine may change. If this happens, printing will not be possible. This problem can be avoided by using a WINS server or by assigning a permanent IP address to the machine.
> • This manual explains how to set up the software in a Windows network environment and in a Macintosh network environment.

▶ Checking the IP address of the machine

You can check the IP address by pressing the [SYSTEM SETTINGS] key on the machine and printing out the "All Custom Setting List" from [List Print (User)].

CONNECTING THE MACHINE WITH A USB CABLE (Windows)

The machine can be connected to a computer using a USB cable if the computer is a Windows computer. (The USB interface on the machine cannot be used in a Macintosh environment.)
The machine and computer should be connected while the printer driver is being installed. If a USB cable is connected before the printer driver is installed, the printer driver will not be installed correctly. For the procedure for connecting a USB cable, see "WHEN THE MACHINE WILL BE CONNECTED WITH A USB CABLE" (page 64).

2 SETUP IN A WINDOWS ENVIRONMENT

This section explains how to install the software and configure settings so that the printer and scanner function of the machine can be used with a Windows computer.

For users of Windows 98/Me/NT 4.0

The CD-ROM does not include software for Windows 98/Me/NT 4.0.
Contact your dealer or nearest authorised service representative if you want software for Windows 98/Me/NT 4.0.

OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)

1 **Insert the "Software CD-ROM" into your computer's CD-ROM drive.**
- If you are installing the printer driver or printer status monitor, insert the "Software CD-ROM" that shows "Disc 1" on the front of the CD-ROM.
- If you are installing the PC-Fax driver or scanner driver, insert the "Software CD-ROM" that shows "Disc 2" on the front of the CD-ROM.

2 **Click the [Start] button ( ), click [Computer], and then double-click the [CD-ROM] icon ( ).**
- In Windows XP/Server 2003, click the [start] button, click [My Computer], and then double-click the [CD-ROM] icon.
- In Windows 2000, double-click [My Computer] and then double-click the [CD-ROM] icon.

3 **Double-click the [Setup] icon ( ).**

- -

In Windows Vista/Server 2008, if a message screen appears asking you for confirmation, click [Allow].

50

4 **The "SOFTWARE LICENSE" window will appear. Make sure that you understand the contents of the license agreement and then click the [Yes] button.**

. . . .

You can show the "SOFTWARE LICENSE" in a different language by selecting the desired language from the language menu. To install the software in the selected language, continue the installation with that language selected.

5 **Read the message in the "Welcome" window and then click the [Next] button.**

6 **The software selection screen appears.**
Before installing the software, be sure to click the [Display Readme] button and view the detailed information on the software.
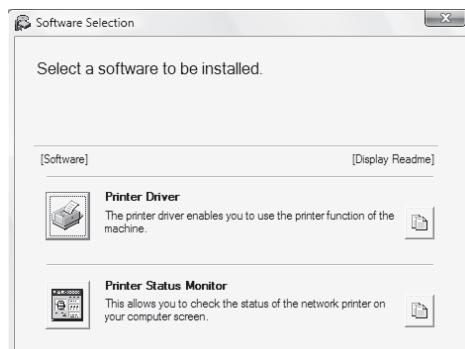
*The above screen appears when using the "Disc 1" CD-ROM.

For the steps that follow, see the appropriate page below for the software that you are installing.

INSTALLING THE PRINTER DRIVER / PC-FAX DRIVER
• **WHEN THE MACHINE IS CONNECTED TO A NETWORK**
  - **Standard installation: page 53**
  - **Installation by specifying the machine's address: page 57**
  - **Printing using the IPP function and the SSL function: page 61**
• **WHEN THE MACHINE WILL BE CONNECTED WITH A USB CABLE: page 64**
• **USING THE MACHINE AS A SHARED PRINTER: page 72**
INSTALLING THE PRINTER STATUS MONITOR: page 82
INSTALLING THE SCANNER DRIVER: page 84

51

INSTALLING THE PRINTER DRIVER / PC-FAX DRIVER

To install the printer driver or the PC-Fax driver, follow the appropriate procedure in this section depending on whether the machine is connected to a network or connected by USB cable.

☞ WHEN THE MACHINE WILL BE CONNECTED WITH A USB CABLE (page 64)

WHEN THE MACHINE IS CONNECTED TO A NETWORK

This section explains how to install the printer driver and the PC-Fax driver when the machine is connected to a Windows network (TCP/IP network).

Supported operating systems: Windows 98/Me/NT 4.0*/2000*/XP*/ Server 2003*/Vista*/Server 2008*
* Administrator's rights are required to install the software.

- If you are using the DX-C310/C380, the PS3 expansion kit is required to use the PS printer driver or the PPD driver.
- To install the PPD driver when Windows 98/Me/NT 4.0 is used, see "USING THE STANDARD WINDOWS PS PRINTER DRIVER (Windows 98/Me/NT 4.0)" (page 75) and install the driver using the Add Printer Wizard.
- To use the machine as a network printer in Windows NT 4.0, "TCP/IP Protocol" must be installed on your computer. If this is not installed, see Windows NT 4.0 Help to install "TCP/IP Protocol".
- **To print to the machine over the Internet using the IPP function when the machine is installed in a remote location, or to print using the SSL (encrypted communication) function, see "Printing using the IPP function and the SSL function" (page 61) and install the printer driver or the PC-Fax driver.**
- **If the machine is connected to an IPv6-only network, the software cannot be installed by detecting or specifying the machine's address from the installer.**
- The installation procedure in this section is for both the printer driver and the PC-Fax driver, although the explanations are centred on the printer driver.

52

▶ Standard installation

When the software selection screen appears in step 6 of "OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)" (page 50), perform the steps below.

1 Click the [Printer Driver] button.

To install the PC-Fax driver, click the [PC-Fax Driver] button on the "Disc 2" CD-ROM.

Software Selection
Select a software to be installed.
[Software]   [Display Readme]
Printer Driver
The printer driver enables you to use the printer function of the machine.
Printer Status Monitor
This allows you to check the status of the network printer on your computer screen.
< Back   Next >   Close

*The above screen appears when using the "Disc 1" CD-ROM.

2 Click the [Standard installation] button.

Standard installation
Execute the installation by searching a MFP connected to the TCP/IP network automatically. (Network port is created with LPR automatically.)
Custom installation
Execute the installation by setting the connection method. If you do the print that supports SSL (encrypted communication), select this.
< Back   Next >   Cancel

- -

When [Custom installation] is selected, you can change any of the items below. When [Standard installation] is selected, the installation will take place as indicated below.

53

- Machine connection method: LPR Direct Print (Auto Search)
- Set as default printer:Yes (excluding the PC-Fax driver)
- Printer driver name: Cannot be changed
- Display fonts: Installed

If you selected [Custom installation], select [LPR Direct Print (Auto Search)] and click the [Next] button.
If you selected other than [LPR Direct Print (Auto Search)], see the following pages:

- LPR Direct Print (Specify Address): page 57
- IPP: page 61
- Shared printer: page 72
- Connected to this computer: page 64

3 **Printers connected to the network are detected. Select the machine and click the [Next] button.**

. . . .
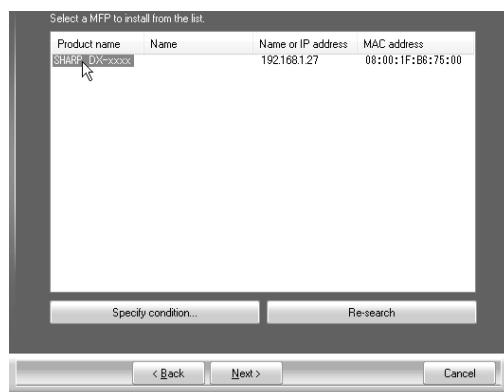
- If the machine is not found, make sure that the machine is powered on and that the machine is connected to the network, and then click the [Re-search] button.
- You can also click the [Specify condition] button and search for the machine by entering the machine's name (host name) or IP address.
  ☞ Checking the IP address of the machine (page 49)

4 **A confirmation window appears. Check the contents and then click the [Next] button.**

54

5 **When the printer driver selection window appears, select the printer driver to be installed and click the [Next] button.**

Click the checkbox of the printer driver to be installed so that a checkmark (☑) appears.

*The screen shows the installer for the DX-C311/C381.

- -
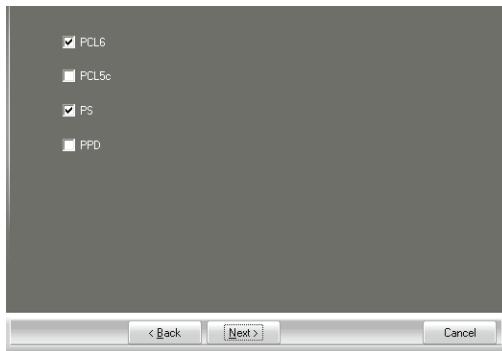
- When the PC-Fax driver is being installed, this screen does not appear. Go to the next step.
- If you are using the DX-C310/C380, the PS3 expansion kit is required to use the PS printer driver or the PPD driver.
- The [PPD] checkbox only appears if you are using Windows 2000/XP/ Server 2003/Vista/Server 2008.

6 **When you are asked whether or not you want the printer to be your default printer, make a selection and click the [Next] button.**

If you are installing multiple drivers, select the printer driver to be used as the default printer.
If you do not wish to set one of the printer drivers as the default printer, select [No].

- -

If you clicked the [Custom installation] button in step 2, the following windows will appear.

- **Printer name window**
  If you wish to change the printer name, enter the desired name and click the [Next] button.

- **Window confirming installation of the display fonts**
  - If you wish to install the display fonts, select [Yes] and click the [Next] button.
  - When the PC-Fax driver is being installed, this screen does not appear. Go to the next step.
  - If you are using the DX-C310/C380 and are not installing the PCL printer driver (you are installing the PS printer driver or the PPD driver), select [No] and click the [Next] button.

55

7 **Follow the on-screen instructions.**

Read the message in the window that appears and click the [Next] button. Installation begins.

- • **If you are using Windows Vista/Server 2008**
  If a security warning window appears, be sure to click [Install this driver software anyway].
- • **If you are using Windows 2000/XP/Server 2003**
  If a warning message regarding the Windows logo test or digital signature appears, be sure to click the [Continue Anyway] or [Yes] button.

8 **When the installation completed screen appears, click the [OK] button.**

9 **Click the [Close] button in the window of step 1.**

After the installation, a message prompting you to restart your computer may appear. If this message appears, click the [Yes] button to restart your computer.

This completes the installation.

- • After installation, see "CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE" (page 77) to configure the printer driver settings.
- • If you are using the machine as a shared printer, see "USING THE MACHINE AS A SHARED PRINTER" (page 72) to install the printer driver on each of the client computers.
- • If you are using the DX-C310/C380 and have installed the PS printer driver or the PPD driver, the PS display fonts can be installed from the "PRINTER UTILITIES" CD-ROM that accompanies the PS3 expansion kit. See "INSTALLING THE PS DISPLAY FONTS (DX-C310/C380)" (page 87).

56

▶ Installation by specifying the machine's address

When the machine cannot be found because it is not powered on or otherwise, installation is possible by entering the name (host name) or IP address of the machine.

When the software selection screen appears in step 6 of "OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)" (page 50), perform the steps below.
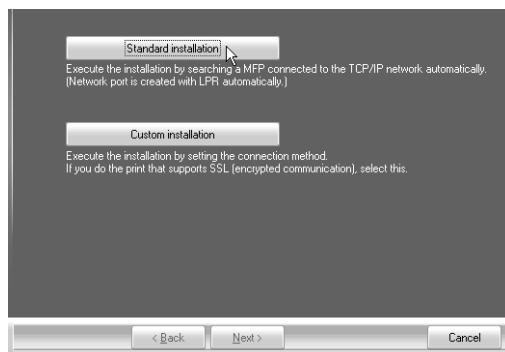
1 **Click the [Printer Driver] button.**
To install the PC-Fax driver, click the [PC-Fax Driver] button on the "Disc 2" CD-ROM.

*The above screen appears when using the "Disc 1" CD-ROM.

2 **Click the [Custom installation] button.**

57
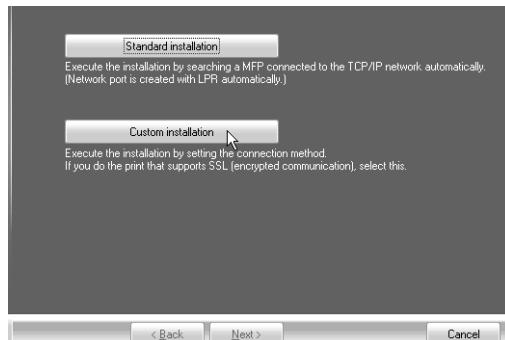
3 **When you are asked how the printer is connected, select [LPR Direct Print (Specify Address)] and click the [Next] button.**

- ○ LPR Direct Print (Specify Address)
- ○ LPR Direct Print (Auto Search)
- ○ IPP (Supports SSL)
- ○ Shared Printer
- ○ Connected to this computer

< Back   Next >   Cancel
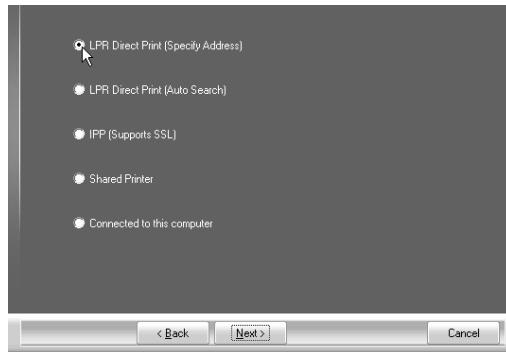
4 **Enter the name (host name) or IP address of the machine and click the [Next] button.**

☞ Checking the IP address of the machine (page 49)

Example: prn1, 192.168.1.15

Specify MFP name (hostname) or IP address:

prn1

< Back   Next >   Cancel
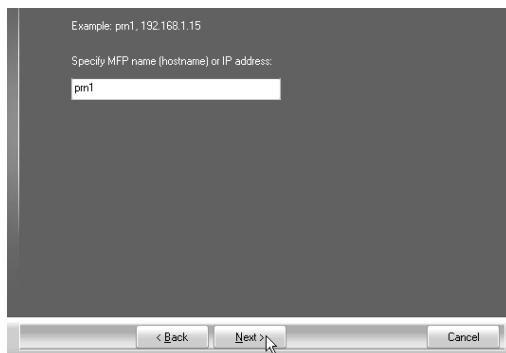
5 **When the model selection window appears, select the model name of your machine and click the [Next] button.**

58

6 **When the printer driver selection window appears, select the printer driver to be installed and click the [Next] button.**

Click the checkbox of the printer driver to be installed so that a checkmark (✓) appears.

*The screen shows the installer for the DX-C311/C381.

- • When the PC-Fax driver is being installed, this screen does not appear. Go to the next step.
- • If you are using the DX-C310/C380, the PS3 expansion kit is required to use the PS printer driver or the PPD driver.
- • The [PPD] checkbox only appears if you are using Windows 2000/XP/ Server 2003/Vista/Server 2008.

7 **Select whether or not you wish the printer to be your default printer and click the [Next] button.**

If you are installing multiple drivers, select the printer driver to be used as the default printer.
If you do not wish to set one of the printer drivers as the default printer, select [No].

8 **When the printer name window appears, click the [Next] button.**

If you wish to change the printer name, enter the desired name and click the [Next] button.

9 **When you are asked if you wish to install the display fonts, select an answer and click the [Next] button.**

- • If you are using the DX-C310/C380 and are not installing the PCL printer driver (you are installing the PS printer driver or the PPD driver), select [No] and click the [Next] button.
- • When the PC-Fax driver is being installed, this screen does not appear. Go to the next step.

59

10 **Follow the on-screen instructions.**

Read the message in the window that appears and click the [Next] button.
Installation begins.

- -

- **If you are using Windows Vista/Server 2008**
  If a security warning window appears, be sure to click [Install this driver software anyway].

- **If you are using Windows 2000/XP/Server 2003**
  If a warning message regarding the Windows logo test or digital signature appears, be sure to click the [Continue Anyway] or [Yes] button.

11 **When the installation completed screen appears, click the [OK] button.**

12 **Click the [Close] button in the window of step 1.**

- -

After the installation, a message prompting you to restart your computer may appear. If this message appears, click the [Yes] button to restart your computer.

This completes the installation.

- After installation, see "CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE" (page 77) to configure the printer driver settings.
- If you are using the DX-C310/C380 and have installed the PS printer driver or the PPD driver, the PS display fonts can be installed from the "PRINTER UTILITIES" CD-ROM that accompanies the PS3 expansion kit. See "INSTALLING THE PS DISPLAY FONTS (DX-C310/C380)" (page 87).

60

▶ Printing using the IPP function and the SSL function

The IPP function can be used to print to the machine over a network using HTTP protocol.

When the machine is in a remote location, this function can be used in place of the fax function to print a higher quality image than a fax. The IPP function can also be used in combination with the SSL (encrypted communication) function to encrypt the print data. This enables secure printing with no concern that the data will be leaked to others.

> To use the SSL function, configure the "SSL Settings" in the system settings (administrator) of the machine. To configure the settings, see the "SYSTEM SETTINGS" chapter in the Operation Guide.

When the software selection screen appears in step 6 of "OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)" (page 50), perform the steps below.

1 **Click the [Printer Driver] button.**
To install the PC-Fax driver, click the [PC-Fax Driver] button on the "Disc 2" CD-ROM.

*The above screen appears when using the "Disc 1" CD-ROM.

61

2 **Click the [Custom installation] button.**
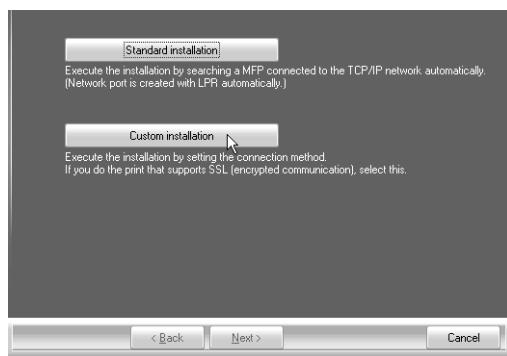
3 **When you are asked how the printer is connected, select [IPP] and click the [Next] button.**
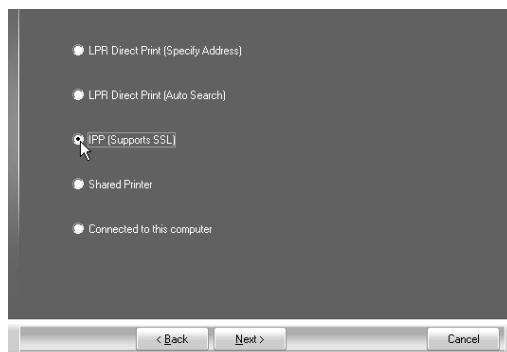
4 **If a proxy server is used, specify the proxy server and click the [Next] button.**
To specify a proxy server, select [Print via the proxy server] and then enter the [Address] and [Port number].

62
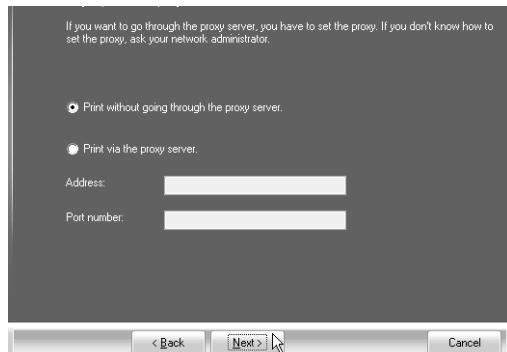
5 **Enter the machine's URL and click the [Next] button.**

Enter the URL in the following format:

Normal format:

http://<the machine's domain name or IP address>:631*1/ipp

*1 Normally "631" should be entered for the port number. If the IPP port number has been changed on the machine, enter the new port number.

When SSL is used:

https://< the machine's domain name or IP address>:<port number*2>/ipp

*2 Normally the port number and the colon ":" immediately preceding the port number can be omitted. If the IPP port number for SSL has been changed on the machine, enter the new port number.
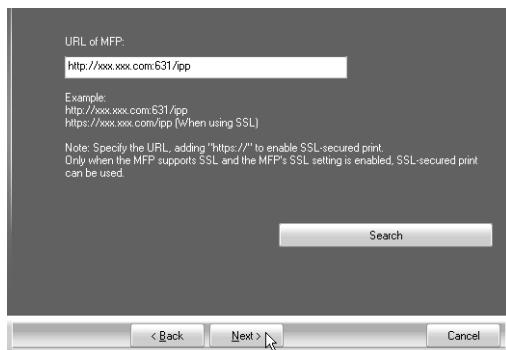
If your computer and the machine are connected to the same local area network, you can click the [Search] button to search for the machine. The machine's URL will appear. Select the URL and click the [OK] button. You will return to the above screen and the machine's URL will be automatically entered.

6 **Perform steps 5 through 12 on page 58 to continue the installation.**

This completes the installation.

• After installation, see "CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE" (page 77) to configure the printer driver settings.

• If you are using the DX-C310/C380 and have installed the PS printer driver or the PPD driver, the PS display fonts can be installed from the "PRINTER UTILITIES" CD-ROM that accompanies the PS3 expansion kit. See "INSTALLING THE PS DISPLAY FONTS (DX-C310/C380)" (page 87).

63

WHEN THE MACHINE WILL BE CONNECTED WITH A USB CABLE

Supported operating systems: Windows 98/Me/2000*/XP*/Server 2003*/Vista*/Server 2008*

* Administrator's rights are required to install the software.

- **Make sure that a USB cable is <u>not connected</u> to your computer and the machine.**
  If a cable is connected, a Plug and Play window will appear. If this happens, click the [Cancel] button to close the window and disconnect the cable.
- If you are using the DX-C310/C380, the PS3 expansion kit is required to use the PS printer driver or the PPD driver.
- To install the PPD driver when Windows 98/Me is used, see "USING THE STANDARD WINDOWS PS PRINTER DRIVER (Windows 98/Me/NT 4.0)" (page 75) and install the driver using the Add Printer Wizard.
- To use the port created when the printer driver is installed for fax data transfer, install the printer driver first and then install the PC-Fax driver.

When the software selection screen appears in step 6 of "OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)" (page 50), perform the steps below.

---

1 **Click the [Printer Driver] button.**

2 Click the [Custom installation] button.

Standard installation

Execute the installation by searching a MFP connected to the TCP/IP network automatically. (Network port is created with LPR automatically.)

Custom installation

Execute the installation by setting the connection method. If you do the print that supports SSL (encrypted communication), select this.

< Back   Next >   Cancel

3 When you are asked how the printer is connected, select [Connected to this computer] and click the [Next] button.

● LPR Direct Print (Specify Address)

● LPR Direct Print (Auto Search)

● IPP (Supports SSL)

● Shared Printer

● Connected to this computer

< Back   Next >   Cancel

4 When you are asked if you wish to install the display fonts, select an answer and click the [Next] button.

65

5 **Follow the on-screen instructions.**

Read the message in the window that appears and click the [Next] button.
When the installation completed screen appears, click the [OK] button.

- -

- **If you are using Windows Vista/Server 2008**
  If a security warning window appears, be sure to click [Install this driver software anyway].

- **If you are using Windows 2000/XP/Server 2003**
  If a warning message regarding the Windows logo test or digital signature appears, be sure to click the [Continue Anyway] or [Yes] button.

6 **Click the [Close] button in the window of step 1.**

When a message appears prompting you to connect the machine to your computer, click the [OK] button.

- -

After the installation, a message prompting you to restart your computer may appear. If this message appears, click the [Yes] button to restart your computer.

7 **Connect the machine to your computer with a USB cable.**

(1) Make sure that the machine is powered on.

(2) Connect the cable to the USB connector (B type) on the machine.
The USB interface on the machine complies with the USB 2.0 (Hi-Speed) standard. Please purchase a shielded USB cable.
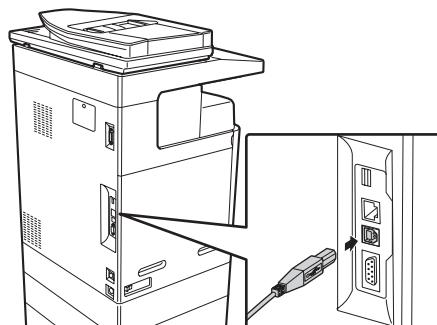
(3) Connect the other end of the cable to the USB connector (A type) on your computer.
The machine is found and a Plug and Play window appears.

66

8 Installation of the PCL6 printer driver begins.

When the "Found New Hardware Wizard" appears, select [Install the software automatically (Recommended)], click the [Next] button, and follow the on-screen instructions.

- -

- **If you are using Windows Vista/Server 2008**
  If a security warning window appears, be sure to click [Install this driver software anyway].

- **If you are using Windows 2000/XP/Server 2003**
  If a warning message regarding the Windows logo test or digital signature appears, be sure to click the [Continue Anyway] or [Yes] button.

This completes the installation.
- After installing the printer driver, see "CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE" (page 77) to configure the printer driver settings.
- If you are using the machine as a shared printer, see "USING THE MACHINE AS A SHARED PRINTER" (page 72) to install the printer driver on each of the client computers.

When installing the PCL5c printer driver, PS printer driver, PPD driver, or PC-Fax driver
Installation is possible even after the USB cable has been connected. When the software selection screen appears in step 6 of "OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)" (page 50), perform the steps below.

1 **Click the [Printer Driver] button.**
To install the PC-Fax driver, click the [PC-Fax Driver] button on the "Disc 2" CD-ROM.

*The above screen appears when using the "Disc 1" CD-ROM.

2 **Click the [Custom installation] button.**

68

3 **When you are asked how the printer is connected, select [Connected to this computer] and click the [Next] button.**

- LPR Direct Print (Specify Address)
- LPR Direct Print (Auto Search)
- IPP (Supports SSL)
- Shared Printer
- Connected to this computer

4 **When the port selection window appears, select the port that the PCL6 printer driver is using (USB001, etc.) and click the [Next] button.**

5 **When the printer driver selection window appears, remove the [PCL6] checkmark and select the printer driver to be installed, and then click the [Next] button.**
Click the checkbox of the printer driver to be installed so that a checkmark (✓) appears.

- PCL6
- PCL5c
- PS
- PPD

*The screen shows the installer for the DX-C311/C381.

- -

- When the PC-Fax driver is being installed, this screen does not appear. Go to the next step.
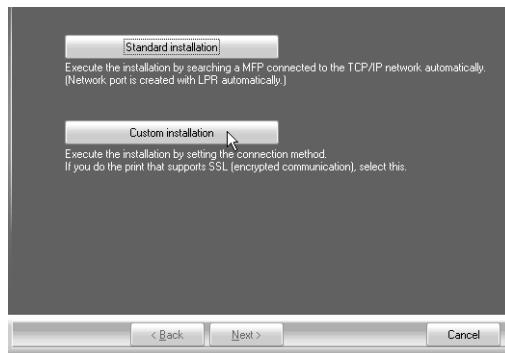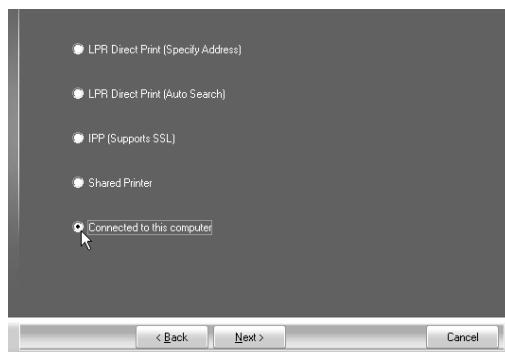- If you are using the DX-C310/C380, the PS3 expansion kit is required to use the PS printer driver or the PPD driver.
- The [PPD] checkbox only appears if you are using Windows 2000/XP/ Server 2003/Vista/Server 2008.

6 Select whether or not you wish the printer to be your default printer and click the [Next] button.

If you are installing multiple drivers, select the printer driver to be used as the default printer.

If you do not wish to set one of the printer drivers as the default printer, select [No].

7 When the printer name window appears, click the [Next] button.

If you wish to change the printer name, enter the desired name and click the [Next] button.

8 When you are asked if you wish to install the display fonts, select [No] and click the [Next] button.

When the PC-Fax driver is being installed, this screen does not appear. Go to the next step.

9 Follow the on-screen instructions.

Read the message in the window that appears and click the [Next] button. Installation begins.

- -

- **If you are using Windows Vista/Server 2008**
  If a security warning window appears, be sure to click [Install this driver software anyway].

- **If you are using Windows 2000/XP/Server 2003**
  If a warning message regarding the Windows logo test or digital signature appears, be sure to click the [Continue Anyway] or [Yes] button.

10 When the installation completed screen appears, click the [OK] button.

11 Click the [Close] button in the window of step 1.

- -

After the installation, a message prompting you to restart your computer may appear. If this message appears, click the [Yes] button to restart your computer.

70

This completes the installation.

• After installation, see "CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE" (page 77) to configure the printer driver settings.

• Make sure that the port of the installed driver is the same as the port used by the PCL6 printer driver.
The port used by the printer driver of the machine is indicated by a checkmark on the [Ports] tab of the printer driver properties window. (In Windows 98/Me, this is the port selected in [Print to the following port] on the [Details] tab.)
☞ CHANGING THE PORT (page 89)

• If you are using the DX-C310/C380 and have installed the PS printer driver or the PPD driver, the PS display fonts can be installed from the "PRINTER UTILITIES" CD-ROM that accompanies the PS3 expansion kit. See "INSTALLING THE PS DISPLAY FONTS (DX-C310/C380)" (page 87).

USING THE MACHINE AS A SHARED PRINTER

If you are going to use the machine as a shared printer on a Windows network with the printer driver or the PC-Fax driver installed on a print server, follow the steps below to install the printer driver or the PC-Fax driver on the client computers.

- Ask your network administrator for the server name and printer name of the machine on the network.

- For the procedure for configuring settings on the print server, see the operation manual or the Help file of the operating system. The "print server" explained here is a computer that is connected directly to the machine, and "clients" are other computers connected to the same network as the print server.

- Install the same printer driver on client computers as the printer driver that is installed on the print server.

- If the PPD driver is installed on the print server and the client computers are running Windows 98/Me/NT 4.0, see "USING THE STANDARD WINDOWS PS PRINTER DRIVER (Windows 98/Me/NT 4.0)" (page 75) to install the printer driver using the Add Printer Wizard.

When the software selection screen appears in step 6 of "OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)" (page 50), perform the steps below.
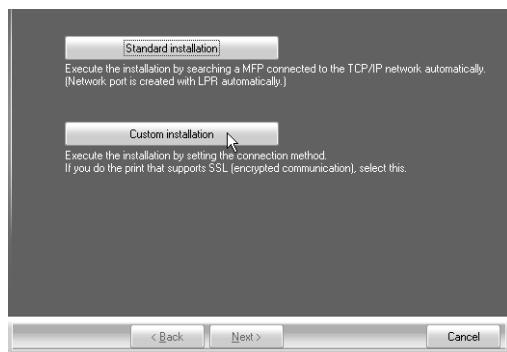
72

1 **Click the [Printer Driver] button.**

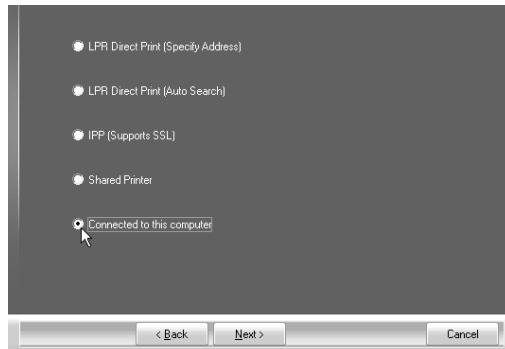To install the PC-Fax driver, click the [PC-Fax Driver] button on the "Disc 2" CD-ROM.
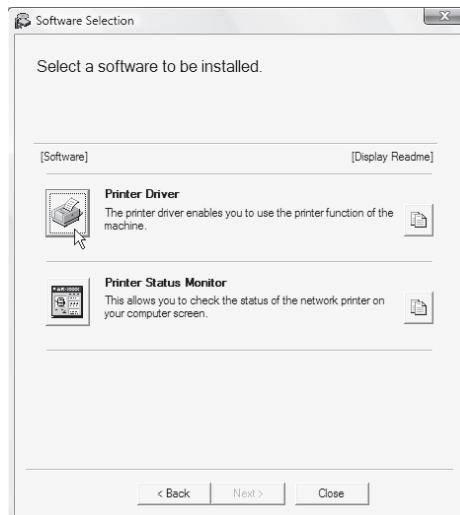
*The above screen appears when using the "Disc 1" CD-ROM.

2 **Click the [Custom installation] button.**

3 **Select [Shared Printer] and click the [Next] button.**

73
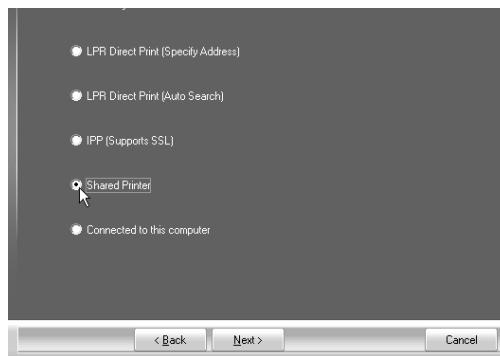
4 **Select the printer name (configured as a shared printer).**

          (1)   **(2)**
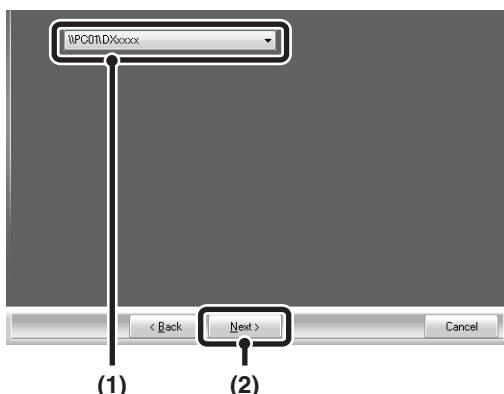
(1) Select the printer name (configured as a shared printer on a print server) from the list.
If you are using Windows 98/Me/NT 4.0/2000/XP/Server 2003, you can also click the [Add Network Port] button displayed below the list and select the printer to be shared by browsing the network in the window that appears.

(2) Click the [Next] button.

. . . .

If the shared printer does not appear in the list, check the settings on the print server.

5 **Perform steps 5 through 12 on page 58 to continue the installation.**
In the printer driver selection screen, be sure to select the same type of printer driver as the printer driver installed on the print server.

This completes the installation.
If you are using the DX-C310/C380 and have installed the PS printer driver or the PPD driver, the PS display fonts can be installed from the "PRINTER UTILITIES" CD-ROM that accompanies the PS3 expansion kit. See "INSTALLING THE PS DISPLAY FONTS (DX-C310/C380)" (page 87).

74

USING THE STANDARD WINDOWS PS PRINTER DRIVER (Windows 98/Me/NT 4.0)

If you wish to use the standard Windows 98/Me/NT 4.0 PS printer driver, follow the steps below to install the PPD driver using the Add Printer Wizard.

> • If you are using the DX-C310/C380, the PS3 expansion kit is required to use the PPD driver.
> • The CD-ROM does not include software for Windows 98/Me/NT 4.0. Contact your dealer or nearest authorised service representative if you want software for Windows 98/Me/NT 4.0.
> • If you are using Windows 2000/XP/Server 2003/Vista/Server 2008, you can install the PPD driver from the installer.
> • Be sure to view the Readme file (Readme.txt) before installing the PPD driver. The Readme file will be in the [English] folder inside the folder that contains the extracted files after you get the software.

1 Download the software and save the extracted files in any folder.

2 Click the [Start] button, select [Settings] and then click [Printers].

3 Double-click the [Add printer] icon.
The "Add Printer Wizard" will appear.

4 Follow the on-screen instructions.
When you are asked to specify the path of the PPD file, enter the path as follows.

Operating system	PPD file path
Windows 98/Me	(Folder containing extracted files)\English\PPD\9XME
Windows NT 4.0	(Folder containing extracted files)\English\PPD\NT40

After installation, see "CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE" (page 77) to configure the printer driver settings.

75

▶ Installing the resident font information (Windows 98/Me)

If you have installed the PPD driver on Windows 98/Me and will be using the resident fonts in the machine, you must install the resident font information. Follow the procedure below to install the resident font information.

> • Before installing the resident font information, be sure to install the PPD driver.
>
> • In the event that a resident font cannot be selected in a software application, install the resident font information again.

1 **Double-click the folder where the extracted files are saved when you installed the PPD driver.**

2 **Double-click the [English] folder, the [PPD] folder, the [9XME] folder, and then [PFMSetup.exe].**

3 **Follow the on-screen instructions.**
After the resident font information has been installed, restart your computer.

CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE

After installing the printer driver, you must configure the printer driver settings appropriately for the options that have been installed and the size and type of paper loaded in the machine. Follow the steps below to configure the printer driver.

> If the PPD driver is installed, see "When the PPD driver is installed" (page 80).

▶ When the PCL printer driver or PS printer driver is installed

1 Click the [Start] button ( ), click [Control Panel], and then click [Printer].

- In Windows XP/Server 2003, click the [start] button and then click [Printers and Faxes].
- In Windows 98/Me/NT 4.0/2000, click the [Start] button, select [Settings], and then click [Printers].

- -

> If [Printers and Faxes] does not appear in the [start] menu in Windows XP, click the [start] button, click [Control Panel], click [Printers and Other Hardware], and then click [Printers and Faxes].

2 Open the printer properties window.
(1) Right-click the printer driver icon of the machine.
(2) Select [Properties].

3 Click the [Configuration] tab.
In Windows 98/Me, click the [Setup] tab and then click the [Configuration] tab in the window that appears.

77

4 **Click the [Auto Configuration] button.**

The settings are automatically configured based on the detected machine status.
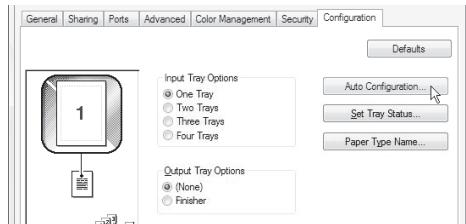
*The screen shows the PCL6 printer driver.

5 **Configure the image of the machine.**

An image of the machine is formed in the printer driver configuration window based on the options that are installed.
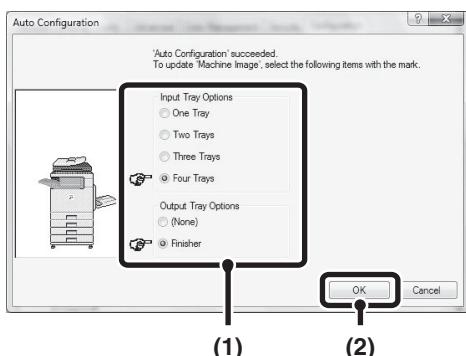
(1) Select the options that are installed on the machine.

(2) Click the [OK] button.

To cancel the image settings, click the [Cancel] button.

6 **Click the [OK] button in the printer properties window.**

If automatic configuration fails, configure the settings manually.

• You can check the options that are installed and the tray settings by printing out the "All Custom Setting List" in the system settings of the machine. (However, note that "Input Tray Options" must be set to the number of trays on the machine.) The "All Custom Settings List" can be printed from [List Print (User)] in the system settings.

• Click the [Set Tray Status] button and the [Paper Type Name] button to check the settings of each.

Set Tray Status: The "Tray Settings" in "Paper Tray Settings" in system settings of the machine are reflected in the settings shown here. Specify the size and type of paper loaded in each tray.

Paper Type Name: The "Paper Type Registration" settings in "Paper Tray Settings" in the system settings of the machine are reflected in the settings shown here. If a user type name (1 to 7) was changed, enter the changed name.

79

► When the PPD driver is installed

1 Click the [Start] button ( ), click [Control Panel], and then click [Printer].

- In Windows XP/Server 2003, click the [start] button and then click [Printers and Faxes].
- In Windows 98/Me/NT 4.0/2000, click the [Start] button, select [Settings], and then click [Printers].

- -

If [Printers and Faxes] does not appear in the [start] menu in Windows XP, click the [start] button, click [Control Panel], click [Printers and Other Hardware], and then click [Printers and Faxes].

2 Open the printer properties window.
**(1) Right-click the printer driver icon of the machine.**
(2) Select [Properties].

INSTALLING THE PRINTER DRIVER / PC-FAX DRIVER

3 Configure the printer driver for the options installed on the machine.

(1)

General	Sharing	Port
Color Management	Security	**Device Settings**

USER TYPE6: A4
USER TYPE7: A4
Font Substitution Table
Available PostScript Memory: 31999 KB
Output Protocol: ASCII
Send CTRL-D Before Each Job: No
Send CTRL-D After Each Job: Yes
Convert Gray Text to PostScript Gray: No
Convert Gray Graphics to PostScript Gray: No
Add Euro Currency Symbol to PostScript Fonts: No
Job Timeout: 0 seconds
Wait Timeout: 300 seconds
Minimum Font Size to Download as Outline: 100 pixel(s)
Maximum Font Size to Download as Bitmap: 600 pixel(s)
Installable Options
Input Tray Options: **Four Trays**
Output Tray Options: **Finisher**

OK   Cancel   Apply

(2)   **(3)**

(1) Click the [Device Settings] tab.
In Windows 98/Me, click the [Device Options] tab.

(2) Configure each item based on the machine configuration.
The items and the procedures for configuring the items vary depending on the operating system version.

(3) Click the [OK] button.

. . . .

You can check the options that are installed on the machine by printing out the "All Custom Setting List" in the system settings. (However, note that "Input Tray Options" must be set to the number of trays on the machine.) The "All Custom Settings List" can be printed from [List Print (User)] in the system settings.

81

INSTALLING THE PRINTER STATUS MONITOR

Printer Status Monitor is a printer utility that allows general users to check the current status of the machine on their computer screen, such as whether or not the machine is ready to print. The Printer Status Monitor shows error information such as paper misfeeds, printer configuration information (whether or not a finisher is installed, etc.) as an image, the paper sizes that can be used, and the amount of paper remaining.

> The Printer Status Monitor cannot be used in the following situations:
> • When the machine is connected by a USB cable.
> • When printing to the machine using the IPP function.

**Supported operating systems: Windows 98/Me/NT 4.0*/2000*/XP*/
Server 2003*/Vista*/Server 2008***
* Administrator's rights are required to install the software.

When the software selection screen appears in step 6 of "OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)" (page 50), perform the steps below.

1 **Click the [Printer Status Monitor] button.**

2 **Follow the on-screen instructions.**

3 **When the installation completed screen appears, click the [Finish] button.**

To have the Printer Status Monitor start automatically when your computer is started, select the [Add this program to your Startup folder] checkbox ☑ and click the [Finish] button.

4 **Click the [Close] button in the window of step 1.**

- -

After the installation, a message prompting you to restart your computer may appear. If this message appears, click the [Yes] button to restart your computer.

This completes the installation.
For the procedures for using the Printer Status Monitor, see the Help file. Follow these steps to view the Help file:
Click the Windows [start] button, select [All Programs] ([Programs] in Windows 98/Me/NT 4.0/2000), select [SHARP Printer Status Monitor] and then select [Help].

INSTALLING THE SCANNER DRIVER

The scanner driver (TWAIN driver) can only be used when the machine is connected to a network. When the scanner driver is installed, PC scan mode of the image send function can be used.
Supported operating systems: Windows 98/Me/2000*/XP*/Server 2003*/ Vista*/Server 2008*
* Administrator's rights are required to install the software.

After performing step 1 through step 5 of "OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)" (page 50), continue the steps below.

1 **Click the [Scanner Driver (TWAIN)] button.**
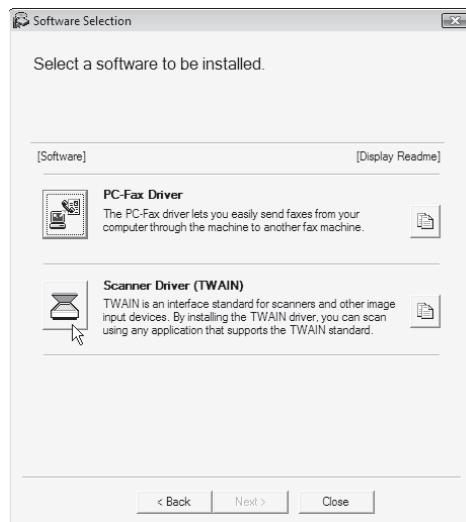
Software Selection
Select a software to be installed.
[Software] [Display Readme]
PC-Fax Driver The PC-Fax driver lets you easily send faxes from your computer through the machine to another fax machine.
Scanner Driver (TWAIN) TWAIN is an interface standard for scanners and other image input devices. By installing the TWAIN driver, you can scan using any application that supports the TWAIN standard.
< Back Next > Close

2 **Follow the on-screen instructions.**
Read the message in the window that appears and click the [Next] button.

3 **When the finish setup window appears, click the [OK] button.**

4 **Click the [Close] button in the window of step 1.**

- -

After the installation, a message prompting you to restart your computer may appear. If this message appears, click the [Yes] button to restart your computer.

This completes the installation. Next, configure the IP address of the machine in the scanner driver.
When the scanner driver is installed, the "Select Device" utility is also installed. The IP address of the machine is configured in the scanner driver using "Select Device".

5 **Click the [start] button, select [All Programs] ([Programs] in Windows 98/Me/2000), select [SHARP MFP TWAIN V], and then select [Select Device].**

6 **Click the [Search] button.**
If you know the IP address, you can click the [Input] key and enter the IP address without searching.

85
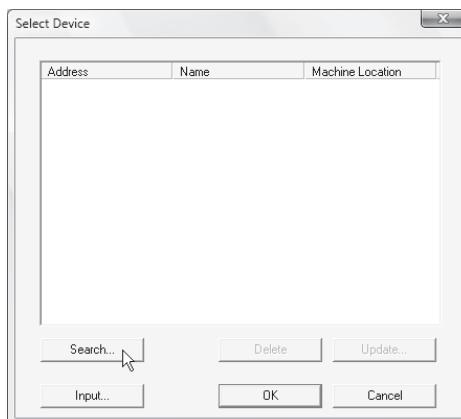
7 **Select the IP address of the machine from the "Address" menu and click the [OK] button.**

- Be sure to ask your system administrator (network administrator) for the IP address of the machine.

- The name (host name) or IP address of the machine can be directly entered in "Address".

- If the port number used by the scanner function of the machine has been changed, enter a colon ":" following the IP address and then enter the port number. (Normally the port number does not need to be entered.)
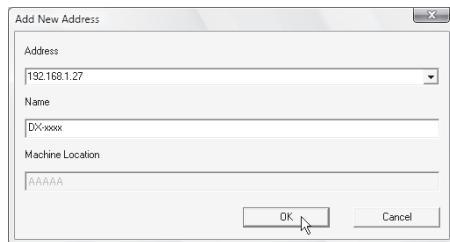
8 **Click the [OK] button.**
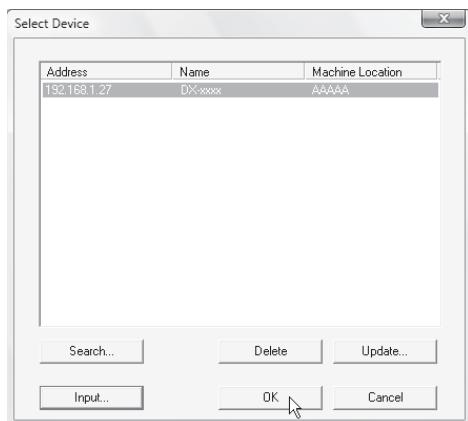
This completes the configuration of the scanner driver.

INSTALLING THE PS DISPLAY FONTS (DX-C310/C380)

Fonts that can be used by the PS printer driver are contained on the "PRINTER UTILITIES" CD-ROM that accompanies the PS3 expansion kit. Install these fonts as needed for the PS printer driver.

1 **Insert the "PRINTER UTILITIES" CD-ROM that accompanies the PS3 expansion kit into your computer's CD-ROM drive.**

2 **Click the [Start] button ( ), click [Computer], and then double-click the [CD-ROM] icon ( ).**
- In Windows XP/Server 2003, click the [start] button, click [My Computer], and then double-click the [CD-ROM] icon.
- In Windows 98/Me/NT 4.0/2000, double-click [My Computer], and then double-click the [CD-ROM] icon.

3 **Double-click the [Setup] icon ( ).**

In Windows Vista/Server 2008, if a message screen appears asking you for confirmation, click [Allow].

4 **The "SOFTWARE LICENSE" window will appear. Make sure that you understand the contents of the license agreement and then click the [Yes] button.**

You can show the "SOFTWARE LICENSE" in a different language by selecting the desired language from the language menu. To install the software in the selected language, continue the installation with that language selected.

5 **Read the message in the "Welcome" window and then click the [Next] button.**

6 **Click the [PS Display Font] button.**
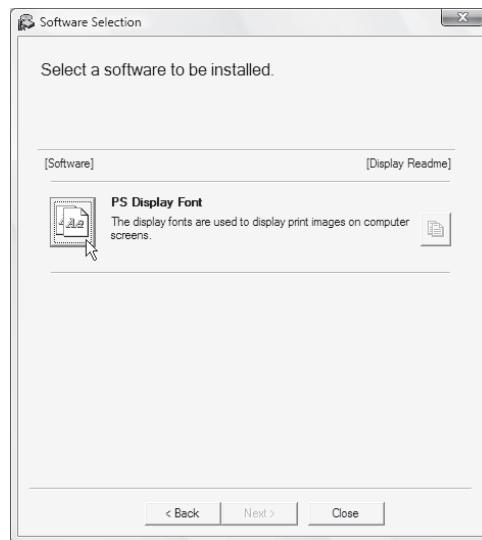
7 **Follow the on-screen instructions.**

8 **Click the [Close] button in the screen of step 6.**

CHANGING THE PORT

When using the machine in a Windows environment, follow the steps below to change the port when you have changed the IP address of the machine or have installed the PC-Fax driver when the machine is connected with a USB cable.

1 Click the [Start] button ( ), click [Control Panel], and then click [Printer].
- In Windows XP/Server 2003, click the [start] button and then click [Printers and Faxes].
- In Windows 98/Me/NT 4.0/2000, click the [Start] button, select [Settings], and then click [Printers].

- -

If [Printers and Faxes] does not appear in the [start] menu in Windows XP, click the [start] button, click [Control Panel], click [Printers and Other Hardware], and then click [Printers and Faxes].

2 Open the printer properties window.
(1) Right-click the printer driver icon of the machine.
(2) Select [Properties].

89

3 **Adding or changing a port.**

(1) Click the [Ports] tab.
In Windows 98/Me, click the [Details] tab.

(2) Click the [Add Port] button.

(2)   **(1)**
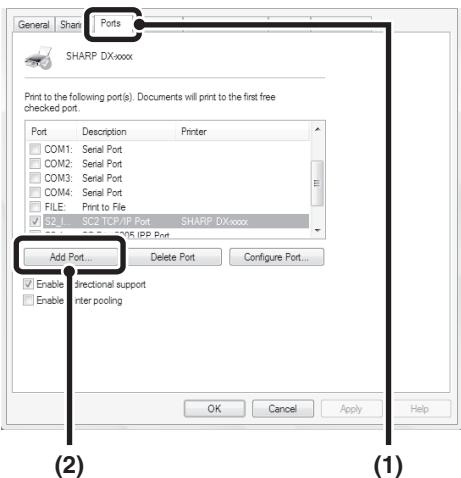
To change to a previously created port such as USB port, select the desired port (USB001, etc.) from the list and click the [Apply] button. This changes the port.

4 **Select [SC2 TCP/IP Port] and then click the [New Port] button.**

In Windows 98/Me, select [Other], [SC2 TCP/IP Port], and then click the [OK] button.
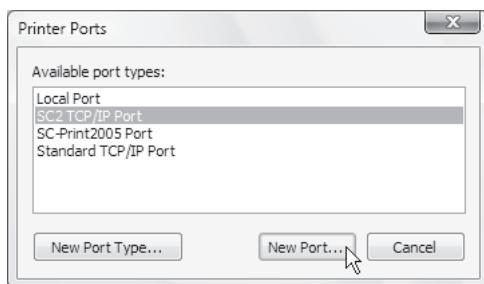
• The "SC2 TCP/IP Port" is added when the printer driver is installed using a "Standard installation", or a "Custom installation" with "LPR Direct Print (Specify Address/Auto Search)" selected.

• If the printer driver is installed using a "Custom installation" with "IPP" selected, the [SC-Print2005 Port] is added. If you need to change the printer port when the machine is connected to an intranet or a wide area network (WAN) using the IPP function, select [SC-Print2005 Port], click the [New Port] button (the [OK] button in Windows 98/Me), and follow the on-screen instructions to create the port again.

90

5 Create the new port.

(1) Enter the machine's IP address.
☞ Checking the IP address of the machine (page 49)

(2) Make sure that [LPR] is selected.

(3) Make sure that [lp] is entered.

(4) Click the [OK] button.

Port Settings

Printer Name or IP Address:
192.168.1.27

Port Name:
S2_IP_192.168.1.27

Protocol:
⊙ LPR
○ Raw

LPR Settings
Queue Name:
lp
☐ LPR Byte Counting Enabled

Raw Settings:
Port Number:
9100

About...

OK   Cancel

(1) (2)   (3)   (4)
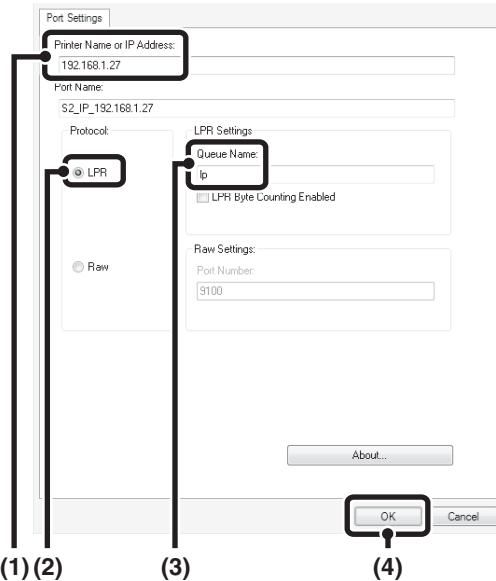
6 Click the [Close] button in the screen of step 4.
In Windows 98/Me, this step is not required. Go to the next step.

7 Make sure the created printer port is selected in the printer properties window and then click the [Apply] button.

▶ When using a port created with "Standard TCP/IP Port"

When using a port created using "Standard TCP/IP Port" in Windows 2000/XP/Server 2003/Vista/Server 2008, in the screen that appears after you click the [Configure Port] button in the screen of step 3, make sure the [SNMP Status Enabled] checkbox is not selected (☐). If the [SNMP Status Enabled] checkbox is selected (☑), it may not be possible to print correctly.

91

3 SETUP IN A MACINTOSH ENVIRONMENT

This chapter explains how to install the PPD file to enable printing from a Macintosh and how to configure the printer driver settings.

☞ MAC OS X: this page
   (v10.2.8, v10.3.9, v10.4.11, v10.5 - 10.5.1)

☞ MAC OS 9.0 - 9.2.2: page 102

- To use the machine as a printer in a Macintosh environment, the machine must be connected to a network. A USB connection cannot be used.
- If you are using the DX-C310/C380, the PS3 expansion kit is required to use the machine as a printer in a Macintosh environment.
- The scanner driver and PC-Fax driver cannot be used in a Macintosh environment.

MAC OS X

The explanations of screens and procedures are primarily for Mac OS X v10.4. The screens may vary in other versions of the operating system.

1 **Insert the "Software CD-ROM" into your computer's CD-ROM drive.**
Insert the "Software CD-ROM" that shows "Disc 2" on the front of the CD-ROM.

2 **Double-click the [CD-ROM] icon ( ) on the desktop.**

3 **Double-click the [MacOSX] folder.**
Before installing the software, be sure to read "ReadMe First". "ReadMe First" is in the [English] folder in the [Readme] folder.

4 **Double-click the folder corresponding to the versions of the operating system.**

v10.2.8 — Version 10.2

v10.3.9 — Version 10.3

v10.4.11 — Version 10.4

v10.5 - 10.5.1 — Version 10.5

Readme
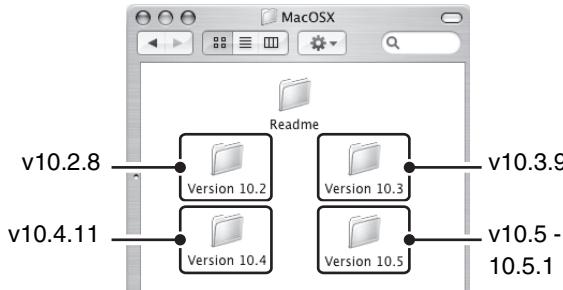
5 **Double-click the [MX-PBX1] icon ( ).**

If the "Authenticate" window appears in Mac OS X v10.2.8, enter the password and click the [OK] button.

6 **Click the [Continue] button.**

Welcome to the   Installer

This Mac OS X installer will install the printer driver.

It is strongly recommended that you exit all programs before running this Setup program.

○ Introduction
● License
● Select Destination
● Installation Type
● Install
● Finish Up

Go Back   Continue

7 **The License Agreement window will appear. Make sure that you understand the contents of the license agreement and then click the [Continue] button.**
A message will appear asking you if you agree to the terms of the license. Click the [Agree] button.

If the license appears in the different language, change the language in the language menu.

93

8 **Select the hard drive where the PPD file will be installed and click the [Continue] button.**

Be sure to select the hard drive on which your operating system is installed.

9 **Click the [Install] button.**

Installation begins.

. . . .
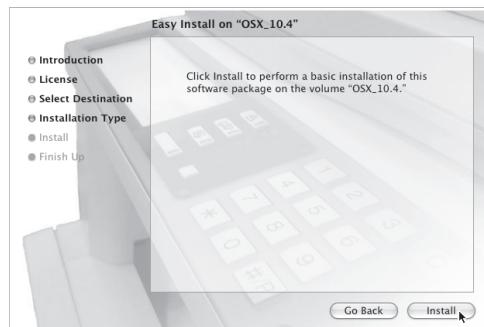
If the "Authenticate" window appears, enter the password and click the [OK] button.

10 **When the message "The software was successfully installed" appears in the installation window, click the [Close] button.**

This completes the installation of the software. Next, configure the printer driver settings.

11 Select [Utilities] from the [Go] menu.

- If you are using Mac OS X v10.5 to 10.5.1, click [System Preferences] in the Apple menu ( ) and select [Print & Fax] ( ). When the screen for adding a printer appears, click the + button and go to step 14.
- If you are using Mac OS X v10.2.8, select [Applications] from the [Go] menu.

12 Double-click the [Printer Setup Utility] icon ( ).

If you are using Mac OS X v10.2.8, double-click the [Utilities] folder and then double-click the [Print Center] icon.

- -

If this is the first time you are installing a printer driver on your computer, a confirmation message will appear. Click the [Add] button.

13 Click [Add].

95
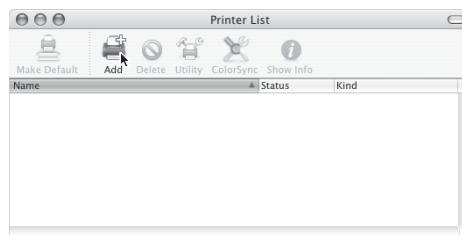
14 Configure the printer driver.

- The procedure for configuring the printer driver varies depending on the operating system version. The procedure for versions 10.4.11 and 10.5 - 10.5.1 and the procedure for other versions are explained separately below.
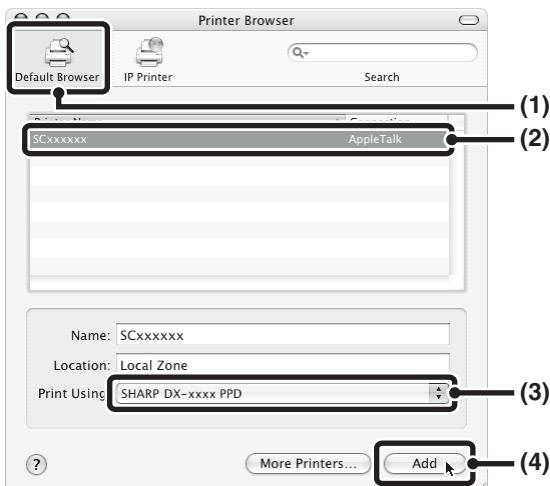- The machine can print using the IPP function. If you wish to use the IPP function, see "Printing using the IPP function" (page 100) to configure the printer driver settings.

v10.4.11, v10.5 - 10.5.1

(1) Click the [Default Browser] icon.
- If multiple AppleTalk zones are displayed, select the zone that includes the printer from the menu.
- If you are using Mac OS X v10.5 to 10.5.1, click the [Default] icon.

(2) Click the machine's model name.
- The machine's model name usually appears as [SCxxxxxx]. ("xxxxxx" is a sequence of characters that varies depending on your model.)
- The PPD file of the machine is automatically selected.

(3) Make sure that the PPD file of your model is selected.

(4) Click the [Add] button.
The PPD file of the machine is automatically selected and the peripheral devices installed on the machine are detected and automatically configured.

96

v10.2.8, v10.3.9

(1) Select [AppleTalk].
If multiple AppleTalk zones are displayed, select the zone that includes the printer from the menu.
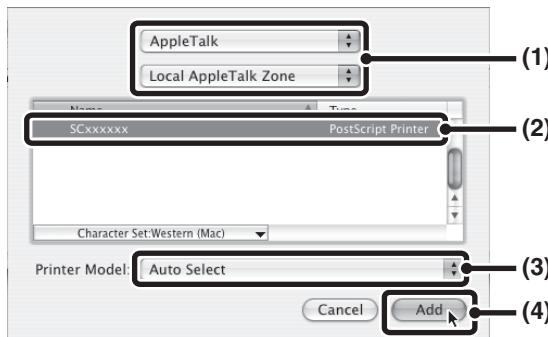
(2) Click the machine's model name.
The machine's model name usually appears as [SCxxxxxx]. ("xxxxxx" is a sequence of characters that varies depending on your model.)

(3) Select the PPD file of the machine.
- If you are using Mac OS X v10.3.9, select [Auto Select].
- If you are using Mac OS X v10.2.8, select [Sharp] and click the PPD file of your model.

(4) Click the [Add] button.
If you are using Mac OS X v10.3.9, the PPD file of the machine is automatically selected and the peripheral devices installed on the machine are detected and automatically configured.

- -

The PPD file is installed in the following folders on the startup disk.
[Library] - [Printers] - [PPDs] - [Contents] - [Resources] - [en.lproj]

97

15 Display printer information.

(2)
(1)
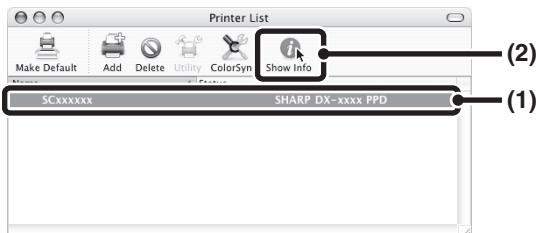
(1) Click the machine's name.
If you are using Mac OS X v10.5 to 10.5.1, click the [Options & Supplies] button, click the [Driver] tab and go to step 16.

(2) Click [Show Info].
If you are using Mac OS X v10.2.8, select [Show Info] from the [Printers] menu.

16 Select the machine configuration.
If you selected [Auto Select] in (3) of step 14, the machine configuration is detected and automatically configured. Check the configured settings to make sure they are correct.

(4)
(1)
(2)
(3)
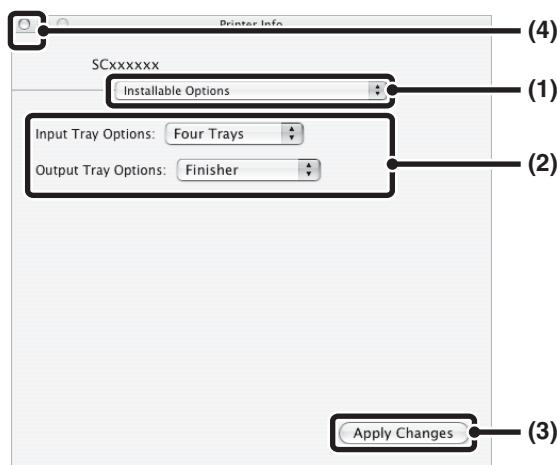
(1) Select [Installable Options].
If you are using Mac OS X v10.5 to 10.5.1, it does not appear.

(2) Select the options that are installed on the machine.

(3) Click the [Apply Changes] button.
If you are using Mac OS X v10.5 to 10.5.1, click the [OK] button.

98

(4) Click to close the window.

You can check the options that are installed on the machine by printing out the "All Custom Setting List" in the system settings. (However, note that "Input Tray Options" must be set to the number of trays on the machine.) The "All Custom Settings List" can be printed from [List Print (User)] in the system settings.

This completes the configuration of the printer driver.

▶ Printing using the IPP function

The machine can print using the IPP function. When the machine is in a remote location, this function can be used in place of the fax function to print a higher quality image than a fax. If you wish to use the IPP function, follow these steps to select the PPD file when configuring the printer driver (step 14 on page 96).

v10.4.11, v10.5 - 10.5.1
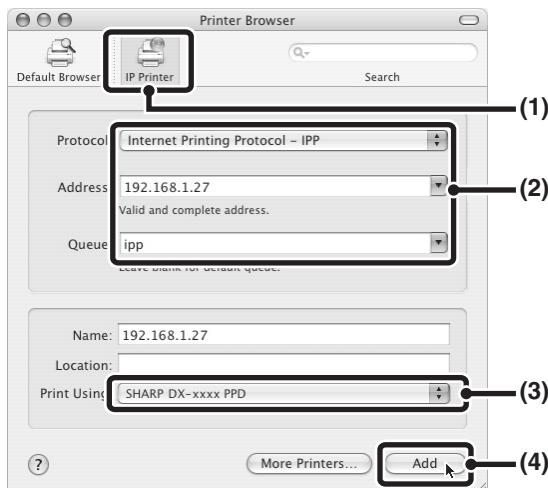
(1) Click the [IP Printer] icon.
If you are using Mac OS X v10.5 to 10.5.1, click the [IP] icon.

(2) Select [Internet Printing Protocol] in "Protocol". Enter the address of the machine (IP address or domain name) and the queue name.
Enter "ipp" in "Queue".

(3) Select [Sharp] in "Print Using" and click the PPD file of your model.
If you are using Mac OS X v 10.5 to 10.5.1, select [Select a driver to use] from "Print Using" and click the PPD file for your model.

(4) Click the [Add] button.
If you are using Mac OS X v 10.5 to 10.5.1, the "Installable Options" screen will appear. Make sure that the settings are correct and click the [Continue] button.

☞ Checking the IP address of the machine (page 49)

v10.2.8, v10.3.9
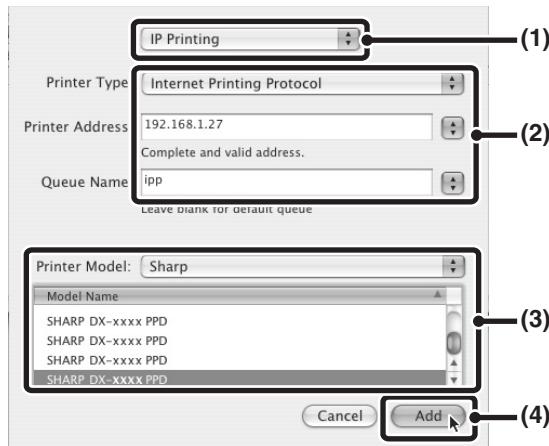
(1) Select [IP Printing].

(2) Select [Internet Printing Protocol] in "Printer Type". Enter the address of the machine (IP address or domain name) and the "Queue Name".
  • If you are using Mac OS X v10.2.8, enter the address of the machine (IP address or domain name) in "Printer's Address".
  • Enter "ipp" in "Queue Name".

(3) Select [Sharp] in "Printer Model" and click the PPD file of your model.

(4) Click the [Add] button.

☞ Checking the IP address of the machine (page 49)

101

MAC OS 9.0 - 9.2.2

If you are using Mac OS 9.0 to 9.2.2, make sure that "LaserWriter 8" has been installed and that the "LaserWriter 8" checkbox is selected ☒ in "Extensions Manager" in "Control Panels". If not, install it from the system CD-ROM supplied with your Macintosh computer.

1 **Insert the "Software CD-ROM" into your computer's CD-ROM drive.**
Insert the "Software CD-ROM" that shows "Disc 2" on the front of the CD-ROM.

2 **Double-click the [CD-ROM] icon ( ) on the desktop.**

3 **Double-click the [MacOS] folder.**
Before installing the software, be sure to read "ReadMe First". "ReadMe First" is in the [English] folder in the [Readme] folder.

4 **Double-click the [Installer] icon ( ).**

5 **Click the [Install] button.**

6 **The License Agreement window will appear. Make sure that you understand the contents of the license agreement and then click the [Yes] button.**

7 **Read the message in the window that appears and click the [Continue] button.**

Installation of the PPD file begins.

After the installation, a message prompting you to restart your computer will appear. Click the [OK] button and restart your computer.

This completes the installation of the software. Next, configure the printer driver settings.

8 **Select [Chooser] from the Apple Menu.**

9 **Create a printer.**
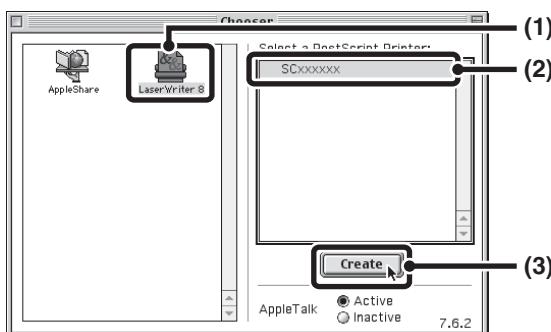
(1) Click the [LaserWriter 8] icon.

If multiple AppleTalk zones are displayed, select the zone that includes the printer.

(2) Click the machine's model name.

The machine's model name usually appears as [SCxxxxxx]. ("xxxxxx" is a sequence of characters that varies depending on your model.)

(3) Click the [Create] button.

103

10 **Select the PPD file.**

- (1) Click the PPD file for your model.
- (2) Click the [Select] button.

- -
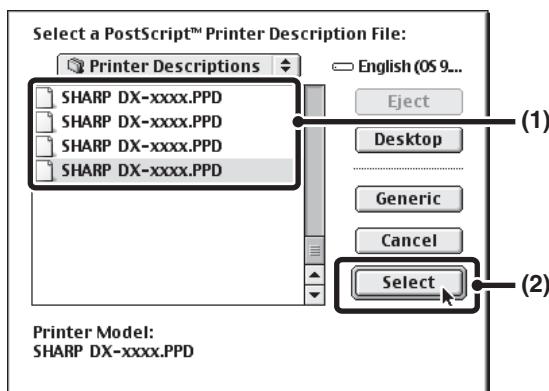
- If the above dialog box does not appear and you return to the "Chooser" dialog box, follow these steps to select the PPD file manually.
  (1) Make sure that the machine is selected in the "Select a PostScript Printer" list, and then click the [Setup] button followed by the [Select PPD] button.
  (2) Select the PPD file for your model and click the [Open] button.
  (3) Click the [OK] button.
- The PPD file is installed in the [Printer Descriptions] folder in the [Extensions] folder.

11 **Make sure that the machine is selected in the "Select a PostScript Printer" list and then click the [Setup] button.**

12 **Click the [Configure] button.**

- -
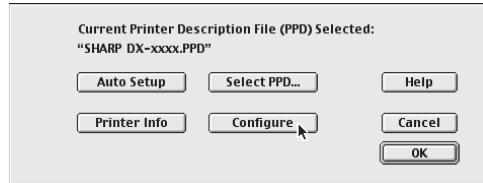
To automatically configure the settings based on the installed machine options that are detected, click the [Auto Setup] button.

104

13 **Select the machine configuration.**

Current Printer Description File (PPD) Selected:
"SHARP DX-xxxx.PPD"
Installable Options

Input Tray Options: Four Trays

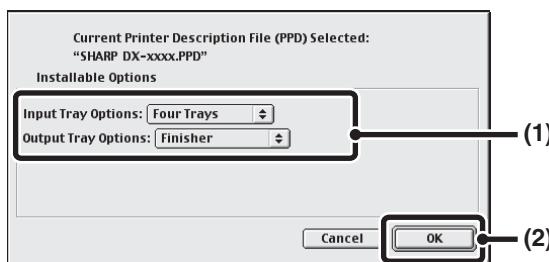Output Tray Options: Finisher

— **(1)**

Cancel   OK   — **(2)**

(1) Select the options that are installed on the machine.

(2) Click the [OK] button.

You can check the options that are installed on the machine by printing out the "All Custom Setting List" in the system settings. (However, note that "Input Tray Options" must be set to the number of trays on the machine.) The "All Custom Settings List" can be printed from [List Print (User)] in the system settings.

14 **Click the [OK] button in the window of step 12 to close the window.**

15 **Click the close box (▢) to close the "Chooser".**

This completes the configuration of the printer driver.

Installing the screen fonts

The screen fonts for Mac OS 9.0 - 9.2.2 are contained in the [Font] folder of the "Software CD-ROM" (Disc 2). (If you are using the DX-C310/C380, the screen fonts for Mac OS 9.0 - 9.2.2 are contained in the [Font] folder of the "PRINTER UTILITIES" CD-ROM that accompanies the PS3 expansion kit.) Copy the fonts that you wish to install to the [System Folder] of the startup disk.

If you experience problems that may be due to the installed screen fonts, immediately delete the installed fonts from the system.

105

WHEN INSTALLATION WAS NOT SUCCESSFUL

This section provides solutions to possible installation problems. See the following table of contents to locate the appropriate page for your question or problem.

Problem	Point to check	Solution
The software cannot be installed.	Is there sufficient free space on your hard drive?	Delete any unneeded files and applications to increase free space on your hard drive.
	Are you using an operating system that is not supported?	Make sure that the software can run on your operating system. For detailed information on installation requirements for each software program in Windows, click the [Display Readme] button in the installer. In a Macintosh environment, this can be checked in "ReadMe First" in the [English] folder in the [Readme] folder of the "Software CD-ROM".

Problem	Point to check	Solution
The machine is not detected (when connected to a network).	Is the IP address of the machine configured?	If the IP address of the machine is not configured, the machine will not be detected. Make sure that the IP address is configured correctly in "Network Settings" in the machine's system settings (administrator). → System Settings (Administrator) > "Network Settings"
	Is your computer connected to the same network as the machine?	Windows: If the machine and your computer are not connected to the same local area network, the machine will not be detected. If the two are connected to different sub-networks, click the [Specify condition] button and enter the machine's name (host name) or IP address to search for the machine. Macintosh: If multiple AppleTalk zones exist, select the zone to which the machine is connected from the menu.
	Is the machine power on?	If the machine is powered off, it will not be detected. Switch on the main power switch and the [POWER] key (⊙) in that order. (In Windows, search again after powering on the machine.)
	Is your computer connected correctly to the machine?	Make sure that the cable is connected securely to the LAN connectors on your computer and the machine. Check the connections at the hub as well. ☞ CONNECTING TO A NETWORK (page 49)

Problem	Point to check	Solution
The plug and play screen does not appear (USB connection in Windows).	Is the machine power on?	When a USB cable is connected, make sure the power of the machine is "ON" and then connect a USB cable to the machine. When the machine is not powered on, switch on the main power switch and the [POWER] key (ⓞ) in that order.
	Can your computer use a USB connection?	Check your computer whether or not a USB interface can be used on the Device Manager in your computer. (For information on "Device Manager", see Help in Windows.) If USB can be used, your controller chipset type and root hub will appear in "Universal Serial Bus controllers" in "Device Manager". (The items that appear will vary depending on your computer.) Universal Serial Bus controllers Intel(R) 82801FB/FBM USB Universal Host Controller - 2658 Intel(R) 82801FB/FBM USB Universal Host Controller - 2659 If these two items appear, USB should be useable. If a yellow exclamation point appears next to "Universal Serial Bus controllers" or the two items do not appear, refer to your computer manual or check with the manufacturer of your computer to enable USB and then reinstall the printer driver.

108

Problem	Point to check	Solution
The printer driver is not installed correctly by plug and play (USB connection in Windows).	Did you connect the machine to your computer before installing the printer driver?	In Windows 2000/XP/Server 2003/Vista, if the machine was connected to your computer with a USB cable before the printer driver was installed from the installer, check if information on the unsuccessful installation remains in "Device Manager". (For information on "Device Manager", see Help in Windows.) If the model name of the machine appears in "Other devices" in "Device Manager", delete it, restart your computer, and install the printer driver again.
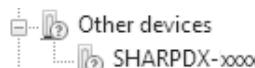
▶ The printer driver cannot be installed (Windows 2000/XP/Server 2003)

If the printer driver cannot be installed on Windows 2000/XP/Server 2003, follow the steps below to check your computer settings.

1 Click the [start] button and then click [Control Panel].

In Windows 2000, click the [Start] button, point to [Settings], and click [Control Panel].

2 Click [Performance and Maintenance] and then [System].

In Windows 2000, double-click the [System] icon.

3 Click the [Hardware] tab and then the [Driver Signing] button.

4 Check the settings in "What action do you want Windows to take?" ("File signature verification" in Windows 2000).

If [Block] is selected, the printer driver cannot be installed. Select [Warn] and install the printer driver again.

110

REMOVING THE SOFTWARE

To remove the printer driver or software installed using the installer, follow the steps below.

▶ Windows

1 **Click the [start] button and then click [Control Panel].**
In Windows 98/Me/NT 4.0/2000, click the [Start] button, point to [Settings], and click [Control Panel].

2 **Click [Uninstall a program].**
- In Windows XP/Server 2003, click [Add or Remove Programs].
- In Windows 98/Me/NT 4.0/2000, double-click the [Add/Remove Programs] icon.

3 **Select the program or driver that you wish to delete.**
For more information, see the manual for the operating system or Help.

4 **Restart your computer.**

▶ Mac OS X

1 Delete the printer that uses the machine's PPD file from the printer list.

To show the printer list, see step 11 and 12 of "MAC OS X" (page 92).

2 Delete the PPD file.

The PPD file has been copied to the following folder on the startup disk.
[Library] - [Printers] - [PPDs] - [Contents] - [Resources] - [en.lproj]
Delete the PPD file of the machine from this folder.

3 Delete the installation information.

The installation information file has been copied to the following folder on the startup disk.
[Library] - [Receipts]
Delete the [MX-PBX1.pkg] file from this folder.

▶ Mac OS 9.0 - 9.2.2

After deleting the icon of the printer that uses the machine's PPD file from the desktop, follow the steps below.

1 Insert the "Software CD-ROM" into your CD-ROM drive.

Insert the "Software CD-ROM" that shows "Disc 2" on the front of the CD-ROM.

2 Double-click the [CD-ROM] icon ( ) on the desktop and double-click the [MacOS] folder.

3 Double-click the [Installer] icon ( ).

4 Select [Remove] in the Install menu and click the [Remove] button.

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Please note

- Considerable care has been taken in preparing this manual. If you have any comments or concerns about the manual, please contact your dealer or nearest authorised service representative.
- This product has undergone strict quality control and inspection procedures. In the unlikely event that a defect or other problem is discovered, please contact your dealer or nearest authorised service representative.
- Aside from instances provided for by law, SHARP is not responsible for failures occurring during the use of the product or its options, or failures due to incorrect operation of the product and its options, or other failures, or for any damage that occurs due to use of the product.

The display screens, messages, and key names shown in the manual may differ from those on the actual machine due to product improvements and modifications.

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