

# SHARP®

MODEL: MX-2600N  
MX-3100N

DIGITAL FULL COLOUR MULTIFUNCTIONAL SYSTEM

# Safety Guide

Before installing this product, be sure to read the "CAUTIONS" and "INSTALLATION REQUIREMENTS" sections.

**CAUTIONS**

**INSTALLATION REQUIREMENTS**

**SUPPLIES**

**SPECIFICATIONS**

**INFORMATION ON DISPOSAL**

**TO THE ADMINISTRATOR OF THE MACHINE**

Keep this manual close at hand for reference whenever needed.

**Please see opposite side to access to "Software Setup Guide" and "Sharpdesk Installation Guide".**

**These manuals are combined for environmental protection.**

**Caution!**

For complete electrical disconnection, pull out the main plug.  
The socket-outlet shall be installed near the equipment and shall be easily accessible.



Shielded interface cables must be used with this equipment to maintain compliance with EMC regulations.

Required in IEC-950 (EN 60 950) - Europe

- The equipment should be installed near an accessible socket outlet for easy disconnection.

Required in Appendix ZB of BS 7002 (En 60 950) — United Kingdom

**MAINS PLUG WIRING INSTRUCTIONS**

The mains lead of this equipment is already fitted with a mains plug which is either a non-rewireable (moulded) or a rewireable type. Should the fuse need to be replaced, a BSI or ASTA approved fuse to BS1362 marked  or  and of the same rating as the one removed from the plug must be used.

Always refit the fuse cover after replacing the fuse on the moulded plug. Never use the plug without the fuse cover fitted.

In the unlikely event of the socket outlet in your home not being compatible with the plug supplied either cut-off the moulded plug (if this type is fitted) or remove by undoing the screws if a rewireable plug is fitted and fit an appropriate type observing the wiring code below.

**DANGER:** The fuse should be removed from the cut-off plug and the plug destroyed immediately and disposed of in a safe manner. Under no circumstances should the cut-off plug be inserted elsewhere into a 13A socket outlet as a serious electric shock may occur.

To fit an appropriate plug to the mains lead, follow the instructions below:

**IMPORTANT:** The wires in this mains lead are coloured in accordance with the following code:

<b>GREEN-AND-YELLOW:</b>	<b>Earth</b>
<b>BLUE:</b>	<b>Neutral</b>
<b>BROWN:</b>	<b>Live</b>

As the colours of the wires in this mains lead may not correspond with coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured **GREEN-AND-YELLOW** must be connected to the terminal in the plug which is marked with the letter **E**, or by the safety earth symbol , or coloured green or green-and-yellow.

The wire which is coloured **BLUE** must be connected to the terminal which is marked with the letter **N** or coloured black.

The wire which is coloured **BROWN** must be connected to the terminal which is marked with the letter **L** or coloured red.

If you have any doubt, consult a qualified electrician.

**WARNING: THIS APPARATUS MUST BE EARTHED.**

**EMC (this machine and peripheral devices)**

**Warning:**

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

This machine contains the software having modules developed by Independent JPEG Group.

This product includes Adobe® Flash® technology of Adobe Systems Incorporated.

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## **For the users of the fax function**

### **FAX interface cable and Line cable:**

These special accessories must be used with the device.

The Declaration of Conformity can be viewed at the following URL address.

<http://www.sharp.de/doc/MX-FXX2.pdf>

## Contents

<b>CAUTIONS</b> . . . . .	<b>3</b>	Punch module specifications (for finisher) . . . . .	15
Laser information . . . . .	4	Punch module specifications (for saddle stitch finisher) . . . . .	14
<b>INSTALLATION REQUIREMENTS</b> . . . . .	<b>5</b>	Keyboard specifications . . . . .	15
<b>SUPPLIES</b> . . . . .	<b>6</b>	Printer specifications . . . . .	16
Storage of supplies . . . . .	6	Network scanner / Internet Fax specifications . . .	17
Supply of spare parts and consumables . . . . .	6	Pull scan function (TWAIN) specifications . . . . .	17
<b>SPECIFICATIONS</b> . . . . .	<b>7</b>	Facsimile specifications . . . . .	18
Machine specifications / copier specifications . . . .	7	<b>INFORMATION ON DISPOSAL</b> . . . . .	<b>19</b>
Continuous copying speeds . . . . .	9	A. Information on Disposal for Users (private households) . . . . .	19
Ambient environment . . . . .	9	B. Information on Disposal for Business Users . . . . .	19
Acoustic noise emission (measurement according to ISO7779) . . . . .	10	<b>TO THE ADMINISTRATOR OF THE MACHINE</b> . . . . .	<b>22</b>
Automatic document feeder specifications . . . . .	10	Factory default passwords . . . . .	22
Exit tray unit (right tray) specifications . . . . .	11	Forwarding all transmitted and received data to the administrator (document administration function) . . . . .	22
Stand/1x500 sheet paper drawer specifications . . .	11	For the users of the fax function . . . . .	22
Stand/2x500 sheet paper drawer specifications . . .	12	Trademark acknowledgments . . . . .	23
Large capacity tray specifications . . . . .	12		
Finisher specifications . . . . .	13		
Saddle stitch finisher specifications . . . . .	14		

### 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.
- This manual contains references to the fax function. However, please note that the fax function is not available in some countries and regions.



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The products that meet the ENERGY STAR® guidelines carry the logo shown above.  
The products without the logo may not meet the ENERGY STAR® guidelines.

### Warranty

While every effort has been made to make this document as accurate and helpful as possible, SHARP Corporation makes no warranty of any kind with regard to its content. All information included herein is subject to change without notice. SHARP is not responsible for any loss or damages, direct or indirect, arising from or related to the use of this operation manual.

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# CAUTIONS

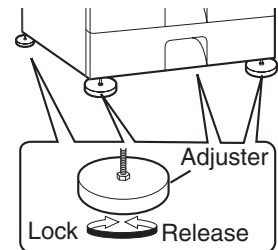
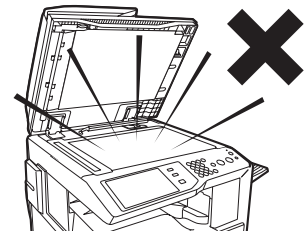
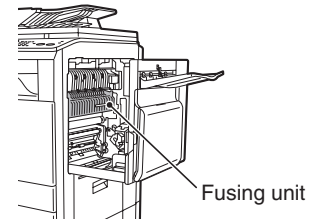
1. Do not touch the transfer belt. Scratches or smudges on the transfer belt will cause dirty prints.
2. The fusing unit is extremely hot. Exercise care in this area.
3. Do not look directly at the light source. Doing so may damage your eyes.
4. When the machine is installed, the adjusters (4) must be lowered to the floor to secure the machine (prevent it from moving).

Rotate the adjusters in the locking direction until they are in firm contact with the floor.

If you find it necessary to reposition the machine due to rearrangement of your office layout or other reason, retract the adjusters from the floor, turn off the power, and then move the machine.

(After moving the machine, lower the adjusters again to secure the machine.)

5. Do not make any modifications to this machine. Doing so may result in personal injury or damage to the machine.
6. The machine is heavy. To prevent injury when moving the machine, it is recommended that it be moved by four or more persons.
7. Do not make copies of anything which is prohibited from copying by law. The following items are normally prohibited from printing by national law. Other items may be prohibited by local law.
  - Money • Stamps • Bonds • Stocks
  - Bank drafts • Checks • Passports • Driver's licences
8. Do not use a flammable spray to clean the machine. If gas from the spray comes in contact with hot electrical components or the fusing unit inside the machine, fire or electrical shock may result.
9. Do not throw toner, a toner container (toner cartridge), or a waste toner box into a fire. Toner may fly and cause burns.
10. Store toner, toner containers (toner cartridges), and waste toner boxes out of the reach of children.



The machine includes the document filing function, which stores document image data on the machine's hard drive. Stored documents can be called up and printed or transmitted as needed. If a hard drive failure occurs, it will no longer be possible to call up the stored document data. To prevent the loss of important documents in the unlikely event of a hard drive failure, keep the originals of important documents or store the original data elsewhere.  
With the exception of instances provided for by law, Sharp Corporation bears no responsibility for any damages or loss due to the loss of stored document data.

## "BATTERY DISPOSAL"

THIS PRODUCT CONTAINS A LITHIUM PRIMARY MEMORY BACK-UP BATTERY THAT MUST BE DISPOSED OF PROPERLY. PLEASE CONTACT YOUR LOCAL SHARP DEALER OR AUTHORISED SERVICE REPRESENTATIVE FOR ASSISTANCE IN DISPOSING OF THIS BATTERY.

Each instruction also covers the optional units used with these products.

## CAUTIONS

### Laser information

Wave length	790 nm $\pm$ 10 nm
Pulse times (North America and Europe)	4.9 $\mu$ s $\pm$ 4.9 ns /7 mm
Output power	Max 0.6 mW (LD1+LD2)

#### Caution

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This Digital Equipment is CLASS 1 LASER PRODUCT (IEC 60825-1 Edition 1.2-2001)

For North America:

#### SAFETY PRECAUTIONS

This Digital Equipment is rated Class 1 and complies with 21 CFR 1040.10 and 1040.11 of the CDRH standards. This means that the equipment does not produce hazardous laser radiation. For your safety, observe the precautions below.

- Do not remove the cabinet, operation panel or any other covers.
- The equipment's exterior covers contain several safety interlock switches. Do not bypass any safety interlock by inserting wedges or other items into switch slots.

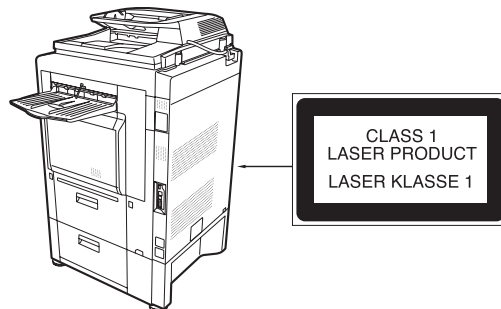
For Europe:

CLASS 1 LASER PRODUCT

LASER KLASSE 1

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# INSTALLATION REQUIREMENTS

Improper installation may damage this product. Please note the following during initial installation and whenever the machine is moved.

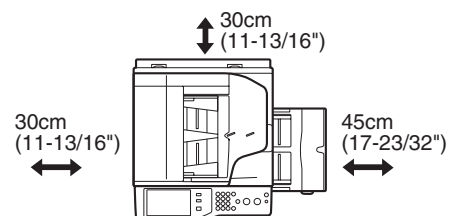
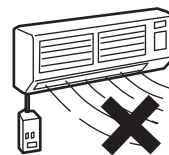
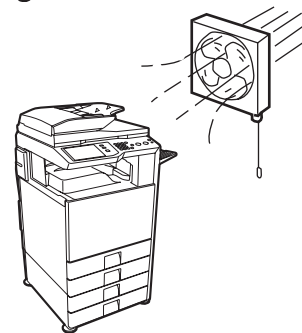
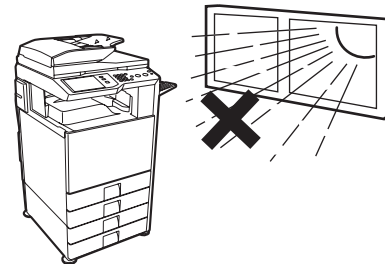
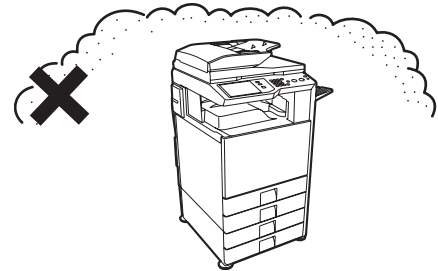
1. The machine should be installed near an accessible power outlet for easy connection.
2. Be sure to connect the power cord only to a power outlet that meets the specified voltage and current requirements. Also make certain the outlet is properly grounded.
  - For the power supply requirements, see the name plate in the lower left corner of the left side of the machine.

Connect the machine to a power outlet which is not used for other electric appliances. If a lighting fixture is connected to the same outlet, the light may flicker.

3. Do not install the machine in areas that are:
  - damp, humid, or very dusty
  - exposed to direct sunlight
  - poorly ventilated
  - subject to extreme temperature or humidity changes, e.g., near an air conditioner or heater.

4. Be sure to allow the required space around the machine for servicing and proper ventilation.

5. The machine includes a built-in hard drive. Do not subject the machine to shock or vibration. In particular, never move the machine while the power is on.



A small amount of ozone is produced within the printer during operation. The emission level is insufficient to cause any health hazard.

**NOTE:**

The present recommended long term exposure limit for ozone is 0.1 ppm (0.2 mg/m<sup>3</sup>) calculated as an 8 hr. time-weighted average concentration.

However, since the small amount that is emitted may have an objectionable odor, it is advisable to place the copier in a ventilated area.


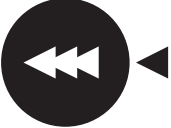
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# SUPPLIES

Standard supplies for this product that can be replaced by the user include paper, toner cartridges, and staple cartridges for the finisher.

Be sure to use only SHARP-specified products for the toner cartridges, finisher staple cartridge, saddle stitch finisher staple cartridge, and transparency film.

  GENUINE SUPPLIES	For best copying results, be sure to use only Sharp Genuine Supplies which are designed, engineered, and tested to maximize the life and performance of Sharp products. Look for the Genuine Supplies label on the toner package.
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## Storage of supplies

### Proper storage

1. Store the supplies in a location that is:
  - clean and dry,
  - at a stable temperature,
  - not exposed to direct sunlight.
2. Store paper in the wrapper and lying flat.
3. Paper stored in packages standing up or out of the wrapper may curl or become damp, resulting in paper misfeeds.

### Storing toner cartridges

Store a new toner cartridge box horizontally. Do not store it standing on end. If stored standing on end, the toner may not distribute well even after shaking the cartridge vigorously, and will remain inside the cartridge without flowing out.

### Staple cartridge

The finisher and saddle stitch finisher require the following staple cartridge:

MX-SCX1 (for finisher and saddle stitch finisher)  
Approx. 5000 per cartridge x 3 cartridges

AR-SC3 (for saddle stitch finisher only)  
Approx. 2000 per cartridge x 3 cartridges

## Supply of spare parts and consumables

The supply of spare parts for repair of the machine is guaranteed for at least 7 years following the termination of production. Spare parts are those parts of the machine which may break down within the scope of the ordinary use of the product, whereas those parts which normally exceed the life of the product are not to be considered as spare parts. Consumables too, are available for 7 years following the termination of production.



# SPECIFICATIONS

## Machine specifications / copier specifications

<b>Name</b>	Digital Full Colour Multifunctional System MX-2600N/MX-3100N	
<b>Type</b>	Desktop	
<b>Photoconductive type</b>	OPC drum	
<b>Printing method</b>	Electrophotographic system (laser)	
<b>Developer system</b>	Dry-type two-component magnetic brush development	
<b>Fusing system</b>	Heat rollers	
<b>Scanning resolution</b>	Document glass	Black and white scanning: 600 x 300 dpi (factory default values), 600 x 400 dpi, 600 x 600 dpi Colour scanning: 600 x 600 dpi (factory default values)
	Reversing single pass feeder (automatic document feeder)	Black and white scanning: 600 x 400 dpi (factory default values), 600 x 600 dpi Colour scanning: 600 x 600 dpi (factory default values)
<b>Printing resolution</b>	600 x 600 dpi	
<b>Scanning gradation</b>	256 levels	
<b>Printing gradation</b>	Equivalent to 256 levels	
<b>Original sizes / types</b>	Max. A3 (11" x 17") / sheets, bound documents	
<b>Copy sizes</b>	Maximum: A3W (12" x 18") Minimum: A5R (5-1/4" x 5-3/4")	
<b>Print margins</b>	Leading edge / trailing edge: total 8 mm (21/64") or less, near edge / far edge: total 4 mm ±2 mm (11/64" ±3/32") or less	
<b>Warm-up time</b>	60 seconds or less (at room temperature of 73.4°F (23°C) and rated voltage)	
<b>First-copy time*</b>	Colour copy time: 8.9 seconds or less Black and white copy time: 6.0 seconds or less (Portrait feeding of A4 (8-1/2" x 11") sheets from 1st paper tray. Excluding the first page output after the power is turned on.)	
<b>Copy ratios</b>	Variable: 25% to 400% in increments of 1%, total 376 increments (25% to 200% when the automatic document feeder is used) Fixed presets: 25%, 50%, 70%, 81%, 86%, 100%, 115%, 122%, 141%, 200% and 400% for AB sizes; 25%, 50%, 64%, 77%, 100%, 121%, 129%, 200% and 400% for inch sizes. Two reduction ratios and two enlargement ratios can be stored.	
<b>Continuous copy</b>	999 copies	
<b>Automatic document feeder</b>	See "Automatic document feeder specifications".	
<b>Tray 1 / Tray 2</b>	Paper sizes: A3, B4, A4, A4R, B5, B5R, A5R, 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11", 8-1/2" x 11"R, 7-1/4" x 10-1/2"R, 5-1/2" x 8-1/2"R, 8K, 16K, 16KR Paper weight: Plain paper (60 g/m <sup>2</sup> to 105 g/m <sup>2</sup> (16 lbs. to 28 lbs.)), heavy paper (106 g/m <sup>2</sup> to 209 g/m <sup>2</sup> (28 lbs. bond to 110 lbs. index)) Paper capacity: Plain paper (80 g/m <sup>2</sup> (21 lbs.)) 500 sheets, heavy paper 200 sheets Paper types: SHARP-recommended plain paper, recycled paper, coloured paper, and heavy paper	

\* First copy out time is measured with original on the document glass in full ready condition with fuser at operating temperature and mirror motor at operating speed in each of black and white mode and colour mode, actual time may vary based on environment conditions.

**Machine specifications / copier specifications (Continued)**

<b>Bypass tray</b>	Paper sizes: A3W, A3, B4, A4, A4R, B5, B5R, A5R, envelopes, 12" x 18", 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11", 8-1/2" x 11"R, 7-1/4" x 10-1/2"R, 5-1/2" x 8-1/2"R, 8K, 16K, 16KR (Includes automatic paper size detection function. Entry of paper sizes up to 297 mm x 432 mm (11-5/8" x 17") is possible.)
	Paper weights: Thin paper (55 g/m <sup>2</sup> to 59 g/m <sup>2</sup> (15 lbs. to 16 lbs.)), plain paper (60 g/m <sup>2</sup> to 105 g/m <sup>2</sup> (16 lbs. to 28 lbs.)), heavy paper (106 g/m <sup>2</sup> to 256 g/m <sup>2</sup> (28 lbs. bond to 140 lbs. index)), envelopes (75 g/m <sup>2</sup> to 90 g/m <sup>2</sup> (20 lbs. to 24 lbs.))
	Paper capacity: Standard paper 100 sheets
	Paper types: SHARP-recommended plain paper, recycled paper, coloured paper, heavy paper, thin paper, transparency film, envelopes (Monarch, Com-10, DL, C5)
<b>Duplex module</b>	Paper sizes: A3, B4, A4, A4R, B5, B5R, A5R, 11" x 17", 8-1/2" x 14", 8-1/2" x 13", 8-1/2" x 11", 8-1/2" x 11"R, 5-1/2" x 8-1/2"R, 8K, 16K, 16KR Paper weight: Plain paper (60 g/m <sup>2</sup> to 105 g/m <sup>2</sup> (16 lbs. to 28 lbs.)), heavy paper (106 g/m <sup>2</sup> to 209 g/m <sup>2</sup> (28 lbs. bond to 110 lbs. index)) Paper types: SHARP-recommended plain paper, recycled paper, coloured paper, and heavy paper
<b>Output tray (Center tray)*1</b>	Output method: Face-down output (A3W and 12" x 18" paper can be output to right tray, finisher, or saddle stitch finisher) Output capacity: 500 sheets (using SHARP-recommended A4 or 8-1/2" x 11" paper) (The maximum number of sheets that can be held varies depending on ambient conditions in the installation location, the type of paper, and the storage conditions of the paper.) Tray full sensor: Yes
<b>Interface port</b>	LAN connectivity: 10Base-T / 100Base-TX / 1000Base-T USB connectivity: Type A connector supports USB 2.0 (Hi speed)*2 Compatibility requirements of USB memory Memory capacity : Max. 32 GB Disk Format : FAT32 only Type B connector supports USB 2.0 (Hi speed)
<b>Required power supply</b>	Local voltage ±10% (For the power supply requirements, see the name plate in the lower corner of the left side of the machine.)
<b>Power consumption</b>	220-240V: 1.84 kW / 100-127V: 1.44 kW
<b>Dimensions</b>	620 mm (W) x 695 mm (D) x 950 mm (H) (24-13/32" (W) x 27-3/8" (D) x 37-25/64" (H))
<b>Weight</b>	Approx. 116 kg (255.8 lbs.)
<b>Overall dimensions</b>	970 mm (W) x 695 mm (D) (38-3/16" (W) x 27-3/8" (D)) (when bypass tray is extended)

\*1 Output tray (Center tray) cannot be used when the finisher or saddle stitch finisher is installed.

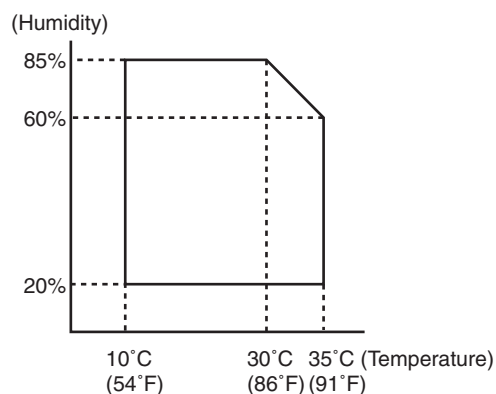
\*2 Type A connectors are located on the front of the machine and on the right side of the machine at the back (total of two connectors); however, the connectors cannot be used simultaneously. Only one of the connectors can be used.

## Continuous copying speeds\*

Model	MX-2600N		MX-3100N	
Copy ratio	100% / Reduced / Enlarged			
Copy mode	Colour copying	Black and white copying	Colour copying	Black and white copying
<b>A3, 11" x 17", 8K</b>	13 copies/min.	13 copies/min.	14 copies/min.	14 copies/min.
<b>B4, 8-1/2" x 14", 8-1/2" x 13"</b>	15 copies/min.	15 copies/min.	17 copies/min.	17 copies/min.
<b>A4, B5, 8-1/2" x 11", 16K</b>	26 copies/min.	26 copies/min.	31 copies/min.	31 copies/min.
<b>A4R, B5R, A5R, 8-1/2" x 11"R, 7-1/4" x 10-1/2"R, 5-1/2" x 8-1/2"R, 16KR</b>	18 copies/min.	18 copies/min.	20 copies/min.	20 copies/min.

\* Copy speed during output of the second copy and following copies when performing continuous one-sided copying of the same page (excluding offset output) using plain one-sided paper from a tray other than the bypass tray.

## Ambient environment



## SPECIFICATIONS

### Acoustic noise emission (measurement according to ISO7779)

Sound power level L <sub>WA</sub>		
<b>Printing mode (continuous printing)</b>	MX-2600N: 6.7 B MX-3100N: 6.7 B	
<b>Standby mode</b>	MX-2600N: 5.8 B MX-3100N: 5.8 B	
Sound pressure level L <sub>pA</sub> (actual measurement)		
<b>Printing mode</b>	<b>Bystander positions</b>	MX-2600N Colour: 51 dB (A) Black and white: 51 dB (A) MX-3100N Colour: 51 dB (A) Black and white: 51 dB (A)
	<b>Operator positions</b>	MX-2600N Colour: 51 dB (A) Black and white: 50 dB (A) MX-3100N Colour: 51 dB (A) Black and white: 51 dB (A)
<b>Standby mode</b>	<b>Bystander positions</b>	MX-2600N: 26 dB (A) MX-3100N: 25 dB (A)
	<b>Operator positions</b>	MX-2600N: 24 dB (A) MX-3100N: 24 dB (A)

### Automatic document feeder specifications

<b>Original sizes</b>	A3 to A5, 11" x 17" to 5-1/2" x 8-1/2", long paper (max. width 297 mm (11-5/8") x max. length 1000 mm* (39-23/64"), scanning in mono 2 mode of one side only is possible in fax and image scan modes)
<b>Original weight</b>	One-sided 35 g/m <sup>2</sup> to 128 g/m <sup>2</sup> (9 lbs. to 32 lbs.) (Paper weights from 35 g/m <sup>2</sup> (9 lbs.) to 49 g/m <sup>2</sup> (13 lbs.) require the use of slow scan mode.) Two-sided 50 g/m <sup>2</sup> to 105 g/m <sup>2</sup> (13 lbs. to 28 lbs.)
<b>Capacity</b>	100 sheets (80 g/m <sup>2</sup> (21 lbs.)) Maximum stack height of 13 mm (33/64")

\* Scanning in mono 2 mode of one side only is possible in fax and scan send modes. However, when the resolution is 600 x 600 dpi in Internet fax mode, the maximum length is 800 mm (31-31/64"). When the resolution is 400 x 400 dpi or 600 x 600 dpi in scan mode, a long original cannot be scanned.

## Exit tray unit (right tray) specifications

<b>Model</b>	MX-TRX1
<b>Output method</b>	Face-down output
<b>Output capacity*</b>	100 sheets (using SHARP-recommended A4 or 8-1/2" x 11" paper)
<b>Dimensions</b>	When tray is folded up: 289 mm (W) x 405 mm (D) x 52 mm (H) (11-3/8" (W) x 15-61/64" (D) x 2-3/64" (H)) When tray is extended: 419 mm (W) x 405 mm (D) x 52 mm (H) (16-1/2" (W) x 15-61/64" (D) x 2-3/64" (H))
<b>Weight</b>	Approx. 0.93 kg (2 lbs.)

\* The maximum number of sheets that can be held varies depending on ambient conditions in the installation location, the type of paper, and the storage conditions of the paper. Envelopes, tab paper, and glossy paper cannot be output.

## Stand/1x500 sheet paper drawer specifications

<b>Model</b>	MX-DEX6
<b>Paper sizes</b>	A3, B4, A4, A4R, B5, B5R, 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11", 8-1/2" x 11"R, 7-1/4" x 10-1/2"R, 8K, 16K, 16KR
<b>Paper weight</b>	Plain paper (60 g/m <sup>2</sup> to 105 g/m <sup>2</sup> (16 lbs. to 28 lbs.)), heavy paper (106 g/m <sup>2</sup> to 209 g/m <sup>2</sup> (28 lbs. bond to 110 lbs. index))
<b>Paper capacity</b>	500 sheets (80 g/m <sup>2</sup> (21 lbs.)) x 1 tray
<b>Paper types</b>	SHARP-recommended plain paper, recycled paper, and coloured paper
<b>Automatic paper size detection</b>	When "Auto-AB" detection is selected: A3, B4, A4, A4R, B5, B5R, 216 mm x 330 mm (8-1/2" x 13") When "Auto-Inch" detection is selected: 11" x 17", 8-1/2" x 14", 8-1/2" x 11", 8-1/2" x 11"R, 7-1/4" x 10-1/2"R
<b>Power supply</b>	Supplied from the machine
<b>Dimensions</b>	720 mm (W) x 670 mm (D) x 303 mm (H) (28-11/32" (W) x 26-3/8" (D) x 11-15/16" (H)) (including adjuster)
<b>Weight</b>	Approx. 20 kg (44.1 lbs.)

## SPECIFICATIONS

### Stand/2x500 sheet paper drawer specifications

<b>Model</b>	MX-DEX7
<b>Paper sizes</b>	A3, B4, A4, A4R, B5, B5R, 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11", 8-1/2" x 11"R, 7-1/4" x 10-1/2"R, 8K, 16K, 16KR
<b>Paper weight</b>	Plain paper (60 g/m <sup>2</sup> to 105 g/m <sup>2</sup> (16 lbs. to 28 lbs.)), heavy paper (106 g/m <sup>2</sup> to 209 g/m <sup>2</sup> (28 lbs. bond to 110 lbs. index))
<b>Paper capacity</b>	500 sheets (80 g/m <sup>2</sup> (21 lbs.)) x 2 tray
<b>Paper types</b>	SHARP-recommended plain paper, recycled paper, and coloured paper
<b>Automatic paper size detection</b>	When "Auto-AB" detection is selected: A3, B4, A4, A4R, B5, B5R, 216 mm x 330 mm (8-1/2" x 13") When "Auto-Inch" detection is selected: 11" x 17", 8-1/2" x 14", 8-1/2" x 11", 8-1/2" x 11"R, 7-1/4" x 10-1/2"R
<b>Power supply</b>	Supplied from the machine
<b>Dimensions</b>	720 mm (W) x 670 mm (D) x 303 mm (H) (28-11/32" (W) x 26-3/8" (D) x 11-15/16" (H)) (including adjuster)
<b>Weight</b>	Approx. 23.5 kg (51.9 lbs.)

### Large capacity tray specifications\*

<b>Model</b>	MX-LCX1
<b>Paper sizes</b>	A4, 8-1/2" x 11" (paper size change must be performed by a service technician)
<b>Paper weight</b>	Plain paper (60 g/m <sup>2</sup> to 105 g/m <sup>2</sup> (16 lbs. to 28 lbs.))
<b>Paper capacity</b>	3500 sheets (80 g/m <sup>2</sup> (21 lbs.))
<b>Paper types</b>	SHARP-recommended plain paper, recycled paper, and coloured paper
<b>Power supply</b>	Supplied from the machine
<b>Dimensions</b>	370 mm (W) x 550 mm (D) x 520 mm (H) (14-9/16" (W) x 21-21/32" (D) x 20-15/32" (H))
<b>Weight</b>	Approx. 29 kg (63.9 lbs.)
<b>Overall dimensions when attached to machine</b>	960 mm (W) x 683 mm (D) (37-25/32" (W) x 26-57/64" (D))

\* A stand/1x500 sheet paper drawer or stand/2x500 sheet paper drawer is required to connect the large capacity tray to the machine.

## Finisher specifications

<b>Model</b>	MX-FNX9	
<b>Paper sizes</b>	A3W, A3, B4, A4, A4R, B5, B5R, A5R, envelopes, 12" x 18", 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11", 8-1/2" x 11"R, 7-1/4" x 10-1/2"R, 5-1/2" x 8-1/2"R, 8K, 16K, 16KR	
<b>Paper weight</b>	Thin paper (55 g/m <sup>2</sup> to 59 g/m <sup>2</sup> (15 lbs. to 16 lbs.)) plain paper (60 g/m <sup>2</sup> to 105 g/m <sup>2</sup> (16 lbs. to 28 lbs.)) heavy paper (106 g/m <sup>2</sup> to 256 g/m <sup>2</sup> (28 lbs. bond to 140 lbs. index)) , envelopes (75 g/m <sup>2</sup> to 90 g/m <sup>2</sup> (20 lbs. to 24 lbs.))	
<b>Modes</b>	Non-staple, staple	
<b>Allowed paper sizes for offset</b>	A3, B4, A4, A4R, B5, 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11", 8-1/2" x 11"R, 8K, 16K	
<b>Offset distance</b>	30 mm (1-3/16")	
<b>Tray capacity*1</b>	Non-stapling*2: 500 sheets*3 (A4, A4R, B5, B5R, A5R, 8-1/2" x 11", 8-1/2" x 11"R, 7-1/4" x 10-1/2"R, 5-1/2" x 8-1/2"R, 16K, 16KR) 250 sheets*4 (A3W, A3, B4, 12" x 18", 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8K)	Stapling*5: 30 sets or 500 sheets*3 (A4, A4R, B5, 8-1/2" x 11", 8-1/2" x 11"R, 16K, 16KR) 30 sets or 250 sheets*4 (A3, B4, 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8K)
<b>Power supply</b>	Supplied from the machine	
<b>Dimensions</b>	440 mm (W) x 595 mm (D) x 205 mm (H) (17-21/64" (W) x 23-27/64" (D) x 8-5/64" (H)) (When tray is folded up)	
<b>Weight</b>	Approx. 13 kg (28.7 lbs.)	
<b>Overall dimensions when attached to machine</b>	1060 mm (W) x 670 mm (D) (41-23/32" (W) x 26-3/8" (D)) (When tray is extended)	
Stapler section		
<b>Allowed paper sizes for stapling</b>	A3, B4, A4, A4R, B5, 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11", 8-1/2" x 11"R, 8K, 16K, 16KR (Three stapling positions: one staple at bottom left corner, one staple at top left corner, and two staples.)	
<b>Maximum number of sheets for stapling*5</b>	50 sheets (A4, A4R, B5, 8-1/2" x 11", 8-1/2" x 11"R, 16K, 16KR) 30 sheets (A3, B4, 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8K) (30 sheets when the sheets are the same width but different lengths.)	

\*1 The maximum number of sheets that can be held varies depending on ambient conditions in the installation location, the type of paper, and the storage conditions of the paper.

\*2 Up to 10 envelopes can be output.

\*3 The height of the sheets must not exceed 71 mm (2-51/64").

\*4 The height of the sheets must not exceed 35.5 mm (1-13/32").

\*5 The maximum number of sheets for stapling assumes a paper weight of 90 g/m<sup>2</sup> (24 lbs.) and includes two cover sheets of 106 g/m<sup>2</sup> to 256 g/m<sup>2</sup> (28 lbs. bond to 140 lbs. index).

**Note:**

Special media such as transparency film and label sheets cannot be stapled or punched.

## SPECIFICATIONS

### Saddle stitch finisher specifications\*1

<b>Model</b>	MX-FN10	
<b>Paper sizes</b>	A3W, A3, B4, A4, A4R, B5, B5R, A5R, envelopes, 12" x 18", 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11", 8-1/2" x 11"R, 7-1/4" x 10-1/2"R, 5-1/2" x 8-1/2"R, 8K, 16K, 16KR	
<b>Paper weight</b>	Thin paper (55 g/m <sup>2</sup> to 59 g/m <sup>2</sup> (15 lbs. to 16 lbs.)) plain paper (60 g/m <sup>2</sup> to 105 g/m <sup>2</sup> (16 lbs. to 28 lbs.)) heavy paper (106 g/m <sup>2</sup> to 256 g/m <sup>2</sup> (28 lbs. bond to 140 lbs. index)), envelopes (75 g/m <sup>2</sup> to 90 g/m <sup>2</sup> (20 lbs. to 24 lbs.))	
<b>Modes</b>	Non-staple, staple, saddle stitch, half fold (Output is folded in half one sheet at a time.)	
<b>Allowed paper sizes for offset</b>	A3, A4, A4R, B4, B5, B5R, 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11", 8-1/2" x 11"R, 7-1/4" x 10-1/2"R, 8K, 16K, 16KR	
<b>Offset distance</b>	30 mm (1-3/16")	
<b>Tray capacity*2</b>	Non-stapling*3: 1000 sheets*4 (A4, A4R, B5, B5R, 8-1/2" x 11", 8-1/2" x 11"R, 7-1/4" x 10-1/2"R, 16K, 16KR) 500 sheets*5 (A3W, A3, B4, A5R, 12" x 18", 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 5-1/2" x 8-1/2"R, 8K)	Stapling*6: 50 sets or 1000 sheets*4 (A4, A4R, B5, B5R, 8-1/2" x 11", 8-1/2" x 11"R, 16K, 16KR) 50 sets or 500 sheets*5 (A3, B4, 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8K)
<b>Power supply</b>	Supplied from the machine	
<b>Dimensions</b>	497 mm (W) x 631 mm (D) x 988 mm (H) (19-9/16" (W) x 24-27/32" (D) x 38-57/64" (H)) (When tray is folded up)	
<b>Weight</b>	Approx. 40 kg (88.2 lbs.)	
<b>Overall dimensions when attached to machine</b>	1638 mm (W) x 683 mm (D) (64-15/32" (W) x 26-57/64" (D)) (When tray is extended)	
Stapler section		
<b>Allowed paper sizes for stapling</b>	A3, B4, A4, A4R, B5, B5R, 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11", 8-1/2" x 11"R, 8K, 16K, 16KR (Three stapling positions: one staple at bottom left corner, one staple at top left corner, and two staples.)	
<b>Maximum number of sheets for stapling*6</b>	50 sheets (A4, A4R, B5, B5R, 8-1/2" x 11", 8-1/2" x 11"R, 16K, 16KR) 25 sheets (A3, B4, 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8K) (25 sheets when the sheets are the same width but different lengths.)	
Saddle stitch section		
<b>Stapling method</b>	Fold in half and staple in two places on centreline	
<b>Folding position</b>	Fold at centreline (can be adjusted with [Saddle Stitch Position Adjust] in the System Settings)	
<b>Allowed paper sizes for saddle stitch stapling</b>	A3, B4, A4R, 11" x 17", 8-1/2" x 14", 8-1/2" x 11"R, 8K, 16KR	
<b>Allowed paper weights for saddle stitch stapling</b>	55 g/m <sup>2</sup> to 256 g/m <sup>2</sup> (15 lbs. bond to 140 lbs. index)*7	
<b>Number sheets for saddle stitch stapling / Number of sets</b>	Maximum: 15 sheets (80 g/m <sup>2</sup> (21 lbs.) x 14 sheets + 209 g/m <sup>2</sup> (110 lbs. index) x 1 sheet) / 10 sets (11 to 15 sheets), 15 sets (6 to 10 sheets), 20 sets (1 to 5 sheets)	

\*1 Paper pass unit and stand/1x500 sheet paper drawer or stand/2x500 sheet paper drawer are required to connect the saddle stitch finisher to the machine.

\*2 The maximum number of sheets that can be held varies depending on ambient conditions in the installation location, the type of paper, and the storage conditions of the paper.

\*3 Up to 30 envelopes can be output.

\*4 The height of the sheets must not exceed 175 mm (6-57/64").

\*5 The height of the sheets must not exceed 94 mm (3-45/64").

\*6 The maximum number of sheets for stapling assumes a paper weight of 90 g/m<sup>2</sup> (24 lbs.) and includes two cover sheets of 106 g/m<sup>2</sup> to 256 g/m<sup>2</sup> (28 lbs. bond to 140 lbs. index).

\*7 Allowed paper weights for saddle stitch stapling of plain paper include heavy paper (106 g/m<sup>2</sup> to 256 g/m<sup>2</sup> (28 lbs. bond to 140 lbs. index)).

#### Note:

Special media such as transparency film and label sheets cannot be stapled or punched.



### Punch module specifications (for finisher)

Model	MX-PNX1A	MX-PNX1B	MX-PNX1C	MX-PNX1D
<b>Hole punching</b>	2 holes	2 holes or 3 holes	4 holes	4 holes, broad width
<b>Allowed paper sizes for punching</b>	A3, B4, A4, A4R, B5, B5R, 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11", 8-1/2" x 11"R, 7-1/4" x 10-1/2", 8K, 16K, 16KR	2 holes: 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11"R, 7-1/4" x 10-1/2" 3 holes: 11" x 17", 8-1/2" x 11", A3, A4	A3, A4	A3, B4, A4, A4R, B5, B5R, 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11", 8-1/2" x 11"R, 7-1/4" x 10-1/2"
<b>Punchable paper weights</b>	55 g/m <sup>2</sup> to 128 g/m <sup>2</sup> (16 lbs. to 32 lbs.)			
<b>Power supply</b>	Supplied from finisher			
<b>Dimensions</b>	105 mm (W) x 518 mm (D) x 170 mm (H) (4-9/64" (W) x 20-25/64" (D) x 6-45/64" (H))			
<b>Weight</b>	Approx. 3.5 kg (7.7 lbs.)			

### Punch module specifications (for saddle stitch finisher)

Model	MX-PNX5A	MX-PNX5B	MX-PNX5C	MX-PNX5D
<b>Hole punching</b>	2 holes	2 holes or 3 holes	4 holes	4 holes, broad width
<b>Allowed paper sizes for punching</b>	A3, B4, A4, A4R, B5, B5R, 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11", 8-1/2" x 11"R, 7-1/4" x 10-1/2", 8K, 16K, 16KR	2 holes: 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11"R, 7-1/4" x 10-1/2" 3 holes: 11" x 17", 8-1/2" x 11", A3, A4	A3, A4	A3, B4, A4, A4R, B5, B5R, 11" x 17", 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11", 8-1/2" x 11"R, 7-1/4" x 10-1/2"
<b>Punchable paper weights</b>	55 g/m <sup>2</sup> to 128 g/m <sup>2</sup> (16 lbs. to 32 lbs.)			
<b>Power supply</b>	Supplied from saddle stitch finisher			
<b>Dimensions</b>	122 mm (W) x 604 mm (D) x 248 mm (H) (4-13/16" (W) x 23-25/32" (D) x 9-49/64" (H))			
<b>Weight</b>	Approx. 3.5 kg (7.7 lbs.)			

**Note:**

Special media such as transparency film and label sheets cannot be stapled or punched.

### Keyboard specifications

<b>Model</b>	MX-KBX1
<b>Power supply</b>	Supplied from the machine

## SPECIFICATIONS

### Printer specifications

<b>Type</b>	Built-in	
<b>Continuous printing speed</b>	Same as continuous copying speed (When printing same document continuously on A4 (8-1/2" x 11") plain paper in non-offset mode, excluding processing time.)	
<b>Printing resolution</b>	600 x 600 dpi / 1200 x 1200 dpi	
<b>Printer driver type</b>	PCL5c, PCL6, PostScript 3 compatible*1, XPS*2	
<b>Supported protocols</b>	TCP/IP, IPX/SPX, NetBEUI, EtherTalk	
<b>Supported client PC operating systems</b>	See "VERIFYING SYSTEM REQUIREMENTS" in the Software Setup Guide.	
<b>Fonts</b>	PCL5c, PCL6	80 European fonts, 28 barcode fonts*3, 1 bitmap font
	PostScript 3 compatible*1	136 European fonts
<b>Interface port</b>	LAN connectivity: 10Base-T / 100Base-TX / 1000Base-T USB connectivity: Supports USB 2.0 (Hi speed)*4	
<b>Memory</b>	Standard system memory: 512 MB Expansion memory: 1 GB*5	
<b>Print area</b>	Entire page excluding margin of 4.2 mm (11/64") at each edge. The actual print area may vary depending on the printer driver and the software application.	

\*1 When the PS3 expansion kit is installed and the machine is used as a PostScript printer.

\*2 When the XPS expansion kit is installed.

\*3 Barcode font kit is required.

\*4 Supported operating systems are Windows 2000 / XP / Vista.

\*5 To install the XPS expansion kit, an expansion memory board is required.

## Network scanner / Internet Fax\*1 specifications

<b>Type</b>	Built-in	
<b>Scanning resolution (dpi)</b>	100 x 100, 200 x 200, 300 x 300, 400 x 400, 600 x 600 Internet Fax: 200 x 100, 200 x 200, 200 x 400, 400 x 400, 600 x 600 (200 x 100, 200 x 200 when file type is TIFF-S) Halftone can be selected for resolutions other than 200 x 100 dpi.	
<b>Scanning speed</b>	Colour (A4 / 8-1/2" x 11") One-sided: 50 pages/min. (200 x 200 dpi), Two-sided: 16 pages/min. (200 x 200 dpi) Black and white (A4 / 8-1/2" x 11") One-sided: 50 pages/min. (200 x 200 dpi), Two-sided: 16 pages/min. (200 x 200 dpi)	
<b>Interface port</b>	LAN connectivity: 10Base-T / 100Base-TX / 1000Base-T	
<b>Supported protocols</b>	TCP/IP (IPv4)	
<b>File formats</b>	Colour (including greyscale)	File types: TIFF, JPEG, PDF, Encrypted PDF, XPS Compression ratio: High / Medium / Low
	Black and white	File types: TIFF, PDF, Encrypted PDF, XPS Compression modes: None / Medium (G3) / High (G4)
	Internet Fax (black and white only)	File types: TIFF-FX (TIFF-F, TIFF-S) Compression modes: Medium (G3) / High (G4)
<b>Remarks</b>	Number of one-touch keys for storing destinations*2	Maximum number of keys: 999
	Number of destinations that can be stored in a group (1 key)*2	Maximum number of destinations in one group (1 key): 500
	Scan destinations	Scan to E-mail / Scan to FTP / Scan to Desktop / Scan to Network Folder

\*1 Internet fax expansion kit is required.

\*2 Total number of all destinations (Scan to E-mail, Scan to FTP, Scan to Desktop, Scan to Network folder, Internet Fax, Fax, and Group)

## Pull scan function (TWAIN) specifications

<b>Supported protocol</b>	TCP/IP
<b>Supported client PC operating systems</b>	Windows 98 / Me / 2000 / XP / Server 2003 / Vista
<b>Colour modes</b>	Full Colour, Greyscale, Mono Diffusion, Mono 2 gradation
<b>Resolution settings</b>	75 dpi, 100 dpi, 150 dpi, 200 dpi, 300 dpi, 400 dpi, 600 dpi (The resolution can be specified by entering a numerical value from 50 to 9600 dpi. However, when a high resolution is specified, it is necessary to reduce the scanning area.)
<b>Scanning area</b>	Maximum: A3 (11" x 17")

## SPECIFICATIONS

### Facsimile specifications

<b>Model</b>	MX-FXX2	
<b>Applicable telephone line</b>	Public switched telephone network, PBX	
<b>Scanning resolution (supports ITU-T standards)</b>	8 x 3.85 lines/mm (Standard), 8 x 7.7 lines/mm (Fine, Fine-Halftone), 8 x 15.4 lines/mm (Super Fine, Super Fine - Halftone), 16 x 15.4 lines/mm (Ultra Fine, Ultra Fine - Halftone)	
<b>Transmission speed</b>	33.6 kbps down to 2.4 kbps Automatic fallback	
<b>Compression method</b>	MH / MR / MMR / JBIG	
<b>Transmission modes</b>	Super G3, G3 (the machine can only send faxes to and receive faxes from machines that support G3 or Super G3)	
<b>Input document size</b>	AB sizes: A3, B4, A4, A4R, B5, B5R, A5, 216 mm x 340 mm, 216 mm x 343 mm Inch sizes: 11" x 17", 8-1/2" x 14", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11", 8-1/2" x 11"R, 5-1/2" x 8-1/2" Long originals (max. width 297 mm (11-45/64") x max. length 1000 mm (39-23/64") can be transmitted using the automatic document feeder. Scanning one side is possible.)	
<b>Paper sizes</b>	A3, B4, A4, A4R, B5, B5R, A5R (11" x 17", 8-1/2" x 14", 8-1/2" x 13-2/5", 8-1/2" x 13", 8-1/2" x 11", 8-1/2" x 11"R, 5-1/2" x 8-1/2"R)	
<b>Transmission time *1</b>	Approx. 2 seconds (Super G3 mode/33.6 kbps, JBIG) Approx. 6 seconds (G3 ECM mode/14.4 kbps)	
<b>Power supply</b>	Supplied from the machine	
<b>Dimensions</b>	192 mm (W) x 52 mm (D) x 215 mm (H) (7-9/16" (W) x 2-3/64" (D) x 8-15/32" (H))	
<b>Weight</b>	Approx. 1.0 kg (2.2 lbs.)	
<b>Remarks</b>	Extension telephone connection	Possible (1 telephone)
	Number of one-touch keys for storing destinations*2	Maximum number of keys: 999
	Number of destinations that can be stored in a group (1 key)*2	Maximum number of destinations in one group (1 key): 500
	Timer transmission	Yes
	Program function	Yes (48 programs)
	F-code transmission	Supported (SUB/SEP (sub-address) and SID/PWD (passcode) signals can be transmitted / received)
	Image memory	8 MB standard

\*1 Transmission speed is for an A4 or 8-1/2" x 11" document with approximately 700 characters at standard resolution (8 x 3.85 lines/mm) sent in high speed mode (33.6 kbps (JBIG) or 14.4 kbps). This is only the time required to transmit the image information; the time required to send protocol signals is not included. Actual transmission times will vary depending on the contents of the document, the receiving machine type, and telephone line conditions.

\*2 Total number of all destinations (Scan to E-mail, Scan to FTP, Scan to Desktop, Scan to Network folder, Internet Fax, Fax and Group)

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# INFORMATION ON DISPOSAL

## A. Information on Disposal for Users (private households)

### 1. In the European Union

Attention: If you want to dispose of this equipment, please do not use the ordinary dust bin!

Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.

Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge\*. In some countries\* your local retailer may also take back your old product free of charge if you purchase a similar new one.

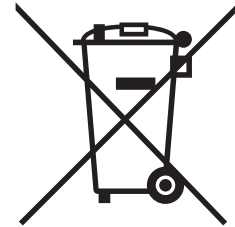
\*) Please contact your local authority for further details.

If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

### 2. In other Countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal. For Switzerland: Used electrical or electronic equipment can be returned free of charge to the dealer, even if you don't purchase a new product. Further collection facilities are listed on the homepage of [www.swico.ch](http://www.swico.ch) or [www.sens.ch](http://www.sens.ch).



Attention: Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.

## B. Information on Disposal for Business Users.

### 1. In the European Union

If the product is used for business purposes and you want to discard it:

Please contact your SHARP dealer who will inform you about the take-back of the product. You might be charged for the costs arising from take-back and recycling. Small products (and small amounts) might be taken back by your local collection facilities.

For Spain: Please contact the established collection system or your local authority for take-back of your used products.

### 2. In other Countries outside the EU

If you wish to discard of this product, please contact your local authorities and ask for the correct method of disposal.



Administrator

Name:

Contact at:



Information that the administrator of the machine requires is printed on the back of this page.

(Separate this page from the manual and keep it in a safe place. In addition, fill in the name of the administrator and the administrator's contact information in the left hand margin.)

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---

# TO THE ADMINISTRATOR OF THE MACHINE

(Separate this page from the manual and keep it in a safe place.)

## Factory default passwords

When accessing the system settings, the administrator password is required to log in with administrator rights. The system settings can be configured in the Web pages as well as on the operation panel. To access the system settings using the Web pages, a password is also required.

### Factory default administrator password

**Factory default setting: admin**

Store a new administrator password as soon as the machine is installed.

Once the administrator password has been changed, the new password is required to restore the factory default password. Take care to remember the new password.

### Factory default passwords (Web pages)

There are two factory default accounts: "Administrator" and "User". A person who logs in as an "Administrator" can configure all settings in the Web pages. In addition, an administrator can restrict access to other settings by enabling "User" accounts.

The factory default passwords are shown below.

	Factory default account	Factory default password
User	users	users
Administrator	admin	admin

## Forwarding all transmitted and received data to the administrator (document administration function)

This function is used to forward all data transmitted and received by the machine to a specified destination (Scan to E-mail address, Scan to FTP destination, Scan to Network Folder destination, or Scan to Desktop destination). This function can be used by the administrator of the machine to archive all transmitted and received data. To configure the document administration settings, click [Application Settings] and then [Document Administration Function] in the Web page menu. (Administrator rights are required.)

### Note:

- The format, exposure, and resolution settings of transmitted and received data remain in effect when the data is forwarded.
- When forwarding is enabled for data sent in fax mode,
  - The [Direct TX] key does not appear in the touch panel.
  - Quick online transmission and dialling using the speaker cannot be used.

## For the users of the fax function

### Important safety instructions

- If any of your telephone equipment is not operating properly, you should immediately remove it from your telephone line, as it may cause harm to the telephone network.
- The AC power outlet shall be installed near the equipment and shall be easily accessible.
- Never install telephone wiring during a lightning storm.
- Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
- Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- Use caution when installing or modifying telephone lines.
- Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
- Do not use a telephone to report a gas leak in the vicinity of the leak.
- Do not install or use the machine near water, or when you are wet. Take care not to spill any liquids on the machine.
- Save these instructions.



## Trademark acknowledgments

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**SHARP ELECTRONICS (Europe) GmbH**  
SonninstraÙe 3, D-20097 Hamburg





## Installing SHARP TWAIN AR/DM

SHARP TWAIN AR/DM cannot be used in Windows Vista.

**1** Quit any software applications and/or resident programs that are running on your computer.

**2** Insert the "Disc 1" CD-ROM into your CD-ROM drive.

- If the Sharpdesk installation window appears, click "Cancel" to exit the setup procedure.

**3** Click the "start" button and then click "My Computer" (  ).

- In Windows 98/Me/2000, double click "My Computer".

**4** Click the CD-ROM icon (  ) and select "Open" from the "File" menu.

**5** Double-click the "Twain" folder, and then double-click the "Setup" (  ).

**6** Follow the instructions on the screen.

## Uninstalling the Software Program

To remove the software, follow the steps below.

- When Sharpdesk is uninstalled, Network Scanner Tool is also uninstalled. Note that if Network Scanner Tool is uninstalled, you will no longer be able to directly receive image data from the Digital Laser Copier/Printer.

- If a user-created file is saved in the Sharpdesk desktop folder, the Sharpdesk desktop folder will not be deleted when Sharpdesk is uninstalled.

- If you uninstalled Sharpdesk Imaging in Windows 98/Me/2000, you will not be able to open image files unless you re-install the Windows accessory Imaging for Windows.

- Removing SHARP TWAIN AR/DM will not delete the spooler folder which stores image data.

### Uninstalling the software program from the Control Panel

**1** Click "Control Panel" in the "start" menu.

- In Windows 98/Me/2000, click "Start", "Settings", and then "Control Panel".

**2** Click "Uninstall a program".

- In Windows XP, double click "Add or Remove Programs".
- In Windows 98/Me/2000, double click "Add/Remove Programs".

**3** Select the application that you wish to delete ("Sharpdesk" or "SHARP TWAIN AR/DM") from the list and uninstall the application.

- 6** When the "Customer Information" window appears, enter the serial number that appears on the cover of this manual, and click the "Next" button.
- Follow the instructions on the screen.
- If you select "Typical" in the Setup Type selection screen, Network Scanner Tool will also be installed. If you only wish to install Network Scanner Tool, select "Custom" in the Setup Type selection screen and then check only Network Scanner Tool.
  - Sharpdesk Imaging\* is installed together with Sharpdesk. If Imaging for Windows was previously installed, Sharpdesk Imaging will overwrite Imaging for Windows.
  - If Eastman Software's "Imaging for Windows Professional Edition" has already been installed on your computer, Sharpdesk Imaging will not be installed.
  - "Imaging for Windows Professional Edition" and Sharpdesk Imaging use common registry entries, and installing "Imaging for Windows Professional Edition" after Sharpdesk Imaging has been installed may result in abnormal operation. In this case, uninstall Sharpdesk and Sharpdesk Imaging, and then install "Imaging for Windows Professional Edition". After that, reinstall Sharpdesk.
  - When Network Scanner Tool setup is finished, the "Search Setup Wizard" appears. Follow the on-screen instructions to create an index database. For detailed information, see the Sharpdesk Installation Guide and Sharpdesk User's Guide.
- \* Sharpdesk Imaging is a version of Eastman Software's Imaging for Windows Professional Edition that has been customized by the Sharp Corporation.

## Installing the Software Program

- Note the following when installing the software program from the CD-ROM:
- Be sure to check the system requirements for installation of each of the software programs in the user's guides and on the information screen during installation.
  - The user's guides give detailed instructions for installing and setting up the programs. Be sure to read the user's guides before installing the programs. In particular, if you are going to use Network Scanner Tool, be sure to carefully read the instructions regarding network preparation and setup procedures before installing the program. The network administrator should verify that network preparation has been carried out correctly.
  - If you are going to send an original scanned with the Digital Laser Copier/Printer to a computer (Scan to Desktop), Network Scanner Tool must be installed.
  - If you perform a standard installation of Sharpdesk (select "Typical" in the Setup Type selection screen), Network Scanner Tool will be also be installed, alternatively you can also select "Custom" installation and install only Network Scanner Tool.
  - If Internet Explorer 6.0 or later is not installed on your computer, see the installation procedure for Internet Explorer in the Readme file (Readme.txt) in the root folder of the "Disc 2" CD-ROM.
  - If you intend to install SHARP TWAIN AR/DM, install Network Scanner Tool first. SHARP TWAIN AR/DM cannot be installed alone.
  - The contents of the information screens that appear during installation can also be found in the Readme files on the same CD-ROM. The Readme file for Sharpdesk is located in the root folder of the CD-ROM, and the Readme file for SHARP TWAIN AR/DM is located in the Twain folder.

## Installing Sharpdesk and Network Scanner Tool

### 1 Quit any software applications and/or resident programs that are running on your computer.

### 2 Insert the "Disc 1" CD-ROM into your CD-ROM drive.

- The Sharpdesk installation screen appears. Proceed to step 5.
- If the screen does not appear, proceed to step 3.

### 3 Click the "Start" button ( ) and then click "Computer".

- In Windows XP, click the "start" button and then click "My Computer".
- In Windows 98/Me/2000, double click "My Computer".

### 4 Double click the CD-ROM icon ( ).

- The Sharpdesk installer starts.

### 5 Follow the instructions on the screen.

- In Windows Vista, if a message screen appears asking you for confirmation, click "Allow".

## **User's Guides for Software Programs**

The Manual folder in the CD-ROM contains user's guides (in PDF format) for each of the software programs.

- **Sharpdesk Installation Guide**
- **Sharpdesk User's Guide**
- **Network Scanner Tool User's Guide**
- **SHARP TWAIN AR/DM User's Guide**

In addition to explaining how to use the programs, the user's guides also give detailed instructions for installing and setting up the programs. Be sure to read the user's guides before installing the programs.

# Sharpdesk CD-ROM (for Windows)

The CD-ROM contains the following software programs:

- Sharpdesk\* (Desktop Document Management Software)
- Network Scanner Tool
- SHARP TWAIN AR/DM (Twain driver)

\* Sharpdesk can only be installed on the number of computers indicated in "Sharpdesk Serial Numbers" on the cover of this manual. If you need to install Sharpdesk on additional computers, please purchase the optional license kit. (If the version of the software on the CD-ROM in the license kit is different from the version of the software on the CD-ROM that accompanies the machine, it is recommended that you use the newest version of the software.)

## Software Programs

For detailed information on each of the software programs, please refer to the user's guides on the CD-ROM. To view the manuals in PDF format, Adobe® Reader™ or Acrobat® Reader of Adobe Systems Incorporated is required. If neither program is installed on your computer, the programs can be downloaded from the following URL:

<http://www.adobe.com/>

## Sharpdesk (Desktop Document Management Software)

Sharpdesk lets you manage a variety of electronic information such as scanned image data from a Digital Laser Copier/Printer or documents created using word processing or spreadsheet application software. Some of the important features of Sharpdesk are:

- Sharpdesk works with your scanner to let you read paper documents into your computer using a full-featured set of scanning controls and options.
- Sharpdesk makes editing of your images and documents quick and easy.
- A text image scanned into Sharpdesk can be converted into editable text for use with your favorite word processor. Sharpdesk uses an advanced Optical Character Recognition (OCR) engine that even preserves your document layouts.

- Distributing documents by e-mail or printing a hard copy is as easy as dragging a file onto an icon on the Sharpdesk OutputZone.
- Multiple files can be combined together into a single new file. After creating a combination file, the page order can be changed or new pages added.
- You can search for an image or text file using a single word, phrase, or list of words. You can also perform a detailed search by specifying the file type, modified data, or a keyword.

- A colour image scanned on the machine can be saved as a PDF file using a high compression ratio to reduce the file size. (To view a PDF file saved using a high compression ratio, the latest version of Adobe Reader is required.)

## Network Scanner Tool

This is a utility that helps you use Scan to Desktop. It configures the necessary settings in the Digital Laser Copier/Printer and client computer to receive data. In addition, Network Scanner Tool will automatically start Sharpdesk upon receiving image data.

The scanned image received by your computer can automatically be:

- Saved in a folder.
- Passed to the application set in Network Scanner Tool.
- Sent as e-mail.
- Saved in Sharpdesk.

## SHARP TWAIN AR/DM

SHARP TWAIN AR/DM imports image data from a Twain interface into a Twain-compliant application. SHARP TWAIN AR/DM has the following features:

- A selected range of the image data can be imported.
- The image can be rotated when imported.



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# Sharpdesk Installation Guide

## Please read

- The explanations in this manual assume that the person who will install the product and the users of the product have a working knowledge of Microsoft Windows.
  - For detailed information on the software in the CD-ROM, please view the user's guide (PDF format) that is included on the CD-ROM.
  - For information on the operating system, please refer to your operating system manual or the online Help function.
  - The explanations of screens and procedures in this manual are for Windows Vista. The screens may vary depending on your Windows version and settings.
- ## Warranty
- While every effort has been made to make this operation manual as accurate and helpful as possible, SHARP Corporation makes no warranty of any kind with regard to its content. All information included herein is subject to change without notice. SHARP is not responsible for any loss or damages, direct or indirect, arising from or related to the use of this operation manual.

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## Table of Contents

43	Sharpdesk CD-ROM (for Windows) .....
43	Software Programs .....
43	Sharpdesk (Desktop Document Management Software) .....
43	Network Scanner Tool .....
43	SHARP TWAIN AR/DM .....
44	User's Guides for Software Programs .....
45	Installing the Software Program .....
45	Installing Sharpdesk and Network Scanner Tool .....
47	Installing SHARP TWAIN AR/DM .....
47	Uninstalling the Software Program .....
47	Uninstalling the software program from the Control Panel .....

# 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 31).

**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.proj]  
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.

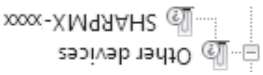
**1** Insert the "Software CD-ROM" into your CD-ROM drive.

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.

<p><b>Problem</b></p> <p>The printer driver is not installed correctly by plug and play (USB connection in Windows).</p>	<p><b>Point to check</b></p> <p>Did you connect the machine to your computer before installing the printer driver?</p>	<p><b>Solution</b></p> <p>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.</p> 
--	--	--

► **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.

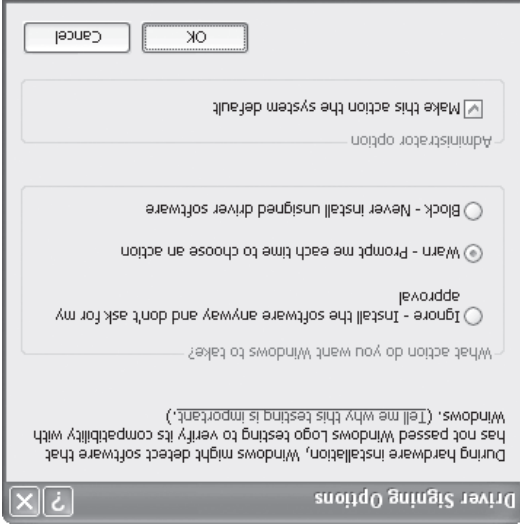
**1** Click the [start] button and then click [Control Panel].

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

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


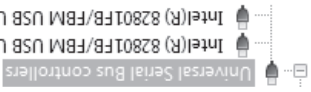
In Windows 2000, double-click the [System] icon.

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



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

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

Solution	Point to check	Problem
<p>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.)</p>	<p>Is the machine power on?</p>	<p>The machine is not detected (when connected to a network).</p>
<p>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 7)</p>	<p>Is your computer connected correctly to the machine?</p>	<p>The plug and play screen does not appear (USB connection in Windows).</p>
<p>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.</p>	<p>Is the machine power on?</p>	<p>The plug and play screen does not appear (USB connection in Windows).</p>
<p>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.</p>	<p>Can your computer use a USB connection?</p>	<p>Can your computer use a USB connection?</p>

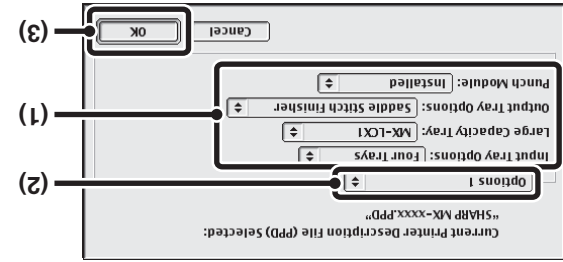
Solution	Point to check	Problem
Delete any unneeded files and applications to increase free space on your hard drive.	Is there sufficient free space on your hard drive?	The software cannot be installed.
Make sure that the software can run on your operating system. For detailed information on installation 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".	Are you using an operating system that is not supported?	
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 the IP address of the machine configured?	The machine is not detected (when connected to a network).
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 your computer connected to the same network as the machine?	

- The software cannot be installed..... 38
- The machine is not detected (when connected to a network)..... 38
- The plug and play screen does not appear (USB connection in Windows)..... 39
- The printer driver is not installed correctly by plug and play (USB connection in Windows)..... 40
- The printer driver cannot be installed (Windows 2000/XP/Server 2003) ..... 40

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

# WHEN INSTALLATION WAS NOT SUCCESSFUL

### 13 Select the machine configuration.



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

(2) Select [Options 2] from the menu to change the screen and continue selecting the options that have been installed on the machine.

(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. Follow these steps to print out the "All Custom Setting List": Press the [SYSTEM SETTINGS] key, touch the [List Print (User)] key, and then touch the [Print] key of "All Custom Setting List".

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

### 15 Click the close box ( ) to close the "Chooser".

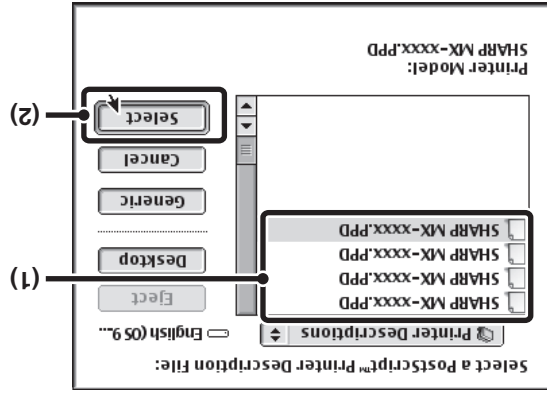
This completes the configuration of the printer driver.

### Installing the screen fonts

The screen fonts for Mac OS 9.0 - 9.2.2 are contained in the [Font] folder of the "PRINTER UTILITIES" CD-ROM that accompanies the P3 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.

### 10 Select the PPD file.



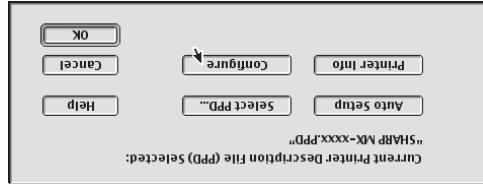
(1) Click the PPD file for your model.

(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.

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.

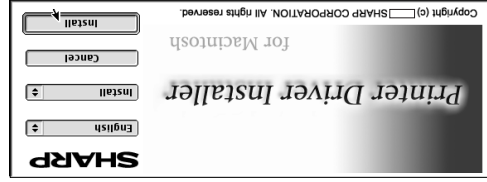
**2** Double-click the [CD-ROM] icon ( ) on the desktop.

**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.

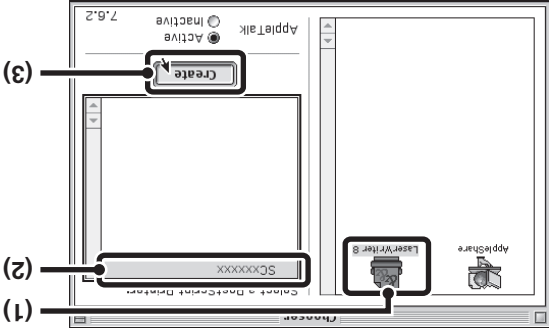
**7** Read the message in the window that appears and click the [Continue] button.

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.

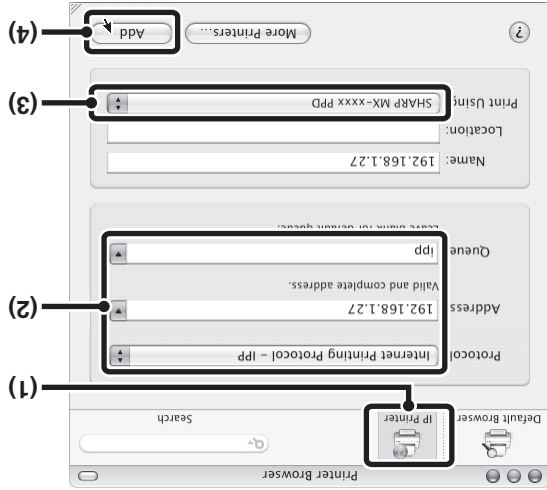
The machine's model name usually appears as [SCxxxxx]. ("xxxxx" is a sequence of characters that varies depending on your model.)

(3) Click the [Create] button.

## ▶ 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 33).

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.

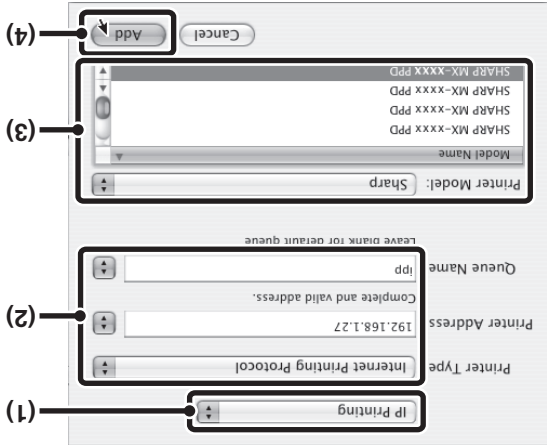
- (2) Select [Internet Printing Protocol] in "Protocol". Enter the address of the machine (IP address or domain name) and the queue name.
- Enter "ipp" in "Queue".
- (3) Select [Sharp] in "Print Using" and click the PPD file of your model.
- If you are using Mac OS X v10.5 to 10.5.1, select [Select a 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 v10.5 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 7)

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 7)



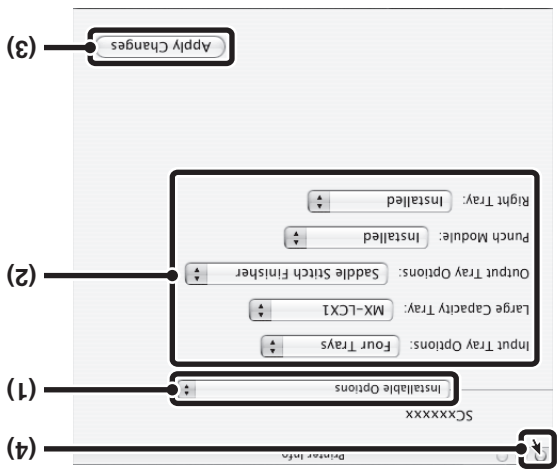
### 15 Display printer information.



- (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.



- (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.
- (4) Click to close the window.

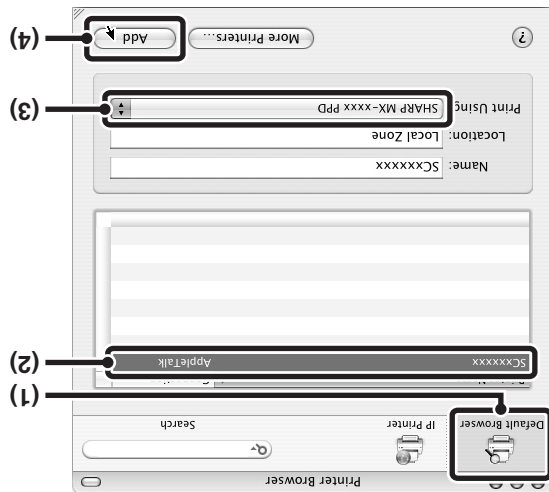
You can check the options that are installed on the machine by printing out the "All Custom Setting List" in the system settings. Follow these steps to print out the "All Custom Setting List": Press the [SYSTEM SETTINGS] key, touch the [List Print (User)] key, and then touch the [Print] key of "All Custom Setting List".

This completes the configuration of 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 35) 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.

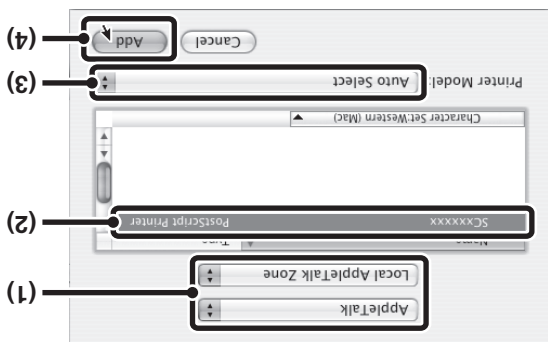
## (4) Click the [Add] button.

The PPD file of the machine is automatically selected and the peripheral devices installed on the machine are detected and automatically configured.



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

## 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.

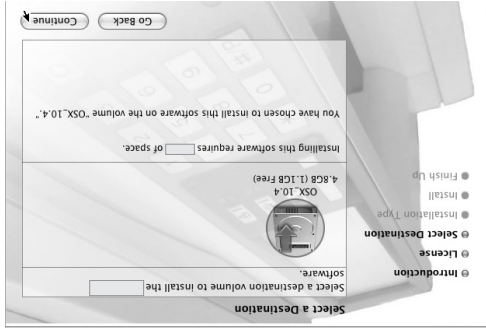
This completes the installation of the software. Next, configure the printer driver settings.

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

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



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



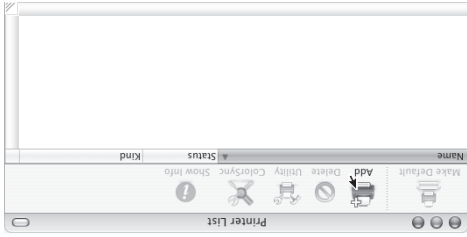
Be sure to select the hard drive on which your operating system is installed.

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

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



**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.

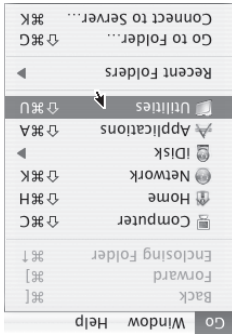


**13** Click [Add].

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



**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.



**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.

# 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 36

- The PS3 expansion kit is required to use the machine as a printer in a Macintosh environment. In addition, the machine must be connected to a network. A USB connection cannot be used.
- 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.

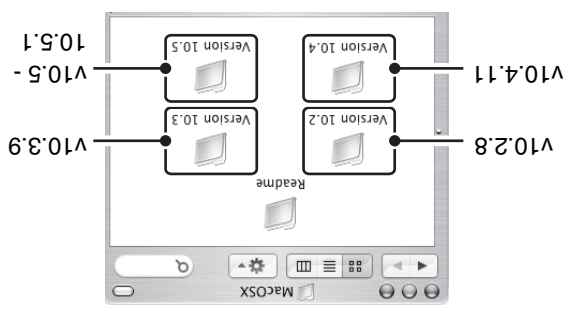
Insert the "Software CD-ROM" that shows "Disc 2" on the front of the CD-ROM.

**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.

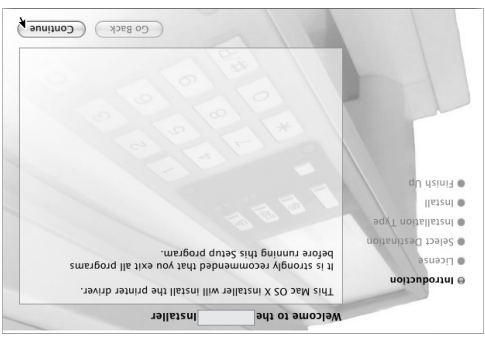
**4** Double-click the folder corresponding to the versions of the operating system.



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

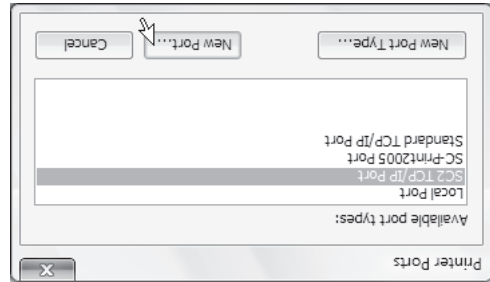
**5** Double-click the [MX-BX1] icon ( ).

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



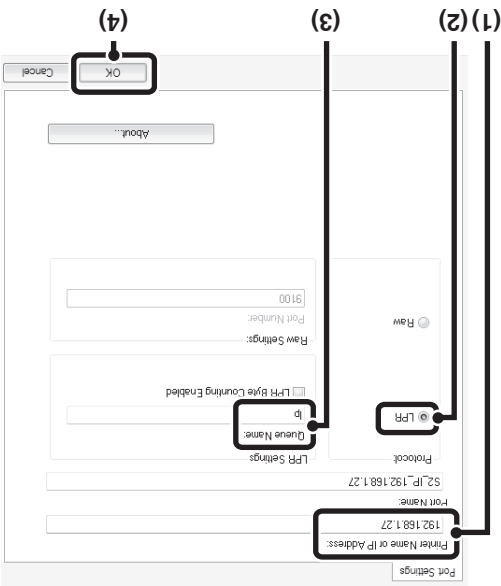
**4 Select [SC2 TCP/IP Port] and then click the [New Port] button.**

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.

**5 Create the new port.**



- (1) Enter the machine's IP address.
- (2) Make sure that [LPR] is selected.
- (3) Make sure that [lp] is entered.
- (4) Click the [OK] button.

Checking the IP address of the machine (page 7)

**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, 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.

# 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].

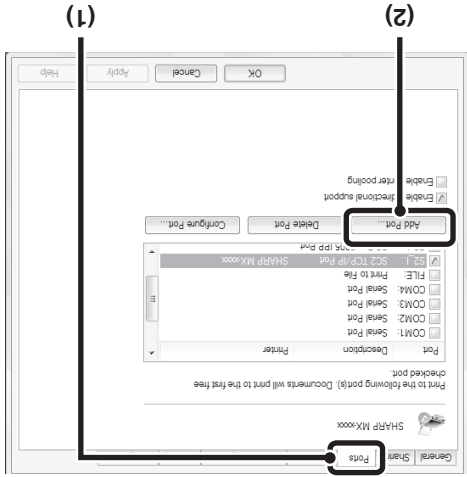
- In Windows XP/Server 2003, click the [start] button and then click [Printers and Faxes].
- In Windows 98/Me/NT 4.0/2000, click the [Start] button, select [Settings], and then click [Printers].

If [Printers and Faxes] does not appear in the [start] menu in Windows XP, click the [start] button, click [Control Panel], click [Printers and Faxes], 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 Adding or changing a port.



- (1) Click the [Ports] tab.
- (2) Click the [Add Port] button.

In Windows 98/Me, click the [Details] tab.

(2) Click the [Add Port] button.

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.



# INSTALLING THE PS DISPLAY FONTS

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 ( ).

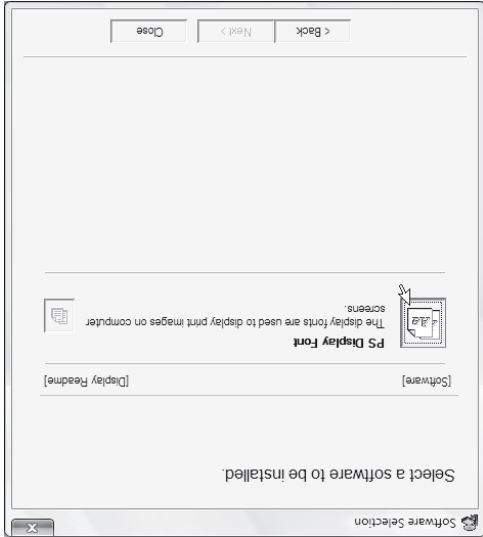
In Windows Vista, if a message screen appears asking you for confirmation, click [Allow].

**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.

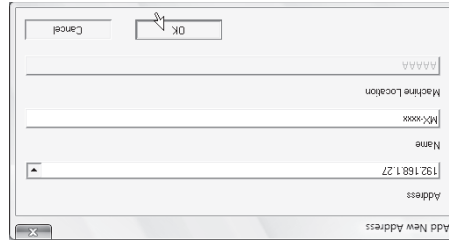


**7** Follow the on-screen instructions.

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

**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 SCANNER DRIVER

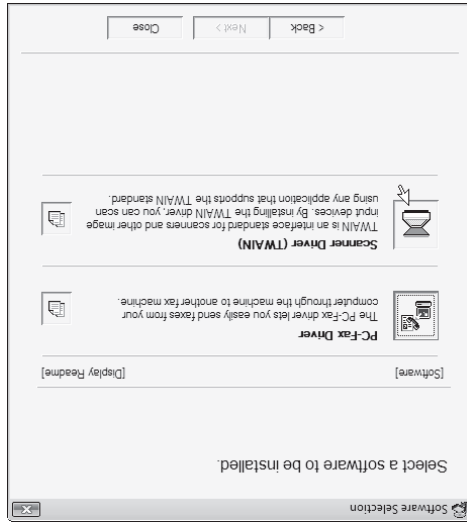
The scanner driver (TWIN driver) can only be used when the machine is connected to a network. When the scanner driver is installed, PC scan mode of the image send function can be used.

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

\* 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 8), continue the steps below.

## 1 Click the [Scanner Driver (TWIN)] button.



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 TWIN K], 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.



## 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.



# 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:

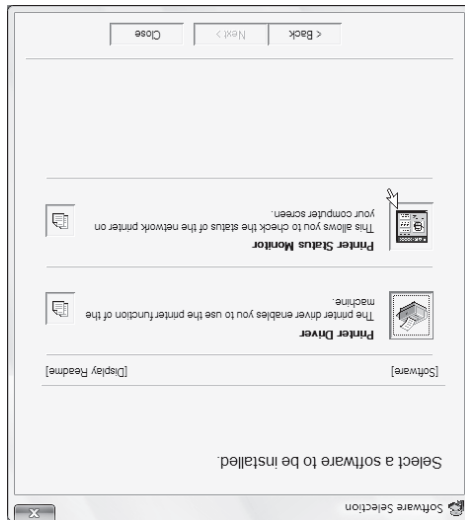
- When the machine is connected by a USB cable.
- When printing to the machine using the IPP function.

**Supported operating systems:** Windows 98/Me/NT 4.0\*/2000\*/XP\*/Server 2003\*/Vista\*

\* 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 8), perform the steps below.

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




## 2 Follow the on-screen instructions.

**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].

## 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.

▶ **When the PPD driver is installed**

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

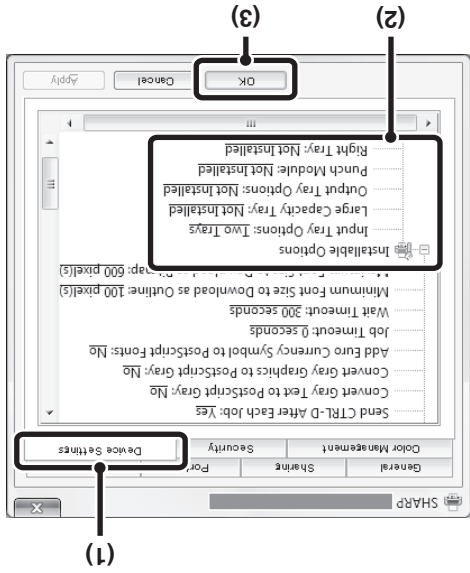
- In Windows XP/Server 2003, click the [start] button and then click [Printers and Faxes].
- In Windows 98/Me/NT 4.0/2000, click the [Start] button, select [Settings], and then click [Printers].

If [Printers and Faxes] does not appear in the [start] menu in Windows XP, click the [start] button, click [Control Panel], click [Printers and Faxes], 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** Configure the printer driver for the options installed on the machine.



(1) Click the [Device Settings] tab.

(2) Configure each item based on the machine configuration.

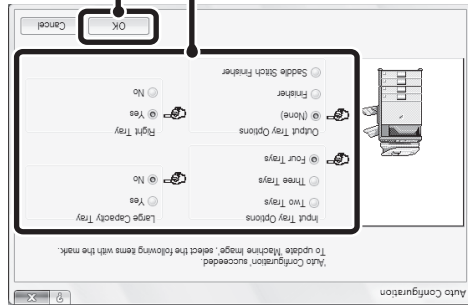
The items and the procedures for configuring the items vary depending on the operating system version.

(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. Follow these steps to print out the "All Custom Setting List": Press the [SYSTEM SETTINGS] key, touch the [List Print (User)] key, and then touch the [Print] key of "All Custom Setting List".

## 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. Follow these steps to print out the "All Custom Setting List": Press the [SYSTEM SETTINGS] key, touch the [List Print (User)] key, and then touch the [Print] key of "All Custom Setting List".
- Click the [Set Tray Status] button, the [Paper Type Name] button, and the [Set Tandem Print]\* 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 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.
- Set Tandem Print\*:** Enter the setting (the IP address of the slave machine) in "Tandem Connection Setting" in the system settings (administrator) of the machine.


\* "Set Tandem Print" can only be configured when the printer driver is installed using a "Standard installation" or a "Custom installation" with "LPR Direct Print (Specify Address/Auto Search)" selected.

# 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 24).

## ► When the PCL printer driver or PS printer driver is installed

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

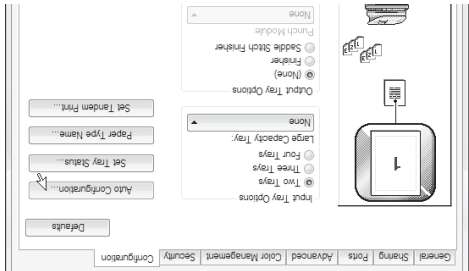
- In Windows XP/Server 2003, click the [start] button and then click [Printers and Faxes].
- In Windows 98/Me/NT 4.0/2000, click the [Start] button, select [Settings], and then click [Printers].

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].



The settings are automatically configured based on the detected machine status.

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

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

**3** Click the [Configuration] tab.

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

If the PS3 expansion kit is installed on the machine and 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.

- 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, 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.

**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 22) to configure the printer driver settings.

**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.

## ► 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 [PFMSSetup.exe].**

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

After the resident font information has been installed, restart your computer.

# USING THE MACHINE AS A SHARED PRINTER

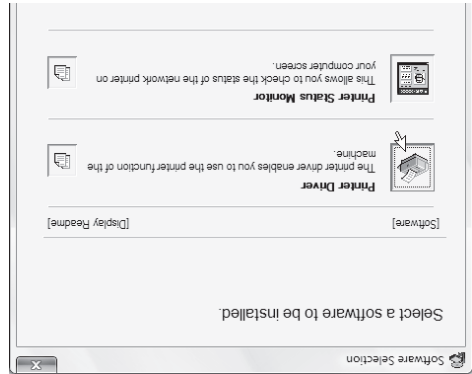
If you are going to use the machine as a shared printer on a Windows network with the printer driver or the PC-Fax driver installed on a print server, follow the steps below to install the printer driver or the PC-Fax driver on the client computers.

- 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 21) 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 8), 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.



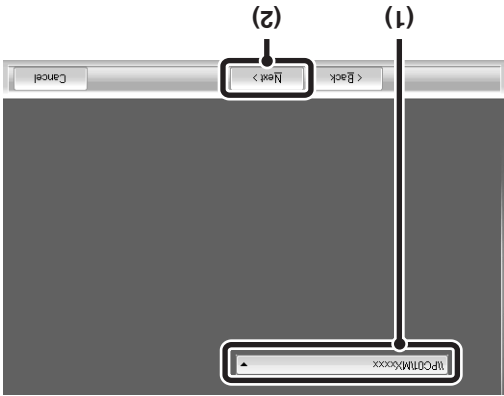
\* The above screen appears when using the "Disc 1" CD-ROM.

## 2 Click the [Custom installation] button.

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



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



## (1) Select the printer name (configured as a shared printer) 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 13 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 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 P3 expansion kit. See "INSTALLING THE PS DISPLAY FONTS" (page 28).

**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.



**This completes the installation.**

• After installation, see "CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE" (page 22) 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 29)

• If you 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 PS expansion kit. See "INSTALLING THE PS DISPLAY FONTS" (page 28).

• If you are using Windows Vista

**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.

**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.

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

- If you are using Windows Vista
  - 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.





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 8), perform the steps below.

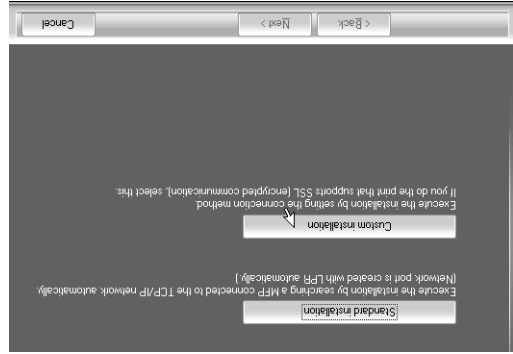
**1 Click the [Printer Driver] button.**

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.**



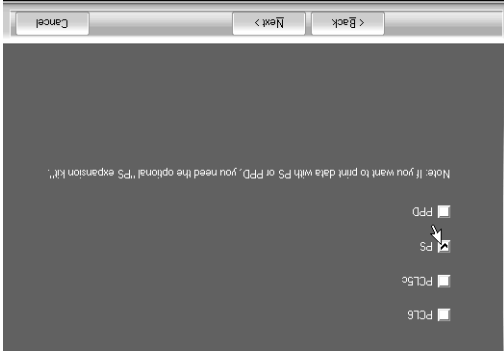
**3 When you are asked how the printer is connected, select [Connected to this computer] and click the [Next] button.**



**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.



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

**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.

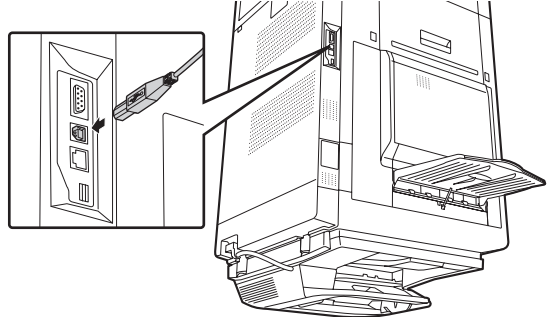


**7** Connect the machine to your computer with a USB cable.

(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.

**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  
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 22) 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 20) to install the printer driver on each of the client computers.

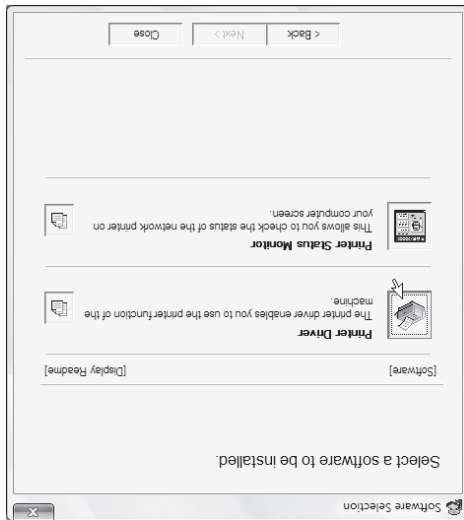
# WHEN THE MACHINE WILL BE CONNECTED WITH A USB CABLE

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

- **Make sure that a USB cable is not connected 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.
- 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 21) 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 8), perform the steps below.

## 1 Click the [Printer Driver] button.




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

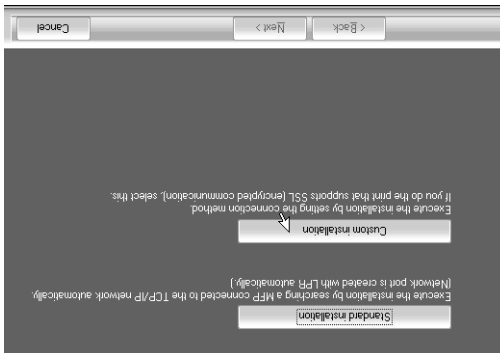


## 4 When you are asked if you wish to install the display fonts, select an answer and click the [Next] button.

## 5 Follow the on-screen instructions.

- **If you are using Windows Vista**  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.

## 2 Click the [Custom installation] button.



## 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

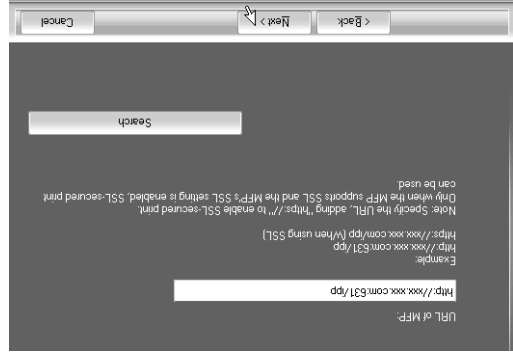
machine, enter the new port number.

### 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 13 to continue the installation.

**This completes the installation.**

- After installation, see "CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE" (page 22) to configure the printer driver settings.
- If you installed the PS printer driver or the PFD 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" (page 28).

## ▶ Printing using the IPP function and the SSL function

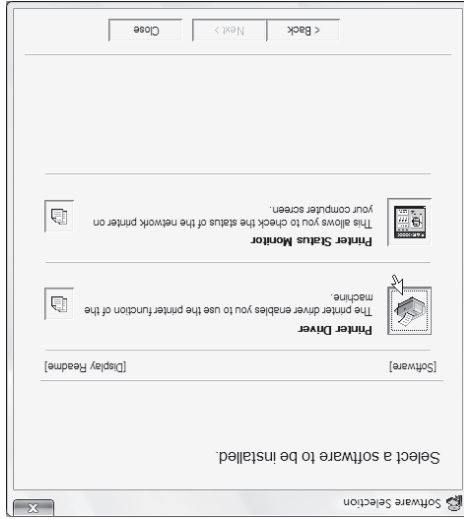
The IPP function can be used to print to the machine over a network using HTTP protocol. When the machine is in a remote location, this function can be used in place of the fax function to print a higher quality image than a fax. The IPP function can also be used in combination with the SSL (encrypted 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 "7. SYSTEM SETTINGS" in the Operation Guide.

When the software selection screen appears in step 6 of "OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)" (page 8), perform the steps below.

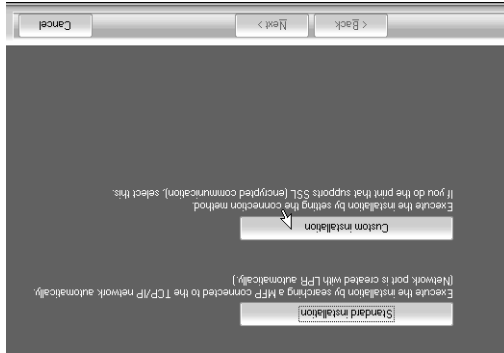
### 1 Click the [Printer Driver] button.

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.

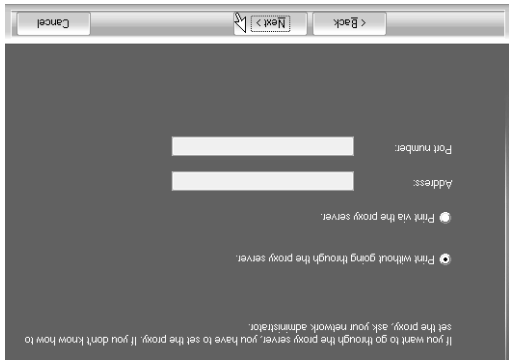


### 3 When you are asked how the printer is connected, select [IPP] and click the [Next] button.



### 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].



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

**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.



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

**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.

**9** When you are asked if you wish to install the display fonts, select an answer 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 not installing the PCL printer driver (you are installing the PS printer driver or the PPD driver), select [No] and click the [Next] button.

**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
- 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.

**This completes the installation.**

- After installation, see "CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE" (page 22) to configure the printer driver settings.
- If you 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" (page 28).

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.

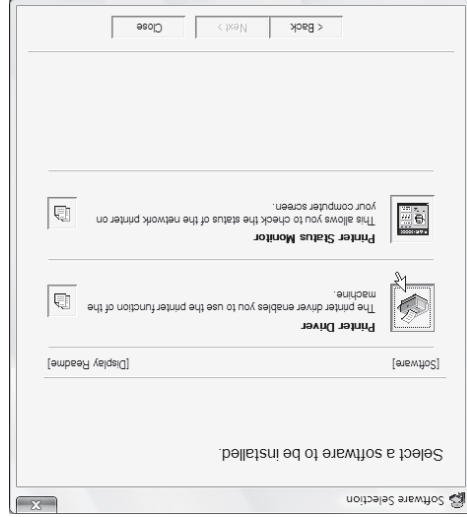
## ► Installation by specifying the machine's address

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 8), perform the steps below.

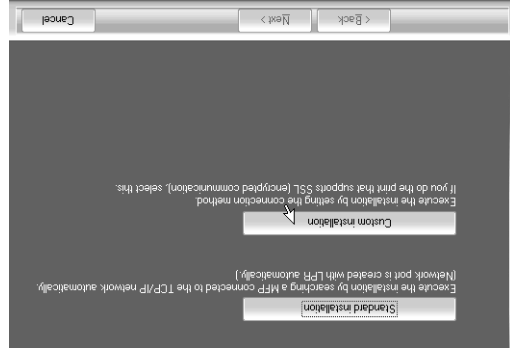
### 1 Click the [Printer Driver] button.

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.



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



### 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 7)



**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**  
To install the display fonts for the PCL printer driver, 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 not installing the PCL printer driver (you are installing the PS printer driver or the PPD driver), select [No] and click the [Next] button.

**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** 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.

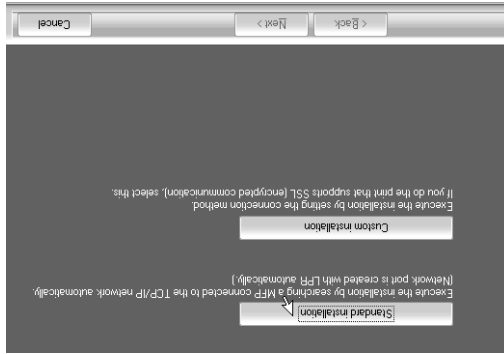


**This completes the installation.**

- After installation, see "CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE" (page 22) to configure the printer driver settings.
- If you 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" (page 28).
- If you are using the machine as a shared printer, see "USING THE MACHINE AS A SHARED PRINTER" (page 20) to install the printer driver on each of the client computers.



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



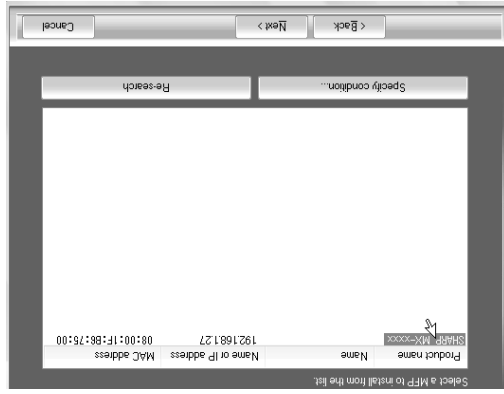
When [Custom installation] is selected, you can change any of the items below. When [Standard installation] is selected, the installation will take place as indicated below.

- Machine connection method: LPR Direct Print (Auto Search)
- Set as default printer: Yes (excluding the PC-Fax driver)
- Printer driver name: Cannot be changed
- PCL printer 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 12
- IPF: page 14
- Shared printer: page 20
- Connected to this computer: page 16

**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 7)

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

**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.

- When the PC-Fax driver is being installed, this screen does not appear. Go to the next step.
- The P53 expansion kit is required to use the PS printer driver or the FPD driver.
- The [PPD] checkbox only appears if you are using Windows 2000/XP/Server 2003/Vista.

# 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 16)

## 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\***

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

- The PS3 expansion kit is required to use the PS printer driver or the PPD driver.

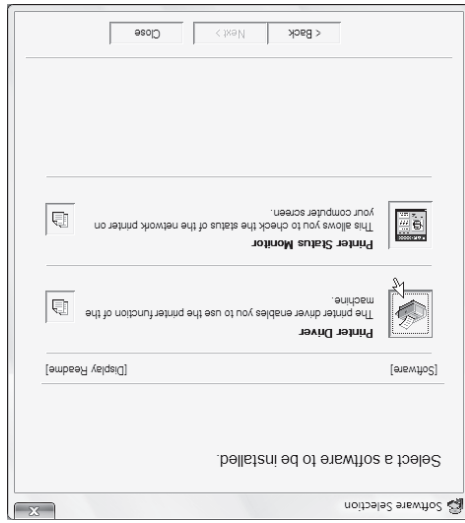
- To install the PPD driver when Windows 98/Me/NT 4.0 is used, see "USING THE STANDARD WINDOWS PS PRINTER DRIVER (Windows 98/Me/NT 4.0)" (page 21) and install the driver using the Add Printer Wizard.
- To use the machine as a network printer in Windows NT 4.0, "TCP/IP Protocol" must be installed on your 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 14) and install the printer driver or the PC-Fax driver.
- 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.

### ▶ Standard installation

When the software selection screen appears in step 6 of "OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)" (page 8), perform the steps below.

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

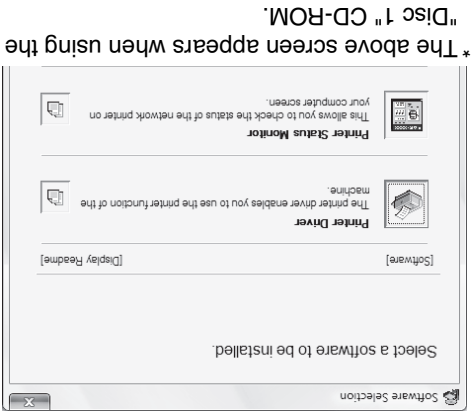
To install the PC-Fax driver, click the [PC-Fax Driver] button on the "Disc 2" CD-ROM.



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

- INSTALLING THE PRINTER DRIVER / PC-FAX DRIVER**
- WHEN THE MACHINE IS CONNECTED TO A NETWORK
  - Standard installation: page 9
  - Installation by specifying the machine's address: page 12
  - Printing using the IPP function and the SSL function: page 14
  - WHEN THE MACHINE WILL BE CONNECTED WITH A USB CABLE: page 16
  - USING THE MACHINE AS A SHARED PRINTER: page 20
  - INSTALLING THE PRINTER STATUS MONITOR: page 25
  - INSTALLING THE SCANNER DRIVER: page 26

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



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

**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.

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

# OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)

**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.

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.

## 2 SETUP IN A WINDOWS ENVIRONMENT

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.

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

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

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

**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.

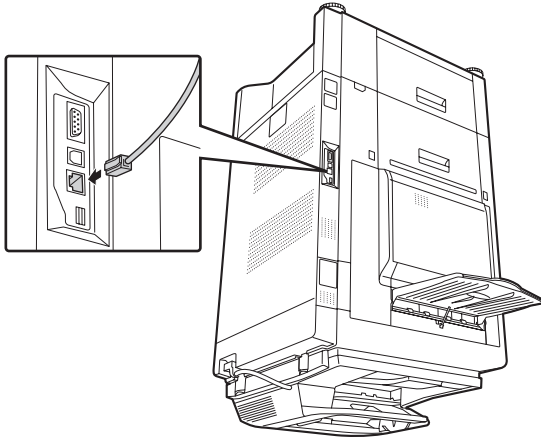
**1 Insert the "Software CD-ROM" into your computer's CD-ROM drive.**

- 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.

# 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 of the machine by printing out the "All Custom Setting List" in the system settings. Follow these steps to print out the "All Custom Setting List":  
Press the [SYSTEM SETTINGS] key, touch the [List Print (User)] key, and then touch the [Print] key of "All Custom Setting List".

## 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 16).

# 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	
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 5).  
 \*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.

# VERIFYING SYSTEM REQUIREMENTS

## SYSTEM REQUIREMENTS

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

	Operating system*1	Computer type	Display	Other hardware requirements
<b>Windows</b>	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	IBM PC/AT compatible computer Equipped with a 10Base-T/100Base-T LAN board or equipped standard with a USB 2.0*3/1.1*4 port.	1024 x 768 dots resolution and 16-bit colour or higher is recommended.	An environment that allows any of the above operating systems to fully operate.
	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	An environment in which any of the operating systems listed above can fully operate (including Macintosh computers with an Intel processor).		
<b>Macintosh*5</b>				

\*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 USB2.0 (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, or Windows Vista, and

\*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.


## OTHER CD-ROMS

CD-ROMS AND SOFTWARE

### ► "PRINTER UTILITIES" CD-ROM that accompanies the PS3 expansion kit (for Windows/Macintosh)

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 (page 28)


### ► "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 9)

### ► "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".

**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 9)

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 26)

**• 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. The PS3 expansion kit is required to use the machine in a Macintosh environment.  
 MAC OS X (page 31)  
 MAC OS 9.0 - 9.2.2 (page 36)

• The PS3 expansion kit is required to use the machine as a printer in a Macintosh environment. In addition, the machine must be connected to a network. A USB connection cannot be used.  
 • The scanner driver and PC-Fax driver cannot be used in a Macintosh environment.



# 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 5).

### 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.

##### - 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 9)  
 WHEN THE MACHINE WILL BE CONNECTED WITH A USB CABLE (page 16)

##### • 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 25)

# TABLE OF CONTENTS

## 1 BEFORE INSTALLING THE SOFTWARE

CD-ROMS AND SOFTWARE	2
• SOFTWARE CD-ROM	2
• OTHER CD-ROMS	4
VERIFYING SYSTEM REQUIREMENTS	5
• SYSTEM REQUIREMENTS	5
• SOFTWARE REQUIREMENTS	6
CONNECTING THE MACHINE	7
• CONNECTING TO A NETWORK	7
• CONNECTING THE MACHINE WITH A USB CABLE (Windows)	7

## 2 SETUP IN A WINDOWS ENVIRONMENT

OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)	8
INSTALLING THE PRINTER DRIVER / PC-FAX DRIVER	9
• WHEN THE MACHINE IS CONNECTED TO A NETWORK	9
• WHEN THE MACHINE WILL BE CONNECTED WITH A USB CABLE	16
• USING THE MACHINE AS A SHARED PRINTER	20
• USING THE STANDARD WINDOWS PS PRINTER DRIVER (Windows 98/Me/NT 4.0)	21
• CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE	22
INSTALLING THE PRINTER STATUS MONITOR	25
INSTALLING THE SCANNER DRIVER	26
INSTALLING THE PS DISPLAY FONTS	28
CHANGING THE PORT	29

## 3 SETUP IN A MACINTOSH ENVIRONMENT

MAC OS X	31
MAC OS 9.0 - 9.2.2	36
WHEN INSTALLATION WAS NOT SUCCESSFUL	38
REMOVING THE SOFTWARE	41

## 4 TROUBLESHOOTING

Thank you for purchasing this product. This manual explains how to install and configure the software that allows the machine to be used as a printer or scanner for a computer.

This manual 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 38).

## 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 "MX-xxxx" appears in this manual, please substitute your model name for "xxxx".
- This manual contains references to the fax function. However, please note that the fax function is not available in some countries and regions.
- 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.

## Warning

- Reproduction, adaptation or translation of the contents of the manual without prior written permission is prohibited, except as allowed under copyright laws.
- All information in this manual is subject to change without notice.

## Illustrations and the operation panel and touch 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 a right tray and stand/2 x 500 sheet paper drawer are installed on the MX-3100N. For some functions and procedures, the explanations assume that devices other than the above are installed.

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.

# 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.

DIGITAL FULL COLOUR MULTIFUNCTIONAL SYSTEM

# Software Setup Guide

BEFORE INSTALLING  
THE SOFTWARE

SETUP IN A WINDOWS  
ENVIRONMENT

SETUP IN A MACINTOSH  
ENVIRONMENT

TROUBLESHOOTING

# Sharpdesk

# Installation Guide

Please keep this manual as the information mentioned below is very important.

Sharpdesk Serial Numbers

This product can only be installed on a number of computers equal to the number of licenses. Any additional computers will require additional licenses.

Keep this manual close at hand for reference whenever needed.

Please see opposite side to access to "Safety Guide".

These manuals are combined for environmental protection.

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