

SHARP®

MODEL: MX-M363U
MX-M453U
MX-M503U

DIGITAL 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".

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.

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

Notice for users in the UK

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:

GREEN-AND-YELLOW:	Earth
BLUE:	Neutral
BROWN:	Live

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>

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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.



Products that have earned the ENERGY STAR® are designed to protect the environment through superior energy efficiency.

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

Symbols in this manual

To ensure safe use of the machine, this manual uses various safety symbols. The safety symbols are classified as explained below. Be sure you understand the meaning of the symbols when reading the manual.

- | | |
|---|---|
|  | WARNING Indicates a risk of death or serious injury. |
|  | CAUTION Indicates a risk of human injury or property damage. |

Meaning of the symbols

-  The  symbol indicates the need for caution. The specific matter that requires caution is indicated inside the symbol (the symbol at left indicates "caution: high temperature").
-  The  symbol indicates an action that is prohibited. The specific action that is prohibited is indicated inside or beside the symbol (the symbol at left indicates "disassembly is prohibited").
-  The  symbol indicates an action that is mandatory.

WARNING

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. Do not use an extension cord or adapter to connect other devices to the power outlet used by the machine. Using an improper power supply may cause fire or electrical shock.

*For the power supply requirements, see the name plate in the lower left corner of the left side of the machine.



Do not place a container of water or other liquid, or a metal object that might fall inside, on the machine.

If the liquid spills or the object falls into the machine, fire or electrical shock may result.



Do not damage or modify the power cord.

Placing heavy objects on the power cord, pulling it, or forcibly bending it will damage the cord, resulting in fire or electrical shock.



Do not remove the machine casing.

High-voltage parts inside the machine may cause electrical shock.



Do not make any modifications to this machine.

Doing so may result in personal injury or damage to the machine.



If you notice smoke, a strange odor, or other abnormality, do not use the machine.

If used in this condition, fire or electrical shock may result. Immediately switch off the main power and remove the power plug from the power outlet. Contact your dealer or nearest authorised service representative.



If a thunder storm begins, switch off the main power and remove the power plug from the outlet to prevent electrical shock and fire due to lightning.



If a piece of metal or water enters the machine, switch off the main power and remove the power plug from the power outlet.

Contact your dealer or nearest authorised service representative. Using the machine in this condition may result in electrical shock or fire.



Do not insert or remove the power plug with wet hands.

This may cause electrical shock.



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.



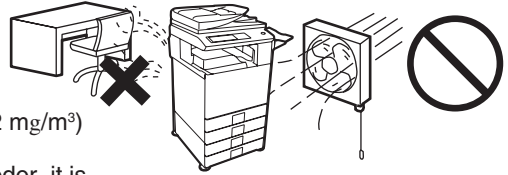
! CAUTION

Do not install the machine in a location with poor ventilation. Install so that exhaust from the machine does not directly contact people.

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

The present recommended long term exposure limit for ozone is 0.1 ppm (0.2 mg/m³) 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.



Do not install the machine on an unstable or slanted surface. Install the machine on a surface that can withstand the weight of the machine.

Risk of injury due to the machine falling or toppling. If peripheral devices are to be installed, do not install on an uneven floor, slanted surface, or otherwise unstable surface. Danger of slippage, falling, and toppling. Install the product on a flat, stable surface that can withstand the weight of the product. (Weight when various peripheral devices are installed: approx. 200 kg (441 lbs.))

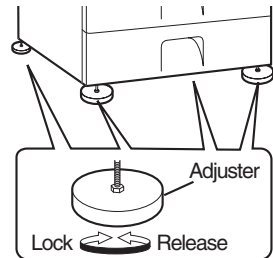


When the machine is installed, the adjusters (4) must be lowered to the floor to secure the machine (prevent it from moving).

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.)



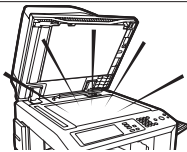
When removing the power plug from the outlet, do not pull on the cord.

Pulling on the cord may cause damage such as wire exposure and breakage, and may result in fire or electrical shock.

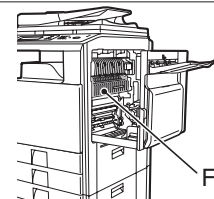


Do not look directly at the light source.

Doing so may damage your eyes.



The fusing unit is hot. When removing a misfeed, do not touch the fusing unit. Take care not to burn yourself.



Fusing unit

Do not block the ventilation ports on the machine. Do not install the machine in a location that will block the ventilation ports.

Blocking the ventilation ports will cause heat to build up in the machine, creating a risk of fire.



Do not throw toner, a toner container (toner cartridge), or a waste toner box into a fire.

Toner may fly and cause burns.



Do not install in a location with moisture or dust.

Risk of fire and electrical shock.



Store toner, toner containers (toner cartridges), and waste toner boxes out of the reach of children.



When loading paper, removing a misfeed, performing maintenance, closing the front and side covers, and inserting and removing trays, take care that your fingers are not pinched.



If you will not use the machine for a long time, be sure to remove the power plug from the outlet for safety.



When moving the machine, switch off the main power and remove the power plug from the outlet before moving.

The cord may be damaged, creating a risk of fire or electrical shock.



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.

Laser information

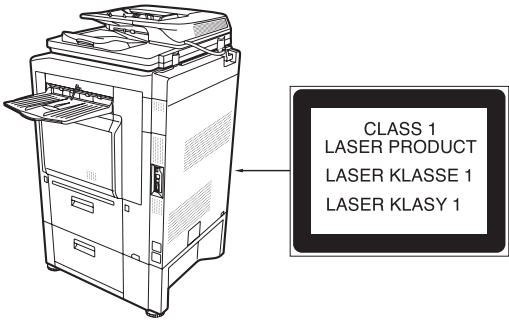
Wave length	790 nm ±10 nm
Pulse times (North America and Europe)	MX-M363U: 6.1 µs ±8.3 ns /7 mm MX-M453U/MX-M503U: 4.8 µs ±6.4 ns /7 mm
Output power	Max 0.6 mW (LD1+LD2)

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 Europe:

- CLASS 1 LASER PRODUCT
- LASER KLASSE 1
- LUOKAN 1 LASERLAITE
- KLASS 1 LASERAPPARAT



"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.

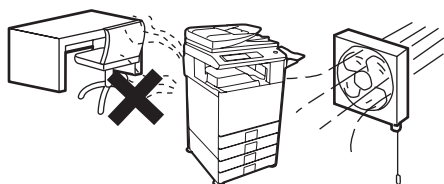
INSTALLATION REQUIREMENTS

The performance of the machine is affected by the ambient conditions of the installation location. Do not install in the following locations:

CAUTION:

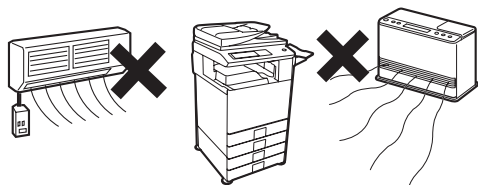
Do not install the machine in a location with poor air circulation.

A small amount of ozone is created inside the machine during printing. The amount of ozone created is not sufficient to be harmful; however, an unpleasant odor may be noticed during large copy runs, and thus the machine should be installed in a room with a ventilation fan or windows that provide sufficient air circulation. (The odor may occasionally cause headaches.)



* Install the machine so that people are not directly exposed to exhaust from the machine. If installed near a window, ensure that the machine is not exposed to direct sunlight.

Locations that are excessively hot, cold, humid, or dry (near heaters, humidifiers, air conditioners, etc.)



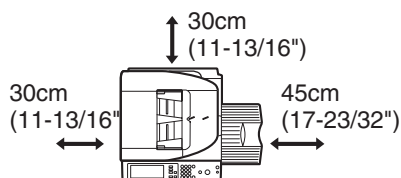
The paper will become damp and condensation may form inside the machine, causing misfeeds and dirty output.

☞ Ambient environment (page 10)

If the location has an ultrasonic humidifier, use pure water for humidifiers in the humidifier. If tap water is used, minerals and other impurities will be emitted, causing impurities to collect on the inside of the machine and create dirty output.

Near a wall

Be sure to allow the required space around the machine for servicing and proper ventilation. (The machine should be no closer than the distances indicated below from walls. The indicated distances are for the case when a saddle finisher and large capacity paper tray are not installed.)

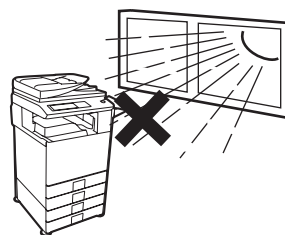


Dusty locations



If dust enters the machine, dirty output and machine failure may result.

Locations exposed to direct sunlight



Plastic parts may become deformed and dirty output may result.

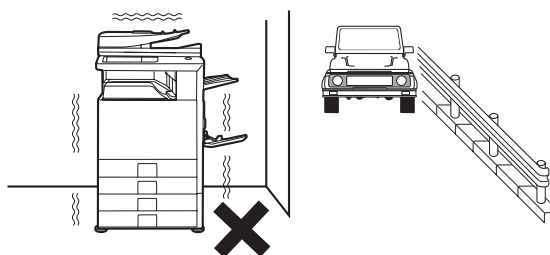
Locations with ammonia gas



Installing the machine next to a diazo copy machine may cause dirty output.

Locations subject to vibration.

Vibration may cause failure.



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.

- The machine should be installed near an accessible power outlet for easy connection.
- 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.

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.

 SHARP 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.
--	--

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 with the top side up. Do not store a toner cartridge 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-SC2 (for finisher (large stacker))

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

Name	Digital Multifunctional System MX-M363U/MX-M453U/MX-M503U	
Type	Desktop	
Photoconductive type	OPC drum	
Printing method	Electrophotographic system (laser)	
Developer system	Dry-type two-component magnetic brush development	
Fusing system	Heat rollers	
Scanning resolution	Document glass	600 x 300 dpi (factory default values), 600 x 400 dpi, 600 x 600 dpi
	Automatic document feeder	600 x 400 dpi (factory default values), 600 x 600 dpi
Printing resolution	600 x 600 dpi	
Scanning gradation	256 levels	
Printing gradation	Equivalent to 256 levels	
Original sizes / types	Max. A3 (11" x 17") / sheets, bound documents	
Copy sizes	Maximum: A3W (12" x 18") Minimum: A5R (5-1/4" x 5-3/4")	
Print margins	Leading edge / trailing edge: total 8 mm (21/64") or less, near edge / far edge: total 4 mm $\pm$ 2 mm (11/64" $\pm$ 3/32") or less	
Warm-up time	20 seconds or less (This may vary depending on the ambient conditions.)	
First-copy time*	MX-M363U: 4.6 seconds or less MX-M453U/MX-M503U: 3.9 seconds or less (Portrait feeding of A4 (8-1/2" x 11") sheets. This may vary depending on the state of the machine.)	
Copy ratios	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.	
Continuous copy	999 copies	
Automatic document feeder	See "Automatic document feeder specifications".	
Tray 1 / Tray 2	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 ² to 105 g/m ² (16 lbs. to 28 lbs.)), heavy paper (106 g/m ² to 209 g/m ² (28 lbs. bond to 110 lbs. index)) Paper capacity: Plain paper (80 g/m ² (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 black and white mode, actual time may vary based on environment conditions.

Machine specifications / copier specifications (Continued)

Bypass tray	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 (56 g/m ² to 59 g/m ² (15 lbs. to 16 lbs.)), plain paper (60 g/m ² to 105 g/m ² (16 lbs. to 28 lbs.)), heavy paper (106 g/m ² to 209 g/m ² (28 lbs. bond to 110 lbs. index)), envelopes (75 g/m ² to 90 g/m ² (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, labels, tab paper, envelopes (Monarch, Com-10, DL, C5)
Duplex module	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, 5-1/2" x 8-1/2"R, 8K, 16K, 16KR Paper weight: Plain paper (60 g/m ² to 105 g/m ² (16 lbs. to 28 lbs.)), heavy paper (106 g/m ² to 209 g/m ² (28 lbs. bond to 110 lbs. index)) Paper types: SHARP-recommended plain paper, recycled paper, coloured paper, and heavy paper
Output tray (Centre tray)*1	Output method: Face-down output (A3W and 12" x 18" paper can be output to right tray, finisher, or saddle stitch finisher) Output capacity: 400 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
Interface port	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)
Required power supply	Local voltage $\pm 10\%$ (For the power supply requirements, see the name plate in the lower corner of the left side of the machine.)
Power consumption	1.84 kW (220-240 V) / 1.44 kW (100-127 V)
Dimensions	645 mm (W) x 670 mm (D) x 935 mm (H) (25-25/64" (W) x 26-3/8" (D) x 36-51/64" (H))
Weight	Approx. 95 kg (209.4 lbs.)
Overall dimensions	986 mm (W) x 670 mm (D) (38-53/64" (W) x 26-3/8" (D)) (when bypass tray is extended)

*1 Output tray (Centre 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. If you need to change the connector that is used, contact your service technician.

To receive power supplied from a type A connector, the total current consumption of the connected device should not exceed 500 mA.

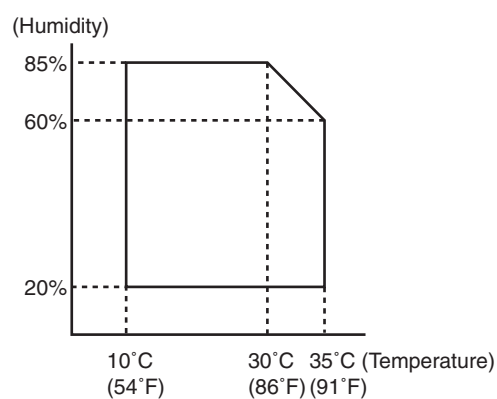
SPECIFICATIONS

Continuous copying speeds*

Model	MX-M363U	MX-M453U	MX-M503U
Copy ratio	100% / Reduced / Enlarged		
A3, 11" x 17", 8K	17 copies/min.	20 copies/min.	22 copies/min.
B4, 8-1/2" x 14", 8-1/2" x 13-1/2", 8-1/2" x 13-2/5", 8-1/2" x 13"	20 copies/min.	23 copies/min.	25 copies/min.
A4, B5, 8-1/2" x 11", 16K	36 copies/min.	45 copies/min.	50 copies/min.
A4R, B5R, 8-1/2" x 11"R, 7-1/4" x 10-1/2"R, 16KR	25 copies/min.	30 copies/min.	30 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



Acoustic noise emission (measurement according to ISO7779)

		MX-M363U	MX-M453U	MX-M503U
Sound power level L _{WA}				
Printing mode (continuous printing)		6.6 B	6.7 B	6.8 B
Standby mode		4.6 B	4.6 B	4.6 B
Sound pressure level L _{pA} (actual measurement)				
Printing mode	Bystander positions	52 dB (A)	53 dB (A)	54 dB (A)
	Operator positions	52 dB (A)	53 dB (A)	53 dB (A)
Standby mode	Bystander positions	32 dB (A)	32 dB (A)	32 dB (A)
	Operator positions	34 dB (A)	32 dB (A)	31 dB (A)

Automatic document feeder specifications

Original sizes	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* ¹ (39-23/64"))
Original weight	One-sided 35 g/m ² to 128 g/m ² (9 lbs. to 32 lbs.)* ² Two-sided 50 g/m ² to 105 g/m ² (13 lbs. to 28 lbs.)
Capacity	100 sheets (80 g/m ² (21 lbs.)), Maximum stack height of 13 mm (1/2")

*¹ 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.

*² Paper weights from 35 g/m² (9 lbs.) to 49 g/m² (13 lbs.) require the use of slow scan mode.

Exit tray unit (right tray) specifications

Model	MX-TRX2
Output method	Face-down output
Output capacity*	100 sheets (using SHARP-recommended A4 or 8-1/2" x 11" paper)
Dimensions	When tray is folded up: 314 mm (W) x 405 mm (D) x 52 mm (H) (12-23/64" (W) x 15-61/64" (D) x 2-3/64" (H)) When tray is extended: 444 mm (W) x 405 mm (D) x 52 mm (H) (17-31/64" (W) x 15-61/64" (D) x 2-3/64" (H))
Weight	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 and tab paper cannot be output.

Stand/1x500 sheet paper drawer specifications

Model	MX-DEX8
Paper sizes	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
Paper weight	Plain paper (60 g/m ² to 105 g/m ² (16 lbs. to 28 lbs.)), heavy paper (106 g/m ² to 209 g/m ² (28 lbs. bond to 110 lbs. index))
Paper capacity	500 sheets (80 g/m ² (21 lbs.)) x 1 tray
Paper types	SHARP-recommended plain paper, recycled paper, and coloured paper
Automatic paper size detection	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
Power supply	Supplied from the machine
Dimensions	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)
Weight	Approx. 20 kg (44.1 lbs.)

Stand/2x500 sheet paper drawer specifications

Model	MX-DEX9
Paper sizes	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
Paper weight	Plain paper (60 g/m ² to 105 g/m ² (16 lbs. to 28 lbs.)), heavy paper (106 g/m ² to 209 g/m ² (28 lbs. bond to 110 lbs. index))
Paper capacity	500 sheets (80 g/m ² (21 lbs.)) x 2 tray
Paper types	SHARP-recommended plain paper, recycled paper, and coloured paper
Automatic paper size detection	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
Power supply	Supplied from the machine
Dimensions	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)
Weight	Approx. 23.5 kg (51.9 lbs.)

Large capacity tray specifications*

Model	MX-LCX1
Paper sizes	A4, 8-1/2" x 11" (paper size change must be performed by a service technician)
Paper weight	Plain paper (60 g/m ² to 105 g/m ² (16 lbs. to 28 lbs.))
Paper capacity	3500 sheets (80 g/m ² (21 lbs.))
Paper types	SHARP-recommended plain paper, recycled paper, and coloured paper
Power supply	Supplied from the machine
Dimensions	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))
Weight	Approx. 29 kg (63.9 lbs.)

* 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

Model	MX-FNX9	
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	
Paper weight	Thin paper (56 g/m ² to 59 g/m ² (15 lbs. to 16 lbs.)) plain paper (60 g/m ² to 105 g/m ² (16 lbs. to 28 lbs.)) heavy paper (106 g/m ² to 209 g/m ² (28 lbs. bond to 110 lbs. index)) , envelopes (75 g/m ² to 90 g/m ² (20 lbs. to 24 lbs.))	
Modes	Non-staple, staple	
Allowed paper sizes for offset	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	
Offset distance	30 mm (1-3/16")	
Tray capacity*1	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)
Power supply	Supplied from the machine	
Dimensions	640 mm (W) x 595 mm (D) x 205 mm (H) (25-3/16" (W) x 23-27/64" (D) x 8-5/64" (H)) (When tray is extended)	
Weight	Approx. 13 kg (28.7 lbs.)	
Stapler section		
Allowed paper sizes for stapling	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.)	
Maximum number of sheets for stapling*5	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/m² (24 lbs.) and includes two cover sheets of 106 g/m² to 209 g/m² (28 lbs. bond to 110 lbs. index).

Note:

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

Finisher (large stacker) specifications*1

Model		MX-FN11	
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	
Paper weight		Thin paper (56 g/m ² to 59 g/m ² (15 lbs. to 16 lbs.)) plain paper (60 g/m ² to 105 g/m ² (16 lbs. to 28 lbs.)) heavy paper (106 g/m ² to 209 g/m ² (28 lbs. bond to 110 lbs. index)) , envelopes (75 g/m ² to 90 g/m ² (20 lbs. to 24 lbs.))	
Modes		Non-staple, staple	
Allowed paper sizes for offset		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	
Offset distance		30 mm (1-3/16")	
Tray capacity*2	Upper tray	Non-stapling*3: 1550 sheets (A4, B5, A5R, 8-1/2" x 11", 5-1/2" x 8-1/2"R, 16K) 650 sheets (A3W, A3, B4, A4R, B5R, 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"R, 7-1/4" x 10-1/2"R, 8K, 16KR)	Stapling*4: 100 sets or 1550 sheets (A4, B5, 8-1/2" x 11", 16K) 50 sets or 650 sheets (A3, B4, A4R, 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"R, 8K)
	Lower tray	Non-stapling*3: 2450 sheets (A4, B5, 8-1/2" x 11", 16K) 1700 sheets (A5R, 5-1/2" x 8-1/2"R) 650 sheets (A3W, A3, B4, A4R, B5R, 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"R, 7-1/4" x 10-1/2", 8K, 16KR)	Stapling*4: 100 sets or 1550 sheets (A4, B5, 8-1/2" x 11", 16K) 50 sets or 650 sheets (A3, B4, A4R, 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"R, 8K)
Power supply		Supplied from the machine	
Dimensions		645 mm (W) x 645 mm (D) x 1100 mm (H) (25-25/64" (W) x 25-25/64" (D) x 43-19/64" (H)) (When tray is extended)	
Weight		Approx. 45 kg (99.3 lbs.)	
Stapler section			
Allowed paper sizes for stapling		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 (Three stapling positions: one staple at bottom left corner, one staple at top left corner, and two staples.)	
Maximum number of sheets for stapling*5		50 sheets (A4, B5, 8-1/2" x 11", 16K) 30 sheets (A3, B4, A4R, 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"R, 8K) (30 sheets when the sheets are the same width but different lengths.)	

*1 Paper pass unit and stand/1x500 sheet paper drawer or stand/2x500 sheet paper drawer are required to connect the finisher (large stacker) 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 100 sheets of non-standard size paper, envelopes, and transparency film (A4 (8-1/2" x 11")) can be loaded.

*4 The maximum number of sheets for stapling assumes a paper weight of 90 g/m² (24 lbs.) and includes two cover sheets of 106 g/m² to 209 g/m² (28 lbs. bond to 110 lbs. index).

Note:

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

Saddle stitch finisher specifications*1

Model	MX-FN10	
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	
Paper weight	Thin paper (56 g/m ² to 59 g/m ² (15 lbs. to 16 lbs.)) plain paper (60 g/m ² to 105 g/m ² (16 lbs. to 28 lbs.)) heavy paper (106 g/m ² to 209 g/m ² (28 lbs. bond to 110 lbs. index)), envelopes (75 g/m ² to 90 g/m ² (20 lbs. to 24 lbs.))	
Modes	Non-staple, staple, saddle stitch, half fold (Output is folded in half one sheet at a time.)	
Allowed paper sizes for offset	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	
Offset distance	30 mm (1-3/16")	
Tray capacity*2	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)
Power supply	Supplied from the machine	
Dimensions	656 mm (W) x 631 mm (D) x 988 mm (H) (25-53/64" (W) x 24-27/32" (D) x 38-57/64" (H)) (When tray is extended)	
Weight	Approx. 40 kg (88.2 lbs.)	
Stapler section		
Allowed paper sizes for stapling	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.)	
Maximum number of sheets for stapling*6	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		
Stapling method	Fold in half and staple in two places on centreline	
Folding position	Fold at centreline (can be adjusted with [Saddle Stitch Position Adjust] in the System Settings)	
Allowed paper sizes for saddle stitch stapling	A3, B4, A4R, 11" x 17", 8-1/2" x 14", 8-1/2" x 11"R, 8K, 16KR	
Allowed paper weights for saddle stitch stapling	56 g/m ² to 209 g/m ² (15 lbs. bond to 110 lbs. index)*7	
Number sheets for saddle stitch stapling / Number of sets	Maximum: 15 sheets (80 g/m ² (21 lbs.) x 14 sheets + 209 g/m ² (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/m² (24 lbs.) and includes two cover sheets of 106 g/m² to 209 g/m² (28 lbs. bond to 110 lbs. index).

*7 Allowed paper weights for saddle stitch stapling of plain paper include heavy paper (106 g/m² to 209 g/m² (28 lbs. bond to 110 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
Hole punching	2 holes	2 holes or 3 holes	4 holes	4 holes, broad width
Allowed paper sizes for punching	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"
Punchable paper weights	56 g/m ² to 128 g/m ² (15 lbs. to 32 lbs.)			
Power supply	Supplied from finisher			
Dimensions	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))			
Weight	Approx. 3.5 kg (7.7 lbs.)			

Punch module specifications (for finisher (large stacker))

Model	MX-PNX6A	MX-PNX6B	MX-PNX6C	MX-PNX6D
Hole punching	2 holes	2 holes or 3 holes	4 holes	4 holes, broad width
Allowed paper sizes for punching	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"
Punchable paper weights	56 g/m ² to 128 g/m ² (15 lbs. to 32 lbs.)			
Power supply	Supplied from finisher			
Dimensions	115 mm (W) x 600 mm (D) x 995 mm (H) 4-17/32" (W) x 23-5/8" (D) 39-11/64"			
Weight	Approx. 8 kg (17.7 lbs.)			

SPECIFICATIONS

Punch module specifications (for saddle stitch finisher)

Model	MX-PNX5A	MX-PNX5B	MX-PNX5C	MX-PNX5D
Hole punching	2 holes	2 holes or 3 holes	4 holes	4 holes, broad width
Allowed paper sizes for punching	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"
Punchable paper weights	56 g/m ² to 128 g/m ² (15 lbs. to 32 lbs.)			
Power supply	Supplied from saddle stitch finisher			
Dimensions	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))			
Weight	Approx. 3.5 kg (7.7 lbs.)			

Note:

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

Printer specifications*1

Type	Built-in	
Continuous printing speed	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.)	
Printing resolution	600 x 600 dpi	
Printer driver type	PCL5e, PCL6, PostScript 3 compatible*2, XPS*3	
Supported protocols	TCP/IP, IPX/SPX, NetBEUI, EtherTalk*2	
Supported client PC operating systems	See "VERIFYING SYSTEM REQUIREMENTS" in the Software Setup Guide.	
Fonts	PCL5e, PCL6	80 European fonts, 28 barcode fonts*4, 1 bitmap font
	PostScript 3 compatible*2	136 European fonts
Interface port	LAN connectivity: 10Base-T / 100Base-TX / 1000Base-T USB connectivity: Supports USB 2.0 (Hi speed)*5	
Memory	Standard system memory: 1 GB Expansion memory: 1 GB*6	
Print area	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 The printer expansion kit is required.

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

*3 When the XPS expansion kit is installed.

*4 Barcode font kit is required.

*5 Supported operating systems are Windows 2000 / XP / Vista / Server 2008.

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

Network scanner*¹ / Internet Fax*² specifications

Type	Built-in	
Scanning resolution (dpi)	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.	
Scanning speed	A4 / 8-1/2" x 11" One-sided: 50 pages/min. (200 x 200 dpi), Two-sided: 20 pages/min. (200 x 200 dpi)	
Interface port	LAN connectivity: 10Base-T / 100Base-TX / 1000Base-T	
Supported protocols	TCP/IP (IPv4)	
File formats	Scan	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)
Remarks	Number of one-touch keys for storing destinations* ³	Maximum number of keys: 1000 (when the hard drive is installed) 500 (when the hard drive is not installed)
	Number of destinations that can be stored in a group (1 key)* ³	Maximum number of destinations in one group (1 key): 500 (when the hard drive is installed) 300 (when the hard drive is not installed)
	Scan destinations	Scan to E-mail / Scan to FTP / Scan to Desktop / Scan to Network Folder

*¹ The network scanner expansion kit is required.

*² The internet fax expansion kit and printer expansion kit with hard drive are required.

*³ Total number of all destinations (Scan to E-mail, Scan to FTP, Scan to Desktop, Scan to Network folder, Internet Fax, Fax, and Group)

Facsimile specifications

Model	MX-FXX2	
Applicable telephone line	Public switched telephone network, PBX	
Scanning resolution (supports ITU-T standards)	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)	
Transmission speed	33.6 kbps down to 2.4 kbps Automatic fallback	
Compression method	MH / MR / MMR / JBIG	
Transmission modes	Super G3, G3 (the machine can only send faxes to and receive faxes from machines that support G3 or Super G3)	
Input document size	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.)	
Paper sizes	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)	
Transmission time *1	Approx. 2 seconds (Super G3 mode/33.6 kbps, JBIG) Approx. 6 seconds (G3 ECM mode/14.4 kbps)	
Power supply	Supplied from the machine	
Dimensions	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))	
Weight	Approx. 1.0 kg (2.2 lbs.)	
Remarks	Extension telephone connection	Possible (1 telephone)
	Number of one-touch keys for storing destinations*2	Maximum number of keys: 1000 (when the hard drive is installed) 500 (when the hard drive is not installed)
	Number of destinations that can be stored in a group (1 key)*2	Maximum number of destinations in one group (1 key): 500 (when the hard drive is installed) 300 (when the hard drive is not installed)
	Timer transmission	Yes
	Program function	48 programs (when the hard drive is installed) 8 programs (when the hard drive is not installed)
	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)

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.



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.

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 or www.sens.ch.

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.)

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.

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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.lproj]

Delete the PPD file of the machine from this folder.

3 Delete the installation information.

The installation information file has been copied to the following folder on the startup disk.

[Library] - [Receipts]

Delete the [MX-PKX.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 ().

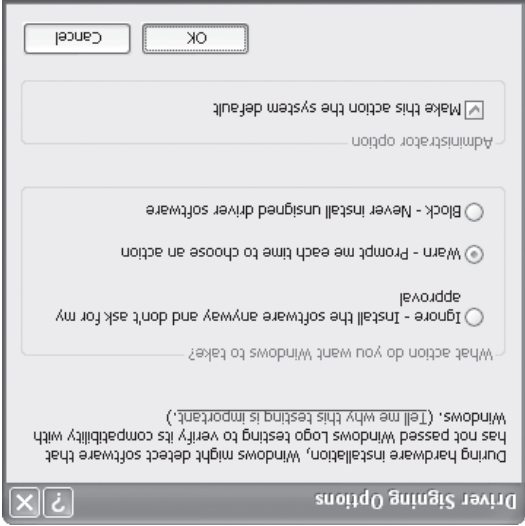
4 Select [Remove] in the install menu and click the [Remove] button.

Problem	The printer driver is not installed correctly by plug and play (USB connection in Windows).	
Point to check	Did you connect the machine to your computer before installing the printer driver?	
Solution	In Windows 2000/XP/Server 2003/Vista/Server 2008, 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. Other devices SHARPMX-xxxx	

► The printer driver cannot be installed (Windows 2000/XP/Server 2003)

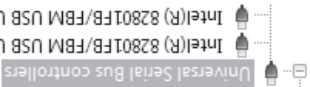
If the printer driver cannot be installed on Windows 2000/XP/Server 2003, follow the steps below to check your computer settings.

- 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).

Problem	Point to check	Solution
The machine is not detected (when connected to a network).	Is the machine power on?	If the machine is powered off, it will not be detected. Switch on the main power switch and the [POWER] key (Ⓢ) in that order. (In Windows, search again after powering on the machine.)
	Is your computer connected correctly to the machine?	Make sure that the cable is connected securely to the LAN connectors on your computer and the machine. Check the connections at the hub as well.  CONNECTING TO A NETWORK (page 7)
The plug and play screen does not appear (USB connection in Windows).	Is the machine power on?	When a USB cable is connected, make sure the power of the machine is "ON" and then connect a USB cable to the machine. When the machine is not powered on, switch on the main power switch and the [POWER] key (Ⓢ) in that order.
	Can your computer use a USB connection?	Check your computer whether or not a USB interface can be used on the Device Manager in your computer. (For information on "Device Manager", see Help in Windows.) If USB can be used, your controller chipset type and root hub will appear in "Universal Serial Bus controllers" in "Device Manager". (The items that appear will vary depending on your computer.) 
		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.

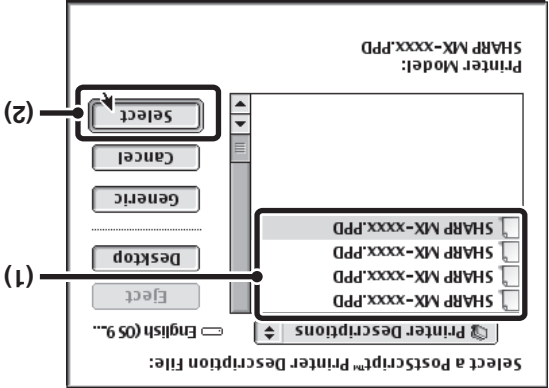
WHEN INSTALLATION WAS NOT SUCCESSFUL

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

• 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

Problem	Point to check	Solution
The software cannot be installed.	Is there sufficient free space on your hard drive?	Delete any unneeded files and applications to increase free space on your hard drive.
The machine is not detected (when connected to a network).	Are you using an operating system that is not supported?	Make sure that the software can run on your operating system. For detailed information on installation requirements for each software program in Windows, click the [Display Readme] button in the installer. In a Macintosh environment, this can be checked in "ReadMe First" in the [US-English] folder ([English] folder in areas other than the U.S.) in the [Readme] folder of the "Software CD-ROM".
	Is the IP address of the machine configured?	If the IP address of the machine is not configured, the machine will not be detected. Make sure that the IP address is configured correctly in "Network Settings" in the machine's system settings (administrator). → System Settings (Administrator) > "Network Settings"
	Is your computer connected to the same network as the machine?	Windows: If the machine and your computer are not connected to the same local area network, the machine will not be detected. If the two are connected to different sub-networks, click the [Specify condition] button and enter the machine's name (host name) or IP address to search for the machine. Macintosh: If multiple AppleTalk zones exist, select the zone to which the machine is connected from the menu.

10 Select the PPD file.

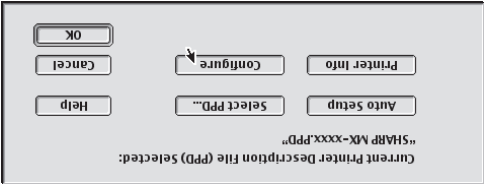


- (1) Click the PPD file for your model.
- (2) Click the [Select] button.

- 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.

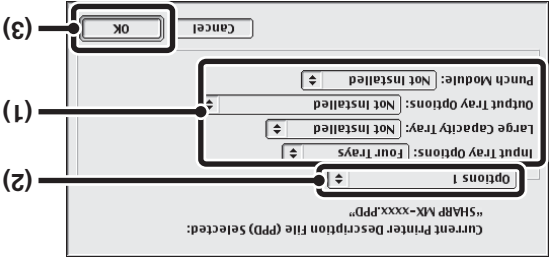
- 11 Make sure that the machine is selected in the "Select a PostScript Printer" list and then click the [Setup] button.

12 Click the [Configure] button.



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

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. (However, note that "Input Tray Options" must be set to the number of trays on the machine.) To access "All Custom Setting List", press the [System Settings] key and then touch the [List Print (User)] key.

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 PS3 expansion kit. Copy the fonts that you wish to install to the [System Folder] of the startup disk.

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

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

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

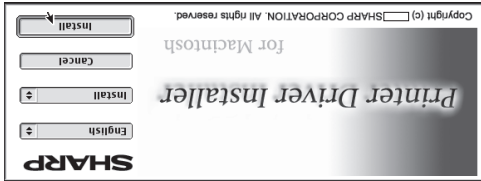
Insert the "Software CD-ROM" that shows "Disc 2" on the front of the CD-ROM.

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

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

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

5 Click the [Install] button.



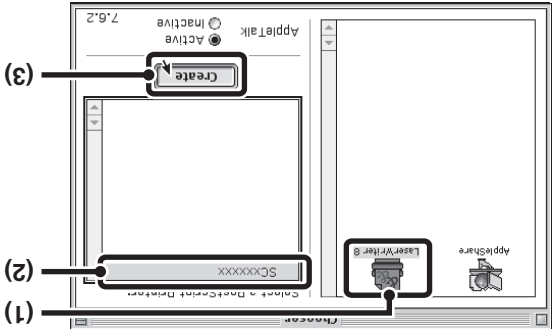
6 The License Agreement window will appear. Make sure that you understand the contents of the license agreement and then click the [Yes] button.

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

Installation of the PPD file begins. After the installation, a message prompting you to restart your computer will appear. Click the [OK] button and restart your computer. This completes the installation of the software. Next, configure the printer driver settings.

8 Select [Chooser] from the Apple Menu.

9 Create a printer.



(1) Click the [LaserWriter 8] icon. If multiple AppleTalk zones are displayed, select the zone that includes the printer.

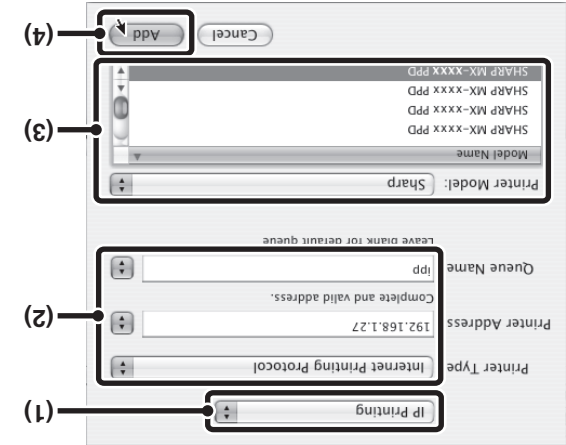
(2) Click the machine's model name.

The machine's model name usually appears as [SCxxxxxx]. ("xxxxxx" is a sequence of characters that varies depending on your model.) (3) Click the [Create] button.

► **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).

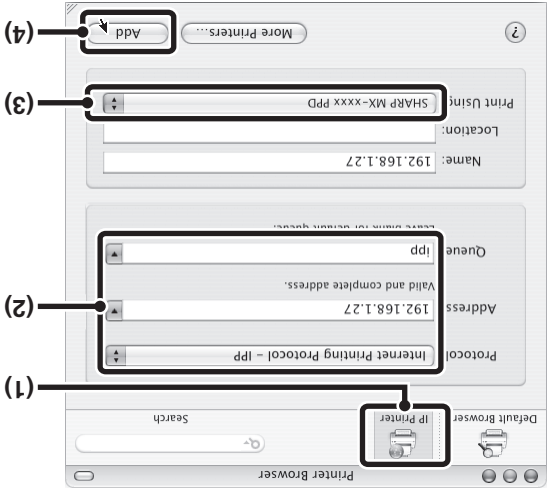
v10.2.8, v10.3.9



- (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)

v10.4.11, v10.5 - 10.5.5



- (1) Click the [IP Printer] icon.

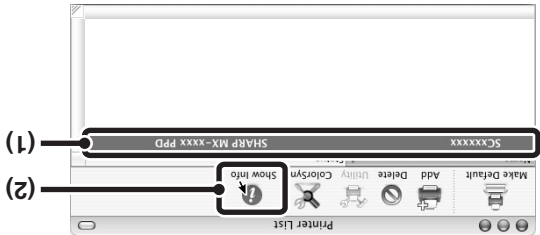
If you are using Mac OS X v10.5 to 10.5.5, click the [IP] icon.
- (2) Select [Internet Printing Protocol] in "Protocol". Enter the address of the machine (IP address or domain name) and the queue name.

Enter "ipp" in "Queue".
- (3) Select [Sharp] in "Print Using" and click the PPD file of your model.
- (4) Click the [Add] button.

If you are using Mac OS X v10.5 to 10.5.5, 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)

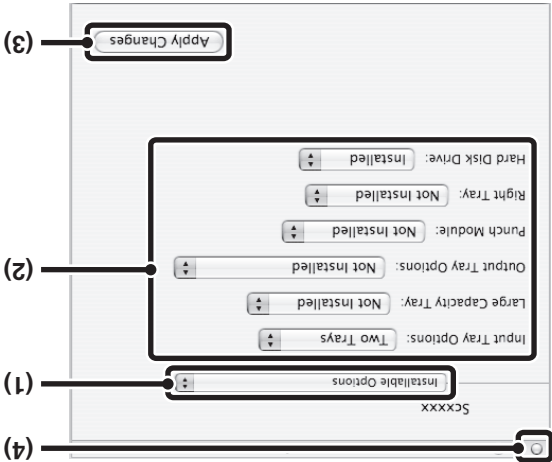
15 Display printer information.



- (1) Click the machine's name.
- If you are using Mac OS X v10.5 to 10.5.5, 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 10.5.5, 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 10.5.5, click the [OK] button.
- (4) Click to close the window.

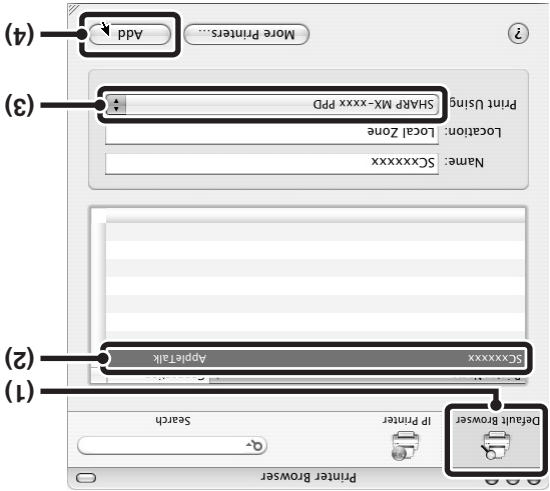


You can check the options that are installed on the machine by printing out the "All Custom Setting List" in the system settings. (However, note that "Input Tray Options" must be set to the number of trays on the machine.) To access "All Custom Setting List", press the [System Settings] key and then touch the [List Print (User)] key.

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 - 10.5.5 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 - 10.5.5



- (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 10.5.5, 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.

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

A message will appear asking you if you agree to the terms of the license. Click the [Agree] button.

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

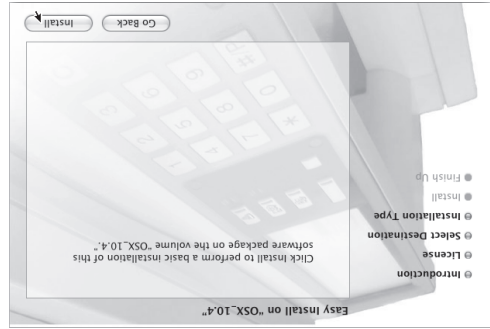
8 Select the hard drive where the PPD file will be installed and click the [Continue] button.

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



9 Click the [Install] button.

Installation begins.



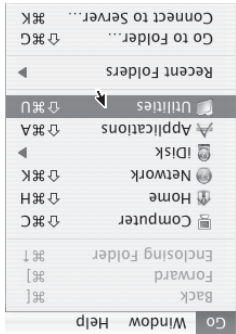
If the "Authenticate" window appears, enter the password and click the [OK] button.

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

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

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

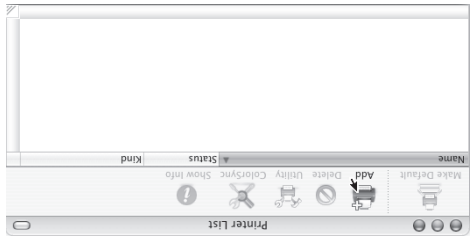
- If you are using Mac OS X v10.5, click [System Preferences] in the Apple menu () and select [Print & Fax] (🖨️). When the screen for adding a printer appears, click the ☐ button and go to step 14.
- If you are using Mac OS X v10.2.8, select [Applications] from the [Go] menu.



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

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

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



13 Click [Add].

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 - 10.5.5

📖 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 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.

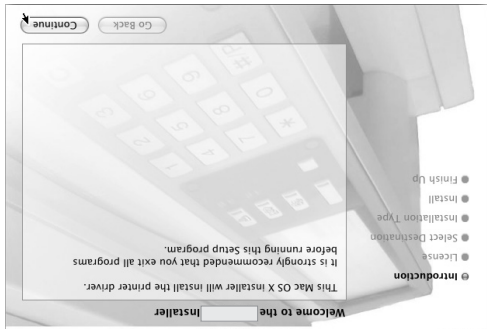
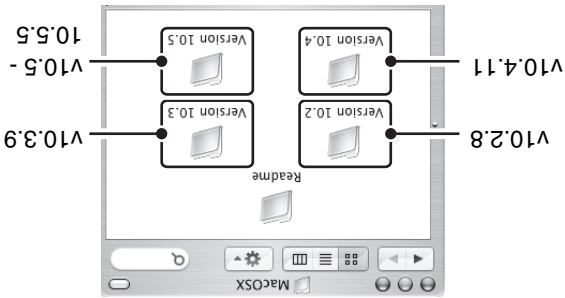
Insert the "Software CD-ROM" that shows "Disc 2" on the front of the CD-ROM.

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.



6 Click the [Continue] button.

📌 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-PKX] icon (📀).

7

Click the [Next] button in the screen of step 5.

8

Click the [Finish] button.

9

Click the [Close] button in the screen of step 2.

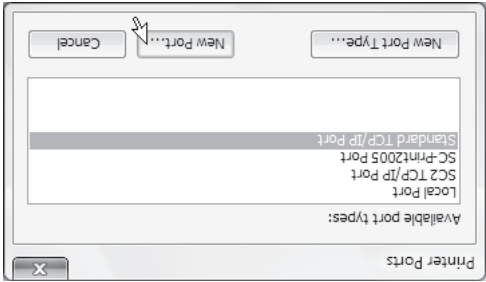
When using a port created with "Standard TCP/IP Port"
When using a port created using "Standard TCP/IP Port" in Windows 2000/XP/Server 2003/Vista/Server 2008, in the screen that appears after you click the [Configure Port] button in the screen of step 3, make sure the [SNMP Status Enabled] checkbox is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

► Changing to a Standard TCP/IP Port

If the machine is being used on an IPv6 network, change the port to a port created using the operating system's "Standard TCP/IP Port".

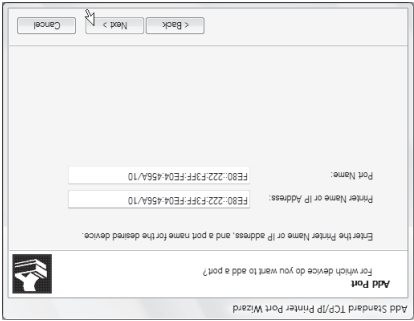
1 Follow steps 1 to 3 of "CHANGING THE PORT" (page 27).

2 Select [Standard TCP/IP Port] and then click the [New Port] button.

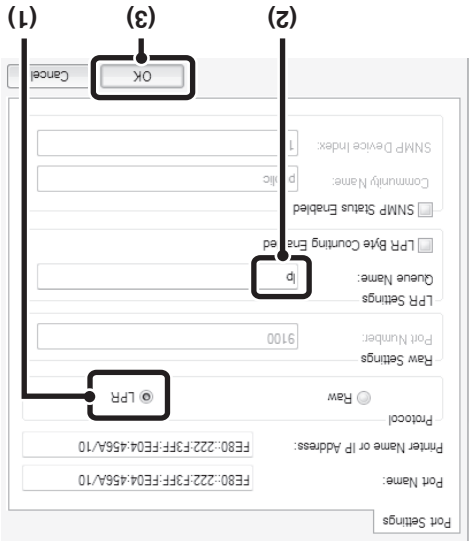


3 Click the [Next] button.

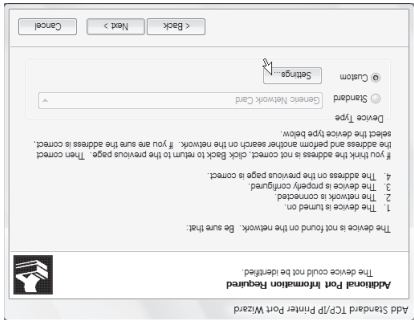
4 Enter the machine's IPv6 address in [Printer Name or IP Address] and click the [Next] button.



- (1) Select [LPR].
- (2) Enter [lp].
- (3) Click the [OK] button.



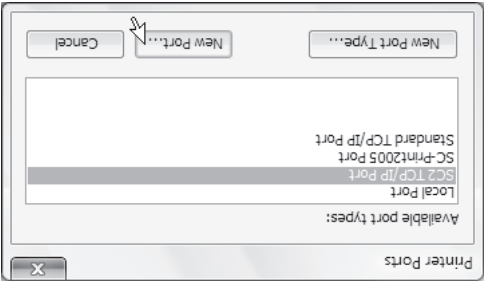
6 Configure the port settings.



5 Select [Custom] and click the [Settings] button.

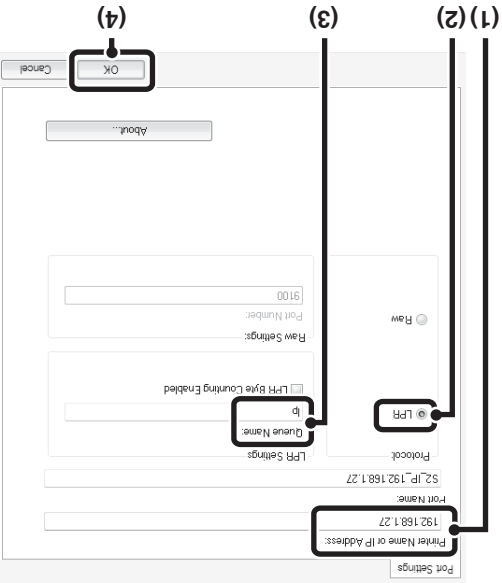
4 Select [SC2 TCP/IP Port] and then click the [New Port] button.

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 "IP" 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 [ip] 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.

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. If the machine is being used on an IPv6 network, follow the steps 1 to 3 below and see "Changing to a Standard TCP/IP Port" (page 29) for the remaining steps of the procedure to change the port.

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

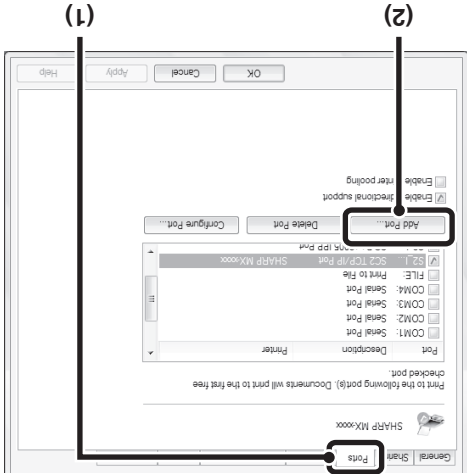
- In Windows XP/Server 2003, click the [start] button and then click [Printers and Faxes].
 - In Windows 98/Me/NT 4.0/2000, click the [Start] button, select [Settings], and then click [Printers].
- If [Printers and Faxes] does not appear in the [start] menu in Windows XP, click the [start] button, click [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.

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

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

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

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

7 Follow the on-screen instructions.



6 Click the [PS Display Font] button.

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

INSTALLING THE PRINTER STATUS MONITOR

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

The Printer Status Monitor cannot be used in the following situations:

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

Supported operating systems: Windows 98/Me/NT 4.0*/2000*/XP*/Server 2003*/Vista*/Server 2008*

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

When the software selection screen appears in step 6 of "OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)" (page 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].

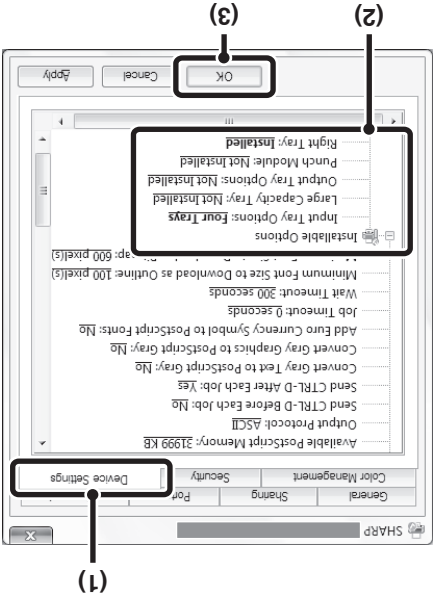
- In Windows XP/Server 2003, click the [start] button and then click [Printers and Faxes].
 - In Windows 98/Me/NT 4.0/2000, click the [Start] button, select [Settings], and then click [Printers].
- If [Printers and Faxes] does not appear in the [start] menu in Windows XP, click the [start] button, click [Control Panel], click [Printers and Other Hardware], and then click [Printers and Faxes].

2 Open the printer properties window.

(1) Right-click the printer driver icon of the machine.

(2) Select [Properties].

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

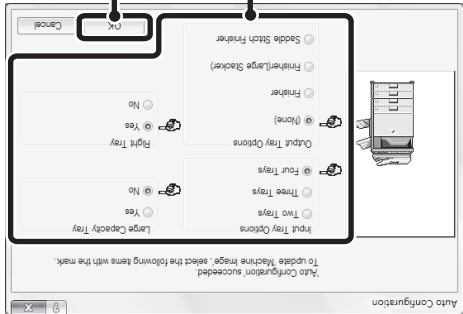


- (1) Click the [Device Settings] tab.
- In Windows 98/Me, click the [Device Options] tab.
- (2) Configure each item based on the machine configuration.
- The items and the procedures for configuring the items vary depending on the operating system version.
- (3) Click the [OK] button.

 You can check the options that are installed on the machine by printing out the "All Custom Setting List" in the system settings. (However, note that "Input Tray Options" must be set to the number of trays on the machine.) To access "All Custom Setting List", press the [System Settings] key and then touch the [List Print (User)] key.

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

- You can check the options that are installed and the tray settings by printing out the "All Custom Setting List" in the system settings of the machine. (However, note that "Input Tray Options" must be set to the number of trays on the machine. To access "All Custom Setting List", press the [System Settings] key and then touch the [List Print (User)] key.
- 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 Type Registration" settings in "Paper Tray Settings" in the system settings of the machine are reflected in the settings shown here. If a user type name (1 to 7) was changed, enter the changed name.
- 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).

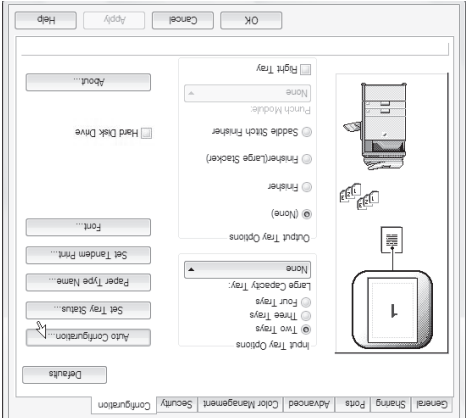
► When the PCL printer driver or PS printer driver is installed

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].



4 Click the [Auto Configuration] button. The settings are automatically configured based on the detected machine status.

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

If the machine is being used on an IPv6 network, you must configure the options manually as explained in "If automatic configuration fails" (page 23).

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 authorized service representative if you want software for Windows 98/Me/NT 4.0.
- If you are using Windows 2000/XP/Server 2003/Vista/Server 2008, you can install the PPD driver from the installer.
- Be sure to view the Readme file (Readme.txt) before installing the PPD driver. The Readme file will be in the [English] folder inside the folder that contains the extracted files after you get the software.

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

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

3 Double-click the [Add printer] icon.

The "Add Printer Wizard" will appear.

4 Follow the on-screen instructions.

When you are asked to specify the path of the PPD file, enter the path as follows.

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

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

► 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.

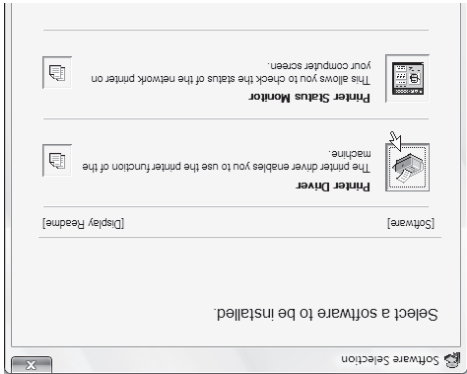


- Ask your network administrator for the server name and printer name of the machine on the network.
- For the procedure for configuring settings on the print server, see the operation manual or the Help file of the operating system. The "print server" explained here is a computer that is connected directly 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.



This completes 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.

5 Perform steps 5 through 12 on page 13 to continue the installation.

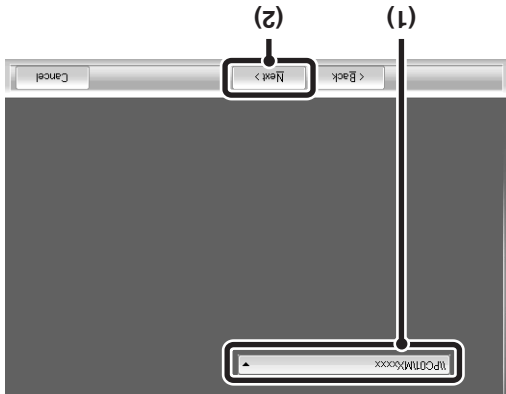


If the shared printer does not appear in the list, check the settings on the print server.

(2) Click the [Next] button.

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.

(1) Select the printer name (configured as a shared printer on a print server) from the list.



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

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 26).

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.)

12 CHANGING THE PORT (page 27)

- 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 26).

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

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

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

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

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

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

9 Follow the on-screen instructions.

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

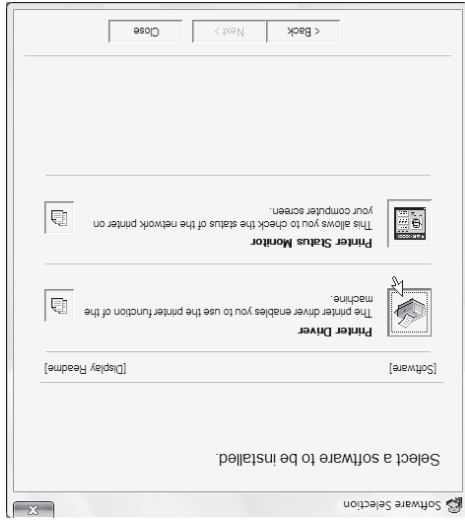
- If you are using Windows Vista/Server 2008
If a security warning window appears, be sure to click [Install this driver software anyway].
- If you are using Windows 2000/XP/Server 2003
If a warning message regarding the Windows logo test or digital signature appears, be sure to click the [Continue Anyway]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

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

When installing the PCL5e 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.

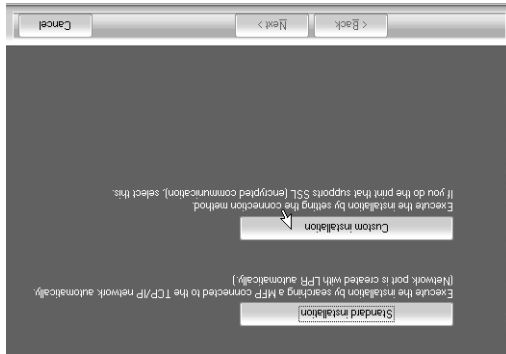
1 Click the [Printer Driver] button.

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 checkmark 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/Server 2008.

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.

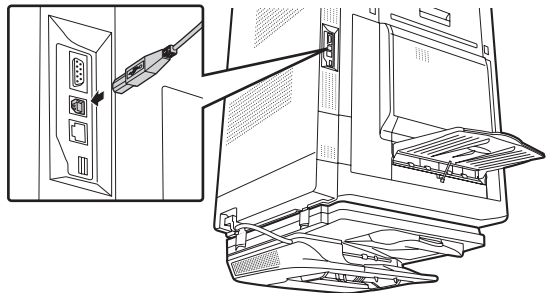
After the installation, a message prompting you to restart your computer may appear. If this message appears, click the [Yes] button to restart your computer.

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/Server 2008

If a security warning window appears, be sure to click [Install this driver software anyway].

• If you are using Windows 2000/XP/Server 2003

If a warning message regarding the Windows logo test or digital signature appears, be sure to click the [Continue Anyway] or [Yes] button.

This completes the installation.

• After installing the printer driver, see "CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE" (page 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.

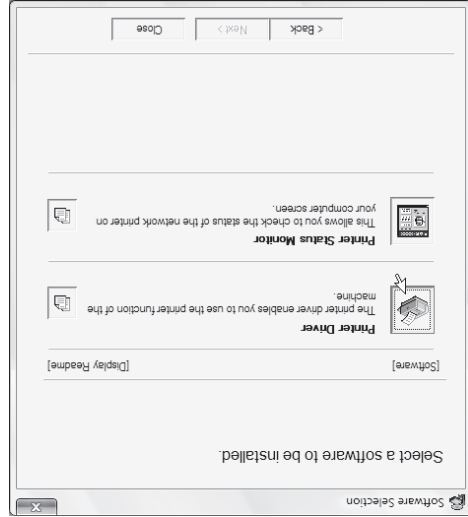
WHEN THE MACHINE WILL BE CONNECTED WITH A USB CABLE

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

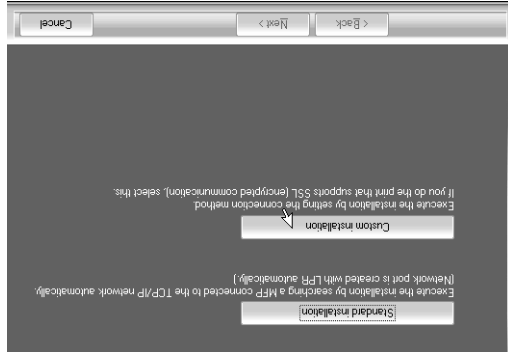
- **Make sure that a USB cable is not connected to your computer and the machine.** If a cable is connected, a Plug and Play window will appear. If this happens, click the [Cancel] button to close the window and disconnect the cable.
- The PS3 expansion kit is required to use the PS printer driver or 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.



2 Click the [Custom installation] button.



5 Follow the on-screen instructions.

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

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

4 When you are asked if you wish to install the display fonts, select an answer and click the [Next] 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*/ip
*1 Normally "631" should be entered for the port number.

If the IPF port number has been changed on the

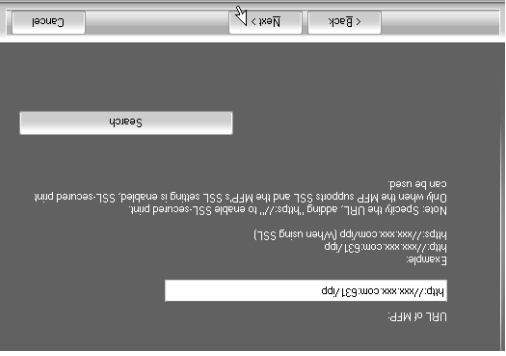
machine, enter the new port number.

When SSL is used:

https://<the machine's domain name or IP address>:<port number*>/ip
*2 Normally the port number and the colon ":" immediately preceding the port number can be

omitted. If the IPF port number for SSL has been changed on the machine, enter the new port number.

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 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 26).

► Printing using the IPP function and the SSL function

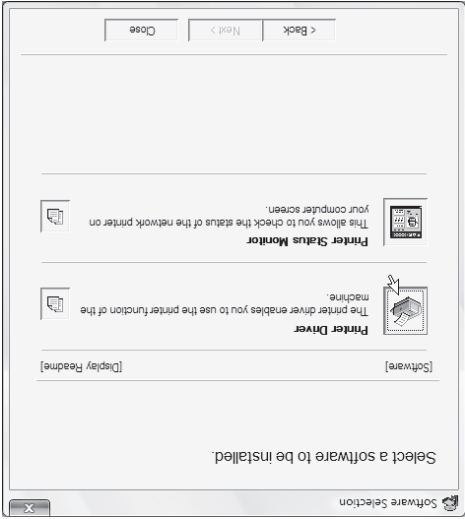
The IPP function can be used to print to the machine over a network using HTTP protocol. When the machine is in a remote location, this function can be used in place of the fax function to print a higher quality image than a fax. The IPP function can also be used in combination with the SSL (encrypted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

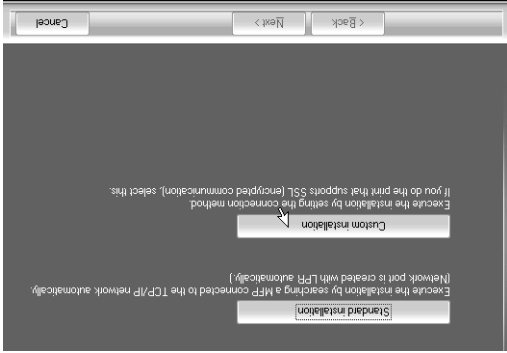
1 Click the [Printer Driver] button.

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



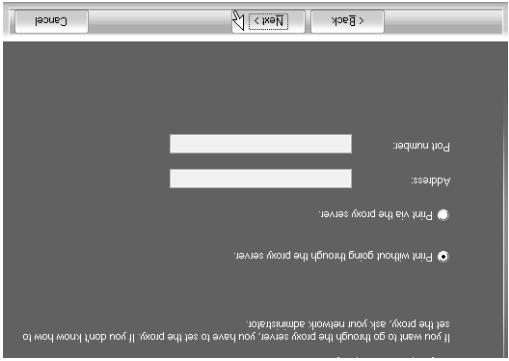
* The above screen appears when using the "Disc 1" CD-ROM.

2 Click the [Custom installation] button.



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].



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



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/Server 2008.

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

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

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

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

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

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

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

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

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

- 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 26).
- If the machine is being used on an IPv6 network, enter any numbers or characters.

► 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.
If the machine is being used on an IPv6 network, after you have installed the software as explained below, change the port as explained in "Changing to a Standard TCP/IP Port" (page 29).

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

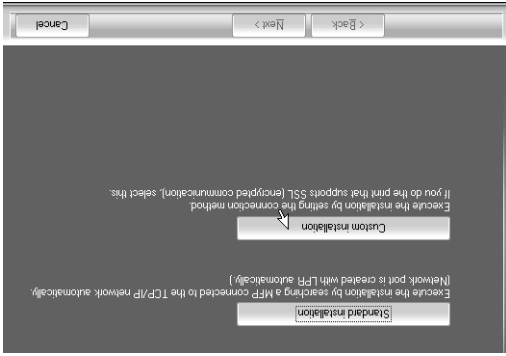
1 Click the [Printer Driver] button.

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.



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)



If the machine is being used on an IPv6 network, enter any numbers or characters.



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].

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

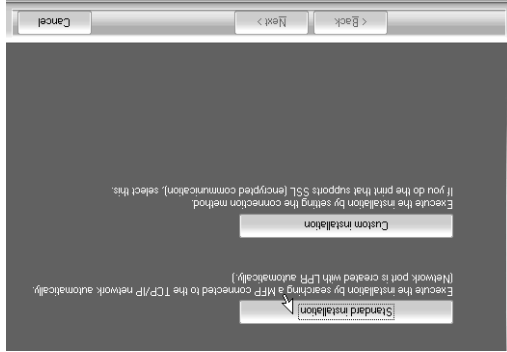
8 When the installation completed screen appears, click the [OK] button.

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

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

- **This completes the installation.**
After installation, see "CONFIGURING THE PRINTER DRIVER FOR THE OPTIONS INSTALLED ON THE MACHINE" (page 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 26).
- 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.

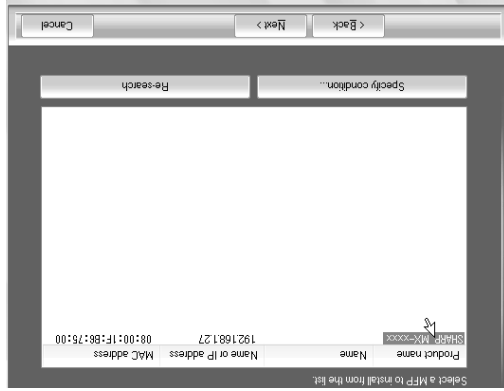
2 Click the [Standard installation] button.



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
 - IP: 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 PS3 expansion kit is required to use the PS printer driver or the PFD driver.
- The [PPD] checkbox only appears if you are using Windows 2000/XP/Server 2003/Vista/Server 2008.

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*/Server 2008*

* 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.
- **If the machine is connected to an IPv6-only network**
 - The software cannot be installed by detecting the machine's address from the installer. After installing the software as explained in "Installation by specifying the machine's address" (page 12), change the port as explained in "Changing to a Standard TCP/IP Port" (page 29).
- The installation procedure in this section is for both the printer driver and the PC-Fax driver, although the explanations are centered 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.

OPENING THE SOFTWARE SELECTION SCREEN (FOR ALL SOFTWARE)

2 SETUP IN A WINDOWS ENVIRONMENT

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

For users of Windows 98/Me/NT 4.0

The CD-ROM does not include software for Windows 98/Me/NT 4.0.

Contact your dealer or nearest authorized service representative if you want software for Windows 98/Me/NT 4.0.

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

2 Click the [Start] button (), click [Computer], and then double-click the [CD-ROM] icon ().

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

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

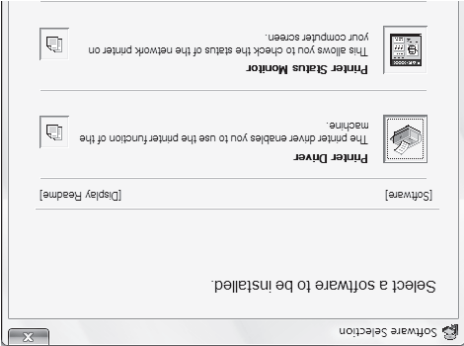
In Windows Vista/Server 2008, if a message screen appears asking you for confirmation, click [Allow].

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

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

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

6 The software selection screen appears. Before installing the software, be sure to click the [Display Readme] button and view the detailed information on the software.



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

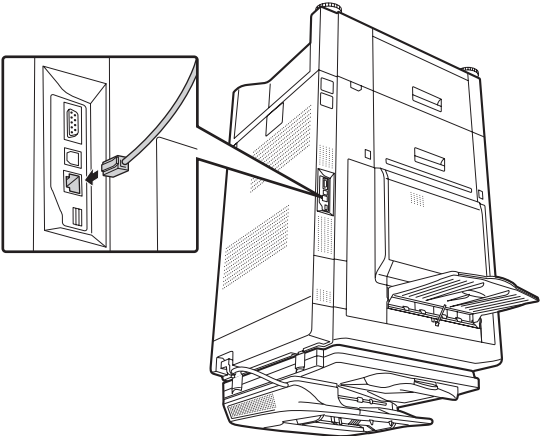
For the steps that follow, see the appropriate page below for the software that you are installing.

- INSTALLING THE PRINTER DRIVER / PC-FAX DRIVER**
- WHEN THE MACHINE IS CONNECTED TO A NETWORK*
 - Standard installation: page 9
 - Installation by specifying the machine's address: page 12
 - Printing using the IP 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
- * If the machine is being used on an IPv6 network, see "Installation by specifying the machine's address" (page 12).

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.
- To use the machine on an IPv6 network, the IPv6 setting must be enabled in "Network Settings" in the system settings (administrator).

► Checking the IP address of the machine

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

CONNECTING THE MACHINE WITH A USB CABLE (Windows)

The machine can be connected to a computer using a USB cable if the computer is a Windows computer. (The USB interface on the machine cannot be used in a Macintosh environment.) The machine and computer should be connected while the printer driver is being installed. If a USB cable is connected before the printer driver is installed, the printer driver will not be installed correctly. For the procedure for connecting a USB cable, see "WHEN THE MACHINE WILL BE CONNECTED WITH A USB CABLE" (page 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, PCL5e printer driver	Printer expansion kit	Network/ USB
	PS printer driver, PPD driver	Printer expansion kit/PS3 expansion kit	
	PC-Fax driver*2	Printer expansion kit/Facsimile expansion kit*3	
	Printer Status Monitor	Printer expansion kit	Network only*4 (cannot be used with a USB connection)
	Printer Administration Utility	Printer expansion kit	
	Macintosh PPD file	Printer expansion kit/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.

*4 The Printer Status Monitor and Printer Administration Utility cannot be used on an IPv6-only network.



- A scanner driver is included on the software CD-ROM; however, it is not used on this machine.
- This manual assumes that the printer expansion kit has been installed. In the case that requires the PS3 expansion kit also requires installation of the printer 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	Computer type	Display	Other hardware requirements
Windows	Windows 98, Windows Me, Windows NT Workstation 4.0 (Service Pack 5 or later)*1, Windows 2000 Professional, Windows XP Professional, Windows XP Home Edition, Windows 2000 Server, Windows Server 2003, Windows Vista, Windows Server 2008	IBM PC/AT compatible computer Equipped with a 10Base-T/100Base-T LAN board or equipped standard with a USB 2.0*2/1.1*3 port.	1024 x 768 dots resolution and 16-bit color 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 10.5.5	An environment in which any of the operating systems listed above can fully operate (including Macintosh computers with an Intel processor).		
Macintosh*4				

*1 USB is not supported.

*2 The machine's USB 2.0 port will transfer data at the speed specified by the USB 2.0 (Hi-Speed) standard only if the Microsoft USB 2.0 driver is preinstalled in the computer, or if the USB 2.0 driver for Windows 2000 Professional/XP/Vista that Microsoft provides through "Windows Update" is installed.

*3 Compatible with models preinstalled with Windows 98, Windows Me, Windows 2000 Professional, Windows XP Professional, Windows XP Home Edition, Windows Server 2003, Windows Vista, or Windows Server 2008, and which are equipped standard with a USB interface.

*4 Cannot be used when the machine is connected with a USB cable. The PC-Fax 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 authorized service representative if you want software for Windows 98/Me/NT 4.0.
- **For users of Windows NT 4.0/2000/XP/Server 2003/Vista/Server 2008**
To perform the procedures described in this manual such as installing the software and configuring settings after installation, administrator authority is required.

OTHER CD-ROMS

► "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 26)

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

To use this expansion kit, the printer expansion kit with hard disk drive is required. 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 that accompanies the network scanner expansion kit (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.

• Printer Administration Utility

This allows the administrator to monitor the machine and configure machine settings from a computer. To install 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 PC-Fax driver cannot be used in a Macintosh environment.

BEFORE INSTALLING THE SOFTWARE

1

This chapter describes the software programs that allow you to use the printer function 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 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 that accompanies the printer expansion kit

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 authorized 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 PCL5e printer driver

The machine supports the Hewlett-Packard PCL6 and PCL5e 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 PCL5e 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)

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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 when the printer expansion kit is installed.

This manual also explains how to install the printer drivers and software that are used when the other expansion kits are installed.

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 authorized 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 authorized 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

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- 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 machine. 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.

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For users of Windows 98/Me/NT 4.0

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Contact your dealer or nearest authorized service representative if you want software for Windows 98/Me/NT 4.0.

Software Setup Guide

BEFORE INSTALLING
THE SOFTWARE

SETUP IN A WINDOWS
ENVIRONMENT

SETUP IN A MACINTOSH
ENVIRONMENT

TROUBLESHOOTING

Read this manual when the printer expansion kit is installed.
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.

