

This guide explains how to install the machine, and indicates important points to note for installation and usage. Read and understand this guide to ensure that you install the machine correctly. The Operation Guide for the machine is on the accompanying CD-ROM. The procedure for viewing the guide is explained in "4. HOW TO USE THE OPERATION GUIDE". After installation, read the Operation Guide to make full use of all the machine has to offer.

1. TONER CARTRIDGE REPLACEMENT

When toner is low, the error indicator will light up and "TONER CARTRIDGE IS NEAR EMPTY." will appear in the display to alert you to purchase a new toner cartridge. on purchasing a new toner cartridge. If copying is continued while the indicator is lit, copies will gradually become lighter until the toner runs out. When the toner runs out, the machine will stop operating, the error indicator will blink, and "REPLACE THE TONER CARTRIDGE" will appear in the display. Follow the procedure below to replace the toner cartridge.

Note

- After the machine stops, it may be possible to make a few more copies by taking the toner cartridge out of the machine, shaking it horizontally, then reinstalling it. If copying is not possible after this operation, replace the toner cartridge.
- During a long copy run of a dark original, "TONER REPLENISHMENT IN PROGRESS" appears in the display, and the machine may stop even though toner is left. The machine will feed toner up to 2 minutes and then the ready indicator will light up. Press the [START] key () to resume copying.

1

Open the bypass tray, and then open the side cover while pressing the side cover open button.

2

Push gently on both sides of the front cover to open the cover.

3

Gently pull the toner cartridge out while pressing the lock release lever.

Toner cartridge lock release lever

Note

- After removing the toner cartridge, do not shake it or tap on it. Doing so may cause toner to leak from the cartridge. Put the old cartridge immediately in the bag contained in the box of the new cartridge.
- Dispose of the old toner cartridge in accordance with local regulations.

4

Remove the toner cartridge from the bag. Grasp the cartridge on both sides and shake it horizontally four or five times. After shaking the cartridge, remove the toner seal.

5

Gently insert the toner cartridge along the guides until it locks in place while pushing the lock release lever. Remove the tape from the shutter. Pull the shutter out of the toner cartridge as shown in the illustration. Discard the shutter.

6

Close the front cover and then the side cover by pressing the round projections near the side cover open button. The error indicator will go out and the ready indicator will light up.

Note

Grasp the toner cartridge as shown in the illustration. Do not hold the cartridge by the shutter. Be sure to only shake the cartridge before the toner seal is removed.

Caution

When closing the covers, be sure to close the front cover securely and then close the side cover. If the covers are closed in the wrong order, the covers may be damaged.

Note

Even after a new toner cartridge is installed, the start () indicator may not light up, indicating copying cannot be restarted (toner is not sufficiently fed). In this case, open and close the side cover. The copier will feed toner again approximately 2 minutes and then copying can be restarted.

2. LOADING PAPER

1

Raise the handle of the paper tray and pull the paper tray out until it stops.

2

Rotate the pressure plate lock in the direction of the arrow to remove it while pressing down the pressure plate of the paper tray.

3

Store the pressure plate lock which has been removed in step 2. To store the pressure plate lock, rotate the lock to fix it on the relevant location.

4

Squeeze the lever of paper guide (A) and slide the guide to match with the width of the paper. Move paper guide (B) to the appropriate slot as marked on the tray.

5

Fan the paper and insert it into the tray. Make sure the edges go under the corner hooks.

6

Gently push the paper tray back into the unit.

Note

- Be sure that paper is free of rips, dust, wrinkles, and curled or bent edges.
- Make sure all the paper in the stack is the same size and type.
- When loading paper, ensure there is no space between the paper and the guide, and check if the guide is not set too narrow causing the paper to bend. Loading paper in these ways will result in document skew or a paper jam.

3. POWER ON AND OFF

Warning

If you use the unit in a country other than the country where the unit was purchased, you will need to make sure that your local power supply is compatible with your model. If you plug the unit into an incompatible power supply, irreparable damage to the unit will result.

1

Turn the power switch on the left side of the unit to the "ON" position.

ON

The ready indicator will light up and other indicators which show the initial settings of the display will also light up to indicate the ready condition. For the initial settings, see "Initial settings" on the Operation Guide.

2

Ensure that the power switch of the unit is in the OFF position.

OFF

If the power switch is turned off while the machine is in operation, a misfeed may occur and the job that was in progress will be canceled. In cases where the machine will not be used for a long time, turn off the power switch and remove the power cord from the outlet.

About the scan head

The scan head lamp remains on constantly when the unit is in the ready condition (when the start () indicator is illuminated). The unit adjusts the scan head lamp periodically to maintain copying quality. At this time, the scan head moves automatically. This is normal and does not indicate unit trouble.

4. HOW TO USE THE OPERATION GUIDE

Detailed explanations of the functions that can be used on the machine are provided in the Operation Guide in PDF format.

1

Insert the supplied CD-ROM into your computer's CD-ROM drive.

Operation Guide CD-ROM

2

Display the contents of the CD-ROM, and open the Operation Guide file.

Manual English Operation Guide file (PDF)

* To view the Operation Guide in PDF format, Adobe® Reader® or Acrobat® Reader® of Adobe Systems Incorporated is required. Adobe® Reader® can be downloaded from the following URL:
<http://www.adobe.com/>



SPECIFICATIONS

Model	MX-B201D
Type	Digital Multifunctional System, Desktop
Photoconductive type	OPC drum
Document glass type	Fixed
Copy/printing system	Dry, electrostatic transfer
Originals	Sheets, bound documents
Originals size	Max. 8-1/2" x 14" (A4)
Copy size	Max. 8-1/2" x 14" (A4) Min. 8-1/2" x 5-1/2" (A6) Image loss: Max. 11/64" (4mm) (leading and trailing edges) Max. 3/16" (4.5mm) (along other edges in total) Max. 1/4" (6mm) (trailing edge of the second copy of two-sided copying.)
Copying speed* ¹	20 copies/min. (8-1/2" x 11" (A4), one-sided at 100% copy ratio)
Continuous copy	Max. 99 copies; subtractive counter
First-copy time* ²	8.0 seconds (When user program 24 is set to OFF) 10.7 seconds (When user program 24 is set to ON) (paper: A4, exposure mode: AUTO, copy ratio: 100%)
Warm-up time* ³	-
Copy ratio	Document glass: Variable: 25% to 400% in 1% increments (total 376 steps) Fixed preset: Inch system: 25%, 50%, 64%, 78%, 100%, 129%, 200%, 400% (AB system: 25%, 50%, 70%, 86%, 100%, 141%, 200%, 400%) RSPF: Variable: 50% to 200% in 1% increments (total 151 steps) Fixed preset: Inch system: 50%, 64%, 78%, 100%, 129%, 200% (AB system: 50%, 70%, 86%, 100%, 141%, 200%)
Exposure system	Document glass: Moving optical source, slit exposure (stationary platen) with automatic exposure function RSPF: Moving original
Paper feed	One automatic feeding paper tray (250 sheets each) + bypass tray (50 sheets)
Fusing system	Heat rollers
Developer system	Magnetic brush development
Light source	Tri-color CCD light source (CCD: 3 components; R, G, and B)
Resolution	Scan: 600 x 300 dpi Output: 600 x 600 dpi (AUTO/TEXT mode) Scan: 600 x 600 dpi Output: 600 x 600 dpi (PHOTO mode)
Gradation	256 tones (8 bits)
Power supply	Local voltage ±10% (For this machine's power supply requirement, see the name plate located on the back of the machine.)
Power consumption	Max. 1.0 kW
Overall dimensions (with bypass tray folded)	31-5/8" (W) x 18-1/8" (D) (802 mm (W) x 460 mm (D))
Weight* ⁴	Approx. 41.7 lbs (18.9kg)
Dimensions	20-3/8" (W) x 18-1/8" (D) x 14-3/4" (H) (518 mm (W) x 460mm (D) x 376 mm (H))
Operating conditions	Temperature: 50°F to 86°F (10°C to 30°C) Humidity: 20% to 85%
Noise level	Sound power level <i>L_{WAd}</i> Copying mode: 6.7 B Standby mode: - (*) Sound pressure level <i>L_{pAm}</i> (reference) (Bystander positions) Copying mode: 51 dB Standby mode: - (*) (*) = Less than background noise Noise emission measurement in accordance with ISO7779.

*1 When making multiple duplex copies, the copy speed will vary based on the environment conditions.
*2 First copy time may vary depending on the status of the machine.
*3 The warm-up time may vary depending on the ambient conditions.
*4 Not including toner cartridges.

Printer Function

Print speed*	Max. 20 ppm (when printing on A4 size paper)
Resolution	600 dpi
Memory	Approx. 30 MB
Emulation	SPLC (Sharp Printer Language with Compression)
Interface	USB 2.0 (Full-Speed/Hi-Speed compatible interface)
Interface cables	[USB cable] USB cable that supports USB 2.0. Please purchase a commercially available USB cable.

* When printing same document continuously on A4 plain paper in non-offset mode, excluding processing time.

Scanner Function

Type	Flatbed scanner
Scanning method	Document glass/RSPF
Light source	Tri-color CCD light source (CCD: 3 components; R, G, and B)
Resolution*	Basic: 600 dpi x 600 dpi Setting range: 50 dpi - 9600 dpi
Original types	Sheet media, books
Effective scanning area	8-1/2" (Lengthwise) x 14" (Width) (216 mm (Lengthwise) x 356 mm (Width))
Scanning speed	2.88 msec/line
Input Data	A/D 16 bit
Output Data	R.G.B 1 or 8 bits / pixel
Scanning colors	Black and white 2 value, Grayscale, Full color
Protocol	TWAIN WIA (Windows XP/Vista/7 only) STI
Interface	USB 2.0 (Full-Speed/Hi-Speed compatible interface)
Drop out color	Yes
Supported operating systems	Windows 2000 Professional/XP/Vista/7
Void area	None
Interface cables	[USB cable] USB cable that supports USB 2.0. Please purchase a commercially available USB cable.
Scanner utilities	Button Manager / Sharpdesk

Network Expansion kit (MX-NB11)

Dimensions	7" (W) x 5-1/2" (D) x 1-5/8" (H) (177 mm (W) x 140 mm (D) x 40 mm (H))
Weight	Approx. 0.44 lbs. (0.2 kg)
Network expansion kit memory	128 MB
Emulation	PCL6, PS3 (PostScript 3)*
Interface	10 BASE-T / 100 BASE-TX Ethernet, USB 2.0 (Full-Speed/Hi-Speed compatible interface)

* Available only if the PS3 expansion kit (MX-PK10) is installed.

250-sheet paper feed unit (MX-CS10)

Paper size	5-1/2" x 8-1/2" to 8-1/2" x 14" (A5 to A4)
Paper weight	15 lbs. to 21 lbs. (56 g/m² to 80 g/m²)
Paper capacity	One paper tray with capacity for 250 sheets of 80 g/m² bond paper
Weight	Approx. 6.6 lbs. (3 kg)
Dimensions	19-5/8" (W) x 17-1/2" (D) x 3-1/2" (H) (498 mm (W) x 445 mm (D) x 88 mm (H))
Power supply	Drawn from the machine



Note

As a part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

Facsimile expansion kit (MX-FX12)

For the specifications of expansion kit MX-FX12, please refer to the MX-FX12 fax operation manual itself.

CAUTIONS

Each instruction also covers the optional units used with the product.

Caution label on the machine

The label ( ) in the fusing area of the machine indicates the following:

-  : Caution, risk of danger
-  : Caution, hot surface

Cautions on using the machine

Follow the cautions below when using this machine.

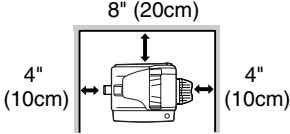
-  **Warning:**
 - The fusing area is hot. Exercise care in this area when removing misfed paper.
 - Do not look directly at the light source. Doing so may damage your eyes.
 - Machine power must be turned off before installing any supplies.
-  **Caution:**
 - Place the machine on a firm, level surface.
 - Do not install the machine in a humid or dusty location.
 - When the machine is not used for a long time, for example for consecutive holidays, turn the power switch off and remove the power cord from the outlet.
 - When moving the machine, be sure to turn the power switch off and remove the power cord from the outlet.
 - Do not switch the machine rapidly on and off. After turning the machine off, wait 10 to 15 seconds before turning it back on.
 - Do not cover the machine with a dust cover, cloth or plastic film while the power is on. Doing so may prevent heat radiation, damaging the machine.
 - Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
 - The socket-outlet shall be installed near the machine and shall be easily accessible.

Important points when selecting an installation site

Do not install your machine in areas that are:

- damp, humid, or very dusty
- exposed to direct sunlight
- poorly ventilated
- subject to extreme temperature or humidity changes, e.g., near an air conditioner or heater.

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



Cautions on handling the machine

Be careful in handling the machine as follows to maintain the performance of this machine.

- Do not drop the machine, subject it to shock or strike it against any object.
- Store spare toner cartridges in a cool dry place without removing from the package before use.
- If they are exposed to direct sunlight or excessive heat, poor copies may result.
- Do not touch the photoconductive drum (green portion).
- Scratches or smudges on the drum will cause dirty copies.

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Supply and Consumables

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

ENVIRONMENTAL INFORMATION



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.

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.

In some areas, the "POWER" switch positions are marked "I" and "O" on the copier instead of "ON" and "OFF".
If your copier is so marked, please read "I" for "ON" and "O" for "OFF".
Caution!
For a 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.

Laser information

Wave length	780 nm +15 nm -10 nm
Pulse times	12.88 μs ±12.88 ns/7 mm
Output power	Max 0.2 mW

At the production line, the output power of the scanner unit is adjusted to 0.18 MILLIWATT PLUS 5% and is maintained constant by the operation of the Automatic Power Control (APC).

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)

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

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

WARNING:
FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

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

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

Declaration of Conformity
SHARP Digital Multifunctional System, MX-B201D
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible Party: SHARP ELECTRONICS CORPORATION
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