Panasonic®
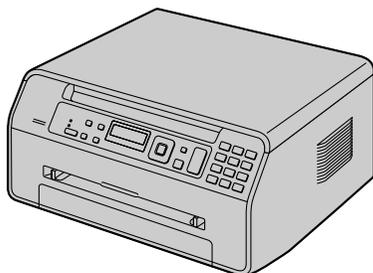
Operating Instructions

Multi-Function Printer

Model No. **KX-MB1500**

KX-MB1520

The pictured model is KX-MB1500.

Do NOT connect the unit to a computer with the USB cable until prompted to do so during the setup of Multi-Function Station (CD-ROM).

For hearing or speech impaired TTY users, TTY: 1-877-833-8855

KX-MB1520 only:

- **This unit is compatible with Caller ID. Subscription to the appropriate service through your service provider/telephone company is required.**

Thank you for purchasing a Panasonic product.

You can select the English or Spanish language.

The display and reports will be in the selected language. The default setting is English. If you want to change the setting, see feature #110 on page 46.

Caution:
- **Do not rub or use an eraser on the printed side of the recording paper, as the print may smear.**

Notice for product disposal, transfer, or return (KX-MB1520 only):
- This product can store your private/confidential information. To protect your privacy/confidentiality, we recommend that you erase the information from the memory before you dispose of, transfer or return the product.

Environment:
- Panasonic's strategic direction incorporates concern for the environment into all aspects of the product life cycle, from product development to energy saving designs; from greater product reusability to waste-conscious packaging practices.
  For U.S.A. only: Please visit **http://www.panasonic.com/environmental** for more information.

Note:
- Most illustrations shown in these instructions are based on a KX-MB1500.

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For your safety

Laser radiation

CLASS 1 LASER PRODUCT

- The printer of this unit utilizes a laser. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Laser diode properties
Laser output : Max. 10 mW
Wavelength : 760 nm - 800 nm
Emission duration : Continuous
IEC 60825-1 : 2007

LED light

CLASS 1 LED PRODUCT

- When using the unit, do not look directly at the CIS's LED light. Direct eye exposure can cause eye damage.
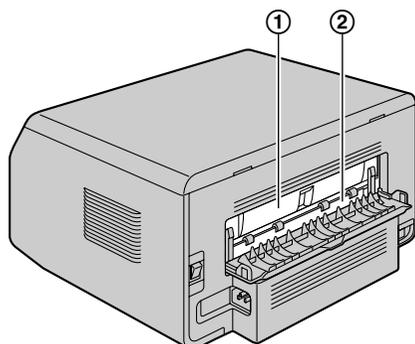
CIS's LED light properties
LED radiation output : Max. 1 mW
Wavelength :
   Red 630 nm typical
   Green 520 nm typical
   Blue 465 nm typical
Emission duration : Continuous

Fuser unit

- During or immediately after printing, the fuser unit (①) gets hot. This is normal. Do not touch the fuser unit.

Note:
- The area near the rear cover (②) may also get warm. This is normal.

For best performance

Toner cartridge

- When replacing the toner cartridge, do not allow dust, water, or liquids to come in contact with it. This may affect print quality.
- For optimal performance, genuine Panasonic toner cartridge is recommended. We cannot be responsible for problems that may be caused by a non-Panasonic toner cartridge:
   – Damage to the unit
   – Poor print quality
   – Improper operation
- Do not leave the toner cartridge out of the protective bag for a long time. It will affect the printing quality.
- Read the instructions on page 10 before you begin installation of the toner cartridge. After you have read them, open the toner cartridge protective bag. The toner cartridge contains a photosensitive drum. Exposing it to light may damage the drum.
   – Do not expose the toner cartridge to light for more than 5 minutes.
   – Do not touch or scratch the green drum surface.
   – Do not place the toner cartridge near dust or dirt, or in a high humidity area.
   – Do not expose the toner cartridge to direct sunlight.
- To extend the life of the toner cartridge, the power should never be turned OFF immediately after printing. Leave the power turned ON for a minimum of 30 minutes after printing.

Location

- To avoid malfunction, do not position the unit near appliances such as TVs or speakers which generate an intense magnetic field.
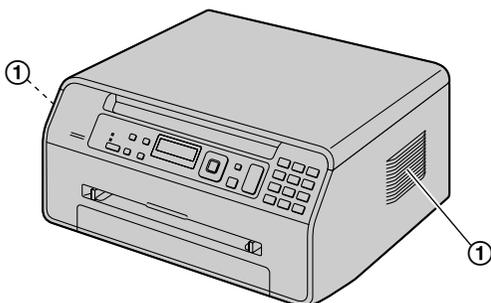
Static electricity

- To prevent static electricity damage to the interface connectors or other electrical components inside the unit, touch a grounded metal surface before touching the components.

Environment

- Keep the unit away from electrical noise generating devices, such as fluorescent lamps and motors.
- The unit should be kept free from dust, high temperature and vibration.
- The unit should not be exposed to direct sunlight.
- Do not place heavy objects on top of the unit. When you leave the unit unused for a long period of time, unplug this unit from the power outlet.
- The unit should be kept away from heat sources such as heaters, kitchen stoves, etc. Damp basements should also be avoided.

● Do not cover slots or openings on the unit. Inspect the air circulation vents regularly and remove any dust build-up with a vacuum cleaner (①).

Routine care
● Wipe the outer surface of the unit with a soft cloth. Do not use benzine, thinner, or any abrasive powder.

Moving the unit

When moving the unit, carry it as shown.
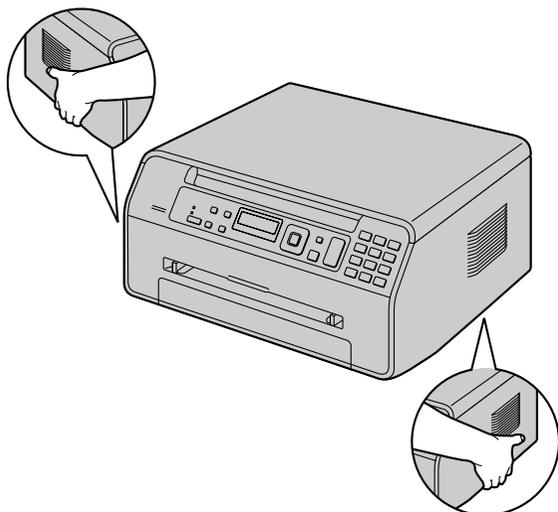
Illegal copies

● **It is unlawful to make copies of certain documents.**
Copying certain documents may be illegal in your country. Penalties of fines and/or imprisonment may be imposed on those found guilty. The following are examples of items that may be illegal to copy in your country.
  – Currency
  – Bank notes and checks
  – Bank and government bonds and securities
  – Passports and identification cards

  – Copyright material or trademarks without the consent of the owner
  – Postage stamps and other negotiable instruments
  This list is not inclusive and no liability is assumed for either its completeness or accuracy. In case of doubt, contact your legal counsel.

Notice:
● Install your machine near a supervised area to prevent illegal copies from being made.

14. General Information

Printed Reports

Specifications

15. Index

1.1 Supplied accessories

① Toner cartridge (starter)[*1]
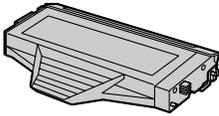
② CD-ROM (PNJKMB1502Z)[*3]
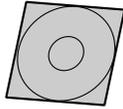
③ Important information guide (English– PNQW2949Z)[*3] (Spanish– PNQW2948Z)[*3]

④ Quick installation guide (PNQW2924Z)[*3]
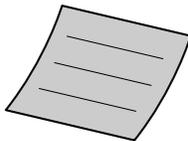
⑤ Power cord (PNJA1022Z)[*3]
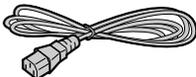
⑥ Telephone line cord (PFJA02B002Y)[*2][*3]

*1 Prints about 500 pages at ISO/IEC 19752 standard page.
*2 KX-MB1520 only
*3 Part numbers are subject to change without notice.

Note:
● Save the original carton and packing materials for future shipping and transportation of the unit.
● After unpacking the product, take care of the packing materials and/or power plug cap appropriately.

1.2 Accessory information

■ **Replacement accessory**
Accessories for this unit can be ordered online, by fax, or by telephone.
To ensure that the unit operates properly, we recommend the use of Panasonic toner cartridge.
– **Toner cartridge**
  ● **Model No. (Part No.): KX-FAT407**
  ● Prints about 2,500 pages at ISO/IEC 19752 standard page.

Note:
● ISO/IEC 19752 standard is as follows:
  – Environment: 23 ± 2 °C (73 ± 3 °F) / 50 ± 10% RH
  – Print mode: Continuous printing

To place an order online (for customers in the U.S.A. or Puerto Rico)
Visit our web site:
http://www.panasonic.com/mfpsupplies
● For questions regarding online orders:
  Email: customerservice@shop.us.panasonic.com
  Telephone: (800) 405-0652

To place an order by fax
Fax: (800) 237-9080
Include:
– your name, shipping address and telephone number
– credit card type, number, expiration date and your signature
– part number and quantity

To place an order by telephone
Telephone: (800) 332-5368
(Monday - Friday 9 am to 9 pm, EST.)

1.3 Button descriptions

* The pictured model is KX-MB1520.

❶ 【Quality】

- To select the contrast (page 28) and resolution (page 28) when copying.
- To select the contrast (page 34) and resolution (page 34) when sending a fax (KX-MB1520 only).

❷ 【Caller ID】 (KX-MB1520 only)

- To use Caller ID features (page 42).

【Page Layout】

- To make copies using various page layouts (page 30).

❸ 【Menu】

- To start or exit programming.

❹ Mic (KX-MB1520 only)

- The built-in microphone.

For beep sounds (KX-MB1500 only)

- Key beeps etc. will be heard.

❺ 【Fax Auto Answer】 (KX-MB1520 only)

- To turn the auto answer setting ON/OFF (page 37).

❻ 【Fax】 (KX-MB1520 only)/【Copy】/【Scan】

- To switch to the fax mode (KX-MB1520 only), scan mode or copy mode (page 17).

❼ 【Redial】 (KX-MB1520 only)

- To redial the last number dialed. If the line is busy when you send a fax, the unit will automatically redial the number 1 time.

【⊗】 (Pause) (KX-MB1520 only)

- To insert a pause during dialing.

【Copy Size】

- To select the copy size (page 28).

❽ 【Flash】 (KX-MB1520 only)

- To access special telephone services or for transferring extension calls.

【Zoom】

- To enlarge or reduce a document when copying (page 29).

❾ 【Mute】 (KX-MB1520 only)

- To mute your voice during a conversation. Press again to resume the conversation.

❿ 【SP-Phone】 (KX-MB1520 only)

- To make or receive phone calls.

⓫ Navigator key

- To select desired settings.
- To adjust the volume (KX-MB1520 only) (page 18).

【▭】 (Phonebook) (KX-MB1520 only)

- To search for a stored item (page 36). To make a phone call, press 【SP-Phone】. To send a fax, see page 36.
- To initiate the phonebook (page 35).

【-€】 (Collate)

- To make a collate copy (page 29).

⓬ 【Set】

- To store a setting during programming.

⓭ 【Stop】

- To stop an operation or programming session.
- To erase a character/number.

⓮ 【Start】

- To copy a document (page 28).
- To scan a document (push scan) (page 26).
- To send a fax (KX-MB1520 only) (page 34).

⓯ 【Tone】 (KX-MB1520 only)

- To change from pulse to tone temporarily during dialing when your line has rotary/pulse service.

1.4 Overview

1.4.1 Front view
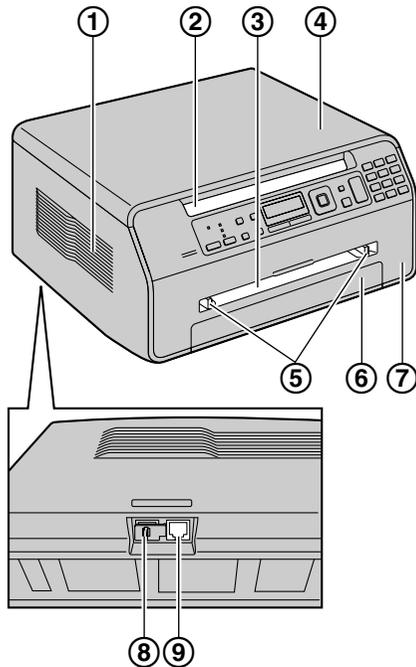
* The pictured model is KX-MB1520.

① **Speaker (KX-MB1520 only)**

② **Recording paper exit**
   - The unit can hold up to approximately 30 sheets of printed paper. Remove the printed paper before the recording paper exit becomes full.

③ **Manual input tray**

④ **Document cover**

⑤ **Recording paper guides**

⑥ **Paper input tray**

⑦ **Front cover**

⑧ **External telephone jack (KX-MB1520 only)**

⑨ **Telephone line jack (KX-MB1520 only)**

1.4.2 Rear view
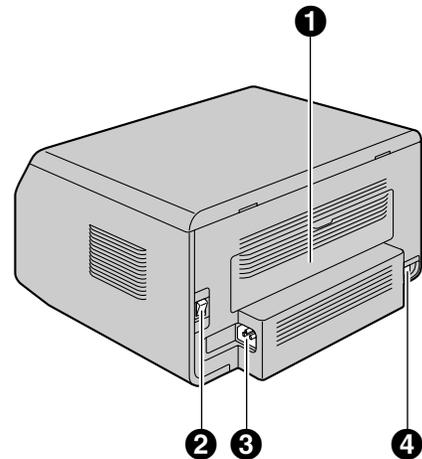
❶ **Rear cover**
❷ **Power switch**
❸ **Power inlet**
❹ **USB interface connector**

1.5 Toner cartridge

The supplied toner cartridge is a starter toner cartridge.

Caution:
- **Read the following instructions before you begin installation. After you have read them, open the toner cartridge protective bag. The toner cartridge contains a photosensitive drum. Exposing it to light may damage the drum.**
  - **Do not expose the toner cartridge to light for more than 5 minutes.**
  - **Do not touch or scratch the green drum surface.**
  - **Do not place the toner cartridge near dust or dirt, or in a high humidity area.**
  - **Do not expose the toner cartridge to direct sunlight.**
- **Do not leave the toner cartridge out of the protective bag for a long time. It will affect the printing quality.**
- **Do not add toner to the toner cartridge. We cannot be responsible for any damage to the unit or degradation of print quality which may occur from the use of a non-Panasonic toner cartridge.**

1 Remove the toner cartridge from the protective bag.
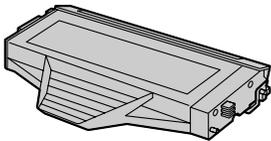
2 Shake the toner cartridge horizontally more than 5 times.
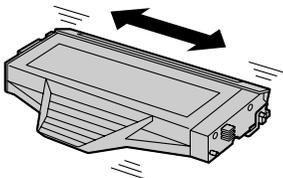
3 Detach the orange protective cover (①) from the toner cartridge.
- Do not touch or scratch the green drum surface (②).

4 Open the front cover (①).

For assistance, please visit http://www.panasonic.com/help
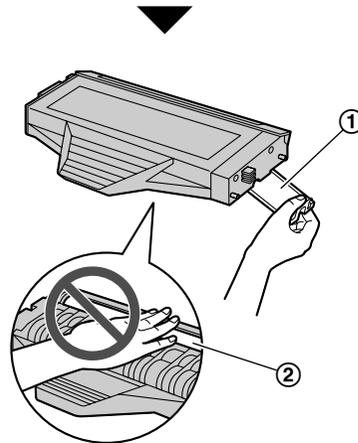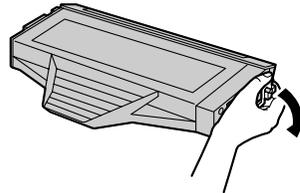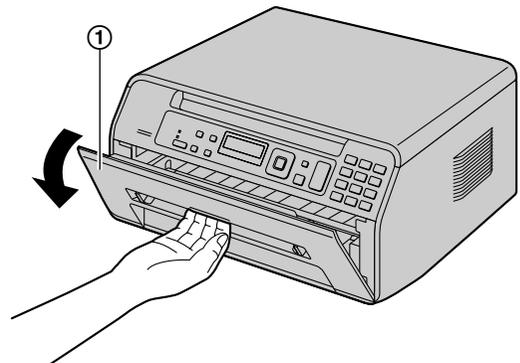
5 Hold the toner cartridge (①) by the center handle, then insert firmly to lock into place.

6 Close the front cover.

When to replace the toner cartridge

When the display shows the following, replace the toner cartridge.

– **"TONER LOW"**
– **"TONER EMPTY"**
– **"DRUM LIFE LOW REPLACE SOON"**
– **"DRUM LIFE OVER CHANGE CARTRIDGE"**

Toner cartridge life:
- See page 74 for information on the toner cartridge life.
- To check the life and quality of the drum inside the toner cartridge, print the printer test list (page 72). If the printing quality is still poor or **"DRUM LIFE OVER CHANGE CARTRIDGE"** appears on the display, replace the toner cartridge.

Note:
- To ensure that the unit operates properly, we recommend the use of **Panasonic toner cartridge**. See page 7 for accessory information.

Waste disposal method

Waste material should be disposed of under conditions which meet all national and local environmental regulations.

Toner save feature

If you want to reduce toner consumption, set the toner save setting to ON (feature #482 on page 49). The toner cartridge will last approximately 20 % longer. This feature may lower the print quality.

1.6 Connections

Caution:

● **When you operate this product, the power outlet should be near the product and easily accessible.**

* The pictured model is KX-MB1520.

① Power cord

● Connect to a power outlet (120 V, 60 Hz).

② Telephone line cord[*1]

● Connect to a single telephone line jack (RJ11C).

③ **[EXT]** jack[*1]

● You can connect an answering machine or an extension telephone. Remove the stopper if attached, and take care of it appropriately.

④ Answering machine (not supplied)[*1]

*1 KX-MB1520 only

┌───┐
│ **IMPORTANT NOTICE FOR THE USB**   │
│ **CONNECTION**   │
│   │
│ ● DO NOT CONNECT THE UNIT TO A   │
│ COMPUTER WITH THE USB CABLE UNTIL   │
│ PROMPTED TO DO SO DURING THE SETUP   │
│ OF MULTI-FUNCTION STATION (page 20).   │
└───┘

Note:
● Do not place any objects within 10 cm (4 inches) of the right and left sides of the unit.
● If any other device is connected to the same telephone line, this unit may disturb the network condition of the device (KX-MB1520 only).

Using surge protectors

● The warranty does not cover damage due to power line surges or lightning. For additional protection, we recommend using a surge protector (⑤).

If the unit shares a single telephone line with a DSL service (KX-MB1520 only)

Fax transmission/reception may be disturbed, noise interference may be heard during telephone conversations, or Caller ID (page 42) may not function properly. Please attach a DSL filter (⑥) to the telephone line cord of the unit to prevent this. A DSL filter may be provided by your DSL service provider.

1.7 Turning the power ON

Turn the power switch to the ON position (①).
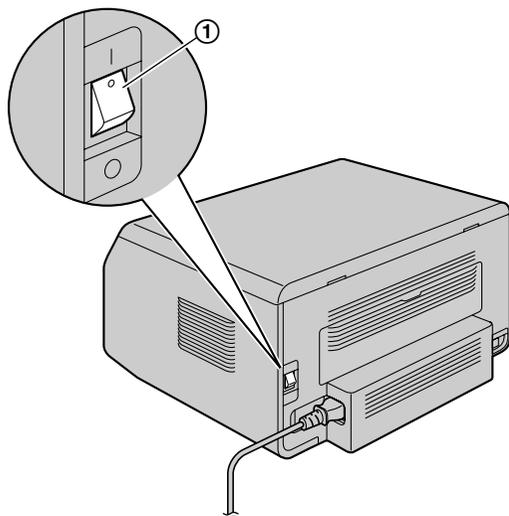
1.8 Recording paper

Note for recording paper:

- We recommend that you test paper (especially special sizes and types of paper) on the unit before purchasing large quantities.
- Do not use the following types of paper:
  - Paper with cotton and/or fiber content that is over 20 %, such as letterhead paper or paper used for resumes
  - Extremely smooth or shiny paper, or paper that is highly textured
  - Coated, damaged or wrinkled paper
  - Paper with foreign objects attached, such as tabs or staples
  - Paper that has dust, lint or oil stains
  - Paper that will melt, vaporize, discolor, scorch or emit dangerous fumes near 200 °C (392 °F), such as vellum paper. These materials may transfer onto the fusing roller and cause damage.
  - Moist paper
  - Inkjet paper
- Some paper is designed to be printed on only one side. Try printing on the other side of the paper if you are not happy with the print quality, or if misfeeding occurs.
- For proper paper feeding and best print quality, we recommend using long-grained paper.
- Do not use paper of different types or thicknesses at the same time. This may cause paper jams.
- Avoid double-sided printing.
- Do not use paper printed from this unit for double-sided printing with other copiers or printers. This may cause paper jams. Do not use paper printed from other copiers or printers for printing with this unit. This may cause paper jams.
- To avoid curling, do not open paper packs until you are ready to use the paper. Store unused paper in the original packaging, in a cool and dry location.
- For customers who live in high humidity areas: Please be sure to store paper in an air-conditioned room at all times. If you print using moist paper, it may cause paper jam.

1.8.1 Paper input tray

The paper input tray unit can hold the following paper. If you load more than the specified amount of paper, paper jam may occur and the paper may be damaged.

- Up to 150 sheets of 64 g/m² to 75 g/m² (17 lb to 20 lb) paper.
- Up to 130 sheets of 90 g/m² (24 lb) paper.
- A4, letter and 16K-size paper can be used. 16K-size paper can only be used when using the unit for printing or copying.
- Please refer to page 73 for information on recording paper.

- **The unit is set for printing letter-size plain paper by default.**
  - **To use other paper sizes, change the recording paper size setting (feature #380 on page 48).**
  - **To use thin paper, change the recording paper type setting (feature #383 on page 49).**

1 Lift the paper input tray (①), and pull it completely out.

2 Before loading a stack of paper, fan the paper to prevent paper jams.
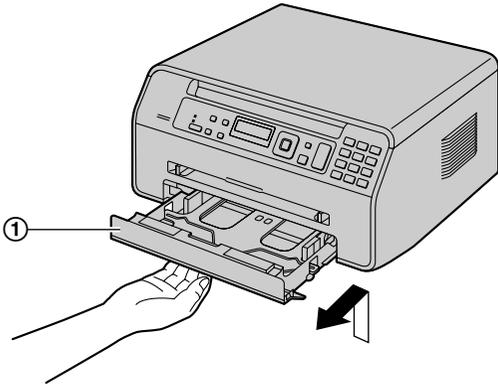
3 Load the paper, print-side down (①).

Important:
- **Push down to lock the plate (②) in the paper input tray, if necessary.**

4 Adjust the recording paper guides. Pinch the rear guide (①), then slide it to match the paper size mark. Pinch the right guide (②), then slide it to adjust the width to the size of the recording paper.
- Make sure that the recording paper is under the paper limit mark (③), and the paper should not be loaded over the snubbers (④).

14   For assistance, please visit http://www.panasonic.com/help

5 Insert the paper input tray into the unit.

Note:
● If the paper is not loaded correctly, re-adjust the paper guides, or the paper may jam.
● If the paper input tray does not close, the plate in the paper input tray may not be in the locked position. Push the paper down and make sure that the paper is laying flat in the paper input tray.

To expand the paper exit
You can temporarily expand the paper exit before printing.
– When printing on small sized paper, you can pull it out easily.
– When printing several pages (20 to 30 pages), paper stacking will be supported.

● After use, pull up the paper exit, and then replace the tab (①) to the original position.

Caution for the paper input tray
● **Do not drop the paper input tray.**
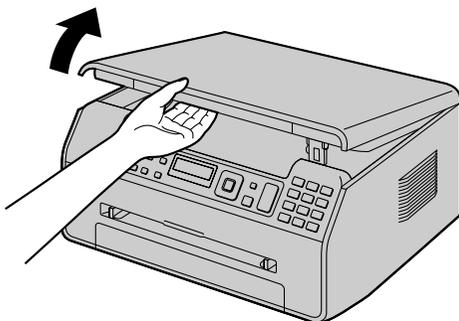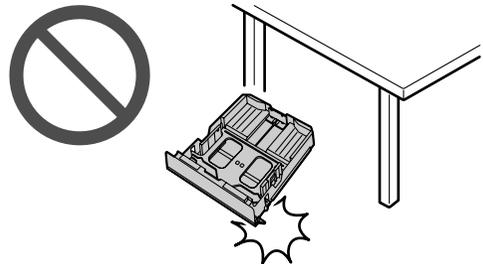
● **Hold the paper input tray with both hands when removing or installing. The paper input tray weighs approximately 1.5 kg (3.3 lb) when fully loaded with recording paper.**
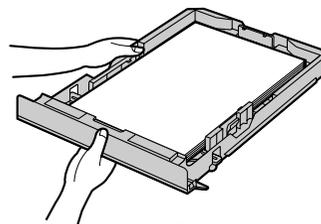
Approx. 1.5 kg (3.3 lb)

1.8.2 Manual input tray

You can use the manual input tray for printing with the computer and for copying. It can hold one page at a time. When printing or copying multiple pages, add the next page after the first page has been fed into the unit.

- Please refer to page 73 for information on recording paper.
- When printing with the computer, custom size recording paper can also be used.
- **The unit is set for printing letter-size plain paper by default.**
  - **To use other paper sizes, change the recording paper size setting (feature #381 on page 48).**
  - **To use thin or thick paper, change the recording paper type setting (feature #384 on page 49).**

1 Adjust the width of the guides (①) to the size of the recording paper.

2 Insert the paper, print-side up (②) until the unit grasps the paper and a single beep is heard.
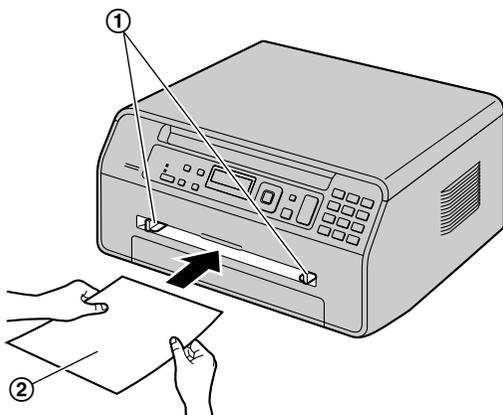
Note:
- To print from the manual input tray;
  - when printing with the computer, select #2 for the printer properties.
  - when making a copy, set the copy input tray setting to **"#2"** beforehand (feature #460 on page 54).

  If these settings are not changed, when printing or copying multiple pages, the 1st page will be printed from the manual input tray, but the rest of the pages will be printed from the paper input tray.
- If the paper is not inserted correctly, re-adjust the paper, or the paper may jam.

When printing on thick paper
- When you use thick paper for the recording paper, be sure to open the rear cover before start printing. Thick paper will be printed out from the rear side.

Therefore, if you print with the cover closed, the paper may jam inside the unit.
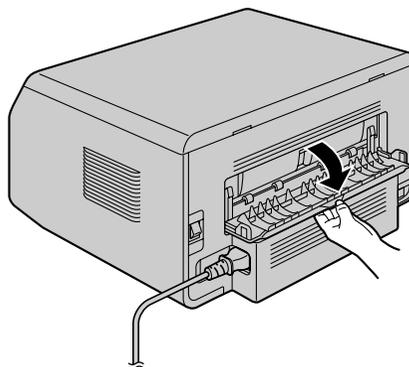
2.1 Dialing mode (KX-MB1520 only)

If you cannot dial (page 34), change this setting according to your telephone line service.

【Menu】

【Set】
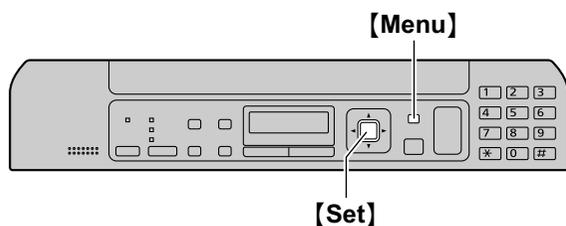
1 **【Menu】**

2 Press **【♯】【1】【2】【0】** to display **"DIALING MODE"**.

3 Press **【1】** or **【2】** to select the desired setting.
  【1】 "PULSE": For rotary/pulse dial service.
  【2】 "TONE" (default): For tone dial service.

4 **【Set】**

5 Press **【Menu】** to exit.

2.2 Selecting the operation mode (Scan/Copy) (Fax: KX-MB1520 only)

You can select the desired mode by pressing the following button repeatedly.
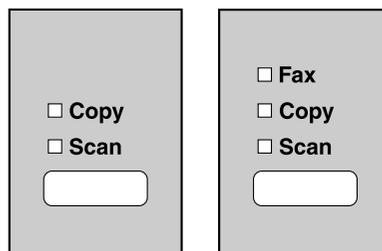
KX-MB1500   KX-MB1520

– **【Fax】** (KX-MB1520 only): Select this mode when using the unit as a fax machine (page 34).
– **【Copy】**: Select this mode when using the unit as a copier (page 28).
– **【Scan】**: Select this mode when using the unit as a scanner (page 26).

Note:
● The default operation mode is the copy mode.
● You can change the default operation mode (feature #463 on page 49) and the timer before returning to the default operation mode (feature #464 on page 49) (KX-MB1520 only).

2.3 Setting the original
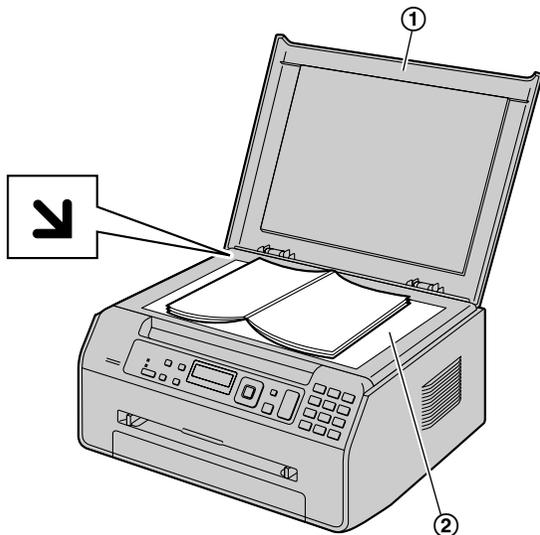
1 Open the document cover (①).

2 Place the document FACE DOWN on the scanner glass (②), aligning the top left of the document with the corner where the ↘ mark is positioned.

3 Close the document cover.

Note:
● Place the original onto the scanner glass gently. To avoid malfunction, do not press down too firmly.
● If the original is a book thicker than 15 mm ($^{19}/_{32}$"), do not close the document cover.
● Confirm that any ink, paste or correction fluid has dried completely.
● Effective scanning area is shown by the shaded area:
Effective scanning area
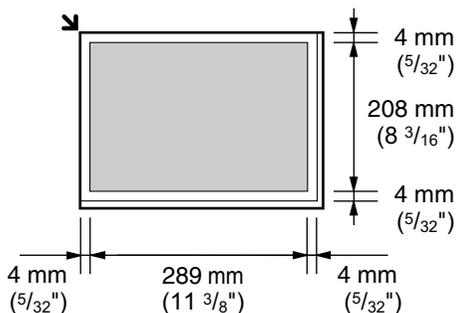
2.4 Adjusting the volume (KX-MB1520 only)

Important:
● **Before adjusting the volume, set the operation mode to fax mode. If the 【Fax】 light is OFF, turn it ON by pressing 【Fax】 repeatedly.**
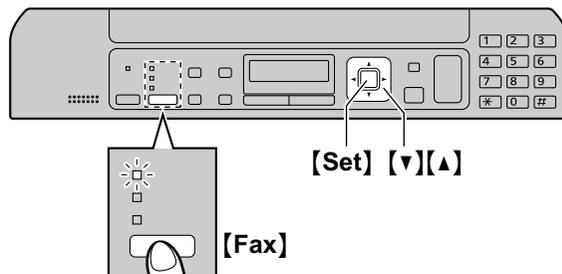
Ringer volume

While the unit is idle, press 【▼】 or 【▲】.

To turn the ringer OFF

Press 【▼】 repeatedly to display **"RINGER OFF= OK?"**.
→ 【Set】
● The unit will not ring.
● To turn the ringer back ON, press 【▲】.

Speaker volume

While using the speakerphone, press 【▼】 or 【▲】.

2.5 Date and time (KX-MB1520 only)

We recommend you to set the date and time. The other party will receive your unit's date and time as the header information.

【Menu】

【Set】【◄】【►】

【Fax】
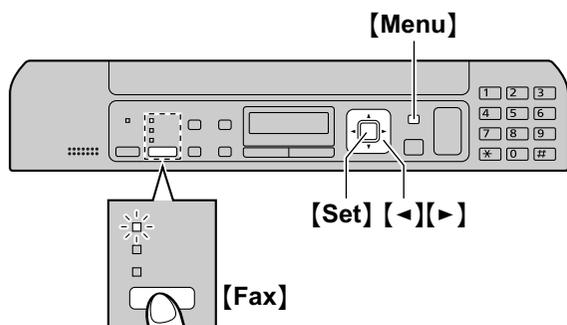
1. 【Menu】 → 【♯】[1][0][1] → 【Set】

2. Enter the current month/date/year by selecting 2 digits for each.
   Example: August 3, 2011
   【0】【8】【0】【3】【1】【1】

3. Enter the current hour/minute by selecting 2 digits for each.
   Example: 10:15 PM (12 hour clock format)
   1. **【1】【0】【1】【5】**
   2. Press 【✳】 repeatedly to select **"PM"**.

4. 【Set】

5. Press 【Menu】 to exit.

Note:
- To check the current date and time setting, temporarily change the unit to the fax mode by pressing 【Fax】 repeatedly (page 17).
- Your unit's date and time will be used as the header information for the following:
  – When sending faxes (page 34).
- If the date and time is not set correctly, the other party will receive an incorrect date and time as their header. This may confuse the other party.
- The accuracy of the clock is approximately ±60 seconds a month.

To correct a mistake

Press 【◄】 or 【►】 to move the cursor to the incorrect number, and make the correction.

If you have subscribed to a Caller ID service

The date and time will be automatically set according to the received caller information.
- If the time has not previously been set, Caller ID will not adjust the clock.
- You can turn this feature OFF (feature #226 on page 48).

2.6 Your logo (KX-MB1520 only)

You can program your logo (name, company name, etc.) so that it appears on the top of each page sent.

【Stop】【Menu】

【Set】【◄】【►】
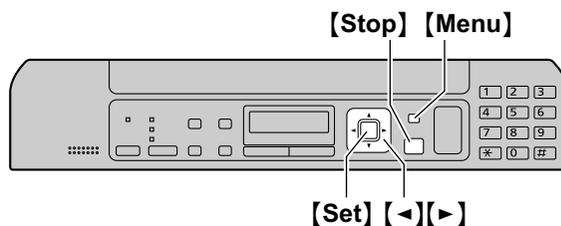
1. 【Menu】 → 【♯】[1][0][2] → 【Set】

2. Enter your logo, up to 30 characters (see page 57 for character entry). → 【Set】

3. Press 【Menu】 to exit.

To correct a mistake

Press 【◄】 or 【►】 to move the cursor to the incorrect character, and make the correction.
- To erase all characters, press and hold 【Stop】.

2.7 Your fax number (KX-MB1520 only)

You can program your fax number so that it appears on the top of each page sent.

【Stop】 【Menu】

【Flash】   【Set】【◄】【►】
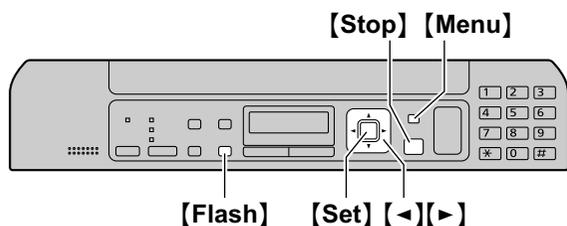
1 【Menu】 → 【♯】【1】【0】【3】 → 【Set】

2 Enter your fax number, up to 20 digits.
- To enter a "+", press **【✱】**.
- To enter a space, press **【♯】**.
- To enter a hyphen, press **【Flash】**.
- To erase a number, press **【Stop】**.

3 【Set】

4 Press 【Menu】 to exit.

To correct a mistake

Press 【◄】 or 【►】 to move the cursor to the incorrect number, and make the correction.
- To erase all numbers, press and hold 【Stop】.

2.8 Installing Multi-Function Station

2.8.1 Required computer environment

Panasonic Multi-Function Station software enables the unit to carry out the following functions:
- Printing on plain paper, thin and thick paper and labels
- Previewing documents and changing printer settings before printing (Easy Print Utility)
- Scanning documents and converting an image into text with OCR software (not supplied)
- Scanning from other applications for Microsoft® Windows® that support TWAIN scanning and WIA scanning (Windows XP/Windows Vista®/Windows 7)
- Storing, editing or erasing items in the phonebook using your computer (KX-MB1520 only)
- Programming the features using your computer
- Sending, receiving fax documents using your computer (KX-MB1520 only)

To use Multi-Function Station on your computer, the following are required:

Operating System:
Windows 2000/Windows XP/Windows Vista/Windows 7
CPU:
Windows 2000: Pentium® II or higher processor
Windows XP: Pentium III or higher processor
Windows Vista/Windows 7: Pentium 4 or higher processor
RAM:
Windows 2000/Windows XP: 128 MB (256 MB or more recommended)
Windows Vista: 512 MB (1 GB or more recommended)
Windows 7: 1 GB (2 GB or more recommended)
Other Hardware:
CD-ROM drive
Hard disk drive with at least 600 MB of available space
USB interface
Other:
Internet Explorer® 5.0 or later

Warning:
- **To assure continued emission limit compliance:**
  - **use only shielded USB cable (Example: Hi-Speed USB 2.0 certified cable).**
- **To protect the unit, use only shielded USB cable in areas where thunderstorms occur.**

Note:
- A USB cable is not supplied. Please purchase a shielded Type-A male/Type-B male USB cable.

2.8.2 Installing Multi-Function Station on a computer

- **Install Multi-Function Station (CD-ROM) before connecting the unit to a computer with the USB cable. If the unit is connected to a computer with the USB cable before installing Multi-Function Station, the [Found New Hardware Wizard] dialog box will appear. Click [Cancel] to close it.**
- **The screenshots shown in these instructions are for Windows XP and are included for reference only.**
- **The screenshots shown in these instructions may differ slightly from those of the actual product.**
- **Software features and appearance are subject to change without notice.**
- **If you are also using KX-MB200/KX-MB700/ KX-FLB880 series, see page 67.**

1 Start Windows and exit all other applications.
- You must be logged in as an administrator in order to install Multi-Function Station.

2 Insert the supplied CD-ROM into your CD-ROM drive.
- If the **[Select Language]** dialog box appears, select the language that you want to use with this software. Click **[OK]**.
- If the installation does not start automatically: Click **[Start]**. Choose **[Run...]**. Type "**D:\Install**" (where "**D**" is the drive letter of your CD-ROM drive). Click **[OK]**. (If you are not sure what the drive letter is for your CD-ROM drive, use Windows Explorer and look for the CD-ROM drive.)

3 **[Easy Installation]**
- The installation will start automatically.

4 When the setup program starts, follow the on-screen instructions.
- Easy Print Utility (page 25) and Device Monitor (page 58) will also be installed.

5 If the **[Connection Type]** dialog box appears, select **[Connect directly with a USB cable.]**. → **[Next]**
- The **[Connect Device]** dialog box will appear.

6 Connect the unit to a computer with the USB cable (①), then click **[Next]**.
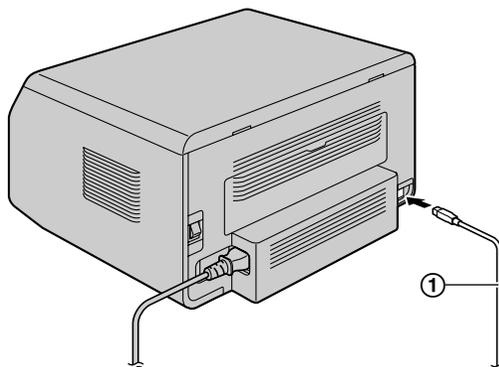
- If the unit is connected to your computer, the model name will be automatically detected.
- You can change the name of the unit if necessary.

7 Click **[Install]**, then follow the on-screen instructions.
- The files will be copied to your computer.

Important notice

If you are using Windows XP, Windows Vista or Windows 7, a message may appear after connecting the unit with the USB cable. This is normal and the software will not cause any difficulties with your operating system. You can continue the installation with no problem. This kind of message is displayed:

- **For Windows XP users**
  "The software you are installing for this hardware has not passed Windows Logo testing to verify its compatibility with Windows XP."
- **For Windows Vista/Windows 7 users**
  "Would you like to install this device software?"

To view or install the operating instructions data

1. Start Windows and insert the supplied CD-ROM into your CD-ROM drive.

2. Click **[Operating Instructions]**, then follow the on-screen instructions to view or install the operating instructions in PDF format.
- Adobe® Reader® is required to view the operating instructions.

Note:
- If the screen prompts you to insert the CD-ROM for the operating system when installing Multi-Function Station, insert it into your CD-ROM drive.
- If you install the operating instructions, you can view it anytime by clicking **[?]** on the Multi-Function Station launcher.

To use another unit with the computer

You need to add the printer driver for each unit, as follows.

1. Start Windows and insert the supplied CD-ROM into your CD-ROM drive.

---

2. **[Modify]** → **[Add Multi-Function Station Driver]**. Then follow the on-screen instructions.

Note:
- You cannot connect more than one unit to the same computer at the same time.

To modify the software (To add or uninstall each component)

You can select the components to install or uninstall anytime after the installation.

You must be logged in as an administrator in order to modify Multi-Function Station.

1. Start Windows and insert the supplied CD-ROM into your CD-ROM drive.

2. **[Modify]** → **[Modify Utilities]**. Then follow the on-screen instructions.

To uninstall the software

You must be logged in as an administrator in order to uninstall Multi-Function Station.

[Start] → **[All Programs]** or **[Programs]** → **[Panasonic]** → the unit's name → **[Uninstall]**. Then follow the on-screen instructions.

2.9 Starting Multi-Function Station

[Start] → **[All Programs]** or **[Programs]** → **[Panasonic]** → the unit's name → **[Multi-Function Station]**

- Multi-Function Station will appear.
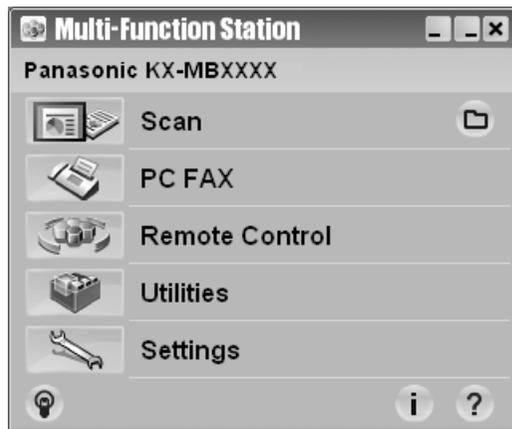
* The pictured model is KX-MB1520.

[Scan] (page 27)
- To scan and display the scanned images.
- To scan and create an image file.
- To scan and send by email.
- To scan and convert an image into editable text data using OCR software (not supplied).

[PC FAX] (KX-MB1520 only)
- To send a document created on the computer as a fax message (page 36).
- To display a fax document received on the computer (page 41).

[Remote Control] (page 57)
- To program the features.
- To store, edit or erase items in phonebook.[1]
- To view items in the journal report or Caller ID list.[1]
- To store caller information into phonebook.[1]
- [1] KX-MB1520 only

[Utilities]
- To start the Multi-Function Viewer (page 27).
- To start the Device Monitor (page 58).
- To start the OCR application (page 26). **[OCR Path]** must be set beforehand.

[Settings] (page 23)
- To change the general settings.
- To change the settings for scanning.

[?]
- For detailed instructions on Multi-Function Station.
- To view operating instructions.

[💡]

● To display usage tips.

[i]

● To display information about Multi-Function Station.

Note:
● You can confirm if the unit is connected to your computer by using Device Monitor (page 58).
● Computer features (printing, scanning, etc.) may not function properly in the following situations:
  – When the unit is connected to a computer that was custom-built by the user.
  – When the unit is connected to the computer via a PCI card or other expansion card.
  – When the unit is connected to another piece of hardware (such as a USB hub or interface adapter) and not connected directly to the computer.

To change the settings

You can change the settings for Multi-Function Station beforehand.

1. Select **[Settings]** from Multi-Function Station.

2. Click the desired tab and change the settings. → **[OK]**

[General]

– **[Launcher display setting]**: To select the display type of the launcher.
– **[OCR Path]**: To select the OCR software (not supplied).

[Scan]

– **[Save to]**: To select the folder where the scanned image will be saved.
– **[Viewer][File][Email][OCR][Custom]**: To change scanning settings for Multi-Function scan application.

To select the default Email software

The default Email software is used when using scan to email (page 26).
You can select the default Email software as follows.

For Windows 2000:

1. **[Start]** → **[Settings]** → **[Control Panel]** → **[Internet Options]** → **[Programs]** → **[E-mail]**

2. Select the desired MAPI-compliant Email software such as **[Outlook Express]**, etc. → **[OK]**

For Windows XP:

1. **[Start]** → **[Control Panel]** → **[Internet Options]** → **[Programs]** → **[E-mail]**

2. Select the desired MAPI-compliant Email software such as **[Outlook Express]**, etc. → **[OK]**

For Windows Vista:

1. **[Start]** → **[Control Panel]** → **[Internet Options]** → **[Programs]** → **[Set programs]** → **[Set program access and computer defaults]**
  ● If the **[User Account Control]** dialog box appears, click **[Continue]**.

2. **[Custom]**

3. Select the desired MAPI-compliant Email software such as **[Windows Mail]**, etc. from **[Choose a default e-mail program]**. → **[OK]**

For Windows 7:

1. **[Start]** → **[Control Panel]** → **[Network and Internet]** → **[Internet Options]** → **[Programs]** → **[Set programs]** → **[Set program access and computer defaults]**

2. **[Custom]**

3. Select the desired MAPI-compliant Email software from **[Choose a default e-mail program]**. → **[OK]**

3.1 Printing from Windows applications

You can print a file created in a Windows application. For example, to print from WordPad, proceed as follows:

1 Open the document you want to print.

2 Select **[Print...]** from the **[File]** menu.
   ● The **[Print]** dialog box will appear.
     For details about the **[Print]** dialog box, click **[?]**, then click the desired item.
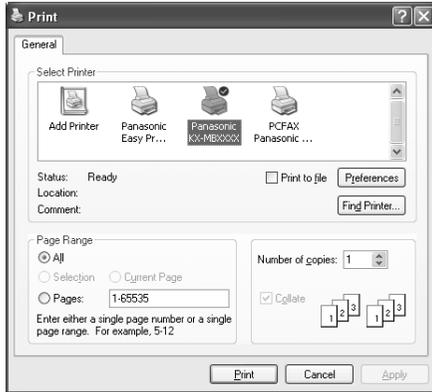
* The pictured model is KX-MB1520.

Note:
● For Microsoft PowerPoint®, select **[Color]** or remove the check next to **[Grayscale]** in the print dialog so that colored or gray objects will be printed in grayscale properly.

3 Select the unit's name as the active printer.
   ● If you have changed the name of the unit when installing, select that name from the list.
   ● To change the printer settings, proceed as follows.
     For Windows 2000:
     Click the desired tab and change the printer settings.
     For Windows XP/Windows Vista/Windows 7:
     Click **[Preferences]**, then click the desired tab. Change the printer settings, then click **[OK]**.

4 Click **[Print]**.
   ● The unit will start printing.

Note:
● To stop printing from the unit, see page 58.
● To load paper, see page 13, 16.
● For details about the paper specifications, see page 73.
● If a printing error occurs, the Device Monitor (page 58) will start automatically and display the error information.

Setting the printer properties

You can change the printer setting in step 3. We recommend that you test paper (especially special sizes and types of paper) on the unit before purchasing large quantities.
You can change or display the settings on the following tabs.
[Basic]: Paper size, media type, pages per sheet, etc.
[Output]: Number of prints, collate, etc.
[Quality]: Quality, contrast, toner save feature, etc.
[Effects]: Watermark, overlay.
[Profile]: Saving the desired settings, selecting the saved settings, etc.
[Support]: Version information.

Note:
● Select the desired media type on the **[Basic]** tab according to the recording paper.

Recording paper type	Media type
Plain paper 75 g/m² to 90 g/m² (20 lb to 24 lb)	**[Plain Paper]**
Thin paper 64 g/m² to 75 g/m² (17 lb to 20 lb)	**[Thin Paper]**
Thick paper 90 g/m² to 165 g/m² (24 lb to 44 lb)	**[Thick Paper]**
Label	**[Label]**

● When printing from a computer, the printer properties setting overrides the following unit's programming features:
   – Media type setting (feature #383 on page 49 and feature #384 on page 49)
   – Toner save setting (feature #482 on page 49)

To print on labels

You can print not only on plain paper but also on special media (labels).
● Please refer to page 73 for information on recording paper.
● To load paper, see page 16.
Use labels designed for laser printing. We recommend the following:

Avery®
5160/5161/5162/5163/5164/5165/5167/5168

XEROX®
LWH100/LWH110/LWH120/LWH130/LWH140
● **Use the manual input tray to print labels.**
● **Load label sheets one page at a time for printing, print-side up.**
● **Remove each label after printing.**
● Do not use the following types of labels:

– Labels that are wrinkled, damaged or separated from the backing sheet.

– Any sheet of labels that has spaces in it where some of the labels have been removed.

– Labels that do not completely cover the backing sheet as follows:
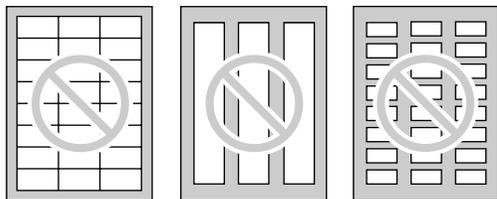
3.2 Easy Print Utility

By printing using the Panasonic Easy Print Utility instead of the printer driver, you can use useful printing features for your convenience.

– Preventing unnecessary prints by checking the preview on PC screen

– Combining multiple documents

– Saving a file in PDF format

For example, to print from WordPad, proceed as follows:

1 Open the document you want to print.

2 Select **[Print...]** from the **[File]** menu.

3 Select **[Panasonic Easy Print Driver]** as the active printer.

4 Click **[Print]**.
  ● The **[Panasonic Easy Print Utility]** dialog will be displayed. For details about the Easy Print Utility, click **[?]**, then click the desired item.

5 View the print image by clicking the desired page in the **[Print Page Operation]** window (left column list).
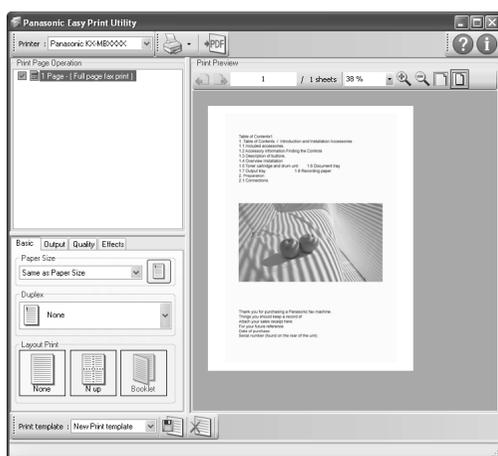
● To change the printer settings, see page 25.
● To combine multiple documents created in various applications, see page 25.

● To save the file in PDF format, see page 25.
● Even if you set the number of prints on the original application beforehand, you may have to re-set it for the Easy Print Utility.

6 Click **[Print]** icon on the print toolbar.
  ● The unit will start printing.

3.2.1 Ecology printing features

You can use various printing features and preview the print image without test print.

Printer settings

You can change or display the settings on the following tabs in step 5.

[Basic]: Paper size, layout printing
[Output]: Number of prints, paper source, media type
[Quality]: Color mode, toner save
[Effects]: Header, watermark, footer

Combining multiple documents

You can display multiple pages created in various applications and handle it as a single document.

1. Perform step 1 to 4 on "3.2 Easy Print Utility".

2. Open another document you want to add to Easy Print Utility.

3. Select **[Print...]** from the **[File]** menu.
  ● The **[Print]** dialog box will appear.

4. Select **[Panasonic Easy Print Driver]** as the active printer.

5. Click **[Print]**.
  ● The document will be added after the last page of the previous document in the print preview window.

6. Repeat step 2 to 5.

7. If necessary, change the printer settings (page 25).

8. Click **[Print]** icon on the print toolbar.

Note:
● The maximum number of documents that can be displayed in the **[Print Page Operation]** window is 999 pages.

Saving a file as PDF file

You can save the previewed files in PDF format instead of printing it.

1. Perform step 1 to 4 on "3.2 Easy Print Utility".

2. Click the **[Save PDF file]** icon on the print toolbar.
  ● The **[Save As]** dialog box appears.

3. Specify the folder to save, enter the file name, and then click **[Save]**. The **[Save PDF file]** dialog appears while PDF files are being created and saved.

Note:
● The PDF file created with Easy Print Utility is an image type.

4.1 Scanning from the unit (Push Scan)

You can easily scan the document by using the operation panel on the unit. You can select one of the following scanning modes depending on how you intend to use the scanned image.

Scanning mode

"VIEWER"	Viewing using Multi-Function Viewer (Scan to Multi-Function Viewer)
"FILE"	Saving as a file to your computer (Scan to save as a file)
"EMAIL"	Sending as an attached file to an email destination from your computer (Scan to email)
"OCR"	Using OCR software (Scan to OCR)

[Stop]

[Start]

[Scan]

[Set][▾][▴][►]
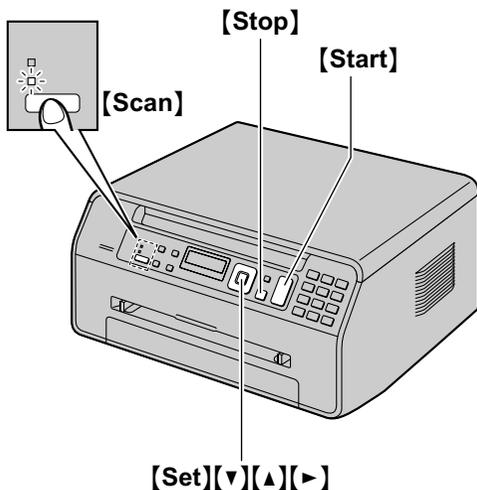
1 Set the original (page 18).

2 If the **[Scan]** light is OFF, turn it ON by pressing **[Scan]** repeatedly.

3 Press **[▾]** or **[▴]** repeatedly to select a scanning mode. → **[Set]**

4 If necessary, change the scanning settings. Press **[►]**, press **[▾]** or **[▴]** repeatedly to select the desired setting. → **[Set]**

5 **[Start]** → The unit will scan 1 page. Place the next document on the scanner glass and press **[Set]**. Repeat this until all the documents are scanned, then press **[Start]**.
   ● **When scanning to Multi-Function Viewer**, the scanned image will be displayed in the **[Multi-Function Viewer]** window after scanning. However, when you select PDF as a file format,

the software that is associated to open PDF files will start.
   ● **When scanning to email**, the email software will automatically start and the scanned image will be attached to a new email message.
   ● **When scanning to OCR**, the scanned image will be displayed in the OCR window after scanning.

6 After you finish scanning, press **[Stop]** to reset the setting you set in step 4.

Note:
● To stop scanning, see page 58.
● The following data formats can be selected to save the scanned images.

Scanning mode	TIFF	JPEG	BMP	PDF
"VIEWER"	●	●	●	●
"FILE"	●	●	●	●
"EMAIL"	●	●	—	●
"OCR"	●	●	●	—

If you want to scan several pages and save as a single file, select TIFF or PDF as the file format.
● The scanned image will be automatically saved in the folder selected in the **[Settings]** window. To change the folder, see page 23.
● You can set the desired scan mode for push scan beforehand (feature #493 on page 56).

Helpful hints:
The OCR software is not supplied. Install the desired third-party OCR software, then specify the path of the OCR software. To specify the path, see following.
Start Multi-Function Station → **[Settings]** → Specify the path to the OCR program file (.exe) in the **[OCR Path]** field. → **[OK]**
● **We cannot guarantee the performance of third-party OCR software.**

4.2 Scanning from a computer (Pull Scan)

4.2.1 Using Multi-Function scan application

By clicking an application icon, the selected application starts automatically after scanning.

1 Set the original (page 18).

2 Start Multi-Function Station. → **[Scan]**

3 Click the desired application icon.
  - When you click **[Custom]**, the pre-programmed application starts.
  - To cancel scanning while the documents are being scanned, click **[Cancel]**.

Note:
- You can change the scanning settings beforehand for each application (page 23).
- When you point to an application icon, the scanning settings for that application are displayed as a tooltip.
- The scanned image will be automatically saved in the folder selected in the **[Settings]** window (page 23).

4.2.2 Using Multi-Function Viewer

1 Set the original (page 18).

2 Start Multi-Function Station.

3 **[Utilities]** → **[Viewer]**
  - **[Multi-Function Viewer]** will appear.

4 Click the **[Scan]** icon in the **[Multi-Function Viewer]** window.
  - The unit's name dialog box will appear.

5 If necessary, change the scanning settings on your computer.
  - To preview the scanned image, click **[Preview]**. You can drag the frame to specify the scanning area. If you change the scan settings, click **[Preview]** to refresh the scanned image.

6 **[Scan]**
  - The scanned image will be displayed in the **[Multi-Function Viewer]** window after scanning.
  - To save the scanned image, select **[Save As ...]** from the **[File]** menu.
  - To cancel scanning while the documents are being scanned, click **[Cancel]**.

Note:
- You can display images in applications that support TIFF, JPEG, PCX, DCX and BMP formats.
- You can save images in TIFF, JPEG, PCX, DCX, BMP or PDF formats.
- If the **[Select...]** button is displayed in **[Target Device]**, click **[Select...]** to select the unit from the list, and then click **[OK]**.

The **[Select...]** button will not be displayed when there is only one printer driver installed.
- You can move, copy and delete a file or page.

4.2.3 Using other applications

Multi-Function Station includes a TWAIN and WIA compliant scanner driver. You can also scan using other applications that support TWAIN or WIA scanning. For scanning example, proceed as follows:

1 Set the original (page 18).

2 Start an application that supports TWAIN or WIA scanning.

3 **For TWAIN scanning:**
Select **[Acquire Image...]** from the **[File]** menu.
For WIA scanning:
Select **[From Scanner or Camera...]** from the **[File]** menu.
  - The unit's name dialog box will appear.

4 If necessary, change the scanning settings on your computer. → **[Scan]**
  - The scanned image will be displayed in the application window after scanning.
  - To cancel scanning while the documents are being scanned, click **[Cancel]**.

Note:
- Scanning from WIA compliant applications is only available for Windows XP, Windows Vista and Windows 7.
- Depending on the application used, the appearance may differ slightly.
- If the **[Select...]** button is displayed in **[Target Device]** when performing TWAIN scanning, click **[Select...]** to select the unit from the list, and then click **[OK]**.
The **[Select...]** button will not be displayed when there is only one printer driver installed.

5.1 Making a copy

【Copy】

【Copy Size】

【Quality】 【Set】【▼】【▲】【►】

【Stop】 【Start】

【Fax Auto Answer】
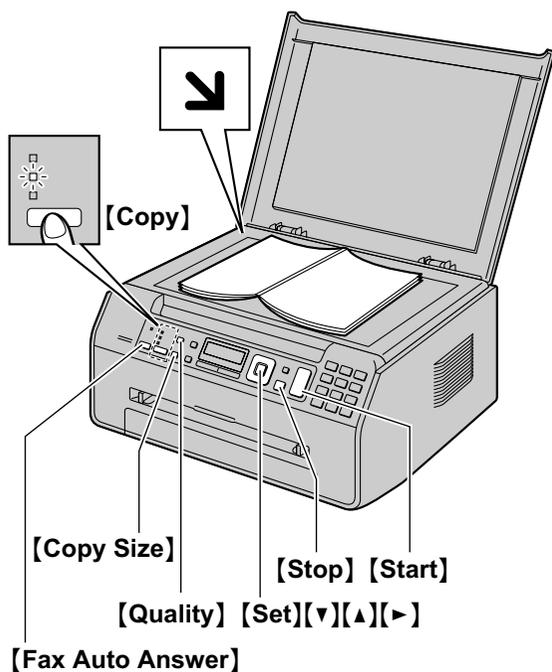
* The pictured model is KX-MB1520.

1 If the **【Copy】** light is OFF, turn it ON by pressing **【Copy】** repeatedly.

2 Set the original (page 18).

3 If necessary, change the copy size (original document size and recording paper size), resolution and contrast according to the type of document.
- To select the copy size, see page 28.
- To select the contrast, see page 28.
- To select the resolution, see page 28.

4 If necessary, enter the number of copies (up to 99).

5 **【Start】**
- The unit will start copying.

6 After you finish copying, press **【Stop】** to reset the settings you set in step 3 and 4.

Note:
- To stop copying, see page 58.
- You can change the default operation mode (feature #463 on page 49) and the timer before returning to the default operation mode (feature #464 on page 49) (KX-MB1520 only).
- If the **【Fax Auto Answer】** light is ON, the unit can receive faxes automatically even when in the copy mode (KX-MB1520 only).

To select the copy size

1. Press **【Copy Size】** repeatedly to select **"ORIGINAL SIZE"**.

2. Press **【▼】** or **【▲】** repeatedly to select the size of your original document. → **【Set】**

3. Press **【▼】** or **【▲】** repeatedly to select the size of recording paper size.
- When **"#2"** is selected, you can change the recording paper size by pressing **【►】** repeatedly.
- The appropriate zoom rate will be set automatically. Some copying features cannot be used during zoom copy. See page 29 for details.

4. **【Set】**

To select the contrast

Adjust this setting depending on the darkness or lightness of the document. 5 levels (low to high) are available.

1. Press **【Quality】** repeatedly to display **"CONTRAST"**.

2. Press **【▼】** or **【▲】** to change the contrast.

3. **【Set】**

Note:
- You can hold the previous contrast setting (feature #462 on page 49).

To select the resolution

1. Press **【Quality】** repeatedly to display **"RESOLUTION"**.

2. Press **【▼】** or **【▲】** to change the resolution.
- **"TEXT/PHOTO"**: For both text and photographs.
- **"TEXT"**: For text only.
- **"PHOTO"**: For photographs, shaded drawings, etc.

3. **【Set】**

Note:
- You can change the default resolution (feature #461 on page 54).

5.2 More copying features

● Make sure that the 【Copy】 light is ON.

5.2.1 Zoom copy (enlargement / reduction)

1. Set the original (page 18).

2. Press 【Zoom】 repeatedly to select the zoom rate that fits the size of your document and recording paper.
   – "ZOOM =100%"*1
   – "50%"
   – "200%"
   – *1 Press 【▼】 or 【▲】 repeatedly to change the zoom rate by 1 % at a time from "25%" to "400%".
     You can also enter the desired percentage specifically by using the dial keys.

3. 【Set】

4. If necessary, enter the number of copies (up to 99).
   → 【Start】

5. After you finish copying, press 【Stop】 to reset this feature.

Note:
● Zoom copy is not available for the following features:
   – Quick ID copy feature (page 30)
   – Image repeat feature (page 30)
   – Poster feature (page 31)
   – N in 1 feature (page 31)
   – Separate N in 1 feature (page 32)
● You can hold the previous zoom setting (feature #468 on page 54).
● The unit will only enlarge the right top corner of the document starting from the ↘ mark on the unit.

Example: 150 % enlarged copy

Original document   Enlarged copy

Example: 70 % reduced copy
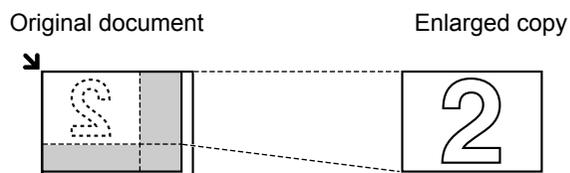
Original document   Reduced copy

5.2.2 Collate copy

The unit can collate multiple copies in the same order as the original document pages.

1. If the 【Copy】 light is OFF, turn it ON by pressing 【Copy】 repeatedly.

2. Set the original (page 18).

3. Press 【◄】 to display "COLLATE".

4. Press 【▼】 or 【▲】 repeatedly to display "ON".

5. 【Set】

6. Enter the number of copies (up to 99).

7. 【Start】
   ● The unit will scan 1 page.

8. Place the next document on the scanner glass and press 【Set】. Repeat this until you have scanned all pages, and then press 【Start】.
   ● The unit will start copying.

9. After you finish copying, press 【Stop】 to reset this feature.

Example: Making 2 copies of a 4-page original document
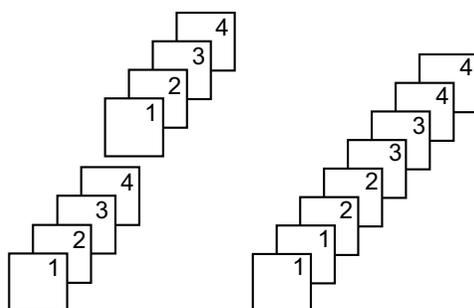
Collated pages   Uncollated pages

Note:
● The unit will store the documents into memory while collating the copies. If the memory becomes full while storing, the unit will only print out the stored pages.
● You can hold the previous collate setting (feature #469 on page 54).

5.2.3 Quick ID copy feature / Image repeat feature

Quick ID copy feature: To copy 2-sided documents onto one page.
Image repeat feature: To copy a single document repeatedly onto one page.

Note:
● The copied documents will not be reduced to fit the recording paper, and useful for copying small sized documents such as business cards.

1 Set the original (page 18).
● To make a landscape copy, set the original in landscape direction. To make a portrait copy, set the original in portrait direction.
● The scanning area changes according to the selected setting in step 4. See the following table for details. The shaded area will be scanned.

2 Press **【Page Layout】** repeatedly to select **"PAGE LAYOUT"**.

3 Press **【▼】** or **【▲】** repeatedly to select **"QUIK ID COPY"** or **"IMAGE REPEAT"**. → **【Set】**

4 Press **【▼】** or **【▲】** repeatedly to select the number of original documents from **"2 in 1"**, **"4 in 1"** or **"8 in 1"**. → **【Set】**
● For quick ID copy feature, go to the next step.
● For image repeat feature, go to step 6.

5 Press **【▼】** or **【▲】** repeatedly to select the page layout from **"LANDSCAPE"** or **"PORTRAIT"**. → **【Set】**

6 If necessary, enter the number of copies (up to 99).

7 **Quick ID copy feature:**
  1. **【Start】**
    ● The unit will scan 1 page.
  2. Place the next document on the scanner glass and press **【Set】**. Repeat this until all the documents are scanned.
    ● The unit will start copying.
    ● You can press **【Start】** anytime to start copying.

  Image repeat feature:
  【Start】

8 After you finish copying, press **【Stop】** to reset this feature.

Note:
● You can save the previous page layout setting (feature #467 on page 54).

For quick ID copy feature

Original document	Page layout
"2 in 1"	**"LANDSCAPE"** **"PORTRAIT"**
"4 in 1"	**"LANDSCAPE"** **"PORTRAIT"**
"8 in 1"	**"LANDSCAPE"** **"PORTRAIT"**

For image repeat feature

Original document	Page layout
"2 in 1"	

Original document	Page layout
"4 in 1"	
"8 in 1"	

5.2.4 Poster feature

You can make copies divided into 2 (**"1 x 2"**), 4 (**"2 x 2"**) or 9 (**"3 x 3"**) sections to make enlarged copies of the individual sections. You can then glue them together to make a poster.
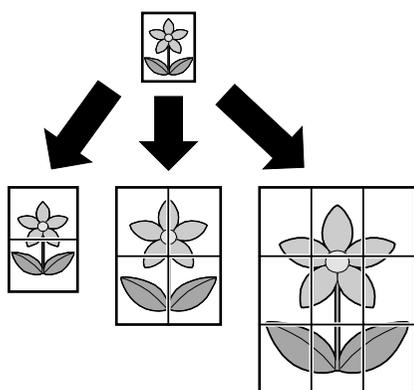
1 Set the original (page 18).

2 Press **[Page Layout]** repeatedly to select **"PAGE LAYOUT"**.

3 Press **[▼]** or **[▲]** repeatedly to select **"POSTER"**. → **[Set]**

4 Press **[▼]** or **[▲]** repeatedly to select **"1 x 2"**, **"2 x 2"** or **"3 x 3"**. → **[Set]**

5 If necessary, enter the number of copies (up to 99). → **[Start]**

6 After you finish copying, press **[Stop]** to reset this feature.

Note:
● You can save the previous page layout setting (feature #467 on page 54).

5.2.5 N in 1 feature

You can save paper by copying 2, 4 or 8 pages onto 1 page. The documents will be reduced to fit the recording paper.

1 Set the original (page 18).
● To make a portrait copy, set the original in portrait direction. To make a landscape copy, set the original in landscape direction.

2 Press **[Page Layout]** repeatedly to select **"PAGE LAYOUT"**.

3 Press **[▼]** or **[▲]** repeatedly to select **"N in 1"**. → **[Set]**

4 Press **[▼]** or **[▲]** repeatedly to select the number of original documents from **"2 in 1"**, **"4 in 1"** or **"8 in 1"**. → **[Set]**

5 Press **[▼]** or **[▲]** repeatedly to select the layout from **"PORTRAIT"** or **"LANDSCAPE"**. → **[Set]**

6 If necessary, enter the number of copies (up to 99).

7 **[Start]**
● The unit will scan 1 page.

8 Place the next document on the scanner glass and press **[Set]**. Repeat this until all the documents are scanned.
● The unit will start copying.
● You can press **[Start]** anytime to start copying.

9 After you finish copying, press **[Stop]** to reset this feature.

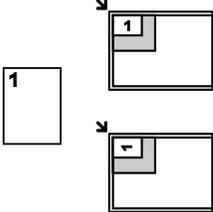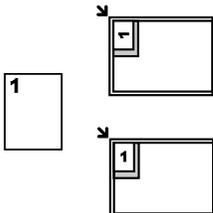| Original document	Page layout
"2 in 1"	**"PORTRAIT"** **"LANDSCAPE"**
"4 in 1"	**"PORTRAIT"** **"LANDSCAPE"**

Original document	Page layout
"8 in 1"	**"PORTRAIT"**
	1 2 3 4 5 6 7 8
	"LANDSCAPE"
	1 2 3 4 5 6 7 8

Note:
● You can save the previous page layout setting (feature #467 on page 54).

Separate N in 1 feature

You can separate an N in 1 copied document back into its original, separate pages. This feature is available for documents created using the **"2 in 1"** and **"4 in 1"** settings.

1. Set the original (page 18).

2. Press **【Page Layout】** repeatedly to select **"PAGE LAYOUT"**.

3. Press **【▼】** or **【▲】** repeatedly to select **"SEPARATE N in 1"**. → **【Set】**

4. Press **【▼】** or **【▲】** repeatedly to select the number of original documents from **"2 in 1"** or **"4 in 1"**. → **【Set】**

5. Press **【▼】** or **【▲】** repeatedly to select the page layout of the original document from **"PORTRAIT"** or **"LANDSCAPE"**. → **【Set】**

6. If necessary, enter the number of documents (up to 99). → **【Start】**

7. After you finish copying, press **【Stop】** to reset this feature.

5.2.6 Edge feature

You can set the unit not to copy the outer edges of the document without reducing the copied documents to fit the recording paper. This is useful for copying documents with dirty edges.

Note:
● This feature and page layout features cannot be used at the same time (except for N in 1).

1 Set the original (page 18).

2 Press **【Page Layout】** repeatedly to select **"EDGE"**.

3 Press **【▼】** or **【▲】** repeatedly to select **"ON"**. → **【Set】**

4 Press **【▼】** or **【▲】** repeatedly to select **"LONG EDGE"**. → **【Set】**

5 Enter the desired edge width of long edge using the dial keypad. → **【Set】**

6 Press **【▼】** or **【▲】** repeatedly to select **"SHORT EDGE"**. → **【Set】**

7 Enter the desired edge width of short edge using the dial keypad. → **【Set】**

8 If necessary, enter the number of documents (up to 99). → **【Start】**

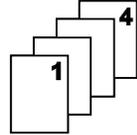**9** After you finish copying, press **【Stop】** to reset this feature.

Note:
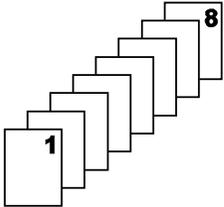● You can hold the previous edge setting (feature #473 on page 54).

5.2.7 Margin feature

You can set the unit not to copy a particular edge of the document to make a margin. This is useful for binding the copied documents.

Note:
● To automatically reduce the copies according to the set margin, see feature #474 on page 54.
● This feature and page layout features cannot be used at the same time.

1 Set the original (page 18).
  ● To make a portrait copy, set the original in portrait direction. To make a landscape copy, set the original in landscape direction.

2 Press **【Page Layout】** repeatedly to select **"MARGIN"**.

3 Press **【▼】** or **【▲】** repeatedly to select **"ON"**. → **【Set】**

4 Press **【▼】** or **【▲】** repeatedly to select the page layout from **"PORTRAIT"** or **"LANDSCAPE"**. → **【Set】**

5 Press **【▼】** or **【▲】** repeatedly to select the edge you want to set the margin for from **"TOP"**, **"RIGHT"**, **"LEFT"** or **"BOTTOM"**. → **【Set】**

6 Enter the desired margin width using the dial keypad. → **【Set】**

7 If necessary, enter the number of documents (up to 99). → **【Start】**

8 After you finish copying, press **【Stop】** to reset this feature.

Note:
● You can hold the previous margin setting (feature #475 on page 54).

5.2.8 Copy reservation

You can make a copy reservation under the following conditions:
– while the unit is printing documents from your computer.

–   while the unit is printing received fax documents
    (KX-MB1520 only).

1   Set the original (page 18).

2   While **"PC PRINTING"** or **"PRINTING"** (KX-MB1520
    only) is displayed, switch to copy mode by pressing
    [Copy] repeatedly (page 17), then press **[Start]**.

3   Make necessary settings such as number of copies,
    resolution, zoom features and page layout features.
    → **[Start]**
    ●   **"COPY RESERVED"** will be displayed. The unit
        will start copying after the current printing job.

6.1 Sending a fax manually
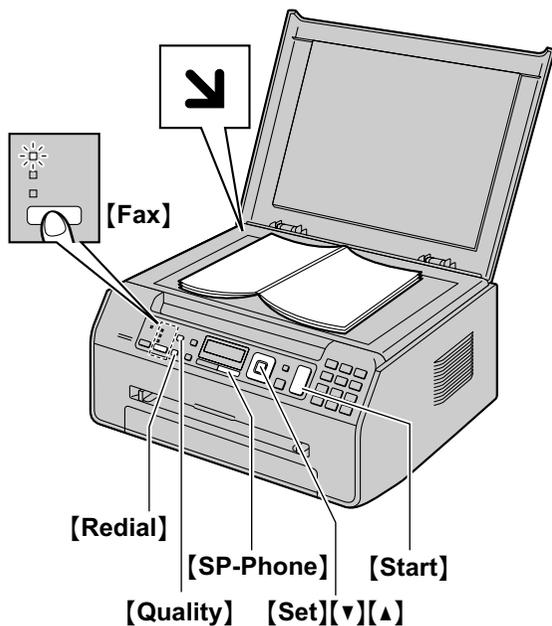
【Redial】

【SP-Phone】   **【Start】**

【Quality】   **【Set】【▼】【▲】**

1 If the **【Fax】** light is OFF, turn it ON by pressing **【Fax】** repeatedly.

2 Set the original (page 18).

3 If necessary, change the resolution and contrast according to the type of document.
  ● To select the contrast, see page 34.
  ● To select the resolution, see page 34.

4 Dial the fax number.

5 Press **【Start】** to scan the document into memory. Wait until **"SCAN:PRESS SET" "SEND:PRESS START"** is displayed.

6 To send a single page:

Press **【Start】**.

To send multiple pages:

  1. Place the next page on the scanner glass. → **【Set】**
    ● To send more pages, repeat this step.
  2. When all pages are scanned, press **【Start】**.

Note:
● To stop sending, see page 58.
● While talking to the other party using the **【SP-Phone】**, you can send a fax using the scanner glass by pressing **【Start】**, and then **【1】** (To receive a fax, press **【2】**).
● You can change the default operation mode (feature #463 on page 49) and the timer before returning to the default operation mode (feature #464 on page 49).

To select the contrast

Adjust this setting depending on the darkness or lightness of the document. 5 levels (low to high) are available.

1. Press **【Quality】** repeatedly to display **"CONTRAST"**.

2. Press **【▼】** or **【▲】** to change the contrast.

3. 【Set】

Note:
● You can save the previous contrast setting (feature #462 on page 49).

To select the resolution

1. Press **【Quality】** repeatedly to display **"RESOLUTION"**.

2. Press **【▼】** or **【▲】** to change the resolution.
  – **"STANDARD"**: For normal-sized characters.
  – **"FINE"**: For small-sized characters.
  – **"SUPER FINE"**: For very small-sized characters.
  – **"PHOTO"**: For photographs, shaded drawings, etc.

3. 【Set】
● Using the **"FINE"**, **"SUPER FINE"** and **"PHOTO"** settings will increase transmission time.

To redial the last number

【Redial】
● If the line is busy, the unit will automatically redial the number 1 time.

Note:
● To stop sending, see page 58.

Reserving the fax transmission (Dual Access)

You can reserve a fax transmission even when the unit is just receiving a fax or sending a fax from memory.
– Up to 3 reservations when sending
– Up to 4 reservations when receiving

1. Set the original during fax reception or fax memory transmission.

2. Enter the fax number using the dial keypad or phonebook.

3. 【Start】
  ● The unit will scan 1 page. Place the next document on the scanner glass and press **【Set】**. Repeat this until all the documents are scanned, then press **【Start】**.
● If the document exceeds the memory capacity, the reservation for that document will be canceled. You must send the entire document manually.

Printing a confirmation report

A confirmation report provides you with a printed record of transmission results. To print the confirmation reports, make sure that feature #401 is activated (page 50). For an explanation of the messages, see page 59.

Printing a journal report

A journal report provides you with a printed record of the 30 most recent faxes. To print it manually, see page 72. To print it automatically after every 30 new fax transmissions and receptions, make sure feature #402 is activated (page 50). For an explanation of the messages, see page 59.

6.2 Storing items for the phonebook

The unit provides the phonebook (100 items).
● Make sure that the 【Fax】 light is ON.

【Stop】【Menu】

【Set】【▼】【▲】【►】

【Fax】
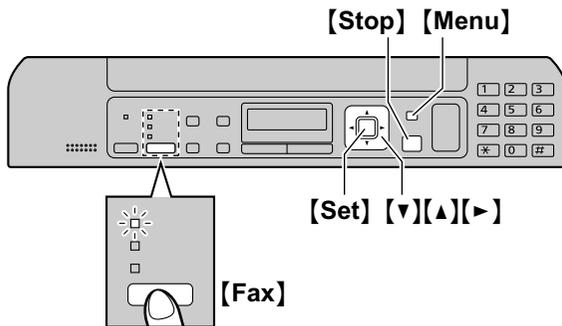
6.2.1 Storing phonebook items

1 Press 【Menu】 repeatedly to display **"PHONEBOOK SET"**. → 【►】

2 Enter the name, up to 16 characters (see page 57 for character entry). → 【Set】

3 Enter the telephone number, up to 32 digits. → 【Set】
   ● To program other items, repeat steps 2 to 3.

4 【Menu】

Note:
● A hyphen or a space entered in a telephone number counts as 2 digits.

6.2.2 Editing a stored item

1 Press 【►】.

2 Press 【▼】 or 【▲】 repeatedly to display the desired item. → 【Menu】 → 【✱】

3 Edit the name if necessary. → 【Set】

4 Edit the telephone number if necessary. → 【Set】 → 【Stop】

6.2.3 Erasing a stored item

1 Press 【►】.

2 Press 【▼】 or 【▲】 repeatedly to display the desired item. → 【Menu】 → 【♯】
   ● To cancel erasing, press 【Stop】.

3 【Set】 → 【Stop】

6.3 Sending a fax using phonebook

Before using this feature, store the desired names and telephone numbers into the phonebook (page 35).

- Make sure that the **[Fax]** light is ON.

1 Set the original (page 18).

2 If necessary, change the contrast (page 34) and the resolution (page 34).

3 Press **[►]**, then press **[▼]** or **[▲]** repeatedly to display the desired item.

4 Press **[Start]** to scan the document into memory. Wait until **"SCAN:PRESS SET" "SEND:PRESS START"** is displayed.
- To send a single page, go to step 6.
- To send multiple pages, go to the next step.

5 Place the next page. → **[Set]**
- To send more pages, repeat this step.

6 **[Start]**

To search for a name by initial

Example: "LISA"

1. Press **[►]**.

2. Press **[▼]** or **[▲]** to initiate the phonebook.

3. Press **[5]** repeatedly to display any name with the initial **"L"** (see page 57 for character entry).
- To search for symbols, press **[✳]**.

4. Press **[▼]** or **[▲]** repeatedly to display **"LISA"**.
- To stop the search, press **[Stop]**.

Fax auto redial

If the line is busy or if there is no answer, the unit will automatically redial the number 1 time.

Note:
- To stop sending, see page 58.

6.4 Sending an electronic document as a fax message from your computer

You can access the fax function from a Windows application using Multi-Function Station.

For example, to send a document created from WordPad, proceed as follows.

1 Open the document you want to send.

2 Select **[Print...]** from the **[File]** menu.
- The **[Print]** dialog box will appear.

3 Select the PCFAX unit's name as the active printer.

4 Click **[Print]**.
- The **[Send a Fax]** dialog box will appear.

5 Enter the fax number using the keypad display or the phonebook.
- To stop the operation, click **[Cancel]**.

6 **[Send]**
- The document will be sent through the unit from your computer.

Note:
- To stop sending, see page 58.
- If the document exceeds the memory capacity of the unit, sending will be canceled.
- For details, see the help file by selecting **[ ]** from Multi-Function Station.
- Click **[Select...]** to change the active unit.

To prevent fax sending to the wrong destination

1. Start Multi-Function Station. → **[PC FAX]**

2. **[Tools]** → **[Function Setup...]**

3. Select the desired setting from the **[Send]** list.
- **[Display the Fax Send confirmation for every transmission]**: The confirmation dialog box of the fax number is displayed before sending a fax.

– **[Do not enter a fax number directly]**: You can only select fax numbers stored in the phonebook.
– **[Re-enter to confirm the fax number]**: When entering the fax number using the dial keypad display, re-entry of the number is required.

4. [OK]

Note:
- For details about each function, click **[Help]**.

6.5 Receiving a fax automatically : Auto answer ON

- A4 or letter size recording paper can be used.

6.5.1 Activating FAX ONLY mode

Press **[Fax Auto Answer]** repeatedly to display **"FAX ONLY MODE"**.
- The display will show the ring count in FAX ONLY mode. If you wish to change it, press **[▼]** or **[▲]** repeatedly to display the desired setting, and press **[Set]**.
- The **[Fax Auto Answer]** light turns ON.

How faxes are received

When receiving calls, the unit will automatically answer all calls and only receive fax documents.

Note:
- The number of rings before a call is answered in FAX ONLY mode can be changed (feature #210 on page 48).

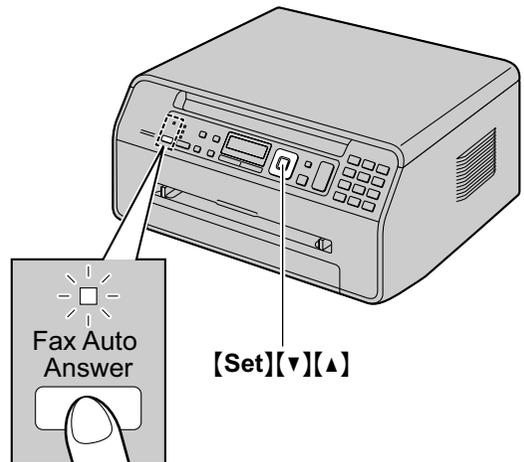**If you have subscribed to a Distinctive Ring service**
See page 44.

6.6 Receiving a fax manually : Auto answer OFF

● A4 or letter size recording paper can be used.

6.6.1 Activating TEL mode

Press 【Fax Auto Answer】 repeatedly to display **"TEL MODE"**.

● The 【Fax Auto Answer】 light turns OFF.
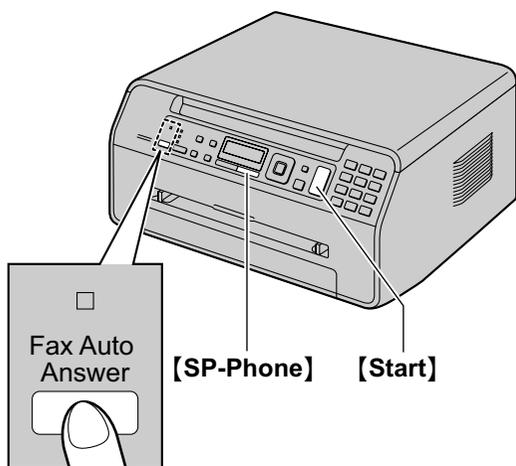
Note:
● If you do not answer the call within 10 rings, the unit will temporarily switch to fax reception. The other party can then send a fax.

How to receive phone calls and faxes
1. Press 【SP-Phone】 to answer the call.
2. When:
   – document reception is required,
   – a fax calling tone (slow beep) is heard, or
   – no sound is heard,
   press 【Start】, and then 【2】.

Note:
● To stop receiving, see page 58.

How to receive faxes with an extension telephone
If you have another telephone connected to the **[EXT]** jack or the same line (extension telephone), you can use the extension telephone to receive faxes.
1. When the extension telephone rings, lift the handset of the extension telephone.
2. When:
   – document reception is required,
   – a fax calling tone (slow beep) is heard, or
   – no sound is heard,
   press 【✱】【♯】【9】 (default fax activation code) **firmly**.
3. Replace the handset.

Note:
● To stop receiving, see page 58.
● To receive fax documents using the extension telephone, make sure remote fax activation is turned ON (feature #434 on page 52) beforehand. The default setting is ON.

6.7 Using the unit with an answering machine

6.7.1 Setting up the unit and an answering machine

1 Connect the answering machine (①).
   ● Answering machine is not supplied. The illustration is just an example.
   ● Remove the stopper (②) if attached.

2 Set the number of rings on the answering machine to 4 rings or less.
   ● This will allow the answering machine to answer the call first.

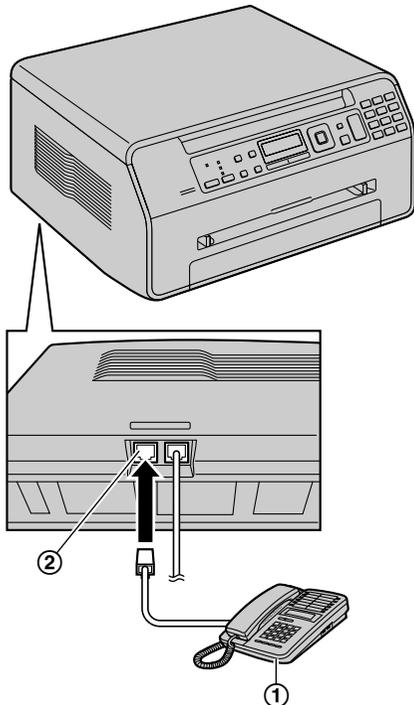**3** Record a greeting message on the answering machine.
   ● We recommend you record a message up to 10 seconds long, and not to pause for more than 4 seconds during the message. Otherwise, neither machines will function correctly.

4 Activate the answering machine.

5 Set the unit to the desired receiving mode (page 37).
   ● If you set to FAX ONLY mode, **change the ring count in FAX ONLY mode to "5 EXT. TAM" (feature #210 on page 48).**

6 Make sure each of the following is unique:
   – the remote access code of the answering machine
   – the fax activation code (feature #434 on page 52)

   – remote access to your phone company's Voice Mail (if you subscribed)

Note:
● If the call is a phone call, the answering machine will record voice messages.
   If a fax calling tone is detected, the fax machine will receive a fax automatically.
● Regarding the remote access code for the answering machine, see the operating instructions of the answering machine.

Receiving a voice message and fax document in one call

The caller can leave a voice message and send a fax document during the same call. Inform the caller of the following procedure beforehand.

1. The caller calls your unit.
   ● The answering device will answer the call.
2. The caller can leave a message after the greeting message.
3. The caller presses **[✳][♯][9]** (pre-selected fax activation code).
   ● The unit will activate the fax function.
4. The caller presses the start button to send a document.

Note:
● To use this feature, make sure remote fax activation is turned ON (feature #434 on page 52). The fax activation code can also be changed.
● If there is no room left in the memory of your answering machine, the unit may not be able to receive documents. See the operating instructions of the answering machine and erase unnecessary messages.

6.8 Junk fax prohibitor (preventing fax reception from undesired callers)

If you subscribe to Caller ID service (page 42), this feature prevents fax reception from calls that do not show caller information.

Additionally, the unit will not accept faxes originating from numbers that match the ones on a programmable junk fax prohibitor list.

Important:

● **This feature does not work if you receive faxes manually.**

6.8.1 Activating the junk fax prohibitor

1 Press **[Menu]** repeatedly to display "JUNK FAX PROH.". → **[►]**

2 Press **[▼]** or **[▲]** repeatedly to select "ON". → **[Set]**

3 Press **[Stop]** to exit.

6.8.2 Storing undesired callers

You can register up to 20 undesired numbers from the Caller ID list (page 42) if you do not wish to receive faxes from them.

1 Press **[Menu]** repeatedly to display "JUNK FAX PROH.".

2 Press **[►]** repeatedly to display "JUNK LIST SET". → **[Set]**

3 Press **[▼]** or **[▲]** repeatedly to display the party you do not want to receive faxes from. → **[Set]**

4 Press **[Stop]** 2 times to exit.

To display the junk fax prohibitor list

1. Press **[Menu]** repeatedly to display "JUNK FAX PROH.".

2. Press **[►]** repeatedly to display "JUNK LIST DISP.". → **[Set]**

3. Press **[▼]** or **[▲]** to display the items on the list.

4. Press **[Stop]** to exit.

To print the junk fax prohibitor list

1. Press **[Menu]** repeatedly to display "JUNK FAX PROH.".

2. Press **[►]** repeatedly to display "JUNK LIST PRINT". → **[Set]**

3. Press **[Stop]** to exit.

To erase an item from the junk fax prohibitor list

1. Press **[Menu]** repeatedly to display "JUNK FAX PROH.".

2. Press **[►]** repeatedly to display "JUNK LIST DISP.". → **[Set]**

3. Press **[▼]** or **[▲]** repeatedly to display the desired item. → **[◄]**

● To cancel erasing, press **[Stop]**, then press **[Menu]**.

4. **[Set]** → **[Menu]**

6.9 Receiving a fax on your computer

You can receive a fax document on your computer. The received fax document is saved as an image file (TIFF-G4 format).

Important:
- **Make sure the PC fax setting is set to "ALWAYS" or "CONNECTED" beforehand (feature #442 on page 53).**

1 Press **[Fax Auto Answer]** repeatedly to turn the auto answer setting ON (page 37).
2 Start Multi-Function Station. → **[PC FAX]**
3 When a fax call is received, your computer will receive a document through the unit.

Note:
- You can view, print or transfer the received document using your computer.
- Messages transferred to your computer will be deleted from the unit.

Viewing a received document

1. Select **[PC FAX]** from Multi-Function Station.
2. Select **[Received Log]** in **[Communication Log]**.
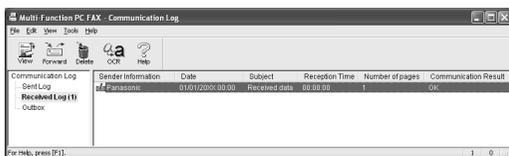
3. Click the item you want to view.
4. Click **[File]** in the menu bar, then select **[View]**, or click the **[View]** icon in the toolbar.
   - The received fax will be displayed.

If a received fax document is stored in the unit's memory

You can load the document into your computer.

1. Select **[PC FAX]** from Multi-Function Station.
2. Select **[Received Log]** in **[Communication Log]**.
3. Click **[File]** in the menu bar. → **[Receive a Fax]**
   - If the PC fax setting (feature #442 on page 53) is activated, the received fax document will be automatically transferred to the computer.

7.1 Caller ID service

This unit is compatible with the Caller ID service offered by your local telephone company. To use this unit's Caller ID features, you must subscribe to a Caller ID service.

Make sure the following ring count is set to 2 or more rings beforehand.

– FAX ring count (feature #210 on page 48)

● The name display service may not be available in some areas. For further information, please contact your telephone company.

7.1.1 How Caller ID is displayed

The calling party's name or telephone number will be displayed after the 1st ring. You have the option of whether or not to answer the call.

The unit will automatically store caller information (name, telephone number and date and time of the call) from the 30 most recent calls. It is possible to view caller information on the display (page 42) or print the entire Caller ID list (page 72).

Note:

● When caller information is received and it matches a telephone number stored in the unit's phonebook, the stored name will be displayed.

● If the unit is connected to a PBX (Private Branch Exchange) system, caller information may not be received properly. Consult your PBX supplier.

● If the unit cannot receive caller information, the following will be displayed:
   "OUT OF AREA": The caller dialed from an area which does not provide Caller ID service.
   "PRIVATE CALLER": The caller requested not to send caller information.
   "LONG DISTANCE": The caller made a long distance call.

To confirm caller information by printing the Caller ID list

– To print manually, see page 72.

– To print automatically after every 30 new calls, activate feature #216 (page 48).

7.2 Viewing and calling back using caller information

1 If the **[Fax]** light is OFF, turn it ON by pressing **[Fax]** repeatedly. → **[Caller ID]**

2 Press **[▼]** to search from the recently received caller information.
   ● If you press **[▲]**, the display order will be reversed.
   ● To send a fax, see page 34.

3 Press **[SP-Phone]** to return the call.

To change the way caller information is displayed

While displaying the desired caller information, press **[Caller ID]** repeatedly to change name/telephone number information.

7.2.1 Symbols and operations for caller information

What "∨" means

"∨" on the display means the call has already been viewed or answered.

To stop viewing

Press **[Stop]**.

To edit a telephone number before calling back/ storing

While displaying a desired caller information, press **[✳]** repeatedly. Each time you press **[✳]**, the telephone number will be changed as follows:

❶ 1 – Area code – Local telephone number ("1" added)[*1]

❷ Local telephone number only (area code omitted)

❸ Area code – Local telephone number[*1]

❹ 1 – Local telephone number ("1" added and area code omitted)

*1 If the received caller information does not include an area code, this pattern is not available.

● To store the number in phonebook, follow from step 3 of the storing procedure on page 43.

7.3 Erasing caller information

7.3.1 Erasing all caller information

1 Press **[Menu]** repeatedly to display **"CALLER SETUP"**. → **[Set]**
   ● **"CALL LIST ERASE"** will be displayed.

2 【**Set**】
- To cancel erasing, press 【**Stop**】, then 【**Menu**】.

3 【**Set**】 → 【**Stop**】

7.3.2 Erasing specific caller information

- Make sure that the 【**Fax**】 light is ON.

1 【**Caller ID**】

2 Press 【▼】 or 【▲】 repeatedly to display the desired item. → 【◄】 → 【**Set**】 → 【**Stop**】

7.4 Storing caller information into the phonebook

- Make sure that the 【**Fax**】 light is ON.

1 【**Caller ID**】

2 Press 【▼】 or 【▲】 repeatedly to display the desired item.

3 【**Menu**】

4 Press 【◄】 or 【►】. → 【**Set**】

5 【**Set**】

Note:
- To edit a name or number, see page 35.

8.1 Distinctive Ring service

When a call is made to one of your phone numbers, the telephone company sends a ring pattern to your telephone line to indicate which number the call is intended for. By setting up this unit for Distinctive Ring, you can make the unit automatically start fax reception when a call comes to the fax number.

To use this service, you must subscribe to the Distinctive Ring service offered by your local telephone company. Consult your local telephone company for availability.

8.2 Using two or more phone numbers on a single telephone line

8.2.1 Activating the Distinctive Ring feature

1 **【Menu】** → **【♯】【4】【3】【0】**

2 Press **【1】** to select **"ON"**.
   ● Press **【0】** to select **"OFF"**.

3 **【Set】** → **【Menu】**

Note:
● While the Distinctive Ring feature is activated, you cannot change the receiving mode.

How phone calls and faxes are received

If the incoming call is for the fax number, the unit will ring with the assigned ring pattern and automatically start fax reception.

If the incoming call is for the phone number, the unit will continue ringing.
● If an external telephone answering machine is connected, set the ring count of the answering machine to more than 2.

8.3 Using three or more phone numbers on a single telephone line

You may wish to use three or more phone numbers for a single telephone line. In order to distinguish which number the call was addressed to, a different ring pattern must be assigned for each number.

Example: Using three phone numbers

Telephone number	Ring pattern	Use
012 1234	Standard ring	Personal
012 5678	Double ring	Business
012 9876	Triple ring	Fax

To use one phone number for the fax, program the ring pattern assigned for the fax (feature #431 on page 44). In the example, the ring pattern assigned for fax is a triple ring, so you should program **"C"** (triple ring).

Ring pattern	Selection
Standard ring (one long ring) 1st ring 2nd ring	**【1】 "A"**
Double ring (two short rings) 1st ring 2nd ring	**【2】 "B"**
Triple ring (short-long-short rings) 1st ring 2nd ring	**【3】 "C"**
Other triple ring (short-short-long rings) 1st ring 2nd ring	**【4】 "D"**

Note:
● The default setting is **【5】 "B-D"**. The fax will respond to all calls with ring tone patterns **"B"**, **"C"** and **"D"**.

8.4 Programming the ring pattern assigned for fax

1 Set feature #430 to **"ON"** (page 44).

2 **【Menu】** → **【♯】【4】【3】【1】**

3 Press **【1】** to **【5】** to select the ring pattern assigned for fax. → **【Set】** → **【Menu】**

9.1 Programming

【Menu】

【Set】
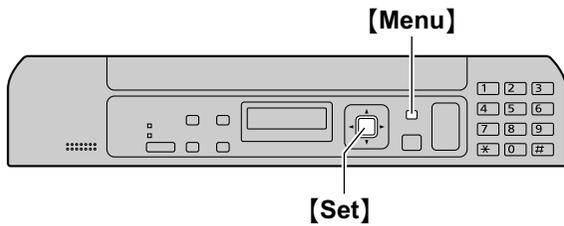
1 【Menu】

2 Press 【♯】 and the 3-digit code (page 46 to page 56).

3 Press the appropriate selection to display the desired setting.
   - This step will vary depending on the feature.

4 【Set】

5 Press 【Menu】 to exit.

9.2 Basic features

Feature/Code	Selection
Setting the quick setup **[♯][1][0][0]** **(KX-MB1520 only)**	You can print out the quick fax setup guide and select the desired receiving mode depending on your situation. **[1]** **"FAX ONLY"** (default): Use only as a fax (page 37). **[2]** **"DIST. RING"**: With the Distinctive Ring service (page 44). **[3]** **"EXT. TAM"**: With an external telephone answering machine (page 39). **[4]** **"EXT. TEL"**: Mostly phone calls (page 38). 1. **[Menu]** $\rightarrow$ **[♯][1][0][0]** 2. **[Set]** 3. Press **[Set]** again to print the quick fax setup guide. • If you do not wish to print it, press **[Stop]**. 4. Press **[1]** to **[4]** to display the desired setting. 5. **[Set]** $\rightarrow$ **[Menu]**
Setting the date and time **[♯][1][0][1]** **(KX-MB1520 only)**	Enter the date and time using the dial keypad. See page 19 for details.
Setting your logo **[♯][1][0][2]** **(KX-MB1520 only)**	Enter your logo using the dial keypad. See page 19 for details.
Setting your fax number **[♯][1][0][3]** **(KX-MB1520 only)**	Enter your fax number using the dial keypad. See page 20 for details.
Selecting the language **[♯][1][1][0]**	The display and reports will be in the selected language. **[1]** **"ENGLISH"** (default) **[2]** **"SPANISH"** 1. **[Menu]** $\rightarrow$ **[♯][1][1][0]** 2. Press **[1]** or **[2]** to select the desired language. $\rightarrow$ **[Set]** $\rightarrow$ **[Menu]**
Setting the dialing mode **[♯][1][2][0]** **(KX-MB1520 only)**	**[1]** **"PULSE"** **[2]** **"TONE"** (default) See page 17 for details.
Setting flash time **[♯][1][2][1]** **(KX-MB1520 only)**	The flash time depends on your telephone exchange or host PBX. **[0]** **"900ms"** **[1]** **"700ms"** (default) **[2]** **"600ms"** **[3]** **"400ms"** **[4]** **"300ms"** **[5]** **"250ms"** **[6]** **"200ms"** **[7]** **"160ms"** **[8]** **"110ms"** **[9]** **"100ms"** **[✱]** **"90ms"** **[♯]** **"80ms"** **Note:** • If the unit is connected via a PBX, PBX functions (transferring a call, etc.) might not work correctly. Consult your PBX supplier for the correct setting.

Feature/Code	Selection
Setting the ADSL mode 【♯】【1】【2】【4】 **(KX-MB1520 only)**	When you use a DSL/ADSL line, this feature improves the reliability by reducing the transmission speed. 【0】 **"OFF"** (default) 【1】 **"ON"** **Note:** ● Calling charges may be higher than usual.
Changing the LCD display contrast 【♯】【1】【4】【5】	【1】 **"NORMAL"** (default) 【2】 **"DARKER"**
Selecting the scale 【♯】【1】【4】【7】	【1】 **"MILLIMETERS"** 【2】 **"INCHES"** (default) **Note:** ● The selected scale will be used when measurements are shown on the unit's display.
Changing the password for feature programming via remote operation 【♯】【1】【5】【5】	1. **【Menu】** → 【♯】【1】【5】【5】 → **【Set】** 2. Enter the current password. → **【Set】** ● The default password is **"1234"**. 3. Enter a new 4-digit password using 0-9. → **【Set】** 4. Enter the new password again. → **【Set】** → **【Menu】** **Note:** ● It is recommended that you change this password from the default password.
Setting the toner maintenance time 【♯】【1】【5】【8】 **(KX-MB1520 only)**	The unit will automatically activate for maintenance, once every 24 hours. Because this is to prevent the toner from solidifying, the noise that the unit makes during maintenance cannot be stopped. However, if the unit's noise bothers you, you can change the start time. 1. **【Menu】** → 【♯】【1】【5】【8】 → **【Set】** 2. Enter the maintenance start time. ● The default time is **"12:00PM"**. ● Press **【✱】** repeatedly to select **"AM"** or **"PM"**. 3. **【Set】** → **【Menu】**
Resetting all features (and deleting all data in memory) 【♯】【1】【5】【9】	Before you dispose of, transfer or return the product, activate this feature to reset all programmable features and to delete all data stored in memory. **KX-MB1520 only:** Phonebook (or caller information) and fax transmission data (journal report and faxes received in memory) will be deleted. 【0】 **"NO"** (default) 【1】 **"YES"** ● Disconnect the telephone line cord (KX-MB1520 only) and USB cable before activating this feature. **To reset all features:** 1. **【Menu】** → 【♯】【1】【5】【9】 2. Press **【1】** to select **"YES"**. → **【Set】** 3. Press **【1】** to select **"YES"**. → **【Set】**
Setting the ringer pattern 【♯】【1】【6】【1】 **(KX-MB1520 only)**	【1】 **"A"** (default) 【2】 **"B"** 【3】 **"C"**

Feature/Code	Selection

Setting the beep sounds and keytones 【♯】【1】【6】【5】	**[0]** **"OFF"**: Deactivates this feature.
	 [1] **"ON"** (default): You will hear confirmation/error beep sounds and keytones.
	
	 Note:
	 ● Even if this feature is set to **"OFF"**, the unit beeps in some cases. For example:
	   – the memory reception alert setting (feature #437 on page 52) is activated (KX-MB1520 only).
	   – the front cover is opened.

Setting the off-hook alert 【♯】【1】【7】【1】 **(KX-MB1520 only)**	To alert you with a beeping sound when the telephone line has been left off-hook for more than 1 minute without dialing. **[0]** **"OFF"**: Deactivates this feature. **[1]** **"ON"** (default): You have to press **【Stop】** or **【SP-Phone】** to stop the beeping sound.
Changing the ring count in FAX ONLY mode 【♯】【2】【1】【0】 **(KX-MB1520 only)**	**[1]** **"1"** **[2]** **"2"** **[3]** **"3"** (default) **[4]** **"4"** **[5]** **"5 EXT. TAM"** (External Telephone Answering Machine) **Note:** ● If you are using the unit with an answering machine, set to more than 4 (page 39).
Setting the Caller ID list to print automatically 【♯】【2】【1】【6】 **(KX-MB1520 only)**	**[0]** **"OFF"** (default): The unit will not print the Caller ID list, but will keep records of the information for the last 30 callers. **[1]** **"ON"**: The unit will print the Caller ID list automatically after every 30 new calls (page 42).
Setting the time adjustment 【♯】【2】【2】【6】 **(KX-MB1520 only)**	Using this feature, the unit's date and time setting will be automatically adjusted when caller information is received. **[1]** **"AUTO"** (default): The date and time setting will be automatically adjusted. **[2]** **"MANUAL"**: Deactivates this feature.
Setting the recording paper size in the paper input tray 【♯】【3】【8】【0】	**[1]** **"LETTER"** (default): Letter-size paper **[2]** **"A4"**: A4-size paper **[6]** **"16K"**: 16K-size paper **Note:** ● When **"16K"** is selected, received fax documents will be stored in memory (KX-MB1520 only).
Setting the recording paper size in the manual input tray 【♯】【3】【8】【1】	**[1]** **"LETTER"** (default): Letter-size paper **[2]** **"A4"**: A4-size paper **[3]** **"LEGAL"**: Legal-size paper **[4]** **"B5(ISO)"**: B5(ISO)-size paper **[5]** **"B5(JIS)"**: B5(JIS)-size paper **[6]** **"16K"**: 16K-size paper **[7]** **"8.5X13"** **[8]** **"8.5X13.4"** **Note:** ● When you set feature #147 to **"MILLIMETERS"**, the numbers are displayed in millimeters.

Feature/Code	Selection
Setting the recording paper type for paper input tray **[♯][3][8][3]**	**[1]** "PLAIN PAPER" (default): 75 g/m² to 90 g/m² (20 lb to 24 lb) paper. **[2]** "THIN PAPER": 64 g/m² to 75 g/m² (17 lb to 20 lb) paper. **Note:** • This setting will be deactivated when printing from a computer. To set the recording paper type for printing, see page 24.
Setting the recording paper type for manual input tray **[♯][3][8][4]**	**[1]** "PLAIN PAPER" (default): 75 g/m² to 90 g/m² (20 lb to 24 lb) paper. **[2]** "THIN PAPER": 64 g/m² to 75 g/m² (17 lb to 20 lb) paper. **[3]** "THICK PAPER": 90 g/m² to 165 g/m² (24 lb to 44 lb) paper. **Note:** • This setting will be deactivated when printing from a computer. To set the recording paper type for printing, see page 24.
Setting the waiting time for the power save mode **[♯][4][0][3]**	To set the length of time before the unit enters power save mode. **[1]** "5min" (default): 5 minutes **[2]** "15min": 15 minutes **[3]** "30min": 30 minutes **[4]** "1h": 1 hour **Note:** • When in power save mode, the unit needs to preheat the fuser unit before it can begin printing.
Holding the previous contrast setting **[♯][4][6][2]**	**[0]** "DISABLED" (default): Deactivates this feature. **[1]** "ENABLED": The unit will hold the previous setting. **Note:** • The previous setting will be held individually for copying. • The previous setting will be held individually for sending faxes (KX-MB1520 only).
Setting the default operation mode **[♯][4][6][3]** **(KX-MB1520 only)**	To select the default operation mode when the selected time of the mode timer (feature #464) passes. **[1]** "COPY" (default): Copy mode is selected as default. **[2]** "FAX": Fax mode is selected as default. **Note:** • You cannot select the scan mode using this feature.
Setting the default operation mode timer **[♯][4][6][4]** **(KX-MB1520 only)**	To set the timer before returning to the default operation mode (feature #463). **[0]** "OFF": Deactivates this feature. **[1]** "30s": 30 seconds **[2]** "1min" (default): 1 minute **[3]** "2min": 2 minutes **[4]** "5min": 5 minutes
Setting toner save feature **[♯][4][8][2]**	**[0]** "OFF" (default): Deactivates this feature. **[1]** "ON": The toner cartridge will last longer. **Note:** • This feature may lower the print quality by reducing toner consumption. • This setting is valid for copying, and when the unit prints reports/lists. • This setting is invalid for printing received faxes (KX-MB1520 only).

9.3 Fax features (KX-MB1520 only)

Feature/Code	Selection
Erasing all items stored for the phonebook **[♯][2][8][9]**	**[0]** "NO" (default) **[1]** "YES" • Disconnect the telephone line cord and USB cable before activating this feature. **To erase all items:** 1. **[Menu]** → **[♯][2][8][9]** 2. Press **[1]** to select "YES". → **[Set]** 3. Press **[1]** to select "YES". → **[Set]** → **[Menu]**
Printing a confirmation report **[♯][4][0][1]**	**[0]** "OFF": Confirmation reports will not be printed. **[1]** "ON": A confirmation report will be printed after every fax transmission. **[2]** "ERROR" (default): A confirmation report will be printed only when fax transmission fails.
Setting the journal report to print automatically **[♯][4][0][2]**	**[0]** "OFF": The unit will not print a journal report, but will keep a record of the last 30 fax transmissions and receptions. **[1]** "ON" (default): The unit will print a journal report automatically after every 30 new fax transmissions and receptions (page 35).
Sending documents overseas **[♯][4][1][1]**	If you cannot send a fax overseas even if the number is correct and the line is connected, activate this feature before sending the fax. This feature improves the reliability by reducing the transmission speed. **[0]** "OFF": Deactivates this feature. **[1]** "NEXT FAX": This setting is effective only for the next attempted fax transmission. After transmission, the unit will return to the previous setting. **[2]** "ERROR" (default): When the previous fax transmission fails and you wish to re-send the document. **Note:** • Calling charges may be higher than usual.

Feature/Code	Selection

Sending a fax at a specific time [♯][4][1][2]	This feature allows you to take advantage of low-cost calling hours offered by your telephone company. This feature can be set up to 24 hours in advance of the desired time.
	[0] "OFF" (default)
	[1] "ON"
	To send a document:
	1. If the **[Fax]** light is OFF, turn it ON by pressing **[Fax]** repeatedly.
	2. Set the original (page 18).
	3. If necessary, change the contrast (page 34) and the resolution (page 34).
	4. **[Menu]** → **[♯][4][1][2]**
	5. Press **[1]** to select "ON". → **[Set]**
	6. Enter the fax number.
	    ● To enter an item using phonebook, see step 3 on "6.3 Sending a fax using phonebook", page 36. (When using phonebook, you do not have to press **[►]** before pressing **[▼]** or **[▲]**.)
	7. **[Set]**
	8. Enter the transmission start time.
	    ● Press **[✱]** repeatedly to select **"AM"** or **"PM"**.
	9. **[Set]** → **[Start]**
	    ● The document will be scanned into memory. The unit will then send the data at the specified time. You cannot use this feature for another fax transmission until the former sending is completed.
	Note:
	● To cancel this setting after programming, press **[Stop]** while the unit is idle, and then press **[Set]**.

Setting the Error Correction Mode (ECM) [♯][4][1][3]	This feature is available when the sending / receiving fax machines are ECM compatible. **[0]** "OFF": Deactivates this feature. **[1]** "ON" (default): Fax transmission / reception will be carried out so that the errors do not occur.
Setting the connecting tone [♯][4][1][6]	If you often have trouble when sending faxes, this feature allows you to hear connecting tones: fax tone, ring back tone and busy tone. You can use these tones to confirm the status of the other party's machine. **[0]** "OFF": Deactivates this feature. **[1]** "ON" (default): You will hear connecting tones. **Note:** ● If the ring back tone continues, the other party's machine may not be a fax machine or may have run out of paper. Check with the other party. ● The connecting tone volume cannot be adjusted.
Setting the maximum fax speed [♯][4][1][8]	**[1]** "14.4kbps" **[2]** "33.6kbps" (default) **Note:** ● The fax speed maybe lower than the selected speed depending on your line.
Confirming the destination before sending a fax [♯][4][2][0]	**[0]** "OFF" (default): Deactivates this feature. **[1]** "ON": You can send a fax after confirming the destination. When the displayed destination is correct, press **[Start]** to send the fax.

Feature/Code	Selection
Setting dial keypad entry restriction 【♯】【4】【2】【1】	【0】 **"OFF"** (default): Deactivates this feature. 【1】 **"ON"**: If you do not wish to dial a fax number manually using the dial keypad, activate this feature. **Note:** • If you select **"ON"**, you cannot make redial calls to fax numbers entered using the dial keypad. • If you select **"ON"**, the fax number re-entry setting (feature #422 on page 52) will be deactivated.
Setting the fax number re-entry before sending 【♯】【4】【2】【2】	【0】 **"OFF"** (default): Deactivates this feature. 【1】 **"ON"**: If you dial a fax number manually using the dial keypad, you have to re-enter the number and press **【Start】**. When the 2nd entry number matches the 1st entry number, you can send the fax.
Activating the Distinctive Ring feature 【♯】【4】【3】【0】	【0】 **"OFF"** (default) 【1】 **"ON"** See page 44 for details.
Setting the ring pattern for fax (Distinctive Ring feature) 【♯】【4】【3】【1】	【1】 **"A"** 【2】 **"B"** 【3】 **"C"** 【4】 **"D"** 【5】 **"B-D"** (default) See page 44 for details.
Setting auto reduction feature 【♯】【4】【3】【2】	To receive a fax document that is longer than your recording paper. 【0】 **"OFF"**: Deactivates this feature. 【1】 **"ON"** (default): The unit will fit received documents onto your recording paper.
Changing the fax activation code 【♯】【4】【3】【4】	If you wish to use an extension telephone to receive faxes, activate this feature and program the activation code. **Important:** • **The fax activation code must be different from the code that you programmed on the answering machine.** 【0】 **"OFF"** 【1】 **"ON"** (default) 1. **【Menu】** → 【♯】【4】【3】【4】 2. Press **【1】** to select **"ON"**. → **【Set】** 3. Enter your code from 2 to 4 digits, using 0-9, 【✱】 and 【♯】. • The default code is **"✱♯9"**. 4. **【Set】** → **【Menu】**
Setting the memory reception alert 【♯】【4】【3】【7】	To alert you with a beeping sound when a received fax document is stored into memory. 【0】 **"OFF"**: Deactivates this feature. 【1】 **"ON"** (default): You will hear a beeping sound. **Note:** • If documents are stored into memory due to some printing problem, the beeps will continue until you solve the problem. If a message is displayed, see page 60 to page 61 for directions on printing out the stored documents. Make sure the unit is supplied with enough paper to print the stored document.

Feature/Code	Selection
Setting friendly reception **[♯][4][3][8]**	To receive a fax automatically when you answer a call and hear a fax calling tone (slow beep). **[0]** "OFF": You have to press **[Start]**, and then **[2]** for fax reception. **[1]** "ON" (default): You do not have to press **[Start]**, and then **[2]** for fax reception.
Receiving a fax into the computer **[♯][4][4][2]**	If you wish to receive a fax into a computer, activate this feature and run **[PC FAX]** from Multi-Function Station. **[0]** "OFF" (default): Deactivates this feature. **[1]** "ALWAYS": If the unit recognizes the connection to the computer, it will transfer received documents to the computer. If the unit cannot recognize the connection, it will store received documents into memory, and then transfer the data after recognition of the computer connection. **[2]** "CONNECTED": If the unit recognizes the connection to the computer, it will transfer received documents to the computer. If the unit cannot recognize the connection, it will print the data.
Setting notification of fax reception **[♯][4][5][1]**	**[0]** "OFF" (default): Deactivates this feature. **[1]** "ON": The computer connected to your unit using USB will receive a notification when a fax document is received.
Erasing all received fax memory **[♯][4][5][8]**	**[0]** "NO" (default) **[1]** "YES" ● Disconnect the telephone line cord and USB cable before activating this feature. **To erase all received fax:** 1. **[Menu]** → **[♯][4][5][8]** 2. Press **[1]** to select "YES". → **[Set]** → **[Set]** → **[Menu]**
Resetting fax features to their default settings **[♯][4][5][9]**	**[0]** "NO" (default) **[1]** "YES" **To reset the fax features:** 1. **[Menu]** → **[♯][4][5][9]** 2. Press **[1]** to select "YES". → **[Set]** → **[Set]** → **[Menu]**

9.4 Copy features

Feature/Code	Selection
Setting the input tray to use for copy **[#][4][6][0]**	**[1] "#1"** (default): The paper input tray is selected. The displayed paper size depends on the recording paper size setting (feature #380 on page 48). **[2] "#2"**: The manual input tray is selected. The displayed paper size depends on the recording paper size setting (feature #381 on page 48).
Changing the default copy resolution **[#][4][6][1]**	To change the default resolution setting for copying. **[1] "TEXT/PHOTO"** (default): For documents containing both text and photographs. **[2] "TEXT"**: For documents containing only text. **[3] "PHOTO"**: For documents containing photographs, shaded drawings, etc.
Holding the previous page layout setting **[#][4][6][7]**	**[0] "DISABLED"** (default): Deactivates this feature. **[1] "ENABLED"**: The unit will hold the previous setting.
Holding the previous zoom setting **[#][4][6][8]**	**[0] "DISABLED"** (default): Deactivates this feature. **[1] "ENABLED"**: The unit will hold the previous setting.
Holding the previous collate setting **[#][4][6][9]**	**[0] "DISABLED"** (default): Deactivates this feature. **[1] "ENABLED"**: The unit will hold the previous setting.
Holding the previous edge setting **[#][4][7][3]**	**[0] "DISABLED"** (default): Deactivates this feature. **[1] "ENABLED"**: The unit will hold the previous setting.
Setting the frame margin **[#][4][7][4]**	**[0] "DISABLED"** (default): Deactivates this feature. **[1] "ENABLED"**: Your copies will be automatically reduced according to the margin setting. However, if you change the zoom rate (page 29), your copies will not be automatically reduced.
Holding the previous margin setting **[#][4][7][5]**	**[0] "DISABLED"** (default): Deactivates this feature. **[1] "ENABLED"**: The unit will hold the previous setting.

9.5 PC print features

Feature/Code	Selection
Changing the data timeout setting **【♯】【7】【7】【4】**	The unit will automatically print the remaining data in memory when the computer does not send data to the unit during the set time. **1.** 【Menu】 → 【♯】【7】【7】【4】 → 【Set】 **2.** Enter the desired data timeout setting from **"005"** seconds to **"600"** seconds, using the dial keypad. ● The default setting is **"060"** seconds. **3.** 【Set】 → 【Menu】
Setting mutual A4/letter print **【♯】【7】【7】【6】**	This feature allows printing in A4-size even if letter-size recording paper is loaded in the paper input tray, and vice versa. **【0】 "OFF"**: Deactivates this feature. **【1】 "ON"** (default): Printing is possible between A4/letter-size.

9.6 Scan features

Feature/Code	Selection
Setting the scan mode for Push Scan [♯][4][9][3]	**[1]** "VIEWER" (default): The scanned image will be displayed in the **[Multi-Function Viewer]** window. **[2]** "FILE": The scanned image will be saved as a file. **[3]** "EMAIL": The scanned image will be saved for email attachment. **[4]** "OCR": The scanned image will be displayed in the OCR window. **Note:** ● The OCR software is not supplied. To use OCR software, you need to specify the path of the OCR software (page 26).
Holding the previous scanning parameter for Push Scan [♯][4][9][4]	**[0]** "DISABLED" (default): Deactivates this feature. **[1]** "ENABLED": The unit will hold the previous scan settings for each mode of push scan.

10.1 Character entry (KX-MB1520 only)

The dial keypad is used to enter characters and numbers.

– Press 【◄】 or 【►】 to move the cursor.
– Press the dial keys to enter characters and numbers.
– Press 【Stop】 to erase the character or number highlighted by the cursor. Press and hold 【Stop】 to erase all characters or numbers.
– To enter another character located on the same dial key, press 【►】 to move the cursor to the next space, then press the appropriate dial key.

Keypad	Characters
【1】	1 . _ – [ ] { } + / = , ` : ; ? |
【2】	A B C a b c 2
【3】	D E F d e f 3
【4】	G H I g h i 4
【5】	J K L j k l 5
【6】	M N O m n o 6
【7】	P Q R S p q r s 7
【8】	T U V t u v 8
【9】	W X Y Z w x y z 9
【0】	0 @ ( ) < > ! " # $ % & \ * ^ ' →
【♯】	To switch between uppercase or lowercase letters.
【Flash】	Hyphen
【Mute】	To insert a space.
【Stop】	To delete a character.

To select characters using 【▼】 or 【▲】

Instead of pressing the dial keys, you can select characters using 【▼】 or 【▲】.

1. Press 【▼】 repeatedly to display the desired character. Characters will be displayed in the following order:
   ① Uppercase letters
   ② Numbers
   ③ Symbols
   ④ Lowercase letters
   ● If you press 【▲】, the order will be reversed.
2. Press 【►】 to insert the displayed character.
3. Return to step 1 to enter the next character.

10.2 Status of the unit

10.2.1 Using Remote Control

You can easily operate the following functions from your computer.
– Programming the features (page 46)
KX-MB1520 only:
– Storing, editing or erasing items in phonebook (page 35)
– Viewing items in the journal report (page 35)
– Saving the journal report to your computer
– Viewing items in the Caller ID list (page 42)
– Storing caller information into phonebook (page 43)
– Saving the Caller ID list on your computer

1 Start Multi-Function Station. → **[Remote Control]**
   ● The **[Multi-Function Remote Control]** window will appear.
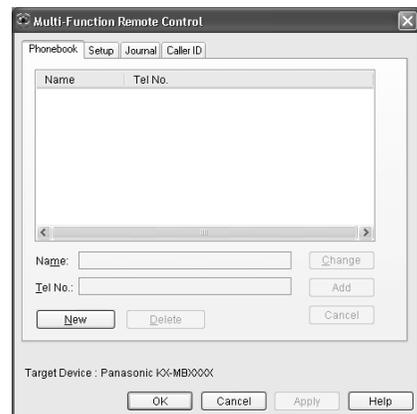
* The pictured model is KX-MB1520.

2 Select the desired tab (KX-MB1520 only).
   ● The latest data in the unit will be displayed.

3 Perform the desired operation.
   ● For details about each function, click **[Help]**.
   ● To stop the operation, click **[Cancel]**.

4 **[OK]**
   ● You can also click **[Apply]** to continue the next operation without closing the window.

5 Enter the password (feature #155 on page 47). → **[OK]**
   ● The new data will be transferred to the unit and the window will close.

Note:
● Some of the features cannot be programmed from your computer.
● When another person is adjusting stored data in the unit, it may be overwritten. Make sure the unit is not currently being used for the same function.

10.2.2 Using Device Monitor

You can confirm the setting information and current status of the unit from your computer.

1 Start Multi-Function Station.

2 **[Utilities]** → **[Device Monitor]**
- The **[Device Monitor]** window will appear.

3 Confirm the status of the unit.
[Status]: Current status of the unit

Note:
- Additional information (toner and recording paper status, unit information, etc.) will be displayed in **[Status]** tab by clicking **[Advanced Information]**.
- You can update the status of the unit by clicking **[Refresh]**.
- If a printing error occurs, the Device Monitor will start automatically and display the error information.
- For details, see the help file by selecting **[ ]** from Multi-Function Station.

10.3 Canceling the operations

You can cancel the current operation from the unit. You can also select the desired operation to cancel.

1 **[Stop]**
- **"USER STOPPED"** is displayed.
- If **"USER STOPPED"** is not displayed, go to step 2.

2 **To cancel printing:**
Press **[Stop]** repeatedly to display **"STOP PRINTING?"**.

To cancel scanning (KX-MB1520 only):
Press **[Stop]** repeatedly to display **"STOP SCANNING?"**.

To cancel copying:
Press **[Stop]** repeatedly to display **"STOP COPYING?"**.

To cancel sending or receiving faxes (KX-MB1520 only):
Press **[Stop]** repeatedly to display **"STOP FAX?"**.

To cancel fax redialing (KX-MB1520 only):
Press **[Stop]** repeatedly to display **"SEND CANCELED?"**.

3 **[Set]**

11.1 Report messages (KX-MB1520 only)

To indicate the unit's fax transmission/reception status, one of the following messages will be printed on the confirmation and journal reports (page 34).

Message	Code	Cause & Solution
COMMUNICATION ERROR	40-42 46-72 FF	● A transmission or reception error occurred. Try again or check with the other party.
	43 44	● A line problem occurred. Connect the telephone line cord to a different jack and try again. ● An overseas transmission error occurred. Try using the overseas mode (feature #411 on page 50).
ERROR-NOT YOUR UNIT	53 54 59 70	● A transmission or reception error occurred because of a problem with the other party's fax machine. Check with the other party.
JUNK FAX PROH. REJECT	-----	● The junk fax prohibitor feature of this unit rejected fax reception.
MEMORY FULL	-----	● The memory is full of received documents due to a lack of recording paper or a recording paper jam. Load paper (page 13) or remove the jammed paper (page 68). ● If the PC fax setting (feature #442 on page 53) is set to **"ALWAYS"**, check the connection between the computer and the unit.
OTHER FAX NOT RESPONDING	-----	● The other party's fax machine is busy or has run out of recording paper. Try again. ● The other party's fax machine rings too many times. Send the fax manually (page 34). ● The other party's machine is not a fax machine. Check with the other party. ● The number you dialed is not in service.
PRESSED THE 'Stop' KEY	-----	● **[Stop]** was pressed and fax communication was canceled.
THE COVER WAS OPENED	-----	● The front cover was opened. Close it and try again.
OK	-----	● Fax transmission or reception was successful.

11.2 Display messages

To indicate the unit's status, one or more of the following messages will appear on the display.

Display	Cause & Solution
"CALL SERVICE"	● There is something wrong with the unit. Contact our service personnel.
"CHANGE CARTRIDGE"	● The toner cartridge is not inserted properly. Re-insert it correctly (page 10). ● There is something wrong with the toner cartridge. Replace the toner cartridge.
"CHECK CARTRIDGE"	● The toner cartridge is not inserted properly. Re-insert it correctly (page 10).
"CHECK PAPER #1"	● Recording paper is not installed or the paper input tray has run out of paper. Install paper (page 13). ● Recording paper was not fed into the unit properly. Re-insert the recording paper (page 70). ● The paper input tray is not installed or is not inserted completely. Insert the paper input tray into the unit.
"CHECK PAPER TRAY #1"	● The loaded recording paper is not the appropriate size. Load recording paper of the size that is shown on the display. ● If this message is often displayed, also change the recording paper size setting (feature #380 on page 48). ● The recording paper size setting (feature #380 on page 48) is set to **"16K"**, so received faxes have been stored into memory. Change the recording paper size setting and load the appropriate recording paper. **Note:** ● **"#1"**: Check the paper input tray. The displayed paper size depends on the recording paper size setting (feature #380 on page 48). ● **"#2"**: Check the manual input tray. The displayed paper size depends on the recording paper size setting (feature #381 on page 48).
"CHECK PICK UP INPUT TRAY #2"	● Recording paper was not fed into the unit properly. Load the paper again (page 70).
"COOL DOWN FUSER"	● The unit is cooling down the fuser unit. Wait for a while.
"DRUM LIFE LOW REPLACE SOON"	● The drum inside the toner cartridge is reaching the end of its life. Replace the toner cartridge as soon as possible.
"DRUM LIFE OVER CHANGE CARTRIDGE"	● The drum inside the toner cartridge has finished its service life. Replace the toner cartridge immediately. **Note:** ● As a temporary measure, you can press **[Start]** to continue printing. However, the printing quality may be poor, so we do not recommend continuous use of the finished cartridge.

"FAX IN MEMORY"	● The unit has a document in memory. See the other displayed message instructions to print out the document. For fax memory capacity, see page 73.
	● If the PC fax setting (feature #442 on page 53) is set to **"ALWAYS"**,
	  – check the connection between the computer and the unit.
	  – check that the computer is turned ON.

"FRONT COVER OPEN"	● The front cover is open. Close it.
"KEEP COPYING"	● Copying has stopped due to some existing problem (Example: a lack of recording paper or a recording paper jam). See the other displayed message instructions to continue copying.
"LOW TEMP."	● The inside of the unit is extremely cold and cannot be operated. Use the unit in a warmer area.

Display	Cause & Solution
"MEMORY FULL"	• When performing memory transmission, the document being stored exceeded the memory capacity of the unit. Send the entire document manually. • When making a copy, the document being stored exceeded the memory capacity of the unit. Press **[Stop]** to clear the message. Divide the document into sections.
"MODEM ERROR"	• There is something wrong with the unit's modem. Contact our service personnel.
"NO FAX REPLY"	• The other party's fax machine is busy or has run out of recording paper. Try again.
"OUT OF PAPER INPUT TRAY #2"	• Recording paper is not loaded in the manual input tray. Load paper (page 16).
"PAPER IN TRAY #2"	• The recording paper is installed in the manual input tray (page 16).
"PAPER JAMMED" **"OPEN REAR COVER"** **"OPEN FRONT COVER"**	• A recording paper jam occurred. Remove the jammed paper (page 68).
"PC FAIL OR BUSY"	• The cable between the unit and the computer is not connected correctly. Check the connections (page 12, 21). • The computer has some kind of problem. (Example: Make sure that the computer is turned ON.) • The software is not running on the computer. Restart the software and try again.
"PHONEBOOK FULL"	• There is no space to store new items in the phonebook. Erase unnecessary items (page 35).
"PLEASE WAIT"	• The unit is warming up. Wait for a while.
"REDIAL TIME OUT"	• The other party's fax machine is busy or has run out of recording paper. Try again.
"REMOVE PAPER IN INPUT TRAY #2"	• The recording paper is installed in the manual input tray when trying to receive faxes or print reports. Remove the recording paper from manual input tray.
"RX MEMORY FULL"	• The memory is full of received documents due to a lack of recording paper or a recording paper jam. Load paper (page 13) or remove the jammed paper (page 68). • If the PC fax (feature #442 on page 53) is set to **"ALWAYS"**, – check the connection between the computer and the unit. – check that the computer is turned ON.
"TONER EMPTY" **"CHANGE CARTRIDGE"**	• The toner is empty. Replace the toner cartridge immediately.
"TONER LOW" **"REPLACE SOON"**	• The toner is reaching the end of its life. You will need to replace the toner cartridge soon.
"TRANSMIT ERROR"	• A transmission error occurred. Try again.

11.3 When a function does not work

11.3.1 General

Problem	Cause & Solution
The unit does not work.	● Check the connections (page 12, 21).
The output tray becomes full quickly or the recording paper does not stack properly on the output tray.	● High humidity may cause the recording paper to curl. Try turning the paper over and re-inserting it. If the curl on the paper is heavy, please remove it from the output tray. If you still have this problem, contact our service personnel.
I cannot adjust the volume, display items stored in the phonebook or display Caller ID information (KX-MB1520 only).	● The unit is set to scan mode or copy mode. Set the unit to fax mode by pressing **[Fax]** repeatedly (page 17). If you still have this problem, contact our service personnel.
A printing error is displayed while using PC FAX (KX-MB1520 only) and Remote Control.	● The printer driver is used for PC FAX and Remote Control. Transmission errors will be displayed as printing errors.
Multi-Function Station does not work properly.	● If the USB cable is connected to a USB hub, connect the cable directly to the USB port on your computer. ● Make sure you have installed the latest Service Pack available for the version of Windows installed on your computer. See the Microsoft web site for details. ● Check that your computer has enough memory and hard disk space. If your computer warns that there is insufficient memory, close other applications. If there is not enough space on the hard disk, delete unnecessary files. ● Uninstall Multi-Function Station once, and re-install it.
I cannot install or uninstall Multi-Function Station.	● Some of the files needed to install or uninstall Multi-Function Station may be corrupted. Use the MfsCleaner utility (found on the supplied CD-ROM) to solve the problem. **1.** Insert the supplied CD-ROM into your CD-ROM drive. ● The setup program will start automatically. **2. [Tools]** → **[Cleanup Tool]** ● The **[MfsCleaner]** window will appear. **3.** Click **[Clean]**, and then click **[Yes]** to restart the computer. **Note:** ● To install Multi-Function Station again, see page 20.
I cannot view the operating instructions using Multi-Function Station.	● Install the operating instructions on your computer beforehand (page 21).
I cannot find the unit in the [Target Device] or [Device Select] dialog box when operating the following functions. – **Scanning** – **Remote Control** – **PC FAX (KX-MB1520 only)** – **Device Monitor**	● The printer driver has not been installed. Install it on your computer (page 20).
I forgot the password for feature programming via remote operation.	● You may have changed the feature programming password. If you do not remember it, assign a new password using feature #155 (page 47). When required to enter the current password, enter **"0101"** instead.

Problem	Cause & Solution
The unit is beeping the off-hook alert (KX-MB1520 only).	• Press **[Stop]** to stop the beeping sound. The unit beeps when the off-hook alert (feature #171 on page 48) is activated, and the unit is in the following status. – You pressed **[SP-Phone]**, but did not dial. – You pressed **[SP-Phone]** during a conversation using the extension telephone.
The speakerphone is not working (KX-MB1520 only).	• Use the speakerphone in a quiet room. • If the other party has difficulty hearing you, – adjust the volume. – speak near the microphone.

11.3.2 Printing problems

Problem	Cause & Solution
Recording paper is wrinkled or folded when printed. **A͟B͟C**	• Make sure that the recording paper is loaded properly (page 13). • Try turning the recording paper over or rotating it 180 degrees.
The printing quality is poor (e.g. has smudges, blurred points or lines). **A͟B͟C͟** ↓ **A͟B͟C͟**	• Some paper has instructions recommending which side to print on. Try turning the recording paper over. • You may have used paper with a cotton and/or fiber content that is over 20 %, such as letterhead or resume paper. • The recording paper is too damp. Use new paper. • When you print several pages, the stacked paper may have smudges on the back side after printing. To avoid this, expand the paper exit (page 15).
I changed the recording paper, but the printing quality is still poor.	• The glass is dirty with correction fluid, etc. Clean it (page 71). Please do not insert a document before correction fluid has dried completely. • The toner save mode of feature #482 is ON (page 49). • The remaining toner is low. Replace the toner cartridge. • To check the toner cartridge life and quality, please print the printer test list (page 72). If printing quality is still poor, replace the toner cartridge.
A blank sheet is ejected.	• You placed the document facing the wrong way when using the copier. • The other party placed the document in their fax machine the wrong way. Check with the other party (KX-MB1520 only).
Colored and gray objects are printed in black instead of grayscale when printing from Microsoft PowerPoint or other applications.	• Select **[Color]** or remove the check next to **[Grayscale]** in the print dialog so that colored or gray objects will be printed in grayscale properly.
When using the unit as a printer, the printing result is distorted.	• When your unit is connected to the computer by USB, if you cancel printing using your computer, then immediately re-start printing, the printing result may be distorted. To avoid this, you must wait for 60 seconds before re-printing.

11.3.3 Scanner

Problem	Cause & Solution

I cannot scan.	• When scanning at a high resolution, a large amount of available memory is required. If your computer warns that there is insufficient memory, close other applications and try again.
	• Select a lower resolution and try again.
	• Reduce the scanning area and try again.
	   1. To preview the scanned image, click **[Preview]**.
	   2. You can drag the frame to specify the scanning area.
	   3. Click **[Scan]** to start scanning.
	• The unit is in use. Try again later.
	• There is not enough space on the hard disk. Delete unnecessary files and try again.
	• Check the connection between the computer and the unit (page 12, 21).
	• Restart the computer, and try again.
	• You attempted to scan a document longer than the paper size which you set. Change the setting or divide the document into the appropriate paper size, and try again.

Even after clicking [Cancel], scanning continues.	• Please wait. It may take a while for the cancel request to be accepted.

11.3.4 Copier

Problem	Cause & Solution
The unit will not make a copy.	• You cannot make a copy during programming. Make the copy after programming. • Recording paper is not loaded or the unit has run out of paper. Load paper (page 13).
Letters on the copied documents are not clear.	• The original document is too dark or too light. Change the contrast (page 28) and try again.
The copied documents are too dark and cannot be read.	• You used a colored paper as a document. Change the contrast (page 28) and make a lighter copy of the document, using **"TEXT"** resolution (page 28).

11.3.5 Fax (KX-MB1520 only)

Problem	Cause & Solution
I cannot send documents.	• The telephone line cord is connected to the **[EXT]** jack on the unit. Connect to the **[LINE]** jack (page 12). • The other party's fax machine is busy or has run out of recording paper. Try again. • The other party's machine is not a fax machine. Check with the other party. • The other party's fax machine failed to answer the fax automatically. Send the fax manually (page 34). • Set the maximum fax speed to **"14.4kbps"** (feature #418 on page 51).
I cannot send a fax overseas.	• Use the overseas transmission mode (feature #411 on page 50). • Add two pauses at the end of the telephone number or dial manually.
The other party complains that letters on their received document are distorted.	• If your line has special telephone services such as call waiting, the service may have been activated during fax transmission. Connect the unit to a line that does not have these services. • Another telephone on the same line is off the hook. Hang up the extension telephone and try again.

Problem	Cause & Solution
The other party complains about the quality of their received documents.	• Try copying the document. If the copied image is clear, there may be something wrong with the other party's machine. If the copied image is not clear, too dark, or black and white lines or smudges appear, refer to "11.3.2 Printing problems", page 63. • The original document is too dark or too light. Change the contrast (page 34) and try again.
The other party complains that received documents are too dark and cannot be read.	• You used a colored paper as a document. Change the contrast (page 28) and make a lighter copy of the document, using **"TEXT"** resolution (page 28), and try again.

I cannot receive documents.	• You may have subscribed to a voice mail service due to service packs offered by your telephone company. Fax reception may not be possible when voice mail is activated so we recommend you to:
	   – contact your telephone company and request to deactivate voice mail service, or
	   – subscribe to a Distinctive Ring service (page 44).
	• The telephone line cord is connected to the **[EXT]** jack on the unit. Connect to the **[LINE]** jack (page 12).
	• The PC fax setting (feature #442 on page 53) is activated and the received fax documents are automatically transferred to the computer. View the received documents using the computer (page 41).
	• Set the maximum fax speed to **"14.4kbps"** (feature #418 on page 51).
	• Recording paper is installed in the manual input tray. Remove the recording paper from the manual input tray.

I cannot receive documents automatically.	• The receiving mode is set to TEL mode. Set to FAX ONLY mode. Press **[Fax Auto Answer]** repeatedly to turn ON the **[Fax Auto Answer]** light. • The time taken to answer the call is too long. Decrease the number of rings before the unit answers a call (feature #210 on page 48). • Make sure that the Distinctive Ring of feature #430 is set properly (page 44). If you do not subscribe to the Distinctive Ring service offered by your local telephone company, this feature should be OFF.
The display shows "CONNECTING.....", but faxes are not received.	• The incoming call is not a fax. Set to TEL mode. Press **[Fax Auto Answer]** repeatedly to turn OFF the **[Fax Auto Answer]** light.
The printing quality of the received documents is poor.	• If documents can be copied properly, the unit is working normally. The other party may have sent a faint document or there may be something wrong with the other party's machine. Ask them to send a clearer copy of the document or to check their fax machine. • If documents can not be copied properly, refer to "11.3.2 Printing problems", page 63.
The other party complains that they cannot send a document.	• The memory is full of received documents due to a lack of recording paper or a recording paper jam. Load paper (page 13) or remove the jammed paper (page 68). • If the PC fax setting (feature #442 on page 53) is set to **"ALWAYS"**, check the connection between the computer and the unit. • The unit is not in FAX ONLY mode. Press **[Fax Auto Answer]** repeatedly to turn ON the **[Fax Auto Answer]** light.

I cannot select the desired receiving mode.	• If you want to set FAX ONLY mode:
	   – press **[Fax Auto Answer]** repeatedly to turn ON the **[Fax Auto Answer]** light.
	• If you want to set TEL mode:
	   – press **[Fax Auto Answer]** repeatedly to turn OFF the **[Fax Auto Answer]** light.
	• The Distinctive Ring of feature #430 is activated (page 44).

Problem	Cause & Solution
When an extension telephone is connected, I cannot receive documents by pressing 【✱】【♯】【9】.	• You must set remote fax activation to ON (feature #434 on page 52) beforehand. • Press 【✱】【♯】【9】 firmly. • You may have changed the remote fax activation code from 【✱】【♯】【9】 (default setting). Verify the remote fax activation code (feature #434 on page 52).
I cannot hear a dial tone.	• The telephone line cord is connected to the **[EXT]** jack on the unit. Connect to the **[LINE]** jack (page 12). • If you use a splitter/coupler to connect the unit, remove the splitter/coupler and connect the unit to the wall jack directly. If the unit operates properly, check the splitter/coupler. • Disconnect the unit from the telephone line and connect a known working telephone. If the working telephone operates properly, contact our service personnel to have the unit repaired. If the working telephone does not operate properly, contact your telephone company. • The power cord or telephone line cord is not connected. Check the connections (page 12). • If you connected the unit through a computer modem, connect the unit directly to a telephone line jack.
I cannot make calls.	• The dialing mode setting may be wrong. Change the setting (feature #120 on page 17).
The unit does not ring.	• The ringer volume is turned OFF. Adjust it (page 18).
The other party complains they only hear a fax tone and cannot talk.	• FAX ONLY mode is set (page 37). Tell the other party the number is only used for faxes. • If you use a Distinctive Ring service, make sure you have set the same ring pattern assigned by the telephone company (page 44).
The 【Redial】 or 【⊘】 button does not function properly.	• If this button is pressed during dialing, a pause will be inserted. If pressed immediately after a dial tone is obtained, the last number dialed will be redialed.
The receiving mode does not function properly.	• Distinctive Ring is set (feature #430 on page 44).
Whenever I try to retrieve my voice mail messages, I am interrupted by the fax tone.	• You are probably entering 【✱】【♯】【9】. This is the default setting for the fax activation code. If you use a voice mail service, turn the fax activation feature OFF or reprogram the activation code (feature #434 on page 52).
I cannot receive a fax document on the computer.	• Make sure the PC fax reception (feature #442 on page 53) is set beforehand.

11.3.6 Using an answering machine (KX-MB1520 only)

Problem	Cause & Solution
I cannot receive documents automatically.	• Your greeting message on the answering machine is too long. Shorten the message. Record a message less than 10 seconds long. • The answering machine rings too many times. Set to 1 or 2 rings.
I cannot receive voice messages.	• Check if the answering machine is turned ON and connected to the unit properly (page 39). • Set the number of rings on the answering machine to 1 or 2.
I pressed the remote access code to access the answering machine remotely, but the line was disconnected.	• The code may include "#" which is used for certain features provided by telephone companies. Change the code on the answering machine to another number which does not include "#".

Problem	Cause & Solution
Callers complain that they cannot send a document.	• There is no room left in the memory of your answering machine to record voice messages. See the operating instructions of the answering machine and erase unnecessary messages. • You set the answering machine to only give a greeting message.

11.3.7 If a power failure occurs

• The unit will not function.
• If any documents are stored in the memory (i.e. during copying, PC printing), they will be lost.

KX-MB1520 only:
• The unit is not designed for making emergency telephone calls when the power fails. Alternative arrangements should be made for access to emergency services.
• Fax transmission and reception will be interrupted.
• Documents during fax transmission or fax reception will be lost.
• When power is restored, a power down report will be printed out stating which fax items in the memory have been erased.

11.3.8 Notice for KX-MB200/KX-MB700/KX-FLB880 series users

If you have already installed KX-MB200/KX-MB700/KX-FLB880 series Multi-Function Station on your computer, use the following instructions to modify or add the printer driver, which changes after installing the KX-MB1500 series Multi-Function Station.
You can modify or add a printer driver, as follows:

1 Start Windows and insert the KX-MB200/KX-MB700/KX-FLB880 series CD-ROM into your CD-ROM drive.
  • If the **[Select Language]** dialog box appears, select the desired language that you want to use with this software. Click **[OK]**.

2 **[Modify]**

3 Select **[Modify Utilities]** or **[Add Multi-Function Station Driver]**. Then follow the on-screen instructions.

> **Important:**
> • **For users of versions prior to 1.21, download the latest software as follows, then activate it.**
>   **[Start] → [All Programs] or [Programs] → [Panasonic] → the unit's name → [Support Web Page].**
>   **Then follow the on-screen instructions.**

12.1 Recording paper jam

12.1.1 When the recording paper has jammed inside of the unit

The display will show the following:

– **"PAPER JAMMED"**

↕

"OPEN REAR COVER"

"OPEN FRONT COVER"

Caution:

- **Do not open the paper input tray before opening the front and rear covers as the jammed paper may be pulled and the jam may get worse.**
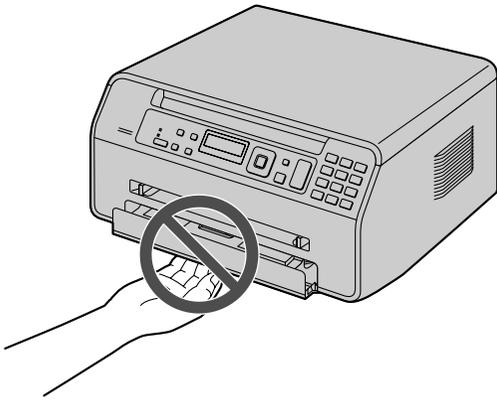
Case 1:

When the recording paper has jammed inside the rear cover:

1. Open the rear cover (①).
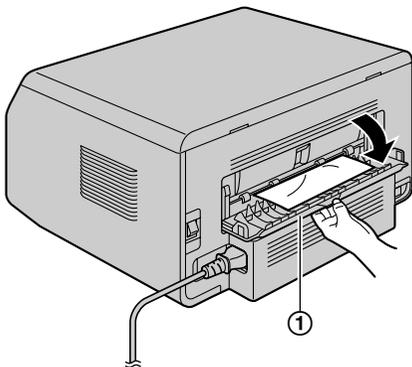
2. Push down both green levers (①) until they stop.
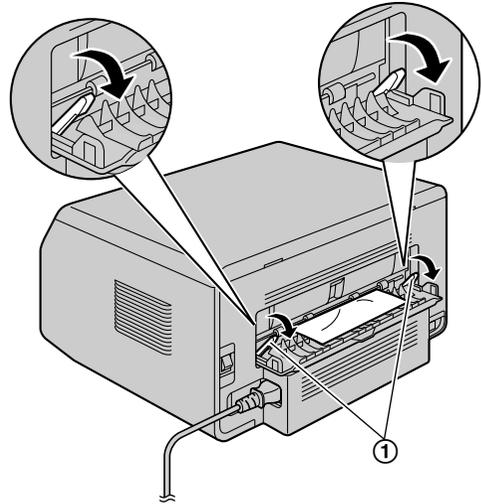
3. Remove the jammed paper (①) carefully by pulling it toward you.
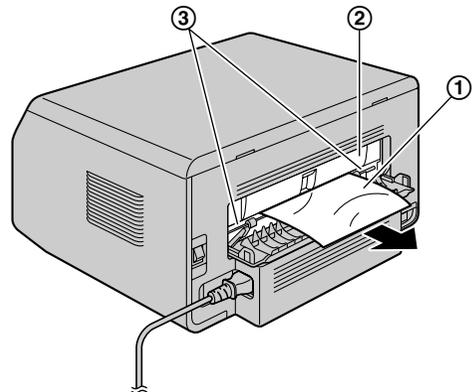
Caution:
- **The fuser unit (②) gets hot. Do not touch it.**

Note:
- The area near the rear cover (③) may also get warm.

4. Push up the green levers (①) to the original position.
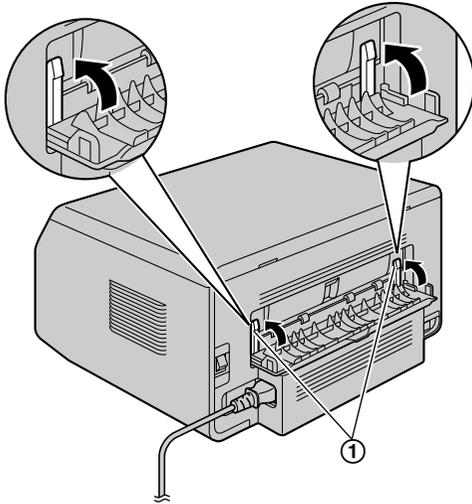
5. Close the rear cover.
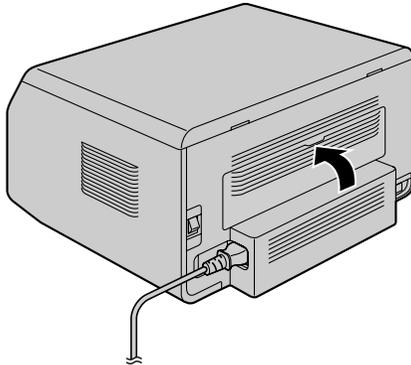
- Open and close the front cover to clear the error message.

Case 2:

When the recording paper has jammed inside the front cover:

1. Open the front cover (①).
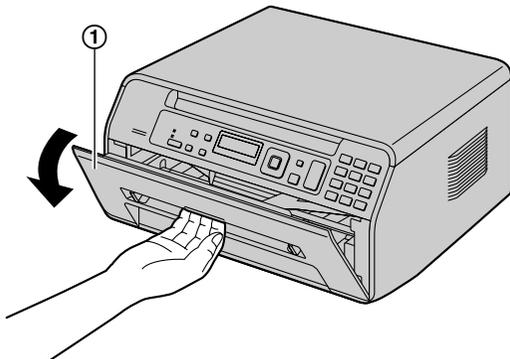
2. Remove the jammed paper (①) carefully by pulling it toward you.
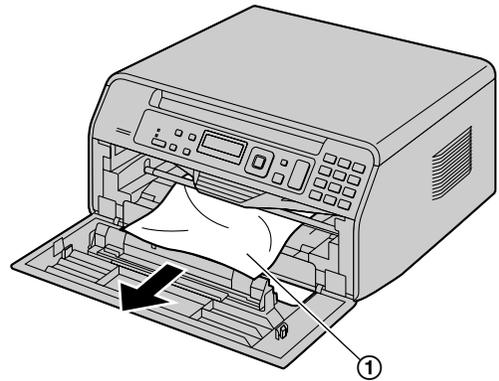
- If the recording paper has jammed behind the toner cartridge, remove the toner cartridge (①) first, and remove the jammed paper (②). Then reinsert the toner cartridge into the unit.
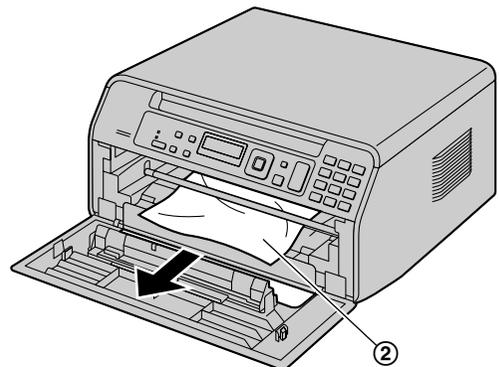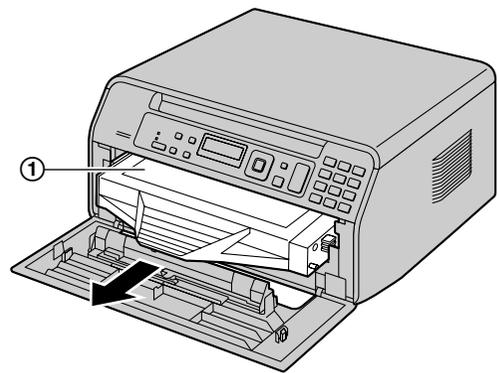
3. Close the front cover.
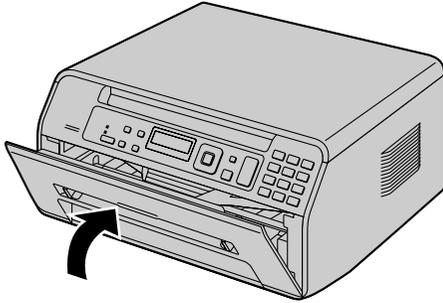
12.1.2 When the recording paper is not fed into the unit properly

The display will show the following:
– **"CHECK PAPER #1 PRESS START"**

1 Pull the paper input tray completely out.

2 Re-load the recording paper.
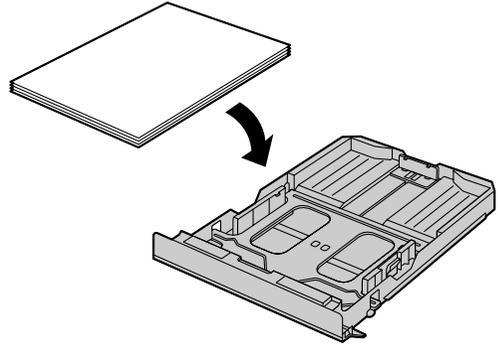
3 Insert the paper input tray into the unit.

Note:
● If the message is still displayed, check the recording paper specifications and load the recording paper again. See page 13 for details.

12.1.3 When the recording paper in the manual input tray is not fed into the unit properly

The display will show the following.
– **"CHECK PICK UP INPUT TRAY #2"**

1 Remove the recording paper.

2 Re-insert the recording paper.
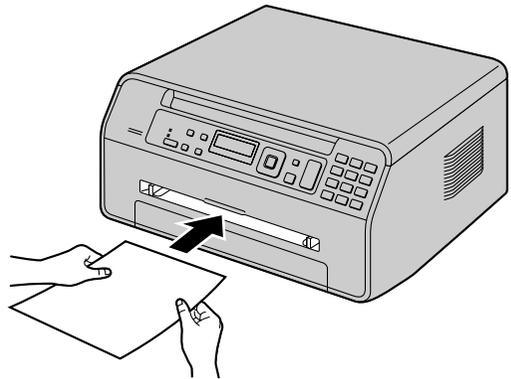
Note:
● If the message is still displayed, check the recording paper specifications and re-install recording paper. See page 16 for details.

13.1 Cleaning the white plates and glass

Clean the white plates and glass when a black line, a white line or a dirty pattern appears on:
–   your recording paper,
–   the original document,
–   the scanned data, or
–   the fax document received by the other party (KX-MB1520 only).

Caution:
*   **Do not use paper products, such as paper towels or tissues for cleaning.**

1   Open the document cover (①).
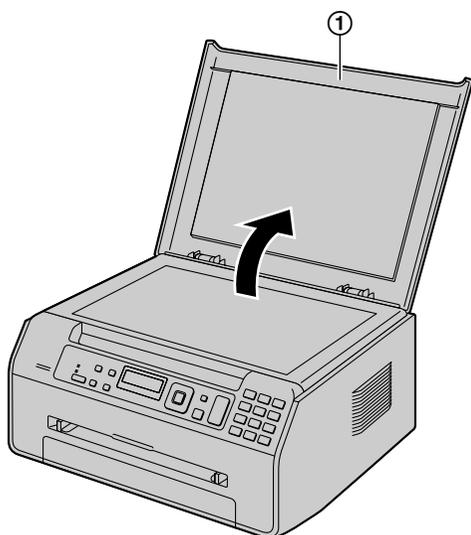
2   Hold the document cover while cleaning the white plates (①) and the scanner glass (②).
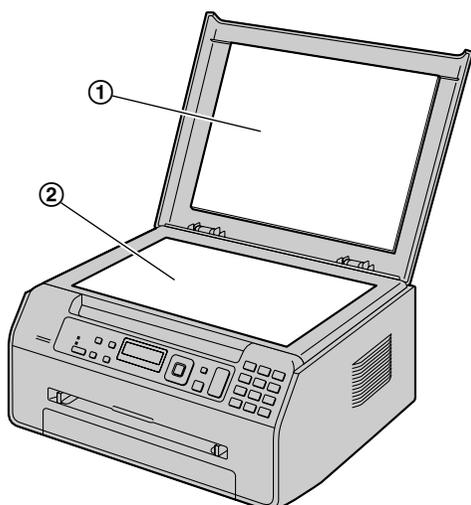
3   Close the document cover.
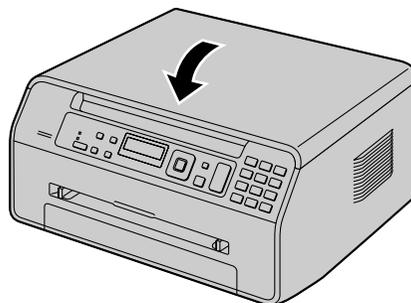
14.1 Reference lists and reports

You can print out the following lists and reports for your reference.

– **"SETUP LIST"**
– **"TEL NO. LIST"**[*1]
– **"JOURNAL REPORT"**[*1]
– **"PRINTER TEST"**
– **"CALLER ID LIST"**[*1]

*1 KX-MB1520 only

[Menu]

[Set] [◄][►]
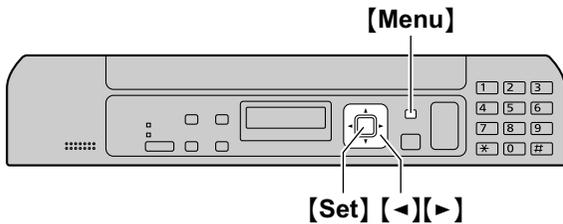
1 Press **[Menu]** repeatedly to display **"PRINT REPORT"**.

2 Press **[◄]** or **[►]** repeatedly to display the desired item.

3 Press **[Set]** to start printing. → **[Menu]**

14.2 Specifications

■ **Applicable lines**[*1]**:**
Public Switched Telephone Network

■ **Document size:**
Max. 216 mm (8 ^{1}/2") in width, Max. 297 mm (11 ^{11}/$_{16}$") in length

■ **Effective scanning width:**
208 mm (8 ^{3}/$_{16}$")

■ **Effective printing width:**
Letter/Legal: 208 mm (8 ^{3}/$_{16}$")
A4: 202 mm (7 ^{15}/$_{16}$")

■ **Transmission time**[*1][*2]**:**
Approx. 4 s/page (ECM-MMR Memory transmission)[*3]

■ **Scanning density:**

Scanning resolution:
Up to 600 × 1,200 dpi (Optical)
Up to 19,200 × 19,200 dpi (Interpolated)

Copy resolution:
Up to 600 × 600 dpi

Fax resolution[*1]**:**
Horizontal: 8 pels/mm (203 pels/inch)

Vertical: 3.85 lines/mm (98 lines/inch)-in standard resolution,
7.7 lines/mm (196 lines/inch)-in fine/photo resolution,
15.4 lines/mm (392 lines/inch)-in super fine resolution

■ **Photo resolution:**
64-level

■ **Scanner type:**
Color Contact Image Sensor

■ **Printer type:**
Laser Printer

■ **Data compression system**[*1]**:**
Modified Huffman (MH), Modified READ (MR), Modified Modified READ (MMR)

■ **Modem speed**[*1]**:**
33,600 / 31,200 / 28,800 / 26,400 / 24,000 / 21,600 / 19,200 / 16,800 / 14,400 / 12,000 / 9,600 / 7,200 / 4,800 / 2,400 bps; Automatic Fallback

■ **Operating environment:**
10 °C - 32.5 °C (50 °F - 90.5 °F), 20 % - 70 % RH (Relative Humidity)

■ **Dimensions:**
Approx. width 380 mm × depth 360 mm × height 203 mm (14 ^{15}/$_{16}$" × 14 ^{3}/$_{16}$" × 8")

■ **Mass (Weight):**
Approx. 9 kg (20 lb)

■ **Power consumption:**

Standby: Approx. 3.3 W (KX-MB1500)
             Approx. 3.6 W (KX-MB1520)

Preheat: Approx. 55 W
Copy: Approx. 320 W
Maximum: Approx. 900 W (When the fuser lamp turns on)

■ **Power supply:**
120 V AC, 60 Hz

■ **Memory capacity**
(for operation and storing memory):
32 MB

■ **Fax memory capacity[*1]:**
3.5 MB in total
Approx. 110 pages of memory reception
Approx. 150 pages of memory transmission
(Based on the ITU-T No. 1 Test Chart in standard resolution.)

■ **Laser diode properties:**
Laser output: Max. 10 mW
Wavelength: 760 nm - 800 nm
Emission duration: Continuous

■ **Print speed:**
A4: Approx. 18 ppm (pages per minute)
Letter: Approx. 19 ppm (pages per minute)

■ **Printing resolution:**
600 × 600 dpi

■ **CIS's LED light properties:**
LED radiation output: Max. 1 mW

Wavelength: Red 630 nm typical
                Green 520 nm typical
                Blue 465 nm typical

Emission duration: Continuous

*1   KX-MB1520 only
*2   Transmission speed depends on the contents of the pages, resolution, telephone line conditions and capability of the other party's machine.
*3   Transmission speed is based on the ITU-T No. 1 Test Chart with original mode. If the capability of the other party's machine is inferior to your unit, the transmission time may be longer.

ITU-T No.1 Test Chart
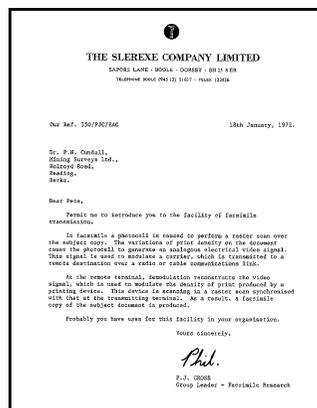
Note:
● Design and specifications are subject to change without notice.
● The pictures and illustrations in these instructions may vary slightly from the actual product.

Recording paper specifications

Plain paper/Thin paper/Thick paper size:

A4: 210 mm × 297 mm (8 1/4" × 11 11/16")
Letter: 216 mm × 279 mm (8 1/2" × 11")
Legal: 216 mm × 356 mm (8 1/2" × 14")[*1]
B5(JIS): 182 mm × 257 mm (7 3/16" × 10 1/8")[*1]
B5(ISO): 176 mm × 250 mm (6 15/16" × 9 13/16")[*1]
16K: 195 mm × 270 mm (7 11/16" × 10 5/8")
8.5 × 13: 216 mm × 330 mm (8 1/2" × 13")[*1]
8.5 × 13.4: 216 mm × 340 mm (8 1/2" × 13 3/8")[*1]
Custom size: 210-216 mm × 279-356 mm (8 1/4"- 8 1/2" × 11"-14")[*1*2]

Label size:

A4: 210 mm × 297 mm (8 1/4" × 11 11/16")[*1]
Letter: 216 mm × 279 mm (8 1/2" × 11")[*1]

Recording paper weight:

64 g/m² to 90 g/m² (17 lb to 24 lb) (Paper input tray)
64 g/m² to 165 g/m² (17 lb to 44 lb) (Manual input tray)

*1   Manual input tray only
*2   When printing with the computer, custom size recording paper can also be used.
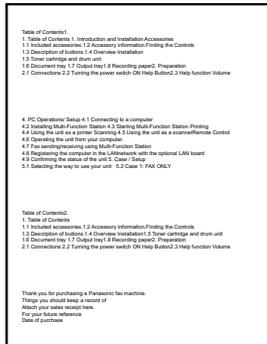
Toner cartridge life

The toner cartridge needs to be replaced regularly. Toner cartridge life depends on the amount of content in a printed document. Toner cartridge life varies in actual usage. The following is the approximate number of pages that the toner cartridge can print according to the various printing examples.

Example 1

Approx. 2,500 pages can be printed.

Example 2

Approx. 1,250 pages can be printed.

Example 3

Approx. 800 pages can be printed.

Note:
- There are various factors that determine the actual toner cartridge life, such as temperature, humidity, type of paper and how much toner you use for the number of pages per print job. The actual number of pages your toner cartridge will print may be significantly less than this estimate if your unit is often used for printing small number of pages per job. Because many of the factors that determine the actual toner cartridge life cannot be controlled, we cannot guarantee a minimum number of pages that will be printed by your toner cartridge.
- The number of pages changes with the depth, thickness and size of the characters.
- If you turn on the toner save feature, the toner cartridge will last approx. 20 % longer.

Waste disposal method

Waste material should be disposed of under conditions which meet all national and local environmental regulations.

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For hearing or speech impaired TTY users, TTY: 1-877-833-8855

MB1500