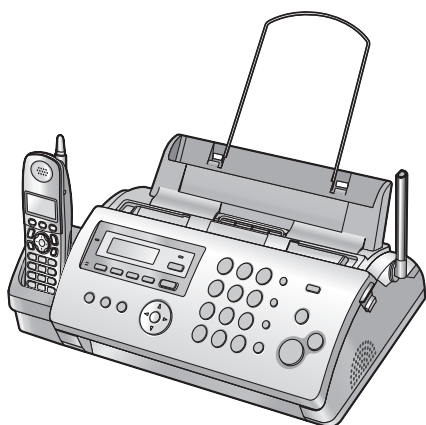


# Panasonic®



## Operating Instructions

2.4 GHz Cordless Phone System  
with FAX and Copier

Model No. **KX-FG2451**



### FOR FAX ADVANTAGE ASSISTANCE:

- REFER TO  
[www.panasonic.com/helpfax](http://www.panasonic.com/helpfax)  
for customers in the U.S.A. or Puerto Rico
- E-MAIL TO  
[consumer\\_fax@us.panasonic.com](mailto:consumer_fax@us.panasonic.com)  
for customers in the U.S.A. or Puerto Rico
- PHONE CALL  
**1-800-HELP-FAX (1-800-435-7329)**

Please read these Operating Instructions before using the unit and save for future reference.

**Charge the battery for about 6 hours before initial use.**

**This unit is compatible with Caller ID. To use this feature, you must subscribe to the appropriate service of your service provider.**

**This model is designed to be used only in the U.S.A.**

## Things you should keep a record of

Attach your sales receipt here.

## Date of purchase

Serial number (found on the rear of the unit)

Dealer's name and address

Dealer's telephone number

- The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device, including fax machines, to send any message unless such message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent and an identification of the business or other entity, or other individual sending the message and the telephone number of the sending machine or such business, other entity, or individual. (The telephone number provided may not be a 900 number or any other number for which charges exceed local or long-distance transmission charges.) In order to program this information into your fax machine, you should complete the instructions on page 18 to page 19.
- Note that the images of copied or received documents will remain on the used ink film. Use discretion when disposing of the used ink film.
- Do not rub or use an eraser on the printed side of recording paper, as the print may smear.

- As an ENERGY STAR® Partner, Panasonic has determined that this product meets the ENERGY STAR guidelines for energy efficiency. ENERGY STAR is a U.S. registered mark.



- Hammermill is a registered trademark of INTERNATIONAL PAPER in the United States and/or other countries.
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## Important safety instructions

When using this unit, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from power outlets before cleaning. Do not use liquid or aerosol cleaners.
4. Do not use this unit near water, for example near a bathtub, wash bowl, kitchen sink, etc.
5. Place the unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
6. Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating. Never place the unit near radiators, or in a place where proper ventilation is not provided.
7. Use only the power source marked on the unit. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
8. For safety purposes this unit is equipped with a grounded plug. If you do not have this type of outlet, please have one installed. Do not defeat this safety feature by tampering with the plug.
9. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
10. Do not overload power outlets and extension cords. This can result in the risk of fire or electric shock.
11. Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
12. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized service center when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
13. Unplug this unit from power outlets and refer servicing to an authorized service center when the following conditions occur:
  - A. When the power cord is damaged or frayed.
  - B. If liquid has been spilled into the unit.
  - C. If the unit has been exposed to rain or water.
  - D. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorized service center.
  - E. If the unit has been dropped or physically damaged.
  - F. If the unit exhibits a distinct change in performance.
14. During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of an electric shock from lightning.

15. Do not use this unit to report a gas leak, when in the vicinity of the leak.

## SAVE THESE INSTRUCTIONS

### CAUTION:

#### Installation

- Never install telephone wiring during a lightning storm.
- Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
- Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- Use caution when installing or modifying telephone lines.
- Do not touch the plug with wet hands.
- Consult the manufacturer of any personal medical devices, such as pacemakers or hearing aids, to determine if they are adequately shielded from external RF (radio frequency) energy. (The unit operates in the frequency range of 2.4 GHz to 2.48 GHz, and the power output level can range from 0.04 to 0.1 watts.) Do not use the unit in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF (radio frequency) energy.

#### Battery

To reduce the risk of fire or injury to persons, read and follow these instructions.

- Use only the battery(ies) specified.
- Do not dispose of the battery(ies) in a fire. They may explode. Check with local waste management codes for special disposal instructions.
- Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
- Exercise care when handling the battery(ies). Do not allow conductive materials such as rings, bracelets or keys to touch the battery(ies), otherwise a short circuit may cause the battery(ies) and/or the conductive material to overheat and cause burns.
- Charge the battery(ies) provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.
- Only use rechargeable battery(ies). If you install non-rechargeable battery(ies) and start charging them, the battery(ies) may leak electrolyte.

### WARNING:

- To prevent the risk of fire or electrical shock, do not expose this product to rain or any type of moisture.
- Unplug this unit from power outlets if it emits smoke, an abnormal smell or makes unusual noise. These

conditions can cause fire or electric shock. Confirm that smoke has stopped and contact an authorized service center.

---

## For best performance

### Location and noise

The base unit and cordless handset use radio waves to communicate with each other. For maximum distance and noise-free operation, we recommend the following:

- Placing the unit away from electrical appliances such as a TV, personal computer or another cordless phone.
- Placing the unit in a HIGH and CENTRAL location with no obstructions such as walls.
- Raising the antenna vertically.
- If you use the cordless handset near a microwave oven which is being used, noise may be heard from the receiver or the speaker. Move away from the microwave oven and closer to the base unit.
- If you use the cordless handset near another cordless phone's base unit, noise may be heard. Move away from the other cordless phone's base unit and closer to your base unit.

### 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 power outlet.
- The unit should be kept away from heat sources such as heaters, kitchen stoves, etc. Damp basements should also be avoided.
- The maximum calling distance may be shortened when the unit is used in the following places: Near obstacles such as hills, tunnels, undergrounds, near metal objects such as wire fences, etc.
- Operating near 2.4 GHz electrical appliances may cause interference. Move away from the electrical appliances.

### Routine care

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

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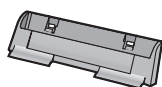
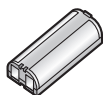
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## 1.1 Included accessories

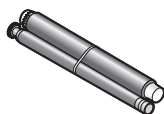
- ① Telephone line cord (PFJA02B002Y)\*<sup>1</sup>      ② Cordless handset



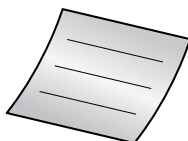
- ③ Battery (HHR-P105)\*<sup>1</sup>      ④ Paper tray (PFKS1147Z1)\*<sup>1</sup>



- ⑤ Paper support (PFUS1704Z)\*<sup>1</sup>      ⑥ Starter ink film (10 meters long)



- ⑦ Operating instructions (PFQX2417Z)\*<sup>1</sup>      ⑧ Quick installation guide (PFQW2453Z)\*<sup>1</sup>



- ⑨ A4 paper guide (PFKR1103Z1)\*<sup>1</sup>\*<sup>2</sup>



\*<sup>1</sup> Part numbers are subject to change without notice.

\*<sup>2</sup> No need to install when using letter size paper.

### Note:

- If any items are missing or damaged, contact the place of purchase.
- Save the original carton and packing materials for future shipping and transportation of the unit.

## 1.2 Accessory information

Accessories for this unit can be ordered online, by fax, or by telephone.

Please note that headset orders can be accepted via the internet.

- **Replacement film**\*<sup>1</sup> (Model No./Part No. KX-FA91): 25 m (82") × 2 rolls (Each roll will print about 80 letter-sized pages.)
- **Battery** (Model No./Part No. HHR-P105A)
- **Headset** (Model No./Part No. KX-TCA60, KX-TCA86, KX-TCA88HA, KX-TCA91, KX-TCA92, KX-TCA98): Allows hands-free telephone conversations.
- **Belt clip** (Model No./Part No. PQKE10393Z6)

\*<sup>1</sup> To ensure the unit operates properly, we recommend using the Panasonic replacement film. **The ink film is not reusable. Do not rewind and use the ink film again.**

### To place an order online (for customers in the U.S.A. ONLY)

Visit our web site:

<http://www.panasonic.com/kx-fa91>

- For questions regarding online orders:  
E-mail: [direct@us.panasonic.com](mailto:direct@us.panasonic.com)  
Telephone: 1-866-888-2929

### To place an order by fax (replacement film and battery only)

**Fax: 1-800-237-9080**

Include:

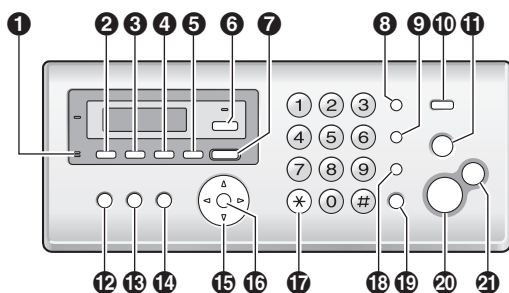
- your name, shipping address and telephone number
- credit card type, number, expiration date and your signature
- part number and quantity

### To place an order by telephone (replacement film and battery only)

**Telephone: 1-800-332-5368**

(Monday - Friday 9 am to 8 pm, EST.)

### 1.3 Button descriptions of the base unit



**1 [MIC] (Microphone)**

- The built-in microphone.

**2 [GREETING REC]**

- To record a greeting message (page 39).

**3 [GREETING CHECK]**

- To check a greeting message (page 39).

**4 [MEMO]**

- To record a memo message (page 41).

**5 [ERASE]**

- To erase messages (page 39, 40).

**6 [AUTO ANSWER]**

- To turn the auto answer setting ON/OFF (page 33, 34).

**7 [PLAYBACK]**

- To play messages (page 40).

**8 [REDIAL][PAUSE]**

- To redial the last number dialed from the base unit.
- To insert a pause during dialing.

**9 [FLASH][CALL WAIT]**

- To access special telephone services such as call waiting (page 25) or for transferring extension calls.
- The flash time can be changed (feature #72 or feature 052 on page 49).

**10 [CALLER ID]**

- To use Caller ID features (page 25).

**11 [STOP]**

- To stop an operation or programming session.
- To erase a character/number (page 18). Press and hold to erase all characters/numbers.

**12 [LOCATOR][INTERCOM]**

- To make/answer intercom calls (page 28).
- To locate the cordless handset (page 28).
- To put a call on hold (page 21).

**13 [HELP]**

- To print helpful information for reference purposes (page 16).

**14 [MENU]**

- To start or exit programming.

**15 [PHONEBOOK][VOLUME]**

- To adjust volume (page 17).
- To search for a stored item (page 23, 30).

**16 [SET]**

- To store a setting during programming.

**17 [TONE]**

- To change from pulse to tone temporarily during dialing when your line has rotary pulse service. You can also use tone dial service by changing feature #13 or feature 051 on page 45.

**18 [MUTE]**

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

**19 [SP-PHONE]**

- For speakerphone operation.

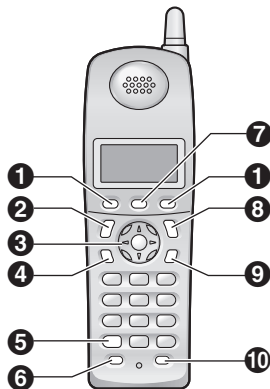
**20 [FAX START]**

- To send or receive a fax.

**21 [COPY]**

- To copy a document (page 37).

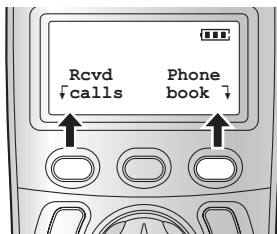
## 1.4 Button descriptions of the cordless handset



### 1 Soft keys

- Two soft keys are used to select the functions displayed directly above each key.

**Example:**



### 2 [TALK]

- To make/answer calls (page 20, 21).

### 3 Navigator

- To adjust volume (page 17).
- To search for a stored item (page 22).

### 4 [SP-PHONE]

- For speakerphone operation.

### 5 [TONE]

- To change from pulse to tone temporarily during dialing when your line has rotary pulse service. You can also use tone dial service by changing feature #13 or feature 051 on page 45.

### 6 [PAUSE]/[REDIAL]

- To redial one of the last 5 numbers dialed from the cordless handset (page 20).
- To insert a pause during dialing.

### 7 [MENU]

- To start programming.

### 8 [OFF]

- To hang up (page 20, 21).
- To stop an operation or programming.

### 9 [MUTE]/[CLEAR]

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

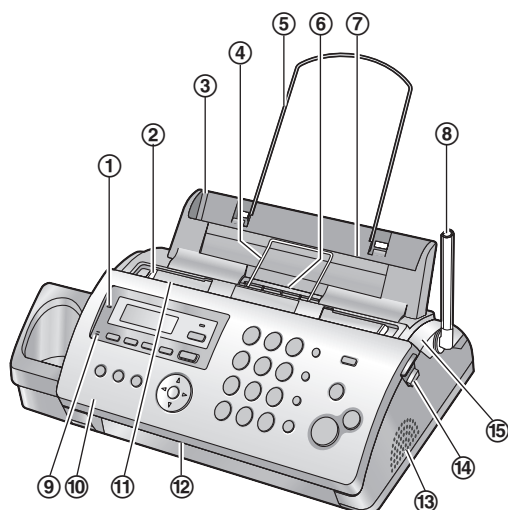
- To erase a character/number (page 22). Press and hold to erase all characters/numbers.

### 10 [HOLD]/[INTERCOM]

- To make/answer intercom calls (page 28).
- To put a call on hold (page 20).

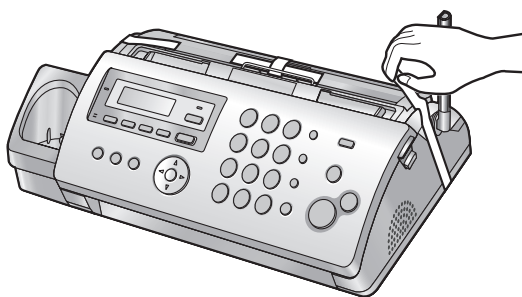
### 1.5 Overview

#### 1.5.1 Base unit

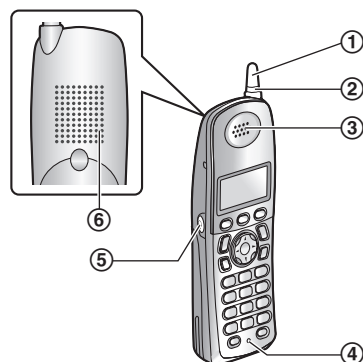


- ① CHARGE indicator
- ② Document guides
- ③ Paper tray
- ④ Metal recording paper guide
- ⑤ Paper support
- ⑥ Recording paper exit
- ⑦ Recording paper entrance
- ⑧ Antenna
- ⑨ Microphone
- ⑩ Front cover
- ⑪ Document entrance
- ⑫ Document exit
- ⑬ Speaker
- ⑭ Green button (Back cover release button)
- ⑮ Back cover

#### Removing the shipping tape



#### 1.5.2 Cordless handset



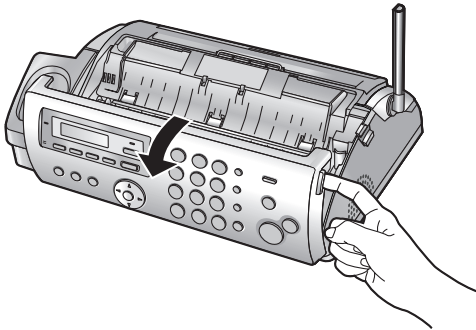
- ① Antenna
- ② Ringer indicator  
Message indicator
- ③ Receiver
- ④ Microphone
- ⑤ Headset jack
- ⑥ Speaker

## 1.6 Ink film

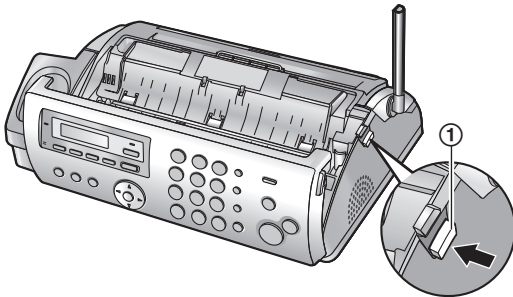
The included film roll is a starter ink film.

### 1.6.1 Installing the ink film

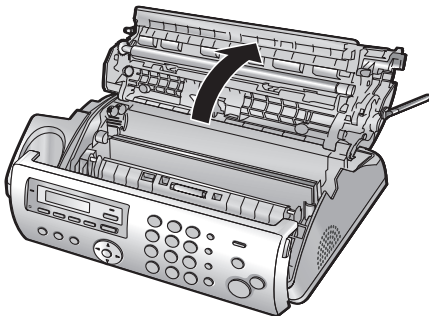
- 1 Open the front cover.



- 2 Release the back cover by pushing the green button (1).



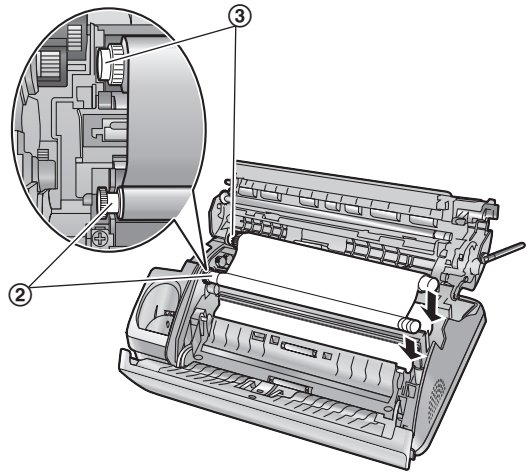
- 3 Open the back cover.



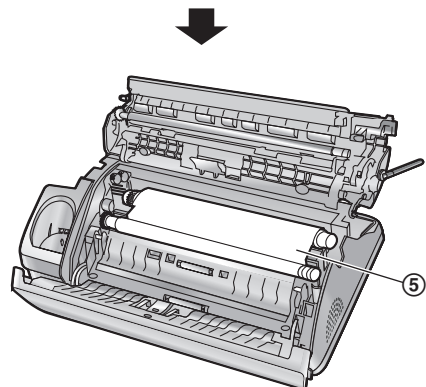
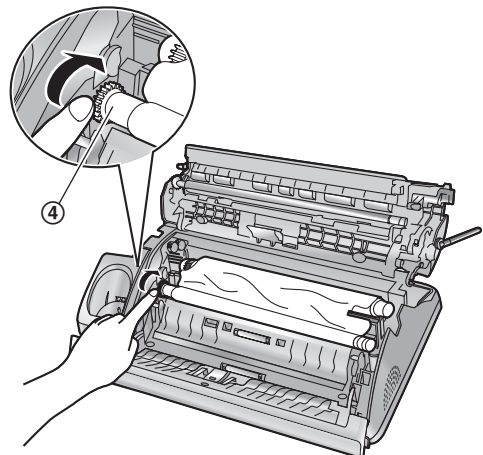
- 4 Insert the blue gear of the ink film roll into the front left slot of the unit (2) and the white gear of the ink film roll into the rear left slot of the unit (3).

- The ink film is safe to touch and will not rub off on your hands like carbon paper.

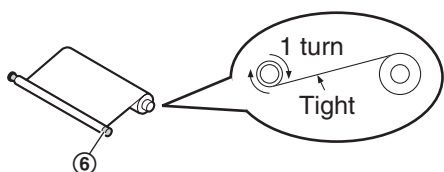
- Make sure the blue gear (2) and white gear (3) are installed as shown.



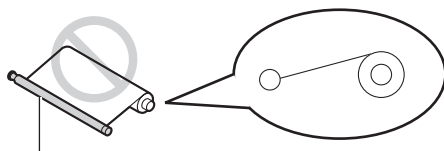
- 5 Turn the blue gear (4) in the direction of the arrow until the ink film is tight (5) and at least one layer of ink film is wrapped around the blue core (6).



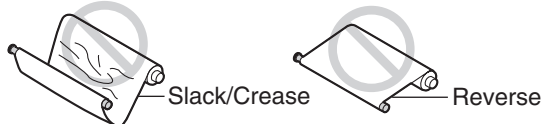
### Correct



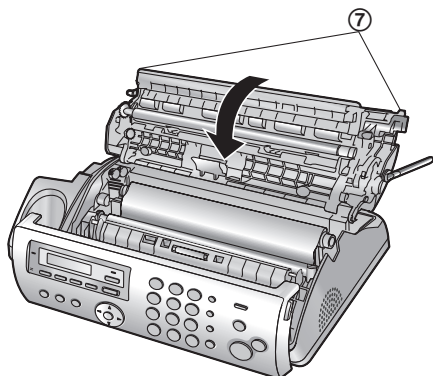
### Incorrect



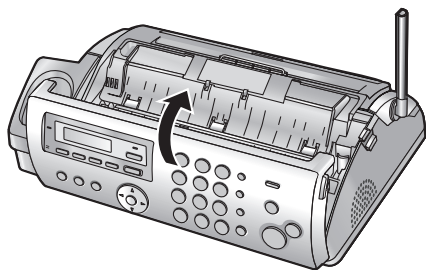
No ink film is wrapped around the blue core.



- 6 Close the back cover securely by pushing down on the dotted area at both ends (7).

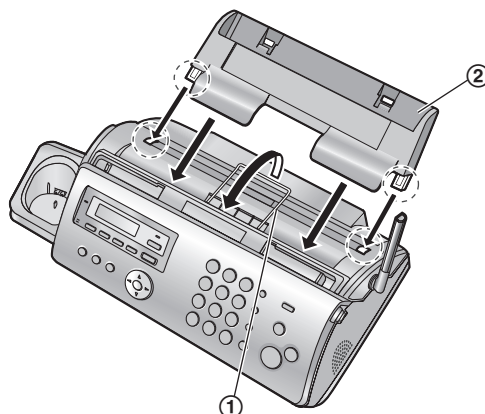


- 7 Close the front cover securely.

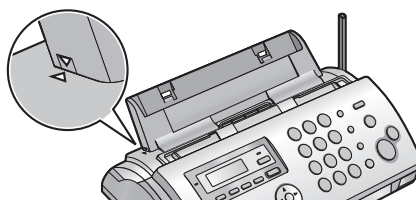


## 1.7 Paper tray

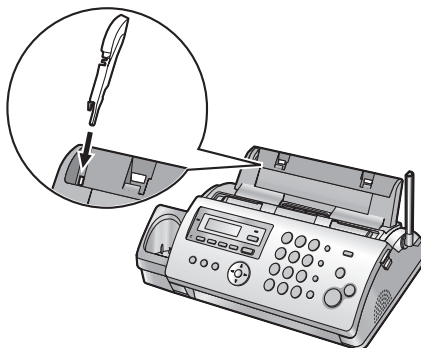
Pull up the metal recording paper guide (1), then install the paper tray (2).



- Make sure the arrows on the paper tray and the unit match.



### To use A4 size paper



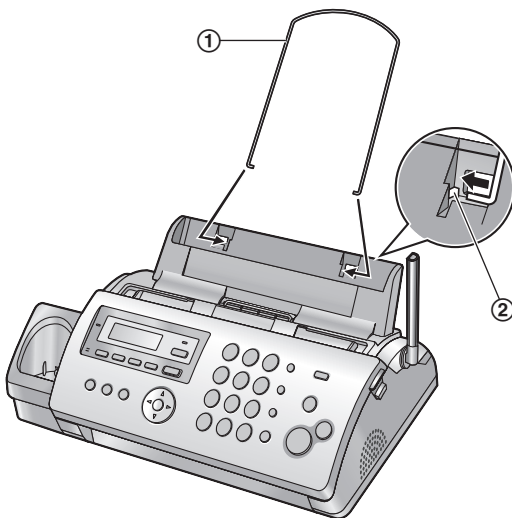
#### Note:

- When you use letter paper, you do not need to install the A4 paper guide.
- Change the recording paper size to "A4" (feature #16 on page 45).
- When you do not use the A4 paper guide, you can attach it to the back of the paper tray for storage.



## 1.8 Paper support

Hold open the paper support (①), then insert the ends into the holes on the paper tray (②).



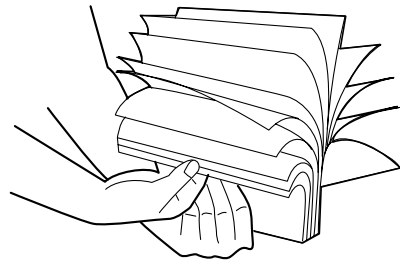
## 1.9 Recording paper

The unit can hold up to 20 sheets of 60 g/m<sup>2</sup> to 90 g/m<sup>2</sup> (16 lb. to 24 lb.) paper.

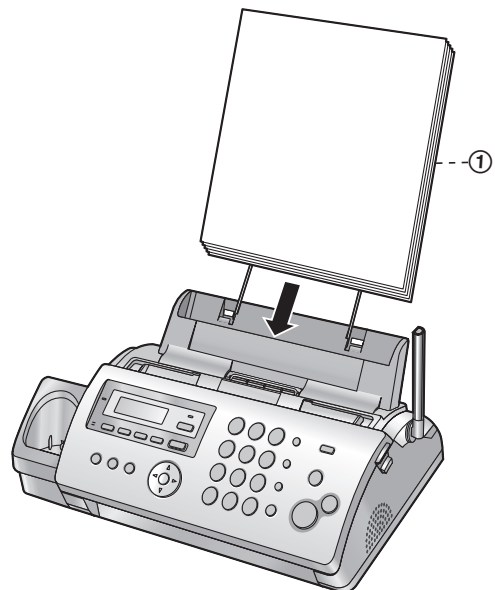
Please refer to page 68 for more information on recording paper.

**For superior results, we recommend Hammermill® Jet Print paper.**

- 1 Fan the paper to prevent paper jams.

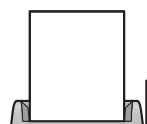


- 2 Insert the paper gently, print-side down (①).
  - Do not force the paper into the paper tray.



- If the paper is not inserted correctly, remove all of the installed paper, and re-install it gently. Otherwise the paper may jam.

**Correct**



**Slant**



**Note:**

- Remove all of the installed paper before adding paper.

### 1.10 Battery installation / replacement

- 1 Press the notch on the battery cover firmly, and slide the cover.



#### 2 Installation:

Insert the battery (①), and press it down until it snaps into the compartment (②).

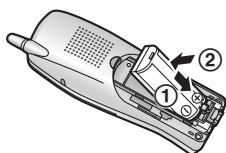
OR

#### Replacement:

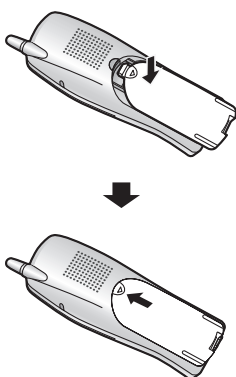
Replace the old battery with a new one.

#### Important:

**Please use only a Panasonic battery. See page 7 for accessory information.**



- 3 Close the battery cover.



#### Attention:

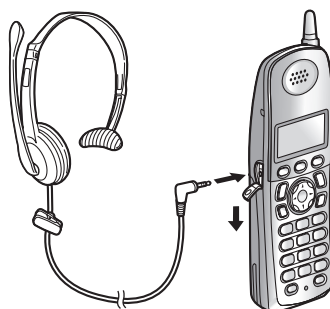


A nickel metal hydride battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.

### 1.11 Headset (optional)

Connecting an optional headset to the cordless handset allows hands-free phone conversations.

**We recommend using a Panasonic headset. See page 7 for accessory information.**



- Model shown is KX-TCA86.

#### To switch to the speakerphone while using the headset:

Press **[SP-PHONE]**. To return to the headset, press **[TALK]**.

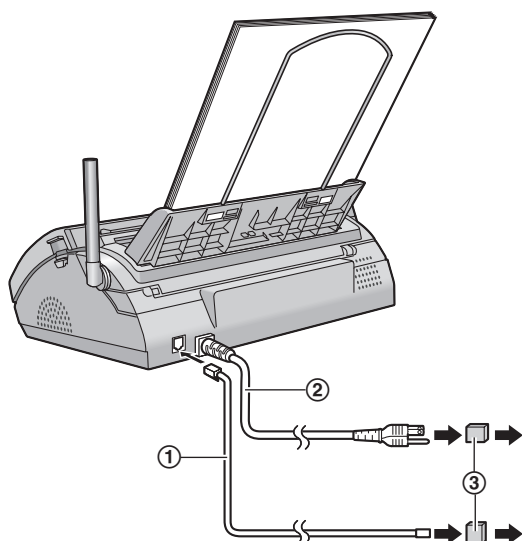
## 2.1 Connections

### Caution:

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

### 2.1.1 Base unit

- ① Telephone line cord
  - Connect to a single telephone line jack (RJ11).
- ② Power cord
  - Connect to a power outlet (120 V, 60 Hz).



### Note:

- To avoid malfunction, do not position the fax machine near appliances such as TVs or speakers which generate an intense magnetic field.
- If any other device is connected to the same telephone line, this unit may disturb the network condition of the device.

### Using surge protectors

- The warranty does not cover damage due to power line surges or lightning. For additional protection, we recommend using surge protectors (③).

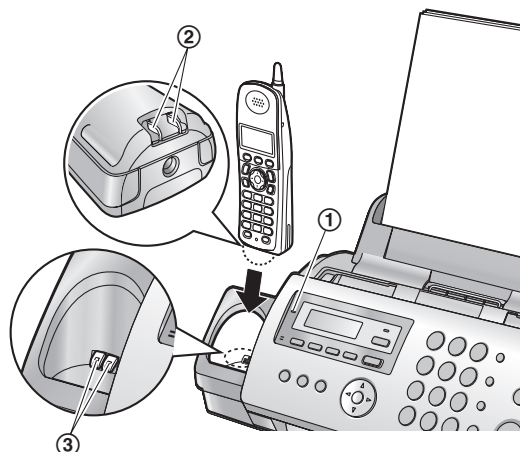
### If the fax machine shares a single telephone line with a DSL service

Fax transmission/reception may be disturbed, noise interference may be heard during telephone conversations, or Caller ID (page 25) may not function properly. A filter to prevent this is provided by your provider. Please attach the filter to the telephone line cord of the unit.

## 2.2 Battery charge

Place the cordless handset on the cradle of the base unit for about **6 hours** before initial use.

- The unit will beep once, the **[CHARGE]** indicator (①) will light, and "Charging" will be displayed on the cordless handset display.
- After the cordless handset is fully charged, displaying "Charge completed", it may be left on the base unit without affecting the life of the battery.



### Note:

- To ensure the battery charges properly, clean the charge contacts of the cordless handset (②) and the charger (③) with a soft, dry cloth once a month. Clean more often if the unit is subject to grease, dust, or high humidity.

### Battery strength

| Battery icon | Battery strength                                                                         |
|--------------|------------------------------------------------------------------------------------------|
|              | Fully charged                                                                            |
|              | Medium                                                                                   |
|              | Low <ul style="list-style-type: none"> <li>When flashing: Needs to be charged</li> </ul> |
|              | Discharged                                                                               |

### Note:

- When the battery is low, the cordless handset beeps intermittently while it is in use.

### Panasonic battery performance

It should last up to 5 hours while in use (in conversation). It should last up to about 11 days while not in use (off the base unit).

It should last up to 3 hours while using the clarity booster feature (page 20).

### Note:

- Battery power is consumed whenever the cordless handset is off the base unit, even when the cordless

## 2. Preparation

handset is not in use. The longer you leave the cordless handset off the base unit, the shorter you can actually talk using the cordless handset.

- Once the battery is fully charged, you should not charge it again until **"Recharge battery"** is displayed and/or  flashes. This will maximize the battery life.

## 2.3 Quick Setup

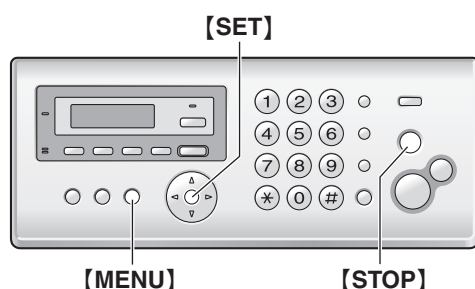
You can print out the quick fax setup guide and select the desired receiving mode depending on your situation.

**[1] "TAM/FAX"** (default): Use as a telephone answering machine and/or fax (page 34).

**[2] "DIST. RING"**: With the Distinctive Ring service (page 36).

**[3] "TEL ONLY"**: Mostly phone calls (page 33).

**[4] "FAX ONLY"**: Use only as a fax (page 34).

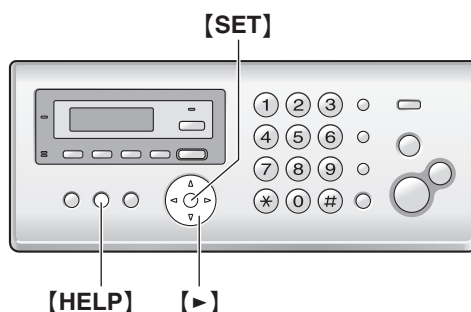


- 1 **[MENU] → [Ⓜ][0][0] → [SET]**
- 2 Press **[SET]** again to print the quick fax setup guide.
  - If you do not wish to print it, press **[STOP]**.
- 3 Press **[1]** to **[4]** to display the desired setting. → **[SET] → [MENU]**

## 2.4 Base unit help function

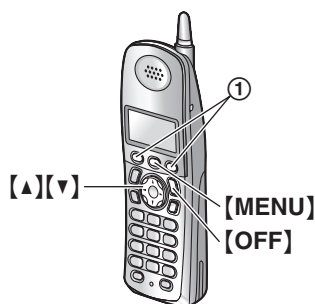
The unit contains helpful information on the following topics which can be printed for reference purposes, as follows:

- **"FILM ORDER SHEET"**
- **"SEND GUIDE"**
  - This information is announced by a voice guide and is not printed out.
- **"BASIC SETTINGS"**
- **"FEATURE LIST"**
- **"TAM OPERATION"**
- **"FAX SND/RCV"**
- **"COPIER"**
- **"Q and A"**
- **"ERRORS"**
- **"REPORTS"**
- **"CALLER ID"**



- 1 **[HELP]**
- 2 Press **[>]** repeatedly to display the desired item. → **[SET]**

## 2.5 Adjusting cordless handset volume



### Ringer volume

1. **[MENU]** → **[1][1]**
2. Press **[0]** to **[3]** to select the desired volume.
  - [1]** Low
  - [2]** Medium
  - [3]** High
  - [0]** Off
3. **[Save]** (soft key ①)

### To turn the ringer OFF

Press **[0]** to display “OFF ?” in step 2.

- The cordless handset will not ring for outside calls. The cordless handset will ring at the low level for intercom calls.
- To turn the ringer back ON, press **[1]**, **[2]** or **[3]** in step 2.

### To turn the ringer OFF temporarily

While the cordless handset is ringing for an outside call, you can turn the cordless handset ringer OFF temporarily by pressing **[OFF]**.

### Ringer tone

- You can select the cordless handset ringer tone from one of 7 patterns for outside calls (feature 12 on page 45).

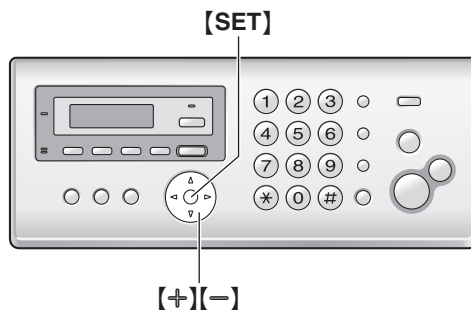
### Cordless handset receiver volume

While using the receiver, press **[▼]** or **[▲]**.

### Speaker volume

While using the speakerphone, press **[▼]** or **[▲]**.

## 2.6 Adjusting base unit volume



### Ringer volume

While the unit is idle, press **[+]** or **[-]**.

- If there are any documents in the document entrance, you cannot adjust the volume. Confirm that there are no documents in the entrance.

### To turn the ringer OFF

Press **[-]** repeatedly to display “**RINGER OFF= OK?**”.  
→ **[SET]**

- The base unit will not ring for outside calls. The base unit will ring at the low level for intercom calls.
- To turn the ringer back ON, press **[+]**.

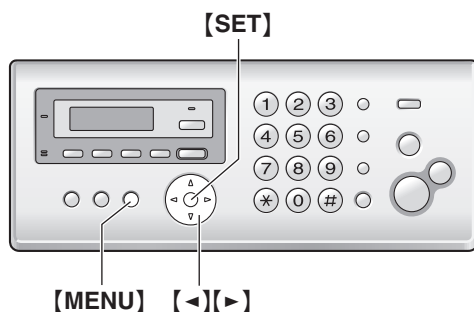
### Ringer tone

- You can select the base unit ringer tone from one of 3 patterns for outside calls (feature #17 on page 45).

### Speaker volume

While using the speakerphone, press **[+]** or **[-]**.

### 2.7 Date and time



- 1 [MENU] → [Ⓜ][0][1] → [SET]

M: 01/D: 01/Y: 06  
TIME: 12:00AM

- 2 Enter the current month/date/year/hour/minute by selecting 2 digits for each.

**Example: August 10, 2006 10:15 PM (12 hour clock format)**

1. Press [0][8][1][0][0][6][1][0][1][5].

M: 08/D: 10/Y: 06  
TIME: 10:15AM

2. Press [✱] repeatedly to select "PM".

- 3 [SET]

- 4 Press [MENU] to exit.

#### Note:

- The other party's fax machine will print the date and time on the top of each page you send according to your unit's date and time setting.

#### To correct a mistake

Press [◀] or [▶] to move the cursor to the incorrect number, and make the correction.

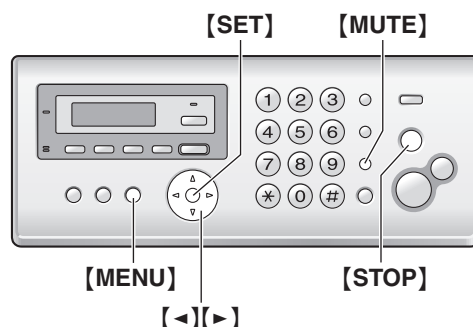
#### If you have subscribed to a Caller ID service

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 #33 on page 47).

### 2.8 Your logo

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



- 1 [MENU] → [Ⓜ][0][2] → [SET]

LOGO=

- 2 Enter your logo, up to 30 characters. See the following character table for details. → [SET]
- 3 Press [MENU] to exit.

#### To select characters with the dial keypad

| 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 (Space)              |
| [✱]    | *                      |
| [Ⓜ]    | #                      |
| [MUTE] | To insert a space.     |
| [STOP] | To delete a character. |

#### Note:

- To enter a character that is located on the same dial key as the previously entered character, you must first press [▶] to move the cursor to the next space.

**To enter your logo**

Example: "BILL"

1. Press **[2]** 5 times.

LOGO=B

2. Press **[4]** 6 times.

LOGO=BI

3. Press **[5]** 6 times.

LOGO=BIL

4. Press **[>]** to move the cursor to the next space and press **[5]** 6 times.

LOGO=BILL

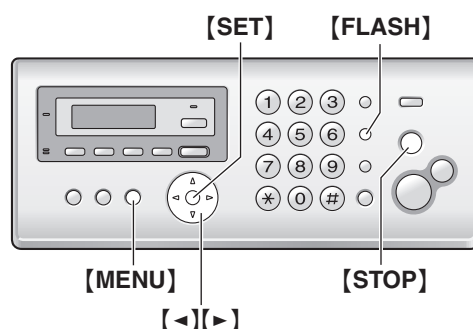
**To correct a mistake**

Press **[<]** or **[>]** to move the cursor to the incorrect character, and make the correction.

- To erase all of the characters, press and hold **[STOP]**.

**2.9 Your fax number**

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



- 1 **[MENU]** → **[\*][0][3]** → **[SET]**

NO. =

- 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.

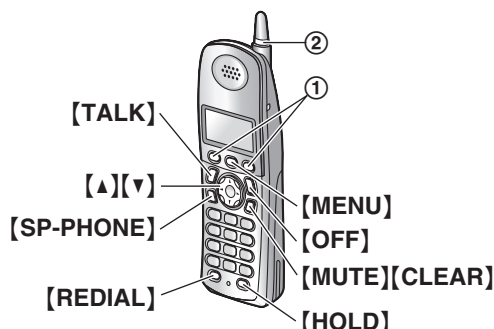
**To correct a mistake**

Press **[<]** or **[>]** to move the cursor to the incorrect number, and make the correction.

- To erase all of the numbers, press and hold **[STOP]**.

### 3.1 Making phone calls

#### 3.1.1 With the cordless handset



- 1 Lift the cordless handset and press **[TALK]**.
  - To make hands-free phone calls, press **[SP-PHONE]**.
- 2 Dial the telephone number.
- 3 To hang up, press **[OFF]** or place the cordless handset on the base unit.

#### Note:

- While talking using **[TALK]**, you can switch to a hands-free phone conversation by pressing **[SP-PHONE]**. To switch back, press **[TALK]**.
- You can also dial by performing step 2 before step 1.

#### To mute your conversation

When the call is muted, you will be able to hear the other party but the other party will not be able to hear you.

Press **[MUTE]**.

- To release the mute, press **[MUTE]**.
- When you switch between the receiver and the speaker (hands-free), the mute will be released.

#### Voice enhancer feature

This feature clarifies the voice of the person you are talking to, reproducing a more natural-sounding voice that is easier to hear and understand. You can turn this feature ON or OFF during a conversation.

1. Press **[MENU]** during an outside call.
2. Press **[3]** to turn ON or OFF.
  - When turned ON, **(VE)** will be displayed.
  - The selected setting will remain until changed.

#### Note:

- You can also turn this feature ON or OFF through programming (feature 5 on page 50).

#### Clarity booster

This feature can improve sound clarity when the cordless handset is used in an area where there may be interference. During an outside call, this feature is turned ON automatically when necessary. This feature will turn

OFF when you hang up or put a call on hold. It will not turn OFF automatically during a call. You can also turn this feature ON or OFF manually.

1. Press **[MENU]** during an outside call.
2. Press **[2]** to select “**Booster on**” or “**Booster off**”.
  - While this feature is turned on, “**BOOST**” will flash on the display.

#### Note:

- If this feature is turned OFF manually during a call, it will not be turned ON automatically during the same call.
- While this feature is turned ON, battery performance will be shortened (page 15).

#### To put a call on hold

Press **[HOLD]**.

- To release the hold, press **[TALK]** or **[SP-PHONE]** on the cordless handset or **[SP-PHONE]** on the base unit.
- If a call is kept on hold for more than 6 minutes, beeps will start to sound and the ringer indicator (②) will flash rapidly. After 4 additional minutes on hold, the call will be disconnected.

#### To redial the last number dialed from the cordless handset

Press **[TALK]** or **[SP-PHONE]**. → **[REDIAL]**

#### To redial using the redial list (Memory redial)

The last 5 phone numbers dialed from the cordless handset are stored in the redial list.

1. **[REDIAL]**
2. Press **[▼]** or **[▲]** repeatedly to select the desired number.
  - To delete the displayed number, press **[CLEAR]**.
  - To exit the list, press **[OFF]**.
3. **[TALK]**, **[SP-PHONE]** or **[Call]** (soft key ①).

### 3.1.2 With the base unit



- 1 **[SP-PHONE]**
- 2 Dial the telephone number.
- 3 To hang up, press **[SP-PHONE]**.

**Note:**

- To switch to the cordless handset while using the base unit speakerphone:
  - If the cordless handset is off the base unit, press **[TALK]** or **[SP-PHONE]**.
  - If on the base unit, just lift up.
- You can also dial by performing step 2 before step 1.

#### To redial the last number dialed from the base unit

Press **[SP-PHONE]**. → **[REDIAL]**

#### To mute your conversation

When the call is muted, you will be able to hear the other party but the other party will not be able to hear you.

Press **[MUTE]**.

- To release the mute, press **[MUTE]**.

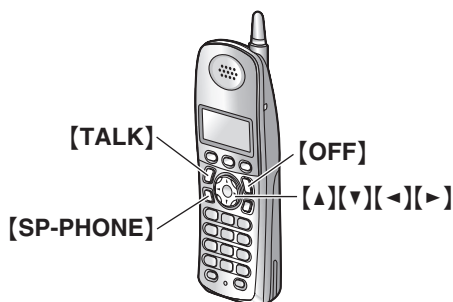
#### To put a call on hold

Press **[LOCATOR]**.

- To release the hold, press **[SP-PHONE]** on the base unit or **[TALK]** or **[SP-PHONE]** on the cordless handset.
- If a call is kept on hold for more than 6 minutes, beeps will start to sound. After 4 additional minutes on hold, the call will be disconnected.

## 3.2 Answering phone calls

### 3.2.1 With the cordless handset

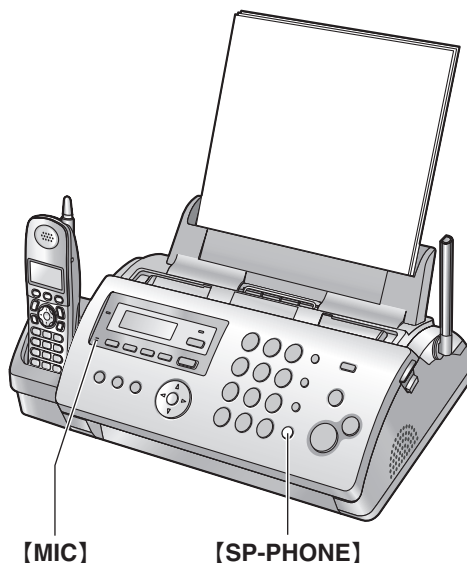


- 1 Lift the cordless handset and press **[TALK]** or **[SP-PHONE]**.
  - You can also answer a call by pressing any button except [▼], [▲], [◀], [▶] or **[OFF]** (Any key talk feature).
- 2 To hang up, press **[OFF]** or place the cordless handset on the base unit.

#### Auto talk feature (Cordless handset)

This feature allows you to answer a call by simply lifting the cordless handset off the base unit (feature 03 on page 50).

### 3.2.2 With the base unit



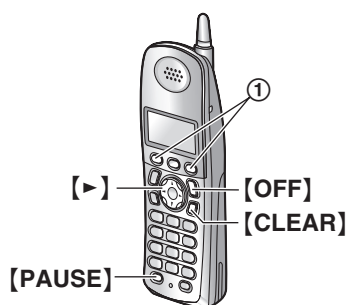
- 1 Press **[SP-PHONE]** and talk into **[MIC]**.
- 2 To hang up, press **[SP-PHONE]**.

### 3.3 Storing names and telephone numbers into the phonebook

The base unit and cordless handset provide a phonebook (50 items each).

- Items stored in the phonebook can be copied between the base unit and the cordless handset (page 24).

#### 3.3.1 With the cordless handset



- [Phonebook]** (soft key ①)
- [Add]** (soft key ①)
- Enter the name, up to 16 characters. See the following character table for details. → **[Next]** (soft key ①)
- Enter the telephone number, up to 32 digits.
  - To enter a pause, press **[PAUSE]**.
- [Next]** (soft key ①) → **[Save]** (soft key ①)
  - To program other items, repeat steps 2 to 5.
- [OFF]**

#### To select characters with the dial keypad

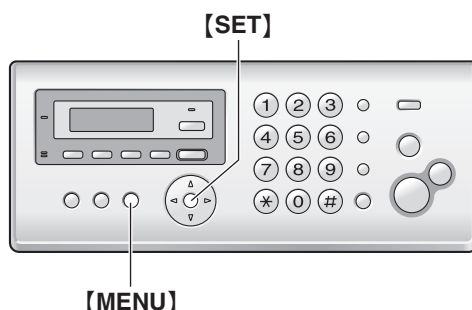
| Keypad | Characters        |
|--------|-------------------|
| [1]    | & ' ( ) , - . / 1 |
| [2]    | a b c A B C 2     |
| [3]    | d e f D E F 3     |
| [4]    | g h i G H I 4     |
| [5]    | j k l J K L 5     |
| [6]    | m n o M N O 6     |
| [7]    | p q r s P Q R S 7 |
| [8]    | t u v T U V 8     |
| [9]    | w x y z W X Y Z 9 |
| [0]    | 0 (Space)         |
| [*]    | *                 |
| [#]    | #                 |

| Keypad  | Characters             |
|---------|------------------------|
| [CLEAR] | To delete a character. |

#### Note:

- To enter a character that is located on the same dial key as the previously entered character, you must first press **[▶]** to move the cursor to the next space.
- To erase all of the characters/numbers, press and hold **[CLEAR]**.

#### 3.3.2 With the base unit



- Press **[MENU]** repeatedly to display “**PHONEBOOK SET**”. → **[\*]**
- Enter the name, up to 16 characters (see page 18 for instructions). → **[SET]**
- Enter the telephone number, up to 32 digits. → **[SET]**
  - To program other items, repeat steps 2 to 3.
- [MENU]**

#### Helpful hints:

- For your convenience, HELP-FAX (1-800-435-7329) has been stored in the base unit phonebook. If you cannot solve a problem, call this number from the base unit (page 23). If not needed, you can erase it (page 23).

### 3.4 Making a phone call using the phonebook

#### 3.4.1 With the cordless handset

- [Phonebook]** (soft key) → **[Search]** (soft key)
- Press **[▼]** or **[▲]** repeatedly to display the desired item.
  - To exit the phonebook, press **[OFF]**.
- [TALK]**, **[SP-PHONE]** or **[Call]** (soft key).

#### To search for a name by initial

Example: “LISA”

- [Phonebook]** (soft key) → **[Search]** (soft key)
- Press **[5]** repeatedly to display any name with the initial “L” (see the character table, page 22).

- To search for symbols, press **[1]**, **[\*]** or **[#]**.
- Press **[▼]** repeatedly to display “**LISA**”.
    - To stop the search, press **[OFF]**.
    - To dial the displayed number, press **[TALK]**, **[SP-PHONE]** or **[Call]** (soft key).

### Chain dial feature

You can dial a combination of phonebook items during the same call. This feature is useful if for example, you want to dial a number, then enter a PIN. All items must be stored in the phonebook beforehand (page 22).

- During a phone call, press **[MENU]**.
- Press **[1]** to select “**Phonebook**”.
- Press **[▼]** or **[▲]** repeatedly to display the desired item.
  - To search for a name by initial, see page 22.
- [Call]** (soft key)
  - If required, repeat steps 1 to 4 for any remaining numbers.

### Note:

- If you have rotary or pulse service, you need to press **[\*]** before pressing **[MENU]** in step 1 to change the dialing mode temporarily to tone.
- To prevent misdialing, we recommend you add pauses where needed when storing numbers. For example, add pauses after a telephone number when storing in the phonebook (page 22) if a PIN number is to be dialed after it.

## 3.4.2 With the base unit

- [PHONEBOOK]**
- Press **[+]** or **[-]** repeatedly to display the desired item. → **[SP-PHONE]**

### To search for a name by initial

Example: “**LISA**”

- [PHONEBOOK]**
- Press **[+]** or **[-]** to initiate the phonebook.
- Press **[5]** repeatedly to display any name with the initial “**L**” (see the character table, page 18).
  - To search for symbols, press **[1]**, **[\*]** or **[#]**.
- Press **[-]** repeatedly to display “**LISA**”.
  - To stop the search, press **[STOP]**.
  - To dial the displayed number, press **[SP-PHONE]**.

## 3.5 Editing a stored item

### 3.5.1 With the cordless handset

- [Phonebook]** (soft key) → **[Search]** (soft key)
- Press **[▼]** or **[▲]** repeatedly to display the desired item.
- [Edit]** (soft key)

- If you do not need to edit the name, skip to step 5.

- Edit the name. For further details, see the storing procedure on page 22.
- [Next]** (soft key)
  - If you do not need to edit the telephone number, skip to step 7.
- Edit the telephone number. For further details, see the storing procedure on page 22.
- [Next]** (soft key) → **[Save]** (soft key) → **[OFF]**

### 3.5.2 With the base unit

- [PHONEBOOK]**
- Press **[+]** or **[-]** repeatedly to display the desired item. → **[MENU]**
- [\*]**
  - If you do not need to edit the name, skip to step 5.
- Edit the name. For further details, see the storing procedure on page 22.
- [SET]**
  - If you do not need to edit the telephone number, skip to step 7.
- Edit the telephone number. For further details, see the storing procedure on page 22.
- [SET]**

## 3.6 Erasing a stored item

### 3.6.1 Erasing a specific item

#### With the cordless handset

- [Phonebook]** (soft key) → **[Search]** (soft key)
- Press **[▼]** or **[▲]** repeatedly to display the desired item. → **[CLEAR]** → **[Yes]** (soft key)
  - To cancel erasing, press **[No]** (soft key).
- [OFF]**

#### With the base unit

- [PHONEBOOK]**
- Press **[+]** or **[-]** repeatedly to display the desired item. → **[MENU]** → **[#]**
  - To cancel erasing, press **[STOP]**.
- [SET]**

### 3.6.2 Erasing all items

#### With the base unit

- [PHONEBOOK]** → **[ERASE]**
- Press **[+]** or **[-]** repeatedly to select “**YES**”. → **[SET]**
  - To cancel erasing, press **[STOP]**.
- [SET]**

---

## 3.7 One touch dial (Base unit only)

Base unit dial keys [1] to [9] can each be used as a one touch dial key, allowing you to dial a number from the base unit's phonebook by simply pressing a dial key.

---

### 3.7.1 Assigning an item to a one touch dial key

- 1 [PHONEBOOK]
- 2 Press [⊕] or [⊖] repeatedly to display the desired item. → [MENU] → [0]
- 3 Press [⊕] or [⊖] repeatedly to select a desired dial key.
  - When the dial key is already used as a one touch dial key, ✓ is displayed next to the dial key number. If you select this dial key, you can overwrite the previous assignment.
- 4 [SET] → [SET]
  - To program other items, repeat steps 2 to 4.
- 5 [STOP]

---

### 3.7.2 Making a call using a one touch dial key

- 1 Press and hold the desired one touch dial key ([1] to [9]).
  - You can view other one touch dial assignments by pressing [⊕] or [⊖].
- 2 [SP-PHONE]

---

### 3.7.3 Erasing a one touch dial assignment

- 1 Press and hold the desired one touch dial key ([1] to [9]). → [ERASE]
  - To cancel erasing, press [STOP].
- 2 [SET]

#### Note:

- The number erased from a one touch dial key will not be deleted from the phonebook. To erase from the phonebook, see page 23.

---

## 3.8 Copying phonebook items

One or all phonebook items can be copied to or from the cordless handset and the base unit. The destination unit will save the items in its phonebook.

---

### 3.8.1 To the base unit (using the cordless handset)

---

#### Copying one phonebook item

1. [MENU]

2. Press [▼] or [▲] repeatedly to display “Copy phonebook”. → [▶]
3. Press [▼] or [▲] repeatedly to display “Copy 1 item”. → [▶]
4. Press [▼] or [▲] repeatedly to display the desired item.
5. [Send] (soft key)
  - To copy another item, repeat steps 4 and 5.
6. After copying is completed, press [OFF]

---

#### Copying all the phonebook items

1. [MENU]
2. Press [▼] or [▲] repeatedly to display “Copy phonebook”. → [▶]
3. Press [▼] or [▲] repeatedly to display “Copy all items”. → [▶]
4. After copying is completed, press [OFF].

---

### 3.8.2 To the cordless handset (using the base unit)

---

#### Copying one phonebook item

1. [MENU] → [⏏][5][9]
2. Press [1] to display “1 ITEM”. → [SET]
3. Press [⊕] or [⊖] repeatedly to display the desired item.
4. [SET]
  - To copy another item, repeat steps 3 and 4.
5. After copying is completed, press [MENU]

---

#### Copying all the phonebook items

1. [MENU] → [⏏][5][9]
2. Press [2] to display “ALL ITEMS”. → [SET]

### 3.9 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.**

- TAM ring count (feature #06 or feature 061 on page 44) and FAX ring count (feature #06 on page 44)
- The name display service may not be available in some areas. For further information, please contact your telephone company.

#### 3.9.1 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, date and time of the call, the number of times called) from the 30 (base unit)/50 (cordless handset) most recent callers.

It is possible to view caller information one at a time on the display (page 25) or print the entire Caller ID list (page 67).

- 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.
- If the cordless handset has lost communication with the base unit when a call is received, caller information will not be recorded in the cordless handset.

#### To confirm caller information using the Caller ID list (Base unit only)

- To print manually, see page 67.
- To print automatically after every 30 new calls, activate feature #26 (page 46).

#### Call Waiting Caller ID feature

If you subscribe to both Caller ID and Call Waiting services, when a second call is received during a conversation, you will hear a call-waiting tone and the display will show the second caller's information.

Press **[Flash]** (soft key) on the cordless handset or **[CALL WAIT]** on the base unit to answer the second call.

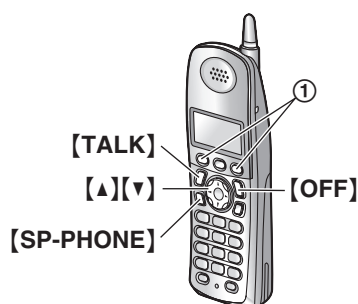
- To return to the first caller, press **[Flash]** (soft key) on the cordless handset or **[CALL WAIT]** on the base unit again.

#### Note:

- The second caller's information will not be displayed when:
  - the first call is placed on hold,
  - the answering machine is recording an incoming message,
  - an extension telephone on the same line is in use, or
  - you are sending or receiving a fax document.
- Please contact your telephone company for details and the availability of this service in your area.

### 3.10 Viewing and calling back

#### 3.10.1 With the cordless handset



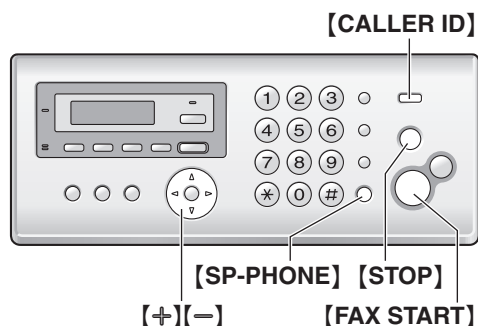
The unit will tell you how many calls you missed while you were out or unavailable to answer the phone.

Example:

2 missed calls

- 1 Press **[▼]** or **[▲]** to display "Caller list".
  - You can also press **[Rcvd calls]** (soft key ①).
- 2 Press **[▼]** to search from the recently received caller information.
  - If you press **[▲]**, the display order will be reversed.
- 3 Press **[TALK]** or **[SP-PHONE]** to return the call.

#### 3.10.2 With the base unit



##### 1 [CALLER ID]

2 Press **[−]** to search from the recently received caller information.

- If you press **[+]**, the display order will be reversed.

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

- To send a fax, insert the document FACE DOWN and press **[FAX START]**.

#### To change the way caller information is displayed

Press **[CALLER ID]** repeatedly after step 2.

Example:

|                                    |
|------------------------------------|
| <b>SAM LEE</b><br>11:20A Jul. 20 ✓ |
| ↑                                  |
| 1-134-567-8901<br>11:20A Jul. 20 ✓ |

#### 3.10.3 Symbols and operations for caller information

##### What “✓” means

“✓” on the display means the call has already been viewed or answered.

##### If the same person calls more than once

The number of times the same caller called (“×2” to “×9”) will be displayed. Only the date and time of the most recent call will be stored.

**Example: The same person called 3 times.**

|                                     |
|-------------------------------------|
| <b>SAM LEE</b><br>10:30P Jul. 20 ×3 |
|-------------------------------------|

##### To stop viewing

Press **[OFF]** on the cordless handset or **[STOP]** on the base unit.

##### To edit a telephone number before calling back/storing

While displaying a desired caller information, press **[Edit]** (soft key) on the cordless handset or **[\*]** on the base unit repeatedly. Each time you press **[Edit]** (soft

key) on the cordless handset or **[\*]** on the base unit, the telephone number will be changed as follows:

- ① Local telephone number only (area code omitted)
- ② Area code – Local telephone number
- ③ 1 – Area code – Local telephone number (“1” added)
  - To return a call, press **[TALK]** or **[SP-PHONE]** on the cordless handset or **[SP-PHONE]** on the base unit.
  - To store the number in the cordless handset phonebook, follow from step 2 of the cordless handset storing procedure on page 27.
  - To store the number in the base unit phonebook, follow from step 3 of the base unit storing procedure on page 27.

### 3.11 Caller ID number auto edit feature

Once you call back an edited number, the unit can automatically edit other incoming phone numbers each time you receive a call.

For example, you can use this feature to set the unit to ignore the area code of callers in your area code, so that you can call these local numbers using caller information without dialing the area code.

To activate this feature, you must edit an item in the caller list, then call that number. After that, calls from that caller’s area code will be edited automatically.

This feature can be turned ON using either the cordless handset or the base unit. The default setting is ON.

#### 3.11.1 Turning ON the Caller ID number auto edit feature (Cordless handset)

- 1 **[MENU] → [0][4]**
- 2 Press **[1]** to select “on”.
  - Press **[0]** to select “off”.
- 3 **[Save]** (soft key) → **[OFF]**

#### 3.11.2 Turning ON the Caller ID number auto edit feature (Base unit)

- 1 **[MENU] → [⦿][7][5]**
- 2 Press **[1]** to select “ON”.
  - Press **[0]** to select “OFF”.
- 3 **[SET] → [MENU]**

##### Note:

- The cordless handset and base unit can remember up to 4 area codes each to be edited. Phone numbers from the 4 most recently edited area codes will be automatically edited.
- This feature will not be activated until edited numbers are called back.
- If you move to another area, you can turn this feature OFF to erase previously edited area codes. To use this feature again, turn it ON and reprogram the area codes you want to edit once again.

## 3.12 Erasing caller information

### 3.12.1 Erasing all caller information

#### With the cordless handset

- 1 Press [**▼**] or [**▲**] to display “**Caller list**”. → [**All erase**] (soft key)
  - To cancel erasing, press [**No**] (soft key), then [**OFF**].
- 2 [**Yes**] (soft key)

#### With the base unit

- 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**]

### 3.12.2 Erasing specific caller information

#### With the cordless handset

Press [**▼**] or [**▲**] repeatedly to display the desired item.  
→ [**CLEAR**] → [**OFF**]

#### With the base unit

- 1 [**CALLER ID**]
- 2 Press [**+**] or [**–**] repeatedly to display the desired item. → [**ERASE**] → [**STOP**]

## 3.13 Storing caller information into the phonebook

### 3.13.1 Into the cordless handset

- 1 Press [**▼**] or [**▲**] repeatedly to display the desired item.
  - If the number requires editing, see page 26.
- 2 [**Save**] (soft key)
  - If a name has not been received, “**Enter name**” will be displayed.
    1. Enter the name if necessary (see page 22 for instructions).
    2. [**Next**] (soft key) → [**Save**] (soft key)
- 3 [**OFF**]

### 3.13.2 Into the base unit

- 1 [**CALLER ID**]
- 2 Press [**+**] or [**–**] repeatedly to display the desired item.
  - If the number requires editing, see page 26.
- 3 [**MENU**] → [**SET**] → [**SET**]

---

## 3.14 Intercom

Intercom calls can be made between the cordless handset and the base unit.

---

### 3.14.1 Making intercom calls

#### With the cordless handset

- 1 [INTERCOM]**
  - The base unit will beep (be paged) for 1 minute.
  - To stop paging, press **[OFF]**.
- 2** When the paged party answers, talk into the cordless handset.
- 3** To end the intercom call, press **[OFF]**.

#### With the base unit

You can also locate a misplaced cordless handset by paging it (**Cordless handset locator**).

- 1 [INTERCOM]**
  - The cordless handset will beep (be paged) for 1 minute.
  - To stop paging, press **[SP-PHONE]** or **[INTERCOM]**.
- 2** When the paged party answers, talk into **[MIC]**.
- 3** To end the intercom call, press **[SP-PHONE]** or **[INTERCOM]**.

---

### 3.14.2 Answering intercom calls

#### With the cordless handset

When the cordless handset is being paged, it will beep (be paged) and the ringer indicator will flash rapidly.

- 1** Press **[TALK]**, **[SP-PHONE]** or **[INTERCOM]** to answer the page.
- 2** To end the intercom call, press **[OFF]**.

#### With the base unit

When the base unit is being paged, it will beep.

- 1** Press **[SP-PHONE]** or **[INTERCOM]** to answer the page.
- 2** To end the intercom call, press **[SP-PHONE]** or **[INTERCOM]**.

---

## 3.15 Transferring a call

A telephone call can be transferred between the base unit and the cordless handset using the intercom feature.

---

### 3.15.1 To transfer a call from the cordless handset

- 1 Cordless handset:**

During a phone call, press **[INTERCOM]** 2 times to page the base unit.

- The call will be put on hold.

- 2 Base unit:**

Press **[SP-PHONE]** or **[INTERCOM]** to answer the page.

- 3 Cordless handset:**

To complete the transfer, press **[OFF]**.

---

### 3.15.2 To transfer a call from the base unit

- 1 Base unit:**

During a phone call, press **[INTERCOM]** 2 times to page the cordless handset.

- The call will be put on hold.

- 2 Cordless handset:**

Press **[TALK]**, **[SP-PHONE]** or **[INTERCOM]** to answer the page.

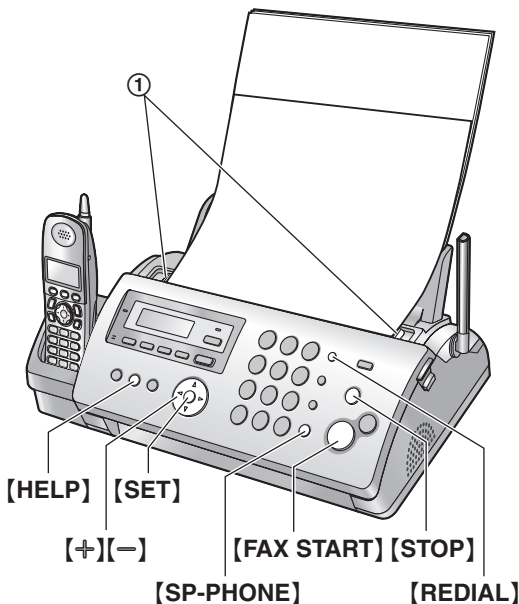
- 3 Base unit:**

To complete the transfer, press **[SP-PHONE]**.

#### Note:

- If the paged party does not answer the call, press **[TALK]**, **[SP-PHONE]** on the cordless handset or **[INTERCOM]** on the base unit to return to the call.

## 4.1 Sending a fax manually



- 1 Adjust the width of the document guides (①) to fit the actual size of the document.
- 2 Insert the document (up to 10 pages) FACE DOWN until a single beep is heard and the unit grasps the document.
- 3 If necessary, press **[+]** or **[-]** repeatedly to select the desired resolution. → **[SP-PHONE]**
- 4 Dial the fax number.
- 5 **When a fax tone is heard:**  
Press **[FAX START]**.

### When the other party answers your call:

Ask them to press their start button. When the fax tone is heard, press **[FAX START]**.

### To select the resolution

Select the desired resolution according to the character size.

- “**STANDARD**”: For normal-sized characters.
- “**FINE**”: For small-sized characters.
- “**SUPER FINE**”: For very small-sized characters.
- “**PHOTO**”: For photographs, shaded drawings, etc.
- Using the “**FINE**”, “**SUPER FINE**” and “**PHOTO**” settings will increase transmission time.

### To redial the last number

**[REDIAL]** → **[FAX START]**

- If the line is busy, the unit will automatically redial the number.
- To cancel redialing, press **[STOP]**.

### To send more than 10 pages at a time

Insert the first 10 pages of the document. Add the other pages (up to 10 at a time) on top of the previously inserted pages while the last page is being fed into the unit.

### Pre-dialing a fax number

1. Enter the fax number.
2. Insert the document.
3. **[FAX START]**

### Sending from memory (Quick scan feature)

To use this feature, activate feature #34 (page 47) beforehand.

1. Insert the document.
2. Enter the fax number. → **[FAX START]**
  - If the document exceeds the memory capacity, transmission will be canceled and this feature will be turned OFF automatically. You must send the entire document manually.
  - This feature cannot be used if **[SP-PHONE]** on the base unit, or **[TALK]** or **[SP-PHONE]** on the cordless handset is pressed.

### To stop sending

Press **[STOP]**.

### Sending a fax with the voice guide

You can send documents by following the voice guide.

1. Press **[HELP]** 2 times. → **[SET]**
2. Follow the voice guide.

### Printing a confirmation report

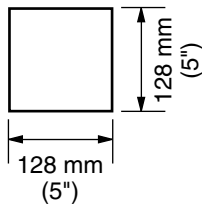
A confirmation report provides you with a printed record of transmission results (errors, etc.). To print confirmation reports, make sure feature #04 is activated (page 44). The default setting is “**ERROR**”. For an explanation of error messages, see page 53.

### Printing a journal report

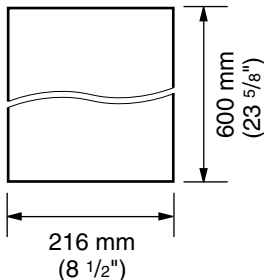
A journal report provides you with a printed record of the 30 most recent fax transmissions and receptions. To print it manually, see page 67. To print it automatically after every 30 new fax transmissions and receptions, make sure feature #22 is activated (page 46). For an explanation of error messages, see page 53.

## 4.2 Document requirements

### Minimum document size

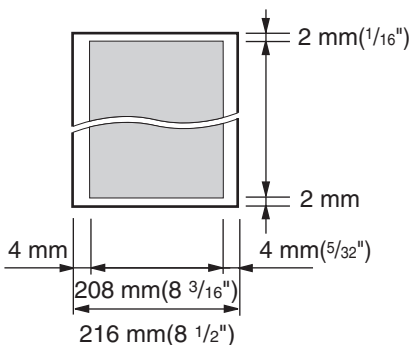


### Maximum document size



### Effective scanning area

- Shaded area will be scanned.



### Document weight

- Single sheet:  
45 g/m<sup>2</sup> to 90 g/m<sup>2</sup> (12 lb. to 24 lb.)
- Multiple sheets:  
60 g/m<sup>2</sup> to 80 g/m<sup>2</sup> (16 lb. to 21 lb.)

### Note:

- Remove clips, staples or other fasteners.
- Do not send the following types of documents: (Make a copy of the document using another copier and send the copy.)
  - Chemically treated paper such as carbon or carbonless duplicating paper
  - Electrostatically charged paper
  - Badly curled, creased or torn paper
  - Paper with a coated surface
  - Paper with a faint image
  - Paper with printing on the opposite side that can be seen through the other side, such as newsprint

- Check that ink, paste or correction fluid has dried completely.
- To send a document with a width of less than 210 mm (8 1/4"), we recommend using a copy machine to copy the original document onto A4 or letter-sized paper, then sending the copied document.

## 4.3 Sending a fax using the phonebook and one touch dial

Before using this feature, store the desired names and telephone numbers into the base unit's phonebook (page 22) and one touch dial (page 24).

- Adjust the width of the document guides to fit the actual size of the document.
- Insert the document (up to 10 pages) **FACE DOWN** until a single beep is heard and the unit grasps the document.
- If necessary, press **[+]** or **[-]** repeatedly to select the desired resolution (page 29).

### 4 Using the phonebook:

- [PHONEBOOK]**
- Press **[+]** or **[-]** repeatedly to display the desired item. → **[FAX START]**

### Using one touch dial:

- Press and hold the desired one touch dial key (**[1]** to **[9]**).
  - You can view other one touch dial assignments by pressing **[+]** or **[-]**.
- [FAX START]**

### Fax auto redial

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

- To cancel redialing, press **[STOP]**.

## 4.4 Broadcast transmission

By storing the base unit's phonebook items (page 22) into the broadcast memory, you can send the same document to multiple parties (up to 20). Your programmed items will remain in the broadcast memory, allowing frequent re-use.

### 4.4.1 Programming items into the broadcast memory

- 1 Press **[MENU]** repeatedly to display "BROADCAST SET". → **[⇐]**
- 2 Press **[+]** or **[-]** repeatedly to display the desired item. → **[SET]**
  - The number in brackets indicates the number of registered items.
  - If you have programmed the wrong item, press **[STOP]** to erase the item.
  - To program other items, repeat step 2 (up to 20 items).
- 3 **[SET]**

### 4.4.2 Adding a new item into the broadcast memory

- 1 **[PHONEBOOK]**
- 2 Press **[+]** or **[-]** repeatedly to display "<BROADCAST>". → **[MENU]** → **[\*]**
- 3 Press **[+]** or **[-]** repeatedly to display the desired item. → **[SET]**
  - To add other items, repeat step 3 (up to 20 items).
- 4 **[STOP]**

### 4.4.3 Erasing a stored item from the broadcast memory

- 1 **[PHONEBOOK]**
- 2 Press **[+]** or **[-]** repeatedly to display "<BROADCAST>". → **[MENU]** → **[⇐]**
- 3 Press **[+]** or **[-]** repeatedly to display the desired item you want to erase.
  - To cancel erasing, press **[STOP]**.
- 4 **[SET]** → **[SET]** → **[STOP]**

### 4.4.4 Sending the same document to pre-programmed parties

- 1 Insert the document FACE DOWN.
- 2 If necessary, press **[+]** or **[-]** repeatedly to select the desired resolution (page 29). → **[PHONEBOOK]**
- 3 Press **[+]** or **[-]** repeatedly to display "<BROADCAST>". → **[FAX START]**

- After transmission, the unit will automatically print a report (**Broadcast sending report**).

#### Note:

- If you select "FINE", "SUPER FINE" or "PHOTO" resolution, the number of pages that the unit can send will decrease.
- If the document exceeds the memory capacity, transmission will be canceled.
- If a party is busy or does not answer, it will be skipped and redialed later.

#### To send the same document to a one-time group of items

1. Insert the document. → **[PHONEBOOK]**
2. Press **[+]** or **[-]** repeatedly to display "<ONE TIME BROAD>". → **[SET]**
3. Press **[+]** or **[-]** repeatedly to display the desired party. → **[SET]**
  - If you have programmed the wrong item, press **[STOP]** to erase the item.
  - To program other parties, repeat step 3 (up to 20 items).
4. Press **[FAX START]** to start transmission to the programmed parties.

#### To cancel broadcast transmission

Press **[STOP]** repeatedly to display "SEND CANCELED?". → **[SET]**

### 4.5 Selecting the way to use your fax machine

Depending on your situation, select the way you prefer to use your fax machine.

- Use as a telephone answering machine and/or fax (TAM/FAX mode)
- Use only as a fax (FAX ONLY mode)
- Use mostly as a telephone (TEL mode)

**Note:**

- See page 16 for quick setup.

#### 4.5.1 Use as a telephone answering machine and/or fax (TAM/FAX mode)

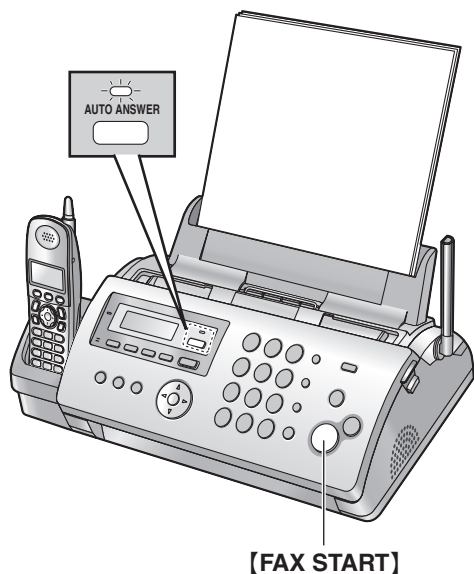
**Your situation**

You want to answer phone calls using the telephone answering machine and receive faxes automatically.

**Setup**

Set the fax machine to TAM/FAX mode (page 34) by pressing **[AUTO ANSWER]** repeatedly.

- The **[AUTO ANSWER]** indicator turns ON.



**Note:**

- Make sure feature #77 is set to “**TAM/FAX**” beforehand (page 49).
- Do not connect an answering machine to the same telephone line. If connected, set the automatic answer feature to OFF by pressing **[AUTO ANSWER]** repeatedly.
- It is not recommended to subscribe to voice mail service as it may disturb fax reception. If you do subscribe to a voice mail service, set the ring count of your voice mail service to 5 rings or greater.

**How phone calls and faxes are received**

If the call is a phone call, the fax machine will record the caller's message automatically.

If a fax calling tone is detected, the fax machine will receive the fax automatically.

#### 4.5.2 Use only as a fax (FAX ONLY mode)

**Your situation**

You have a separate telephone line just for faxes.

**Setup**

Set the fax machine to FAX ONLY mode (page 34) by pressing **[AUTO ANSWER]** repeatedly.

- The **[AUTO ANSWER]** indicator turns ON.



**Note:**

- Make sure feature #77 is set to “**FAX ONLY**” beforehand (page 49).

**How faxes are received**

All incoming calls will be answered as faxes.

#### 4.5.3 Use mostly as a telephone (TEL mode)

**Your situation**

You want to answer calls by yourself. If a fax call is received, you must receive the fax manually.

**Setup**

Set the fax machine to TEL mode (page 33) by pressing **[AUTO ANSWER]** repeatedly.

- The **[AUTO ANSWER]** indicator turns OFF.



**How to receive phone calls and faxes**

You have to answer all calls manually.

To receive a fax, press **[FAX START]**.

## 4.6 Receiving a fax manually – Auto answer OFF

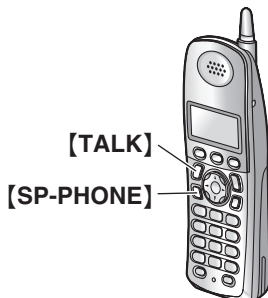
### Note:

- By default, the unit reduces the size of the received document to 92% when printing (See feature #36 on page 47 for details).

### 4.6.1 Activating TEL mode

Set the fax machine to TEL mode by pressing **[AUTO ANSWER]** repeatedly to display “TEL MODE”.

- The **[AUTO ANSWER]** indicator turns OFF.
  - When the unit has new messages, **[AUTO ANSWER]** indicator will flash. By pressing **[AUTO ANSWER]** when the indicator is flashing, the unit will play back all of the new messages. After playing back all of the new messages, the **[AUTO ANSWER]** indicator will stop flashing.
- To set to TEL mode, press **[AUTO ANSWER]** repeatedly.



### How to receive phone calls and faxes with the base unit

- Press **[SP-PHONE]** to answer the call.
- When:
  - document reception is required,
  - a fax calling tone (slow beep) is heard, or
  - no sound is heard,
 press **[FAX START]**.
  - If you do not answer the call within 10 rings, the unit will temporarily activate the answering machine. The greeting message will then be played and the other party can then send a fax.

### How to receive calls and faxes with the cordless handset

- Lift the cordless handset and press **[TALK]** or **[SP-PHONE]** to answer the call.
- 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**.
  - You can also press **[FAX START]** on the base unit.

### Note:

- To receive fax documents using the cordless handset, you must set the remote fax activation to ON (feature #41 on page 48) beforehand. The default setting is ON.

### To stop receiving

Press **[STOP]**.

### How to receive faxes with an extension telephone

- When the extension telephone rings, lift the handset of the extension telephone.
- 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**.
- Replace the handset.

### Note:

- To receive fax documents using the extension telephone, make sure remote fax activation is turned ON (feature #41 on page 48) beforehand. The default setting is ON.

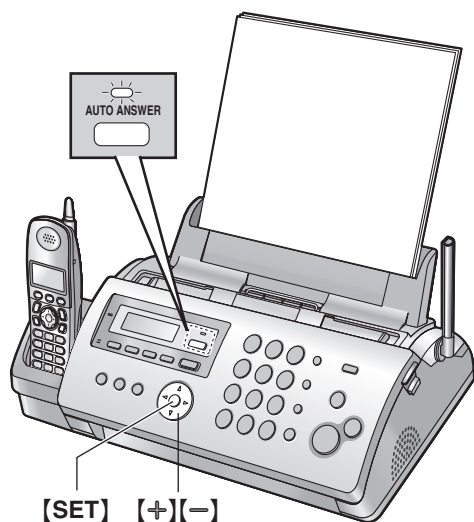
### 4.7 Receiving a fax automatically – Auto answer ON

#### Note:

- By default, the unit reduces the size of the received document to 92% when printing (See feature #36 on page 47 for details).

#### 4.7.1 Activating TAM/FAX mode (Telephone Answering Machine/Fax mode)

- 1 Make sure feature #77 is set to “**TAM/FAX**” (page 49) beforehand.
- 2 Press **[AUTO ANSWER]** repeatedly to display “**TAM/FAX MODE**”.
  - The display will show the ring count in TAM/FAX mode. If you wish to change it, press **[+]** or **[-]** repeatedly to display the desired setting, and press **[SET]**.
  - You can adjust the speaker volume after changing the ring count by pressing **[+]** or **[-]** while listening to the greeting message.
  - The **[AUTO ANSWER]** indicator turns ON.



#### Note:

- The maximum incoming message recording time can be changed (feature #10 or feature 062 on page 44).

#### How phone calls and faxes are received

When receiving calls, the unit works as an answering machine and/or fax.

#### 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 machine will answer the call.
2. The caller can leave a message after the greeting message.
  3. The caller presses **[\*][9]**.
    - The unit will activate the fax function.
  4. The caller presses the start button to send a fax.

#### Changing the ring count in TAM/FAX mode

You can select from “2” (default), “3”, “4” or “**TOLL SAVER**”. This setting can be changed by feature #06 or feature 061 on page 44.

- “**TOLL SAVER**”: The unit answers after 2 rings when new messages have been recorded, and after 4 rings when there are no new messages. If you call your unit from a remote location to listen to new messages (page 42), you will know that there are no messages when the unit rings for the 3rd time. You can then hang up without being charged for the call.

#### Note:

- If you set to “4”, receiving faxes may not be possible.

#### 4.7.2 Activating FAX ONLY mode

- 1 Make sure feature #77 is set to “**FAX ONLY**” (page 49) beforehand.
- 2 Press **[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]**. If you set to “4”, receiving faxes may not be possible.
  - The **[AUTO ANSWER]** indicator turns ON.
  - When the unit has new messages, the **[AUTO ANSWER]** indicator will flash. By pressing **[AUTO ANSWER]** when the indicator is flashing, the unit will play back all of the new messages. After playing back all of the new messages, the **[AUTO ANSWER]** indicator will stop flashing.To set to FAX ONLY mode, press **[AUTO ANSWER]** repeatedly.

#### How faxes are received

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

## 4.8 Junk fax prohibitor (preventing fax reception from undesired callers)

If you subscribe to Caller ID service (page 25), this feature prevents fax reception from calls that do not show caller information.

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

### Important:

- This feature does not work when manual reception is performed.

### 4.8.1 Activating the junk fax prohibitor

- 1 Press **[MENU]** repeatedly to display “JUNK FAX PROH.” → **[▶]**
- 2 Press **[+]** or **[−]** repeatedly to select “ON”. → **[SET]**
- 3 Press **[MENU]** to exit the program.

### 4.8.2 Storing undesired callers

You can register up to 10 undesired numbers from the Caller ID list (page 25) 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 item you wish to prevent the fax reception from. → **[SET]**
- 4 Press **[STOP]** to exit the program.

#### 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 item.
4. Press **[MENU]** to exit the program.

#### 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 **[MENU]** to exit the list.

#### 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. → **[ERASE]**
  - To cancel erasing, press **[STOP]**, then press **[MENU]**.
4. **[SET]** → **[MENU]**

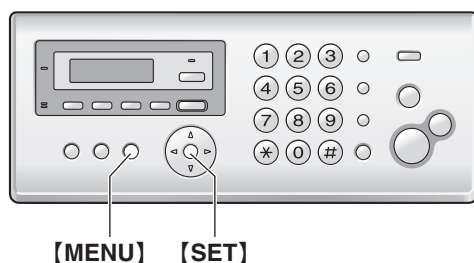
### 5.1 Distinctive Ring service

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 fax machine 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. Confirm your local telephone company for availability.**

### 5.2 Using two or more phone numbers on a single telephone line

#### 5.2.1 Activating the Distinctive Ring feature



- 1 **[MENU] → [∗][3][1]**
- 2 Press **[1]** to select “ON”.
  - Press **[0]** to select “OFF”.
- 3 **[SET] → [MENU]**

#### How phone calls and faxes are received

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

If the incoming call is for the phone number:

- the fax machine will keep on ringing in TEL mode.
- the fax machine will record a voice message in TAM/FAX mode.
- fax communication will be attempted in FAX ONLY mode.

#### Note:

- Be sure to select a tone (Tone 1 to 3) as the cordless handset ringer tone (feature 12 on page 45). If you select a melody, you will not be able to distinguish lines by their ringers.

### 5.3 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 in feature #32 (page 36). 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)<br><br>1st ring                  2nd ring              | <b>[1] “A”</b> |
| Double ring (two short rings)<br><br>1st ring                  2nd ring              | <b>[2] “B”</b> |
| Triple ring (short-long-short rings)<br><br>1st ring                  2nd ring       | <b>[3] “C”</b> |
| Other triple ring (short-short-long rings)<br><br>1st ring                  2nd ring | <b>[4] “D”</b> |

#### Note:

- The default setting is **[5] “B-D”**. The fax will respond to all calls with ring tone patterns “B”, “C” and “D”.

### 5.4 Programming the ring pattern assigned for fax

- 1 Set feature #31 to “ON” (page 36).
- 2 **[MENU] → [∗][3][2]**
- 3 Press **[1]** to **[5]** to select the ring pattern assigned for fax. → **[SET] → [MENU]**

## 6.1 Making a copy



- 1 Adjust the width of the document guides (①) to fit the actual size of the document.
- 2 Insert the document (up to 10 pages) **FACE DOWN** until a single beep is heard and the unit grasps the document.
- 3 If necessary, press **[+]** or **[-]** repeatedly to select the desired resolution.
  - If you select “**STANDARD**”, copying will be performed using “**FINE**” mode.
- 4 **[COPY]**
  - If necessary, enter the number of copies (up to 20).
- 5 Press **[START]**, or wait for about 15 seconds.
  - The unit will start copying.

### Note:

- Any document which can be sent as a fax can also be copied (page 30).

### To select the resolution

Select the desired resolution according to the character size.

- “**FINE**”: For small-sized characters.
- “**SUPER FINE**”: For very small-sized characters.
- “**PHOTO**”: For photographs, shaded drawings, etc.

### Copying from memory (Quick scan feature)

This feature is helpful when you want to copy the document, then remove it for other uses. To use this feature, activate feature #34 (page 47) beforehand. The default setting is OFF.

- If the document exceeds the memory capacity, copying of the exceeded document will be canceled and this feature will be turned OFF automatically.

### To stop copying

Press **[STOP]**.

## 6.1.1 More copying features

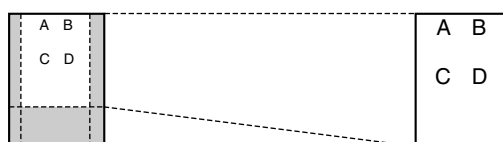
### To enlarge a document

1. Insert the document.
2. **[COPY]** → **[>]**
3. Press **[+]** repeatedly to select “150%” or “200%”. → **[START]**
  - The unit will enlarge the center of the upper part of the document. To make an enlarged copy of the bottom of the document, turn the document around, and then make a copy.

### Example: 150% enlarged copy

Original document

Enlarged copy



### To reduce a document

1. Insert the document.
2. **[COPY]** → **[>]**
3. Press **[-]** repeatedly to select “92%”, “86%” or “72%”, then press **[START]**.

| Setting             | Recording paper size | Original document size |
|---------------------|----------------------|------------------------|
| “100%”<br>(default) | Letter               | Letter                 |
|                     | A4                   | A4, Letter             |
| “92%”               | Letter               | A4                     |
| “86%”               | Letter               | A4                     |
| “72%”               | Letter               | Legal                  |
|                     | A4                   | Legal                  |

### Note:

- If the image at the bottom of the document is not copied when you copy a document that is the same length as the recording paper, try 92% or 86%.

### To collate multiple copies

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

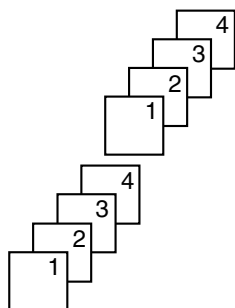
1. Insert the document.
2. **[COPY]**
3. Enter the number of copies (up to 20).
4. Press **[>]** 2 times to display “**COLLATE OFF**”.

## 6. Copy

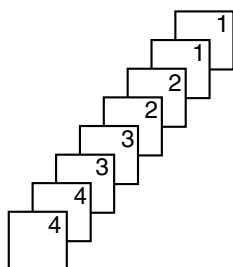
---

5. Press **[+]** or **[-]** repeatedly to display “**COLLATE ON**”. → **[START]**

**Example: Making 2 copies of a 4-page original document**



Collated pages



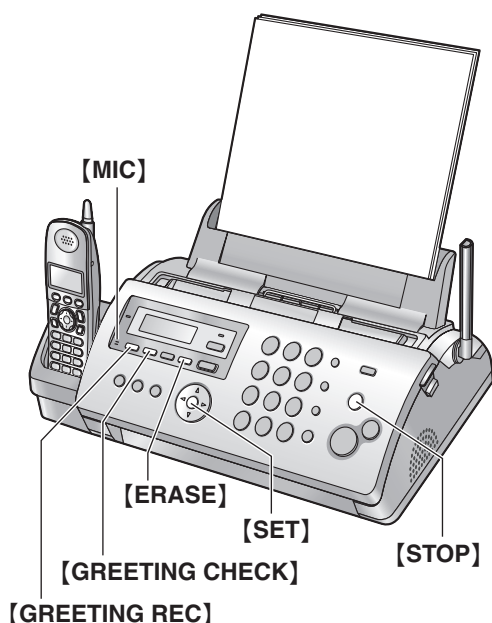
Uncollated pages

**Note:**

- The unit will store the documents into memory while collating the copies. If memory becomes full while storing, the unit will only print out the stored pages.

## 7.1 Recording your greeting message

The unit has a pre-recorded greeting message for TAM/FAX mode. If you record your own greeting message, it will be played instead of the pre-recorded greeting message when a call is received. The maximum recording time of your greeting message is either 16 seconds (default) or 60 seconds. We recommend you record a message of less than 12 seconds to make it easier to receive faxes. Make sure feature #77 is set to “**TAM/FAX**” beforehand (page 49).



- 1 **[GREETING REC] → [SET]**
  - A long beep will sound.
- 2 Speak clearly about 20 cm (8 inches) away from **[MIC]**.
- 3 When finished recording, press **[STOP]**.

### Note:

- You can change the maximum TAM/FAX greeting message recording time to 60 seconds (feature #54 on page 48).
  - If you change the setting to 60 seconds, we recommend that you tell the caller in your TAM/FAX greeting message to press \*9 before starting the fax transmission.
  - If you change the setting from 60 seconds to 16 seconds, your current greeting message will be deleted. The pre-recorded greeting message will be played when a call is received.
- If you change the maximum recording time of incoming messages to “**GREETING ONLY**” (feature #10 or feature 062 on page 44), the unit will answer a call with your current greeting message, and then

hang up. Re-record your greeting message to inform the caller that the unit will not record any incoming messages.

### To check the greeting message

Press **[GREETING CHECK]**.

- The unit will play the greeting message.

### 7.1.1 Erasing your recorded greeting message

#### 1 **[GREETING CHECK]**

- To cancel erasing, press **[STOP]**.

#### 2 **[ERASE]**

#### Note:

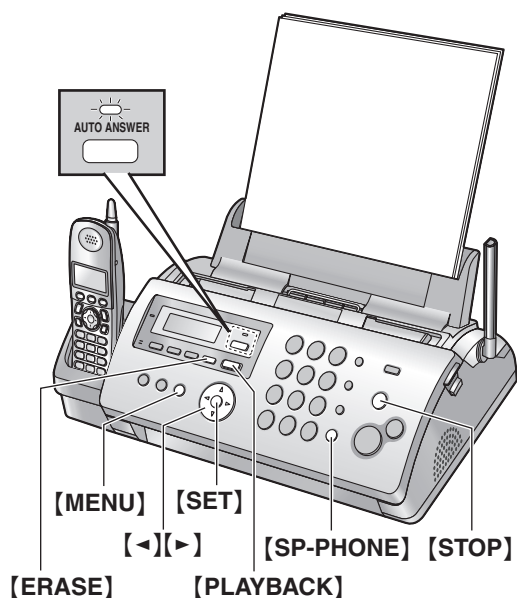
- If you erase your TAM/FAX greeting message, the pre-recorded greeting message will be played when a call is received.

### 7.2 Listening to recorded messages using the base unit

When the unit has recorded new voice messages:

- The **[AUTO ANSWER]** indicator will flash when auto answer is turned ON.
- The total number of recorded messages will flash on the base unit display.

#### 7.2.1 To play back messages



Press **[PLAYBACK]**.

- Only new messages will be played.
- After playing back all of the new messages, the **[AUTO ANSWER]** indicator will stop flashing but will remain lit up when auto answer is turned ON. If you press **[PLAYBACK]** at this time, all the recorded messages will be played.

#### 7.2.2 Useful features during playback

##### To repeat a message

Press **[◀]** while listening to the message.

- If you press **[◀]** within 5 seconds of the beginning of the message, the previous message will be played.
- To play back a specific message, press **[◀]** or **[▶]** and search for the message you want to listen to.

##### To skip a message

Press **[▶]** to play the next message.

##### To stop playback temporarily

Press **[STOP]**.

- If you press **[PLAYBACK]** within 1 minute, the unit will resume playing the rest of the messages.

##### Voice time/day stamp

During playback, the unit will announce the day of the week and time that each message was recorded.

##### If you subscribe to Caller ID service

During playback, you can call back the displayed name or number using the base unit.

1. Press **[MENU]** during playback.
  - The base unit stops playback.
  - If you do not need to edit the telephone number, skip to step 3.
2. Edit the telephone number (page 26).
3. **[SP-PHONE]**

#### 7.2.3 Erasing recorded messages

##### To erase a specific message

Press **[ERASE]** while listening to the message you want to erase.

##### To erase all messages

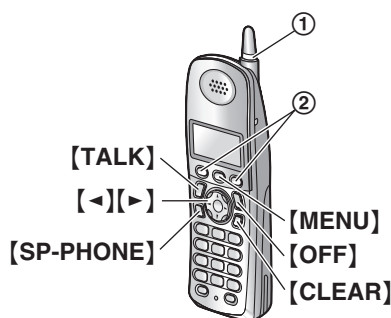
Press **[ERASE]**. → **[SET]**

### 7.3 Listening to recorded messages using the cordless handset

When the unit has recorded new voice messages:

- “New message” will be displayed on the cordless handset display.
- The message alert indicator (①) will flash if the message alert feature is activated (feature 0# on page 51).

#### 7.3.1 To play back messages



- 1 **[MENU]**
  - “Message play” is displayed.
- 2 **[Select]** (soft key ②)
  - The unit will announce the number of new messages, and will play back the new messages.
- 3 Press **[OFF]** to end the operation.

### 7.3.2 Useful features during playback

#### To repeat a message

Press **[1]** or **[◀]** while listening to the message.

- If pressed the first 5 seconds of a message, the previous message will be played.

#### To skip a message

Press **[2]** or **[▶]** to play the next message.

#### To playback new messages

Press **[4]**.

- Only new messages are played back.

#### To playback all messages

Press **[5]**.

- All messages are played back.

#### To stop playback temporarily

Press **[9]**.

- To resume operation, enter a remote command within 10 seconds.

#### To turn OFF the auto answer setting

Press **[0]**.

- The receiving mode will be set to TEL mode.

#### To turn ON the auto answer setting

Press **[8]**.

- When auto answer is turned ON, the receiving mode will be set to FAX ONLY or TAM/FAX mode, depending on the setting of feature #77 (page 49).

#### If you have subscribed to a Caller ID service

During playback, you can call back the displayed name or number using the cordless handset.

Press **[Call]** (soft key ②).

#### Note:

- To edit the number before calling back, press **[Edit]** (soft key ②) repeatedly to select the desired pattern (page 26), then press **[Call]** (soft key ②), **[TALK]**, or **[SP-PHONE]**.

### 7.3.3 Erasing recorded messages

#### To erase a specific message

Press **[CLEAR]** or **[\*][4]** while listening to the message you want to erase.

#### To erase all messages

Press **[\*][5]** while listening to a message.

## 7.4 Leaving a message for others or yourself

You can record a voice memo to leave a private message for yourself or someone else. Recorded messages are treated as new messages.

### 1 [MEMO]

- A long beep will sound.

### 2 Speak clearly about 20 cm (8 inches) away from [MIC].

### 3 To stop recording, press [STOP].

#### Note:

- If you record for over 3 minutes, the unit will stop recording.

### 7.5 Operating from a remote location

#### Important:

- Program the remote operation ID beforehand (feature #11 or feature 063 on page 45).
- Set the unit to TAM/FAX mode before going out (page 34).
- Use a touch tone telephone for remote operations.

#### 7.5.1 Summary of remote operation

- 1 Call your unit.
- 2 Enter the remote operation ID during or after the TAM/FAX greeting message.
- 3 **When there are new recorded messages**
  - The voice guide will tell you the number of new messages and they will be played automatically.

**When there are no new messages**

  - The unit will announce there are no new messages.
- 4 To end remote operation press **[9]**, then hang up.

#### Note:

- When the voice memory is full, the unit will announce the memory is full after playing back the recorded messages. Erase any unnecessary messages.

#### 7.5.2 Remote operation using remote commands

- 1 Call your unit.
- 2 Enter the remote operation ID during or after the TAM/FAX greeting message.
- 3 Enter a remote command within 10 seconds.

#### Note:

- When you press a key, press firmly.

| Key           | Remote command                                    |
|---------------|---------------------------------------------------|
| <b>[1]</b>    | Repeats a message (during playback) <sup>*1</sup> |
| <b>[2]</b>    | Skips a message (during playback)                 |
| <b>[4]</b>    | Plays new messages                                |
| <b>[5]</b>    | Plays all messages                                |
| <b>[7]</b>    | Records greeting message                          |
| <b>[9]</b>    | Stops current operation <sup>*2</sup>             |
| <b>[0]</b>    | Turns OFF auto answer setting                     |
| <b>[*][4]</b> | Erases a specific message (during playback)       |
| <b>[*][5]</b> | Erases all messages                               |
| <b>[#]</b>    | Skips the greeting message                        |

<sup>\*1</sup> If pressed within the first 5 seconds of a message, the previous message will be played.

<sup>\*2</sup> To resume operation, press a command key within 10 seconds, otherwise the marker message recording will start.

#### Recording a marker message

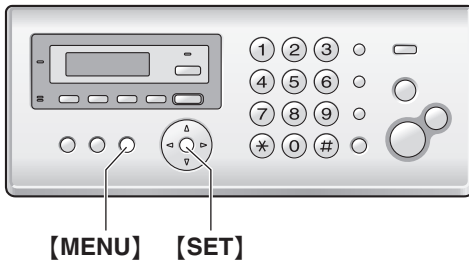
After playing back the messages, you can leave an additional message.

1. Wait for the voice guide.  
*Voice guide:*  
"All messages have been played."
2. Wait about 10 seconds.  
*Voice guide:*  
"Please leave your name and message after the beep."
3. Leave a message after the beep.

#### To turn ON the auto answer setting

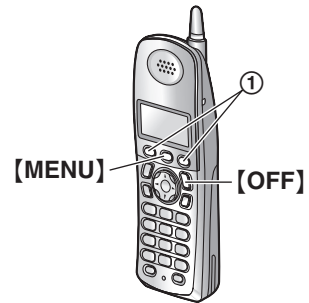
1. Call your unit and let it ring 10 rings.
  - The answering machine will temporarily answer the call.
2. Enter the remote operation ID during or after the greeting message.
  - A long beep will sound, and the receiving mode will be set to TAM/FAX.
3. Press **[9]**, then hang up the handset.

## 8.1 Base unit programming



- 1 **[MENU]**
- 2 Press **[\*]** and the 2-digit code.
- 3 Press the desired command to display the desired setting.
  - This step may be slightly different depending on the feature.
- 4 **[SET]**
- 5 To exit programming, press **[MENU]**.

## 8.2 Cordless handset programming



- 1 **[MENU]**
- 2 Press the code number (**[0]** to **[9]** and **[\*]**).
- 3 Press the desired command to display the desired setting.
  - This step may be slightly different depending on the feature.
- 4 **[Save]** (soft key ①) → **[OFF]**

**Note:**

- To exit programming, press **[OFF]** at any time.

### 8.3 Basic features

\*1 When this setting is changed using the base unit, the setting for the cordless handset will also be changed, and vice versa.

| Feature                                                     | Feature code                          | Selection                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Setting the quick setup                                     | <b>[#][0][0]</b>                      | <b>[1]</b> "TAM/FAX" (default)<br><b>[2]</b> "DIST. RING"<br><b>[3]</b> "TEL ONLY"<br><b>[4]</b> "FAX ONLY"<br>See page 16 for details.                                                                                                                        |
| Setting the date and time                                   | <b>[#][0][1]</b>                      | Enter the date and time using the dial keypad. See page 18 for details.                                                                                                                                                                                        |
| Setting your logo                                           | <b>[#][0][2]</b>                      | Enter your logo using the dial keypad. See page 18 for details.                                                                                                                                                                                                |
| Setting your fax number                                     | <b>[#][0][3]</b>                      | Enter your fax number using the dial keypad. See page 19 for details.                                                                                                                                                                                          |
| Printing a confirmation report                              | <b>[#][0][4]</b>                      | <b>[0]</b> "OFF": Confirmation reports will not be printed.<br><b>[1]</b> "ON": A confirmation report will be printed after every fax transmission.<br><b>[2]</b> "ERROR" (default): A confirmation report will be printed only when a fax transmission fails. |
| Changing the ring count in FAX ONLY mode                    | <b>[#][0][6]</b>                      | <b>[1]</b> "1"<br><b>[2]</b> "2"<br><b>[3]</b> "3" (default)<br><b>[4]</b> "4"                                                                                                                                                                                 |
| Changing the ring count in TAM/FAX mode*1                   | Base unit:<br><b>[#][0][6]</b>        | <b>[0]</b> "TOLL SAVER"<br><b>[2]</b> "2" (default)<br><b>[3]</b> "3"<br><b>[4]</b> "4"<br>See page 34 for details.                                                                                                                                            |
|                                                             | Cordless handset:<br><b>[0][6][1]</b> | <b>[0]</b> "Toll saver"<br><b>[2]</b> "2" (default)<br><b>[3]</b> "3"<br><b>[4]</b> "4"<br>See page 34 for details.                                                                                                                                            |
| Changing the maximum recording time for incoming messages*1 | Base unit:<br><b>[#][1][0]</b>        | <b>[0]</b> "GREETING ONLY": The unit plays the greeting message but does not record any incoming messages.<br><b>[1]</b> "1 MIN": 1 minute<br><b>[2]</b> "2 MIN": 2 minutes<br><b>[3]</b> "3 MIN" (default): 3 minutes                                         |
|                                                             | Cordless handset:<br><b>[0][6][2]</b> | <b>[0]</b> "Greeting only": The unit plays the greeting message but does not record any incoming messages.<br><b>[1]</b> "1min": 1 minute<br><b>[2]</b> "2min": 2 minutes<br><b>[3]</b> "3min" (default): 3 minutes                                            |

| Feature                                             | Feature code                          | Selection                                                                                                                                                                                                                                                    |
|-----------------------------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Setting the remote operation ID<sup>*1</sup></b> | Base unit:<br><b>[#][1][1]</b>        | <ol style="list-style-type: none"> <li><b>[MENU]</b> → <b>[#][1][1]</b></li> <li>Enter a 2-digit number (00–99). <ul style="list-style-type: none"> <li>The default ID is “11”.</li> </ul> </li> <li><b>[SET]</b> → <b>[MENU]</b></li> </ol>                 |
|                                                     | Cordless handset:<br><b>[0][6][3]</b> | <ol style="list-style-type: none"> <li><b>[MENU]</b> → <b>[0][6][3]</b></li> <li>Enter a 2-digit number (00–99). <ul style="list-style-type: none"> <li>The default setting is “11”.</li> </ul> </li> <li><b>[Save]</b> (soft key) → <b>[OFF]</b></li> </ol> |
| <b>Setting the dialing mode<sup>*1</sup></b>        | Base unit:<br><b>[#][1][3]</b>        | <p>If you cannot make calls, change this setting according to your telephone line service.</p> <p><b>[1]</b> “PULSE”: For rotary pulse dial service.<br/> <b>[2]</b> “TONE” (default): For tone dial service.</p>                                            |
|                                                     | Cordless handset:<br><b>[0][5][1]</b> | <p><b>[1]</b> “Pulse”: For rotary pulse dial service.<br/> <b>[2]</b> “Tone” (default): For tone dial service.</p>                                                                                                                                           |
| <b>Setting the recording paper size</b>             | <b>[#][1][6]</b>                      | <p><b>[1]</b> “LETTER” (default): Letter size paper.<br/> <b>[2]</b> “A4”: A4 size paper.</p>                                                                                                                                                                |
| <b>Setting the ringer tone for outside calls</b>    | Base unit:<br><b>[#][1][7]</b>        | <p>For the base unit ringer tone only:</p> <p><b>[1]</b> “TONE 1” (default)<br/> <b>[2]</b> “TONE 2”<br/> <b>[3]</b> “TONE 3”</p>                                                                                                                            |
|                                                     | Cordless handset:<br><b>[1][2]</b>    | <p>For the cordless handset ringer tone only:</p> <p><b>[1]</b> “Tone 1” (default)<br/> <b>[2]</b> “Tone 2”<br/> <b>[3]</b> “Tone 3”<br/> <b>[4]</b> “Melody 1”<br/> <b>[5]</b> “Melody 2”<br/> <b>[6]</b> “Melody 3”<br/> <b>[7]</b> “Melody 4”</p>         |

### 8.4 Advanced features

\*1 When this setting is changed using the base unit, the setting for the cordless handset will also be changed, and vice versa.

| Feature                                           | Feature code       | Selection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Setting the journal report to print automatically | 【 <b>≡</b> 】[2][2] | <p><b>[0] “OFF”</b>: The unit will not print a journal report, but will keep a record of the last 30 fax transmissions and receptions.</p> <p><b>[1] “ON”</b> (default): The unit will print a journal report automatically after every 30 new fax transmissions and receptions (page 29).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Sending documents overseas                        | 【 <b>≡</b> 】[2][3] | <p>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.</p> <p>This feature improves the reliability by reducing the transmission speed.</p> <p><b>[0] “OFF”</b>: Deactivates this feature.</p> <p><b>[1] “NEXT FAX”</b>: This setting is effective only for the next attempted fax transmission. After transmission, the unit will return to the previous setting.</p> <p><b>[2] “ERROR”</b> (default): When the previous fax transmission fails and you wish to re-send the document.</p> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>• Calling charges may be higher than usual.</li> </ul>                                                                                                                                                                                                                                                       |
| Sending a fax at a specified time                 | 【 <b>≡</b> 】[2][5] | <p>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.</p> <p><b>[0] “OFF”</b> (default)</p> <p><b>[1] “ON”</b></p> <p><b>To send a document:</b></p> <ol style="list-style-type: none"> <li>1. Insert the document.</li> <li>2. If necessary, press <b>[+]</b> or <b>[-]</b> repeatedly to select the desired resolution (page 29).</li> <li>3. <b>[MENU] → [≡][2][5]</b></li> <li>4. Press <b>[1]</b> to select “ON”. → <b>[SET]</b></li> <li>5. Enter the fax number. → <b>[SET]</b></li> <li>6. Enter the transmission start time. <ul style="list-style-type: none"> <li>• Press <b>[*]</b> to select “AM” or “PM”.</li> </ul> </li> <li>7. <b>[SET] → [MENU]</b></li> </ol> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>• To cancel after programming, press <b>[STOP]</b> then <b>[SET]</b>.</li> </ul> |
| Setting the Caller ID list to print automatically | 【 <b>≡</b> 】[2][6] | <p><b>[0] “OFF”</b> (default): The Caller ID list will not be printed automatically, but the base unit will keep a record of the information for the last 30 different callers.</p> <p><b>[1] “ON”</b>: The Caller ID list will be printed automatically each time the base unit logs 30 different callers (page 25).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Activating the Distinctive Ring feature           | 【 <b>≡</b> 】[3][1] | <p><b>[0] “OFF”</b> (default)</p> <p><b>[1] “ON”</b></p> <p>See page 36 for details.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| Feature                                                     | Feature code         | Selection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |                      |                        |        |    |        |                 |        |        |    |    |       |        |    |       |        |       |    |       |
|-------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------|------------------------|--------|----|--------|-----------------|--------|--------|----|----|-------|--------|----|-------|--------|-------|----|-------|
| Setting the ring pattern for fax (Distinctive Ring feature) | 【Ⓜ】[3][2]            | <p> <b>[1]</b> “A”<br/> <b>[2]</b> “B”<br/> <b>[3]</b> “C”<br/> <b>[4]</b> “D”<br/> <b>[5]</b> “B-D” (default)<br/>           See page 36 for details.         </p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |                      |                        |        |    |        |                 |        |        |    |    |       |        |    |       |        |       |    |       |
| Setting the time adjustment                                 | 【Ⓜ】[3][3]            | <p>Using this feature, the unit's date and time setting will be automatically adjusted when caller information is received.</p> <p><b>[0]</b> “MANUAL”: Deactivates this features.</p> <p><b>[1]</b> “AUTO” (default): The date and time setting will be automatically adjusted.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |                      |                        |        |    |        |                 |        |        |    |    |       |        |    |       |        |       |    |       |
| Setting the quick scan                                      | 【Ⓜ】[3][4]            | <p>This feature is helpful when you want to remove the document for other uses, because the unit will release the document before sending or copying.</p> <p><b>[0]</b> “OFF” (default): Deactivates this feature.</p> <p><b>[1]</b> “ON”: The unit will scan the document and store it into memory first, then the unit will start sending or copying the documents.</p> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>● If the document exceeds the memory capacity, sending of the whole document or copying of the exceeded document will be canceled and this feature will be turned OFF automatically.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |                      |                        |        |    |        |                 |        |        |    |    |       |        |    |       |        |       |    |       |
| Receiving oversized documents                               | 【Ⓜ】[3][6]            | <p>If the size of the document sent by the other party is as large as or larger than the recording paper, the unit can reduce the document and print it. Select the desired reduction rate.</p> <p> <b>[1]</b> “72%”<br/> <b>[2]</b> “86%”<br/> <b>[3]</b> “92%” (default)<br/> <b>[4]</b> “100%”         </p> <table border="1"> <thead> <tr> <th>Setting</th><th>Recording paper size</th><th>Original document size</th></tr> </thead> <tbody> <tr> <td>“100%”</td><td>A4</td><td>Letter</td></tr> <tr> <td rowspan="2">“92%” (default)</td><td>Letter</td><td>Letter</td></tr> <tr> <td>A4</td><td>A4</td></tr> <tr> <td>“86%”</td><td>Letter</td><td>A4</td></tr> <tr> <td rowspan="2">“72%”</td><td>Letter</td><td>Legal</td></tr> <tr> <td>A4</td><td>Legal</td></tr> </tbody> </table> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>● The information of the sending party is printed on the top of each page. Therefore, even if the original document is the same size as the recording paper, the document will be divided into 2 sheets when printed at “100%”. Select “92%” to print on 1 sheet.</li> </ul> | Setting | Recording paper size | Original document size | “100%” | A4 | Letter | “92%” (default) | Letter | Letter | A4 | A4 | “86%” | Letter | A4 | “72%” | Letter | Legal | A4 | Legal |
| Setting                                                     | Recording paper size | Original document size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |                      |                        |        |    |        |                 |        |        |    |    |       |        |    |       |        |       |    |       |
| “100%”                                                      | A4                   | Letter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |                      |                        |        |    |        |                 |        |        |    |    |       |        |    |       |        |       |    |       |
| “92%” (default)                                             | Letter               | Letter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |                      |                        |        |    |        |                 |        |        |    |    |       |        |    |       |        |       |    |       |
|                                                             | A4                   | A4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |                      |                        |        |    |        |                 |        |        |    |    |       |        |    |       |        |       |    |       |
| “86%”                                                       | Letter               | A4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |                      |                        |        |    |        |                 |        |        |    |    |       |        |    |       |        |       |    |       |
| “72%”                                                       | Letter               | Legal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |                      |                        |        |    |        |                 |        |        |    |    |       |        |    |       |        |       |    |       |
|                                                             | A4                   | Legal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |                      |                        |        |    |        |                 |        |        |    |    |       |        |    |       |        |       |    |       |

## 8. Programmable Features

| Feature                                                           | Feature code                | Selection                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Changing the LCD display contrast                                 | Base unit:<br>[⏻][3][9]     | For the base unit display contrast only:<br>[1] "NORMAL" (default)<br>[2] "DARKER"                                                                                                                                                                                                                                                                                                         |
|                                                                   | Cordless handset:<br>[0][1] | For the cordless handset display contrast only:<br>[1] Level 1<br>[2] Level 2<br>[3] Level 3 (default)<br>[4] Level 4<br>[5] Level 5<br>[6] Level 6                                                                                                                                                                                                                                        |
| Changing the fax activation code                                  | [⏻][4][1]                   | If you wish to use a cordless handset (page 33) or an extension telephone (page 33) to receive faxes, activate this feature and program the activation code.<br>[0] "OFF"<br>[1] "ON" (default)<br>1. [MENU] → [⏻][4][1]<br>2. Press [1] to select "ON". → [SET]<br>3. Enter your code from 2 to 4 digits, using 0-9, [*] and [⏻].<br>• The default code is "*#9".<br>4. [SET] → [MENU]    |
| Setting the memory reception alert                                | [⏻][4][4]                   | To alert you with a beeping sound when a received fax document is stored into memory due to some existing problem.<br>[0] "OFF": Deactivates this feature.<br>[1] "ON" (default): You will hear a beeping sound.<br><b>Note:</b><br>• The slow beeps will continue until you clear the printing problem and make sure the unit is supplied with enough paper to print the stored document. |
| Setting friendly reception                                        | [⏻][4][6]                   | To receive a fax automatically when you answer a call and hear a fax calling tone (slow beep).<br>[0] "OFF": You have to press [FAX START] for fax reception.<br>[1] "ON" (default): You do not have to press [FAX START] for fax reception.                                                                                                                                               |
| Setting the fax voice guidance                                    | [⏻][4][7]                   | If you wish to hear voice guidance for fax transmission/reception, activate this feature.<br>[0] "OFF"<br>[1] "ON" (default)<br>[2] "ERROR": To hear voice guidance only when fax transmission/reception fails.                                                                                                                                                                            |
| Changing the recording time for your TAM/FAX greeting message     | [⏻][5][4]                   | [1] "16s" (default): Maximum recording time is 16 seconds.<br>[2] "60s": Maximum recording time is 60 seconds.<br>See page 39 for details.                                                                                                                                                                                                                                                 |
| Copying phonebook data from the base unit to the cordless handset | [⏻][5][9]                   | [1] "1 ITEM" (default)<br>[2] "ALL ITEMS"<br>See page 24 for details.                                                                                                                                                                                                                                                                                                                      |
| Setting the incoming message monitor                              | [⏻][6][7]                   | To hear an incoming message (ICM) from the speaker when the answering machine is recording the message.<br>[0] "OFF"<br>[1] "ON" (default)                                                                                                                                                                                                                                                 |

| Feature                                                       | Feature code                     | Selection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Setting flash time</b> <sup>*1</sup>                       | Base unit:<br>【 <b>Ⓜ</b> 】【7】【2】 | <p>The flash time depends on your telephone exchange or host PBX.</p> <p>【1】 “700ms” (default)<br/>           【2】 “600ms”<br/>           【3】 “400ms”<br/>           【4】 “300ms”<br/>           【5】 “250ms”<br/>           【6】 “110ms”<br/>           【7】 “100ms”<br/>           【8】 “90ms”</p> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>• If the unit is connected via a PBX, this setting may need to be changed in order for PBX functions (transferring a call, etc.) to work correctly. Consult your PBX supplier for the correct setting.</li> </ul>                                               |
|                                                               | Cordless handset:<br>【0】【5】【2】   | <p>【1】 “700ms” (default)<br/>           【2】 “600ms”<br/>           【3】 “400ms”<br/>           【4】 “300ms”<br/>           【5】 “250ms”<br/>           【6】 “110ms”<br/>           【7】 “100ms”<br/>           【8】 “90ms”</p>                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Setting the Caller ID number auto edit feature</b>         | Base unit:<br>【 <b>Ⓜ</b> 】【7】【5】 | <p>For the base unit auto edit feature only:</p> <p>【0】 “OFF”<br/>           【1】 “ON” (default)<br/>           See page 26 for details.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                               | Cordless handset:<br>【0】【4】      | <p>For the cordless handset auto edit feature only:</p> <p>【0】 “off”<br/>           【1】 “on” (default)<br/>           See page 26 for details.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Setting the connecting tone</b>                            | 【 <b>Ⓜ</b> 】【7】【6】               | <p>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 those tones to confirm the status of the other party's machine.</p> <p>【0】 “OFF”: Deactivates this feature.<br/>           【1】 “ON” (default): You will hear connecting tones.</p> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• The connecting tone volume cannot be adjusted.</li> </ul> |
| <b>Changing the receiving mode in the AUTO ANSWER setting</b> | 【 <b>Ⓜ</b> 】【7】【7】               | <p>【1】 “TAM/FAX” (default): Telephone Answering Machine/Fax mode (page 34)<br/>           【2】 “FAX ONLY”: Fax only mode (page 34)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## 8. Programmable Features

| Feature                                                                | Feature code     | Selection                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Resetting advanced features to their default settings (Base unit only) | <b>[⏏][8][0]</b> | <b>[0]</b> “No” (default)<br><b>[1]</b> “Yes”<br>To reset the advanced features:<br>1. <b>[MENU]</b> → <b>[⏏][8][0]</b><br>2. Press <b>[1]</b> to select “Yes”. → <b>[SET]</b> → <b>[SET]</b> → <b>[MENU]</b><br><br><b>Note:</b> <ul style="list-style-type: none"><li>The cordless handset flash time (feature 052 on page 49) will also be reset.</li></ul> |

### 8.5 Other features (Cordless handset only)

| Feature                                                                      | Feature code  | Selection                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Changing the ringer volume                                                   | <b>[1][1]</b> | <b>[0]</b> Off<br><b>[1]</b> Low<br><b>[2]</b> Medium<br><b>[3]</b> High (default)<br>See page 17 for details.                                                                                                                                                                                                                                                                                                                      |
| Setting the voice enhancer feature                                           | <b>[5]</b>    | <b>[0]</b> “Off” (default)<br><b>[1]</b> “On”<br>See page 20 for details.                                                                                                                                                                                                                                                                                                                                                           |
| Copying one phonebook item (from the cordless handset to the base unit)      | —             | See page 24 for details.                                                                                                                                                                                                                                                                                                                                                                                                            |
| Copying all the phonebook items (from the cordless handset to the base unit) | —             | See page 24 for details.                                                                                                                                                                                                                                                                                                                                                                                                            |
| Displaying the customer support Internet address                             | —             | The cordless handset can display the Internet address where you can download operating instructions for this product using your computer.<br>1. <b>[MENU]</b> → Press <b>[▼]</b> or <b>[▲]</b> repeatedly to display “Customer support”. → <b>[Select]</b> (soft key) <ul style="list-style-type: none"><li>“<a href="http://www.panasonic.com/support">www.panasonic.com/support</a>” will be displayed.</li></ul> 2. <b>[OFF]</b> |
| Setting the key tone                                                         | <b>[0][2]</b> | You can select whether or not key tones are heard when keys are pressed. Includes confirmation tones and error tones.<br><b>[0]</b> “Off”<br><b>[1]</b> “On” (default)                                                                                                                                                                                                                                                              |
| Setting auto talk feature                                                    | <b>[0][3]</b> | This feature allows you to answer a call by lifting the cordless handset off the base unit without pressing <b>[TALK]</b> or <b>[SP-PHONE]</b> .<br><b>[0]</b> “Off” (default)<br><b>[1]</b> “On”                                                                                                                                                                                                                                   |
| Changing the display language                                                | <b>[0][8]</b> | <b>[1]</b> “English” (default)<br><b>[2]</b> “Español”                                                                                                                                                                                                                                                                                                                                                                              |

| Feature                          | Feature code | Selection                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Setting the message alert        | [0][#]       | <p>You can select whether or not the message indicator on the cordless handset will flash when new messages have been recorded (page 40).</p> <p><b>[0]</b> “Off” (default)</p> <p><b>[1]</b> “On”</p> <p><b>Note:</b></p> <ul style="list-style-type: none"><li>• The message indicator will not flash for new messages while the cordless handset is in use.</li><li>• Battery performance may be shortened when using this feature (page 15).</li></ul> |
| Registering the cordless handset | [0][0]       | See page 52 for details.                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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### 9.1 Re-registering the cordless handset

The included cordless handset and base unit are preregistered. If for some reason the cordless handset is not registered to the base unit, register the cordless handset.

**Important:**

- **Make sure the base unit and the cordless handset are near each other and not being used.**

**1 Cordless handset:**

**[MENU] → [0][0]**

- The rest of the procedure must be completed within 1 minute.

**2 Base unit:**

Press and hold **[LOCATOR]**.

**3 Cordless handset:**

Press **[OK]** (soft key), then wait until the cordless handset beeps.

## 10.1 Error messages – Reports

If a problem occurs during fax transmission or reception, one of the following messages will be printed on the confirmation and journal reports (page 29).

| Message                         | Code                 | Cause & Solution                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>COMMUNICATION ERROR</b>      | 40-42<br>46-72<br>FF | <ul style="list-style-type: none"> <li>• A transmission or reception error occurred. Try again or check with the other party.</li> </ul>                                                                                                                                                                                                                                          |
|                                 | 43<br>44             | <ul style="list-style-type: none"> <li>• A line problem occurred. Connect the telephone line cord to a different jack and try again.</li> <li>• An overseas transmission error occurred. Try using the overseas mode (feature #23 on page 46).</li> </ul>                                                                                                                         |
| <b>DOCUMENT JAMMED</b>          | -----                | <ul style="list-style-type: none"> <li>• Remove the jammed document (page 64).</li> </ul>                                                                                                                                                                                                                                                                                         |
| <b>ERROR-NOT YOUR UNIT</b>      | 53<br>54<br>59<br>70 | <ul style="list-style-type: none"> <li>• A transmission or reception error occurred because of a problem with the other party's fax machine. Check with the other party.</li> </ul>                                                                                                                                                                                               |
| <b>JUNK FAX PROH. REJECT</b>    | -----                | <ul style="list-style-type: none"> <li>• The junk fax prohibitor feature of this unit rejected fax reception.</li> </ul>                                                                                                                                                                                                                                                          |
| <b>MEMORY FULL</b>              | -----                | <ul style="list-style-type: none"> <li>• The memory is full of received documents due to a lack of recording paper, a lack of ink film or a recording paper jam. Install paper (page 13), install ink film (page 11) or remove the jammed paper (page 63).</li> </ul>                                                                                                             |
| <b>NO DOCUMENT</b>              | -----                | <ul style="list-style-type: none"> <li>• The document was not fed into the unit properly. Re-insert the document and try again.</li> </ul>                                                                                                                                                                                                                                        |
| <b>OTHER FAX NOT RESPONDING</b> | -----                | <ul style="list-style-type: none"> <li>• The other party's fax machine is busy or has run out of recording paper. Try again.</li> <li>• The other party's fax machine rang too many times. Send the fax manually (page 29).</li> <li>• The other party's machine is not a fax machine. Check with the other party.</li> <li>• The number you dialed is not in service.</li> </ul> |
| <b>PRESSED THE STOP KEY</b>     | -----                | <ul style="list-style-type: none"> <li>• <b>[STOP]</b> was pressed, and fax transmission or reception was canceled.</li> </ul>                                                                                                                                                                                                                                                    |
| <b>OK</b>                       | -----                | <ul style="list-style-type: none"> <li>• Fax transmission or reception was successful.</li> </ul>                                                                                                                                                                                                                                                                                 |

## 10.2 Error messages – Display

If the unit detects a problem, one or more of the following messages will appear on the display.

### 10.2.1 Base unit

| Display                                                                                                   | Cause & Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| "BACK COVER OPEN"                                                                                         | <ul style="list-style-type: none"> <li>The back cover is open. Close the back cover firmly.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                          |
| "CALL SERVICE"                                                                                            | <ul style="list-style-type: none"> <li>There is something wrong with the unit. Contact our service personnel.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                        |
| "CHECK DOCUMENT"                                                                                          | <ul style="list-style-type: none"> <li>The document was not fed into the unit properly. Re-insert the document. If misfeeding occurs frequently, clean the document feeder rollers (page 65) and try again.</li> <li>The document is longer than 600 mm (23<sup>5</sup>/<sub>8</sub>" ). Press <b>[STOP]</b> to remove the document. Divide the document into two or more sheets, and try again.</li> </ul>                                                                                                     |
| "CHECK FILM"                                                                                              | <ul style="list-style-type: none"> <li>The ink film is empty. Replace the ink film with a new one (page 11).</li> <li>The ink film is not installed. Install it (page 11).</li> <li>The ink film is slack or creased. Tighten it (see step 5 on page 11).</li> </ul>                                                                                                                                                                                                                                            |
| "CHECK MEMORY"                                                                                            | <ul style="list-style-type: none"> <li>The base unit memory (telephone numbers, parameters, etc.) has been erased. Re-program.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                       |
| "CHECK PAPER"                                                                                             | <ul style="list-style-type: none"> <li>The recording paper is not installed or the unit has run out of paper. Install paper and press <b>[SET]</b> to clear the message.</li> <li>The recording paper was not fed into the unit properly (page 64). Re-install paper (page 13) and press <b>[SET]</b> to clear the message.</li> <li>The recording paper has jammed near the recording paper entrance. Remove the jammed paper (page 63) and press <b>[SET]</b> to clear the message.</li> </ul>                |
| "ERROR! !"                                                                                                | <ul style="list-style-type: none"> <li>The cordless handset tried to copy phonebook items (page 24) but the copy has been stopped.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                   |
| "FAX IN MEMORY"                                                                                           | <ul style="list-style-type: none"> <li>See the other displayed message instructions to print out the document. Received documents are stored in memory due to a lack of recording paper, a lack of ink film or a recording paper jam. Install paper (page 13), install ink film (page 11) or remove the jammed paper (page 63). You will lose all faxes in memory if the power is removed. Check with power connected.</li> </ul>                                                                               |
| "FAX MEMORY FULL"                                                                                         | <ul style="list-style-type: none"> <li>The memory is full of received documents due to a lack of recording paper, a lack of ink film or a recording paper jam. Install paper (page 13), install ink film (page 11) or remove the jammed paper (page 63). You will lose all faxes in memory if the power is removed. Check with power connected.</li> <li>When performing memory transmission, the document being stored exceeded the memory capacity of the unit. Send the entire document manually.</li> </ul> |
| "FILM EMPTY<br>BUY DIRECT FROM"<br>"www.panasonic.com/kx-<br>fa91"                                        | <ul style="list-style-type: none"> <li>The ink film is empty. Replace the ink film with a new one (page 11). To place an order via the Internet, or to check for special offers, visit our web site: <a href="http://www.panasonic.com/kx-fa91">http://www.panasonic.com/kx-fa91</a></li> <li>The ink film is slack. Tighten it (see step 5 on page 11) and install again.</li> <li>The fax machine is positioned near appliances such as TVs or speakers which generate an intense magnetic field.</li> </ul>  |
| "FILM NEAR EMPTY<br>BUY DIRECT FROM"<br>"www.panasonic.com/kx-<br>fa91"<br>"TO PRINT ORDER<br>PRESS HELP" | <ul style="list-style-type: none"> <li>The remaining ink film is low. Prepare a new ink film (page 7). To print the film order sheet, press <b>[HELP]</b>, then <b>[SET]</b>. To place an order via the Internet, or to check for special offers, visit our web site: <a href="http://www.panasonic.com/kx-fa91">http://www.panasonic.com/kx-fa91</a></li> </ul>                                                                                                                                                |

| Display                                                                 | Cause & Solution                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| "INCOMPLETE"                                                            | <ul style="list-style-type: none"> <li>The phonebook copy stopped because the destination cordless handset was out of range. Press <b>[STOP]</b> to clear the message.</li> </ul>                                                                                                                                                                                                                                          |
| "MEMORY FULL"                                                           | <ul style="list-style-type: none"> <li>When making a copy, the document being stored exceeded the memory capacity of the unit. Press <b>[STOP]</b> to clear the message. Divide the document into sections.</li> </ul>                                                                                                                                                                                                     |
| "MESSAGE FULL"                                                          | <ul style="list-style-type: none"> <li>There is no room left in memory to record voice messages. Erase unnecessary messages (page 40, 41).</li> </ul>                                                                                                                                                                                                                                                                      |
| "MODEM ERROR"                                                           | <ul style="list-style-type: none"> <li>There is something wrong with the unit's modem. Contact our service personnel.</li> </ul>                                                                                                                                                                                                                                                                                           |
| "NO FAX REPLY"                                                          | <ul style="list-style-type: none"> <li>The other party's fax machine is busy or has run out of recording paper. Try again.</li> </ul>                                                                                                                                                                                                                                                                                      |
| "NO ITEMS STORED"                                                       | <ul style="list-style-type: none"> <li>You tried to copy your phonebook items to the cordless handset, but your phonebook was empty.</li> </ul>                                                                                                                                                                                                                                                                            |
| "OPEN CABINET<br>CHECK FILM SLACK"<br>"OPEN CABINET<br>CHECK FILM TYPE" | <ul style="list-style-type: none"> <li>Please use genuine Panasonic replacement film (page 7).</li> <li>The ink film is slack. Tighten it (see step 5 on page 11).</li> <li>The fax machine is positioned near appliances such as TVs or speakers which generate an intense magnetic field.</li> </ul>                                                                                                                     |
| "PAPER JAMMED"                                                          | <ul style="list-style-type: none"> <li>A recording paper jam occurred. Remove the jammed paper (page 63).</li> <li>You forced the recording paper into the paper tray too strongly. Remove all of the installed paper, and re-install it gently.</li> </ul>                                                                                                                                                                |
| "PHONEBOOK FULL"                                                        | <ul style="list-style-type: none"> <li>There is no space to store new items in the phonebook. Erase unnecessary items (page 23).</li> <li>The phonebook memory of the cordless handset is already full, or became full when copying phonebook items. Copying was stopped. Press <b>[STOP]</b> to exit the mode (page 24). Erase other stored items in the cordless handset phonebook (page 23), then try again.</li> </ul> |
| "PLEASE WAIT"                                                           | <ul style="list-style-type: none"> <li>The unit is checking that there is no slack or crease in the ink film. Wait for a moment while the check is completed.</li> </ul>                                                                                                                                                                                                                                                   |
| "RECORDING ERROR"                                                       | <ul style="list-style-type: none"> <li>You recorded your greeting message or memo message less than 1 second in length and recording has failed. Try again.</li> </ul>                                                                                                                                                                                                                                                     |
| "REDIAL TIME OUT"                                                       | <ul style="list-style-type: none"> <li>The other party's fax machine is busy or has run out of recording paper. Try again.</li> </ul>                                                                                                                                                                                                                                                                                      |
| "REMOVE DOCUMENT"                                                       | <ul style="list-style-type: none"> <li>The document is jammed. Remove the jammed document (page 64).</li> <li>Press <b>[STOP]</b> to eject the jammed paper.</li> </ul>                                                                                                                                                                                                                                                    |
| "SERIAL ERROR"                                                          | <ul style="list-style-type: none"> <li>There is something wrong with the unit and the base unit will not work. Contact our service personnel.</li> </ul>                                                                                                                                                                                                                                                                   |
| "TRANSMIT ERROR"                                                        | <ul style="list-style-type: none"> <li>A transmission error occurred. Try again.</li> <li>If you send a fax overseas, try the following: <ul style="list-style-type: none"> <li>Make sure the other party's number is a fax number.</li> <li>Use the overseas transmission mode (feature #23 on page 46).</li> <li>Add 2 pauses at the end of the telephone number or dial manually.</li> </ul> </li> </ul>                |
| "UNIT OVERHEATED"                                                       | <ul style="list-style-type: none"> <li>The unit is too hot. Stop using the unit for a while and let the unit cool down.</li> </ul>                                                                                                                                                                                                                                                                                         |

### 10.2.2 Cordless handset

| Display | Cause & Solution                                                                  |
|---------|-----------------------------------------------------------------------------------|
| "Busy"  | <ul style="list-style-type: none"> <li>The called base unit is in use.</li> </ul> |

| Display                                            | Cause & Solution                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| "Error!!"                                          | <ul style="list-style-type: none"> <li>When you tried to register the cordless handset, the cordless handset and the base unit could not link for some reason, such as interference from electrical appliances. Move the cordless handset and the base unit away from the electrical appliances and try again.</li> </ul>                                                               |
| "---Incomplete---<br>Phonebook full"               | <ul style="list-style-type: none"> <li>When the phonebook item(s) was(were) sent to the base unit, the base unit's phonebook memory was full and copying stopped. Press <b>[OFF]</b> to exit. Erase items from the base unit's phonebook (page 23). When phonebook memory is available, you can copy all phonebook items (page 24) or individual items one by one (page 24).</li> </ul> |
| "No link to base. Move closer to base, try again." | <ul style="list-style-type: none"> <li>The cordless handset has lost communication with the base unit. Move closer to the base unit, and try again.</li> <li>Confirm that the base unit's power cord is plugged in.</li> <li>Raise the base unit antenna.</li> <li>The cordless handset's registration may have been canceled. Re-register the cordless handset (page 52).</li> </ul>   |
| "Phonebook full"                                   | <ul style="list-style-type: none"> <li>There is no space to store new items in the phonebook. Erase unnecessary items (page 23).</li> </ul>                                                                                                                                                                                                                                             |
| "No items stored"                                  | <ul style="list-style-type: none"> <li>Your phonebook or redial list is empty.</li> </ul>                                                                                                                                                                                                                                                                                               |
| "Please lift up and try again."                    | <ul style="list-style-type: none"> <li>A cordless handset button was pressed while the cordless handset was on the base unit. Lift the cordless handset and press the button again.</li> </ul>                                                                                                                                                                                          |
| "System is busy. Please try again later."          | <ul style="list-style-type: none"> <li>The cordless handset has lost communication with the base unit. Move closer to the base unit and try again.</li> <li>Another user is listening to messages. Try again later.</li> </ul>                                                                                                                                                          |

## 10.3 When a function does not work, check here

### 10.3.1 Initial settings

| Problem                    | Cause & Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I cannot hear a dial tone. | <ul style="list-style-type: none"> <li>If you used 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.</li> <li>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.</li> <li>The power cord or telephone line cord is not connected. Check the connections.</li> <li>If you have connected the fax machine through a computer modem, connect the fax machine directly to a telephone line jack.</li> </ul> |
| I cannot make calls.       | <ul style="list-style-type: none"> <li>The dialing mode setting may be wrong. Change the setting (feature #13 or feature 051 on page 45).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| The unit does not work.    | <ul style="list-style-type: none"> <li>Make sure that the battery is installed correctly (page 14) and fully charge it (page 15).</li> <li>Check the connections (page 15).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| The unit does not ring.    | <ul style="list-style-type: none"> <li>The ringer volume is turned OFF. Adjust it (page 17).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## 10.3.2 General

| Problem                                                                              | Cause & Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The unit displays “PAPER JAMMED” even though paper is installed.                     | <ul style="list-style-type: none"> <li>You forced the recording paper into the paper tray too strongly. Remove all of the installed paper, and re-install it gently.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                           |
| The unit displays “CHECK PAPER” even though paper is inserted.                       | <ul style="list-style-type: none"> <li>The paper is inserted halfway. Insert it correctly (page 64) and press <b>[SET]</b> to clear the message.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                               |
| The other party complains they only hear a fax tone and cannot talk.                 | <ul style="list-style-type: none"> <li>FAX ONLY mode is set. Tell the other party the number is only used for faxes.</li> <li>Change the receiving mode to TEL mode (page 33) or TAM/FAX mode (page 34).</li> <li>If you use a Distinctive Ring service, make sure you have set the same ring pattern assigned by the telephone company (page 36).</li> </ul>                                                                                                                                                                                                             |
| <b>[REDIAL]</b> or <b>[PAUSE]</b> on the base unit does not function properly.       | <ul style="list-style-type: none"> <li>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.</li> </ul>                                                                                                                                                                                                                                                                                                                                                      |
| The receiving mode does not function properly.                                       | <ul style="list-style-type: none"> <li>Distinctive Ring is set (feature #31 on page 46).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| During programming, I cannot enter the code or ID number.                            | <ul style="list-style-type: none"> <li>All or part of the number is the same as another code or ID. Change the number: <ul style="list-style-type: none"> <li>remote operation ID (code): feature #11 on page 45.</li> <li>fax activation code: feature #41 on page 48.</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                            |
| The ink film runs out quickly.                                                       | <ul style="list-style-type: none"> <li>Even if there are only a few sentences, every page that comes out of the machine is considered a full page.</li> <li>Turn OFF the following features: <ul style="list-style-type: none"> <li>confirmation report: feature #04 on page 44.</li> <li>journal report: feature #22 on page 46.</li> <li>Caller ID list: feature #26 on page 46.</li> </ul> </li> </ul>                                                                                                                                                                 |
| The unit beeps.                                                                      | <ul style="list-style-type: none"> <li>The memory reception alert of feature #44 is ON (page 48), and the unit has a document in memory. Press <b>[STOP]</b> to stop the beeps, then see the displayed message instructions to solve the problem.</li> </ul>                                                                                                                                                                                                                                                                                                              |
| Whenever I try to retrieve my voice mail messages, I am interrupted by the fax tone. | <ul style="list-style-type: none"> <li>You are probably entering <b>[*][#][9]</b>. 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 #41 on page 48).</li> </ul>                                                                                                                                                                                                                                                                                    |
| The speakerphone is not working.                                                     | <ul style="list-style-type: none"> <li>Use the speakerphone in a quiet room.</li> <li>If you have difficulty hearing the other party, adjust the volume.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                       |
| I cannot page the cordless handset or base unit.                                     | <ul style="list-style-type: none"> <li>The cordless handset is too far from the base unit.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| The unit does not display the caller's name and/or telephone number.                 | <ul style="list-style-type: none"> <li>You need to subscribe to a Caller ID service.</li> <li>Other telephone equipment may be interfering with your phone. Disconnect it and try again.</li> <li>Other electrical appliances connected to the same outlet may be interfering with the Caller ID information.</li> <li>Telephone line noise may be affecting the Caller ID information.</li> <li>The caller requested not to send his/her information (page 25).</li> <li>If a call is being transferred to you, the caller information will not be displayed.</li> </ul> |

| Problem                                                                | Cause & Solution                                                                                                                                      |
|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| The display exits the Caller ID List while viewing caller information. | <ul style="list-style-type: none"> <li>Do not pause for over 1 minute on the cordless handset or 3 minutes on the base unit while viewing.</li> </ul> |

### 10.3.3 Cordless handset

| Problem                                                                                                                                                                                                                                                                                                         | Cause & Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The cordless handset does not work.                                                                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Make sure that the battery is installed correctly (page 14) and fully charge it (page 15).</li> <li>Clean the charge contacts and charge again (page 15).</li> <li>Unplug the base unit's power cord to reset. Plug in, and try again.</li> </ul>                                                                                                                                                                                                                                  |
| The cordless handset does not ring.                                                                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>The ringer volume is set to OFF. Adjust it (page 17).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                   |
| The display shows "No link to base. Move closer to base, try again." and an alarm tone sounds.                                                                                                                                                                                                                  | <ul style="list-style-type: none"> <li>The cordless handset is too far from the base unit. Move closer and try again.</li> <li>Plug in the base unit's power cord.</li> <li>Raise the base unit antenna.</li> <li>If the above remedies do not solve the problem, the cordless handset may have lost communication with the base unit. Re-register the cordless handset again (page 52).</li> </ul>                                                                                                                       |
| Static, sound cuts in/out, fades. Interference from other electrical units.                                                                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>Move the cordless handset and the base unit away from other electrical appliances.</li> <li>Move closer to the base unit.</li> <li>Raise the base unit antenna.</li> <li>Turn ON the clarity booster feature (page 20).</li> </ul>                                                                                                                                                                                                                                                 |
| I cannot store an item in the phonebook.                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>You cannot store an item in the phonebook while the cordless handset is in talk, speakerphone or intercom mode, or while listening to messages.</li> <li>Do not pause for over 1 minute while storing.</li> </ul>                                                                                                                                                                                                                                                                  |
| I cannot redial by pressing [REDIAL].                                                                                                                                                                                                                                                                           | <ul style="list-style-type: none"> <li>If the last number dialed was more than 48 digits long, the number will not be redialed correctly. Redial the number manually.</li> <li>The last number dialed may have been a remote function.</li> </ul>                                                                                                                                                                                                                                                                         |
| I charged the battery fully, but "Recharge battery" is still displayed and/or  continues to flash, or "Charge for 6h" and  are displayed. | <ul style="list-style-type: none"> <li>Clean the charge contacts and charge again (page 15).</li> <li>The battery may need to be replaced (page 14). If you install a new battery, fully charge it (page 15).</li> </ul>                                                                                                                                                                                                                                                                                                  |
| I cannot receive documents by pressing [✖][#][9] on the cordless handset.                                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>You must set remote fax activation to ON (feature #41 on page 48) beforehand.</li> <li>You may have changed the remote fax activation code from [✖][#][9] (default setting). Verify the remote fax activation code (feature #41 on page 48).</li> <li>The memory is full of received documents due to a lack of recording paper, a lack of ink film or a recording paper jam. Install paper (page 13), install ink film (page 11) or remove the jammed paper (page 63).</li> </ul> |
| The cordless handset display is blank.                                                                                                                                                                                                                                                                          | <ul style="list-style-type: none"> <li>Fully charge the battery (page 15).</li> <li>Remove the battery for 30 seconds and replace it again.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                    |
| I cannot have a conversation using the headset.                                                                                                                                                                                                                                                                 | <ul style="list-style-type: none"> <li>Make sure that the optional headset is connected properly (page 14).</li> <li>If "SP-phone" is displayed on the cordless handset, press [TALK] to switch to the headset.</li> </ul>                                                                                                                                                                                                                                                                                                |

| Problem                 | Cause & Solution                                                                                                                                                                           |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I cannot program items. | <ul style="list-style-type: none"> <li>While another user is listening to messages or the telephone answering machine is answering a call, you cannot program. Try again later.</li> </ul> |

#### 10.3.4 Fax – sending

| Problem                                                                                               | Cause & Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I cannot send documents.                                                                              | <ul style="list-style-type: none"> <li>The other party's fax machine is busy or has run out of recording paper. Try again.</li> <li>The other party's machine is not a fax machine. Check with the other party.</li> <li>The other party's fax machine failed to answer the fax automatically. Send the fax manually (page 29).</li> <li>The memory is full of received documents and the quick scan (feature #34 on page 47) is ON. Turn this feature OFF, and send the fax again.</li> </ul>                     |
| I cannot send a fax overseas.                                                                         | <ul style="list-style-type: none"> <li>Use the overseas transmission mode (feature #23 on page 46).</li> <li>Add two pauses at the end of the telephone number or dial manually.</li> </ul>                                                                                                                                                                                                                                                                                                                        |
| The other party complains that letters on their received document are distorted or not clear.         | <ul style="list-style-type: none"> <li>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.</li> <li>An extension telephone on the same line is occupying the line. Hang up the extension telephone and try again.</li> <li>Try copying the document with this unit. If the copied image is clear, there may be something wrong with the other party's machine.</li> </ul> |
| The other party complains that black lines, white lines or smudges appear on their received document. | <ul style="list-style-type: none"> <li>The scanner glass or rollers are dirty with correction fluid, etc. Clean them (page 65). Please do not insert a document before correction fluid has dried completely.</li> </ul>                                                                                                                                                                                                                                                                                           |
| Documents frequently misfeed.                                                                         | <ul style="list-style-type: none"> <li>Clean the document feeder rollers, recording paper feeder and rubber flap (page 65).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                             |

#### 10.3.5 Fax – receiving

| Problem                                                             | Cause & Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I cannot receive documents.                                         | <ul style="list-style-type: none"> <li>You may have subscribed to a voice mail service due to service packs offered by your telephone company. Fax and voice message reception may not be possible when voice mail is activated so we recommend you to: <ul style="list-style-type: none"> <li>contact your telephone company and request to deactivate voice mail service, or</li> <li>subscribe to a Distinctive Ring service (page 36).</li> </ul> </li> <li>The ink film is empty. Replace the ink film with a new one (page 11).</li> </ul>                                                                                                           |
| I cannot receive documents automatically.                           | <ul style="list-style-type: none"> <li>The receiving mode is set to TEL mode. Change the receiving mode: <ul style="list-style-type: none"> <li>TAM/FAX mode (page 34) or FAX ONLY mode (page 34).</li> </ul> </li> <li>The time taken to answer the call is too long. Decrease the number of rings in feature #06 or feature 061 (page 44).</li> <li>The greeting message is too long. Record a shorter message (page 39).</li> <li>Make sure that the Distinctive Ring of feature #31 is set properly (page 46). If you do not subscribe to the Distinctive Ring service offered by your local telephone company, this feature should be OFF.</li> </ul> |
| The display shows "CONNECTING . . . .", but faxes are not received. | <ul style="list-style-type: none"> <li>The receiving mode is set to FAX ONLY mode and the incoming call is not a fax. Change the receiving mode: <ul style="list-style-type: none"> <li>TAM/FAX mode (page 34) or TEL mode (page 33).</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                               |

| Problem                                                                                                    | Cause & Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A blank sheet is ejected.</b>                                                                           | <ul style="list-style-type: none"> <li>● If a blank sheet is ejected after the received document is printed out, the size of the document sent by the other party is as large as, or larger than, the recording paper, and the receiving reduction rate is not programmed correctly. Program the proper rate in feature #36 (page 47).</li> <li>● The other party placed the document in their fax machine facing the wrong way. Check with the other party.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                       |
| <b>The printing quality is poor.</b>                                                                       | <p>Please do not reuse the ink film!</p> <p>Please use genuine Panasonic replacement film. Refer to page 7 for further details.</p> <ul style="list-style-type: none"> <li>● The thermal head is dirty. Clean it (page 66).</li> <li>● 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.</li> <li>● Some paper has instructions recommending which side to print on. Try turning the recording paper over.</li> <li>● You may have used paper with cotton and/or fiber content that is over 20%, such as letterhead or resume paper. We recommend smooth paper such as "Hammermill Jet Print" for clearer printing.</li> </ul> |
| <b>Recording paper frequently misfeeds.</b>                                                                | <ul style="list-style-type: none"> <li>● Clean the document feeder rollers, recording paper feeder and rubber flap (page 65).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Letters on the received document are distorted.</b>                                                     | <ul style="list-style-type: none"> <li>● If your line has special telephone services such as call waiting, the service may have been activated during fax reception. Connect the unit to a line that does not have these services.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>I cannot receive documents by pressing [✳][#][9] on the cordless handset or an extension telephone.</b> | <ul style="list-style-type: none"> <li>● You must set remote fax activation to ON (feature #41 on page 48) beforehand.</li> <li>● You may have changed the remote fax activation code from [✳][#][9] (default setting). Verify the remote fax activation code (feature #41 on page 48).</li> <li>● The memory is full of received documents due to a lack of recording paper, a lack of ink film or a recording paper jam. Install paper (page 13), install ink film (page 11) or remove the jammed paper (page 63).</li> </ul>                                                                                                                                                                                                                                                                                                               |
| <b>The other party complains that they cannot send a document.</b>                                         | <ul style="list-style-type: none"> <li>● The receiving mode is set to TEL mode. Receive the document manually (page 33) or change the receiving mode to TAM/FAX mode (page 34) or FAX ONLY mode (page 34).</li> <li>● The memory is full of received documents due to a lack of recording paper or a recording paper jam. Install paper (page 13) or remove the jammed paper (page 63).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>I cannot select the desired receiving mode.</b>                                                         | <ul style="list-style-type: none"> <li>● If you want to set TAM/FAX or FAX ONLY mode: <ul style="list-style-type: none"> <li>– select the desired mode using feature #77 (page 49), and press <b>[AUTO ANSWER]</b> repeatedly until the desired mode is displayed.</li> </ul> </li> <li>● If you want to set TEL mode: <ul style="list-style-type: none"> <li>– press <b>[AUTO ANSWER]</b> repeatedly until "TEL MODE" is displayed.</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                   |

### 10.3.6 Copying

| Problem                               | Cause & Solution                                                                                                                                                                                                                                   |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>The unit will not make a copy.</b> | <ul style="list-style-type: none"> <li>● The ink film is empty. Replace the ink film with a new one (page 11).</li> <li>● You cannot make a copy during programming.</li> <li>● You cannot make a copy during a telephone conversation.</li> </ul> |

| Problem                                                                                                                                                                                                                            | Cause & Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A black line, white line or smudge appears on the copied document.</b>                                                                                                                                                          | <ul style="list-style-type: none"> <li>The scanner glass or rollers are dirty with correction fluid, etc. Clean them (page 65). Please do not insert a document before correction fluid has dried completely.</li> </ul>                                                                                                                                                                                                                                                                                                                           |
| <b>The copied image is distorted.</b>                                                                                                                                                                                              | <ul style="list-style-type: none"> <li>Adjust the width of the document guides to fit the actual size of the document.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>The printing quality is poor.</b><br>Original<br><br>Copy<br> | Please do not reuse the ink film!<br>Please use genuine Panasonic replacement film. Refer to page 7 for further details. <ul style="list-style-type: none"> <li>The thermal head is dirty. Clean it (page 66).</li> <li>Some paper has instructions recommending which side to print on. Try turning the recording paper over.</li> <li>You may have used paper with a cotton and/or fiber content that is over 20%, such as letterhead or resume paper. We recommend smooth paper such as "Hammermill Jet Print" for clearer printing.</li> </ul> |
| <b>Documents or recording paper frequently misfeed.</b>                                                                                                                                                                            | <ul style="list-style-type: none"> <li>Clean the document feeder rollers, recording paper feeder and rubber flap (page 65).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                             |

### 10.3.7 Answering machine

| Problem                                                                  | Cause & Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>I cannot listen to messages from a remote location.</b>               | <ul style="list-style-type: none"> <li>Press the remote operation ID (code) correctly and firmly (feature #11 or feature 063 on page 45).</li> <li>The unit is not in TAM/FAX mode. Change to TAM/FAX mode (page 42).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>The other party complains that they cannot leave a voice message.</b> | <ul style="list-style-type: none"> <li>You may have subscribed to a voice mail service due to service packs offered by your telephone company. Fax and voice message reception may not be possible when voice mail is activated so we recommend you to: <ul style="list-style-type: none"> <li>contact your telephone company and request to deactivate voice mail service, or</li> <li>subscribe to a Distinctive Ring service (page 36).</li> </ul> </li> <li>The recording time is set to "GREETING ONLY". Select "1 MIN", "2 MIN" or "3 MIN" (feature #10 or feature 062 on page 44).</li> <li>The memory is full. Erase unnecessary messages (page 40, 41).</li> <li>Make sure there is no other answering machine connected on the same line.</li> </ul> |
| <b>I cannot operate the answering machine with the cordless handset.</b> | <ul style="list-style-type: none"> <li>Someone is operating the answering machine.</li> <li>You are too far from the base unit. Move closer to the base unit.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>The message indicator flashes slowly.</b>                             | <ul style="list-style-type: none"> <li>This is normal. New messages have been recorded. Listen to the new messages (page 40) or turn the message alert OFF (feature 0# on page 51).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Caller ID information does not display during message playback.</b>   | <ul style="list-style-type: none"> <li>The caller information will not be displayed if a message is recorded by using [MEMO] (page 41).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

### 10.3.8 If a power failure occurs

- The unit will not function.
- 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.

- If delayed transmission (feature #25 on page 46) is programmed and a power failure prevents the document from being sent at the set time, the document will be sent after power is restored.
- If any fax documents are stored in the memory, they will be lost. When power is restored, a power down report will be printed stating which documents in memory have been erased.

## 11.1 Recording paper jams

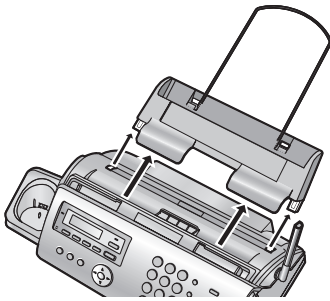
### 11.1.1 When the recording paper has jammed in the unit

The display will show the following.

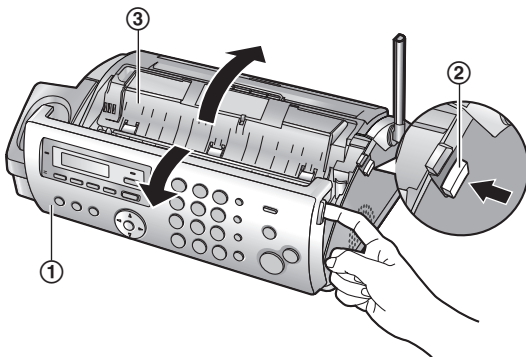
PAPER JAMMED

**Important:**

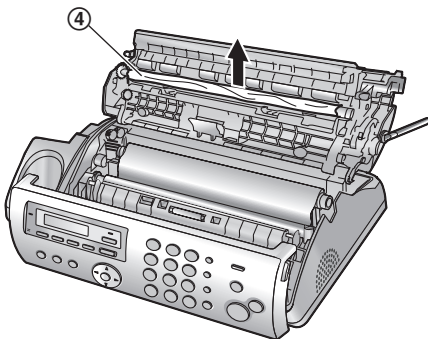
- Remove the recording paper, then remove the paper tray beforehand, otherwise the paper may misfeed or jam.



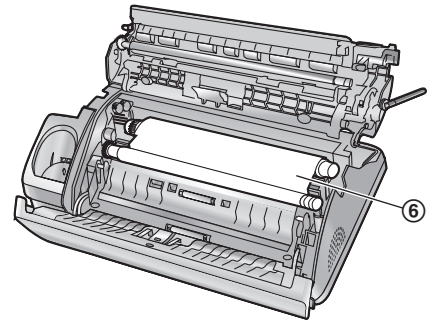
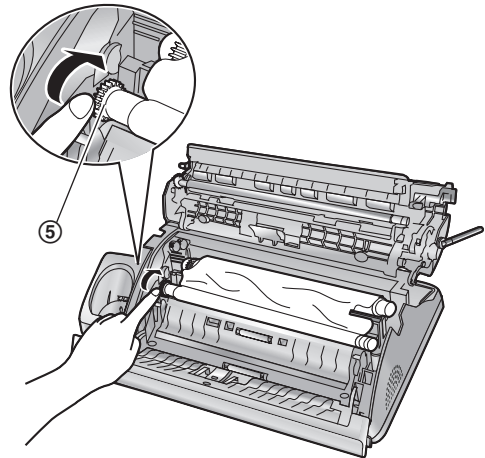
- 1 Open the front cover (①), push the green button (②), then open the back cover (③).



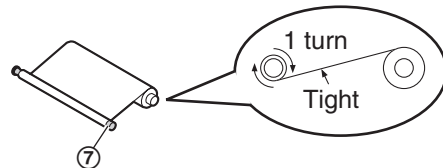
- 2 Remove the jammed recording paper (④).



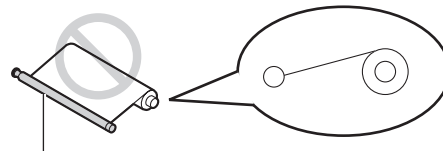
- 3 Turn the blue gear (⑤) in the direction of the arrow until the ink film is tight (⑥) and at least one layer of ink film is wrapped around the blue core (⑦).



**Correct**



**Incorrect**

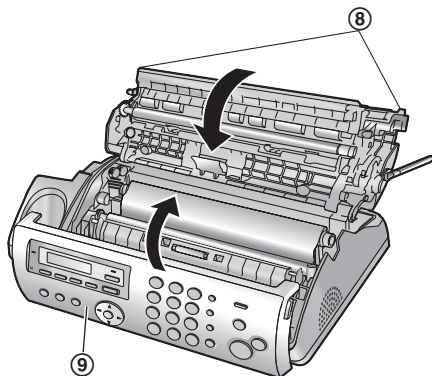


No ink film is wrapped around the blue core.



## 11. Maintenance

- 4 Close the back cover securely by pushing down on the dotted area at both ends (⑧), then close the front cover securely (⑨).



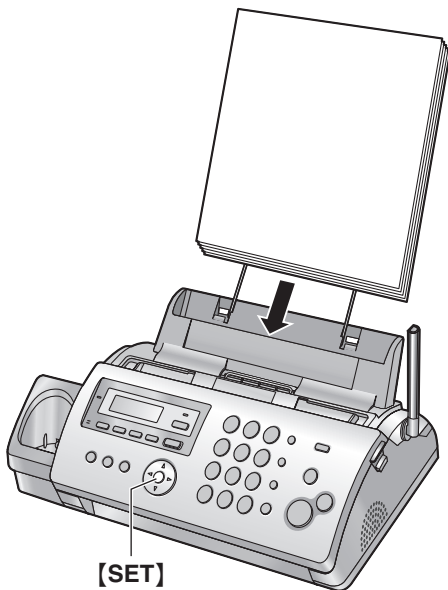
- 5 Install the paper tray (page 12), then insert the recording paper gently (page 13).

### 11.1.2 When the recording paper was not fed into the unit properly

The display will show the following.

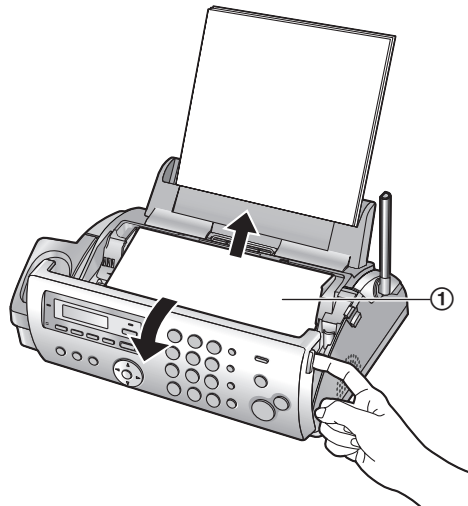
CHECK PAPER

Remove the recording paper and straighten. Insert the paper, then press **[SET]** to clear the message.



## 11.2 Document jams

- 1 Open the front cover. Remove the jammed document carefully (①).



- 2 Close the front cover securely.

#### Note:

- Do not pull out the jammed paper forcibly before opening the front cover.

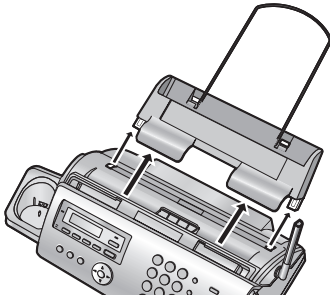
## 11.3 Document feeder/recording paper feeder/scanner glass cleaning

Clean the document feeder/recording paper feeder/scanner glass when:

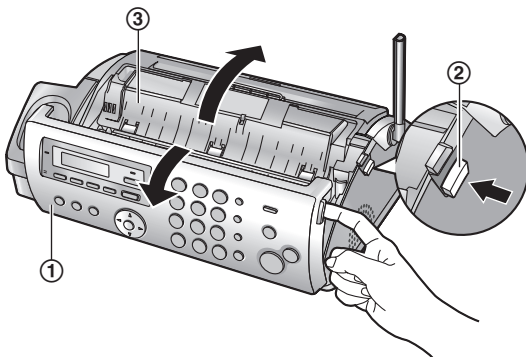
- Documents or recording paper frequently misfeed.
- Smudges or black/white lines appear on the original document when sending or copying.

### Important:

- Remove the recording paper, then remove the paper tray beforehand, otherwise the paper may misfeed or jam.



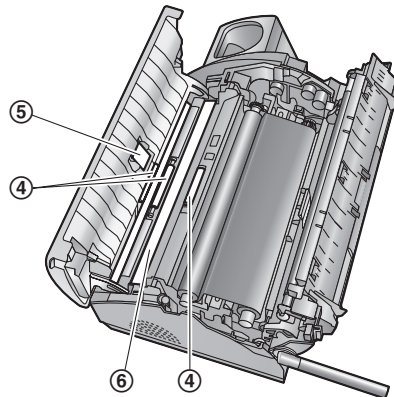
- 1 Disconnect the power cord and the telephone line cord.
- 2 Open the front cover (①), push the green button (②), then open the back cover (③).



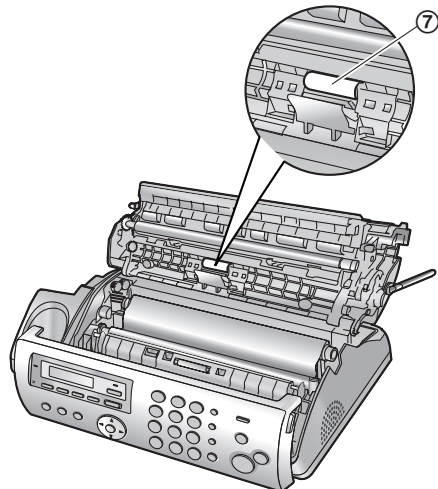
- 3 Clean the document feeder rollers (④) and rubber flap (⑤) with a cloth moistened with isopropyl rubbing alcohol, and let all parts dry thoroughly. Clean the scanner glass (⑥) with a soft, dry cloth.

### Caution:

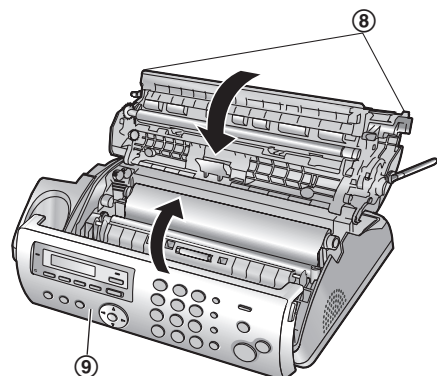
- Do not use paper products, such as paper towels or tissues.



- 4 Clean the recording paper feeder roller (⑦) with a cloth moistened with isopropyl rubbing alcohol, and let all parts dry thoroughly.



- 5 Close the back cover securely by pushing down on the dotted area at both ends (⑧), then close the front cover securely (⑨).



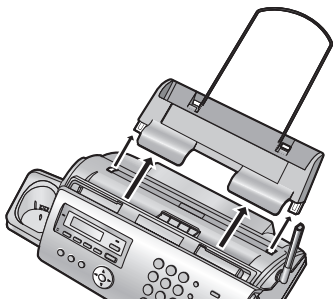
- 6 Install the paper tray (page 12), then insert the recording paper gently (page 13).
- 7 Connect the power cord and the telephone line cord.

### 11.4 Thermal head cleaning

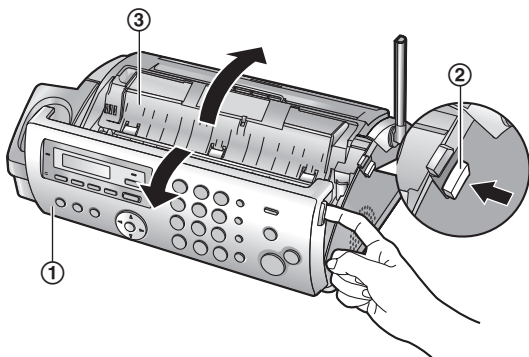
If smudges or black/white lines appear on a copied/received document, check whether there is dust on the thermal head. Clean the thermal head to remove the dust.

**Important:**

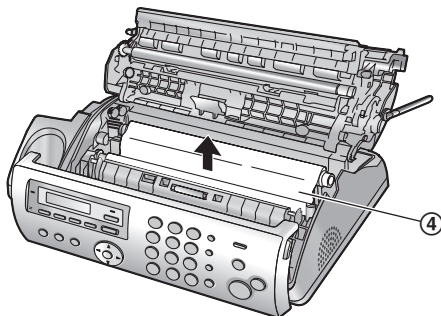
- Remove the recording paper, then remove the paper tray beforehand, otherwise the paper may misfeed or jam.



- 1 Disconnect the power cord and the telephone line cord.
- 2 Open the front cover (①), push the green button (②), then open the back cover (③).



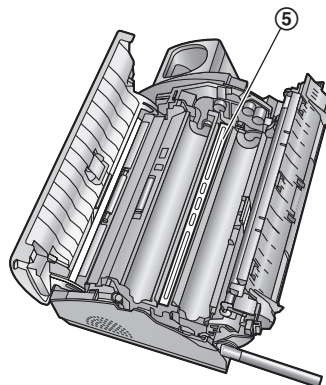
- 3 Remove the ink film (④).



- 4 Clean the thermal head (⑤) with a cloth moistened with isopropyl rubbing alcohol, and let it dry thoroughly.

**Caution:**

- To prevent a malfunction due to static electricity, do not use a dry cloth and do not touch the thermal head directly.

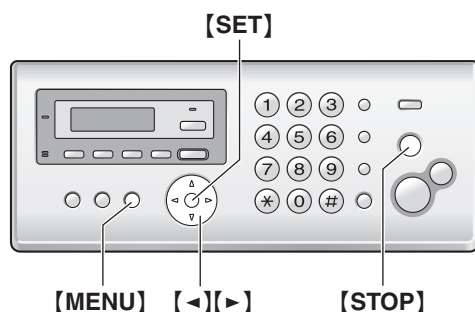


- 5 Re-install the ink film and close the covers (see step 4 to 7 on page 11).
- 6 Install the paper tray (page 12), then insert the recording paper gently (page 13).
- 7 Connect the power cord and the telephone line cord.

## 12.1 Reference lists and reports (Base unit only)

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

- "SETUP LIST"
- "PHONEBOOK LIST"
- "JOURNAL REPORT"
- "PRINTER TEST"
  - If the test print has a smudges, blurred points or lines, clean the thermal head (page 66).
- "BROADCAST LIST"
- "CALLER ID LIST"



- 1 Press **[MENU]** repeatedly to display "PRINT REPORT".
- 2 Press **[◀]** or **[▶]** repeatedly to display the desired item. → **[SET]**
  - To stop printing, press **[STOP]**.
- 3 **[MENU]**

## 12.2 Specifications

### 12.2.1 Base unit

#### ■ Applicable lines:

Public Switched Telephone Network

#### ■ Document size:

Max. 216 mm (8<sup>1</sup>/<sub>2</sub>" ) in width, Max. 600 mm (23<sup>5</sup>/<sub>8</sub>" ) in length

#### ■ Effective scanning width:

208 mm (8<sup>3</sup>/<sub>16</sub>" )

#### ■ Effective printing width:

Letter: 208 mm (8<sup>3</sup>/<sub>16</sub>" )

A4: 202 mm (7<sup>15</sup>/<sub>16</sub>" )

#### ■ Transmission speed<sup>\*1</sup>:

Approx. 15 s/page<sup>\*2</sup>

#### ■ Scanning density:

Horizontal: 8 pels/mm (203 pels/inch)

Vertical: 3.85 lines/mm (98 lines/inch) (standard resolution)

7.7 lines/mm (196 lines/inch) (fine/photo resolution)

15.4 lines/mm (392 lines/inch) (super fine resolution)

#### ■ Photo resolution:

64 levels

#### ■ Scanner type:

Contact Image Sensor

#### ■ Printer type:

Thermal Transfer on plain paper

#### ■ Data compression system:

Modified Huffman (MH), Modified READ (MR)

#### ■ Modem speed:

9,600 / 7,200 / 4,800 / 2,400 bps; Automatic Fallback

#### ■ Operating environment:

5 °C – 35 °C (41 °F – 95 °F), 20 % – 80 % RH (Relative Humidity)

#### ■ Frequency:

2.4 GHz – 2.48 GHz

#### ■ RF (Radio Frequency) power output level:

0.04 W – 0.1 W

#### ■ Dimensions:

Approx. height 106 mm × width 374 mm × depth 200 mm  
(4<sup>3</sup>/<sub>16</sub>" × 14<sup>3</sup>/<sub>4</sub>" × 7<sup>7</sup>/<sub>8</sub>" )

#### ■ Mass (Weight):

Approx. 2.5 kg (5.5 lb.)

#### ■ Power consumption:

Standby: Approx. 5.0 W

Transmission: Approx. 15 W

Reception: Approx. 40 W (When receiving a 20 % black document)

Copy: Approx. 40 W (When copying a 20 % black document)

Maximum: Approx. 135 W (When copying a 100 % black document)

## 12. General Information

### ■ Power supply:

120 V AC, 60 Hz

### ■ Fax memory capacity<sup>\*3</sup>:

Transmission: Approx. 25 pages

Reception: Approx. 28 pages

(Based on the ITU-T No. 1 Test Chart in standard resolution.)

### ■ Voice memory capacity<sup>\*4</sup>:

Approx. 18 minutes of recording time including greeting messages

<sup>\*1</sup> Transmission speed depends on the contents of the pages, resolution, telephone line conditions and capability of the other party's machine.

<sup>\*2</sup> 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.

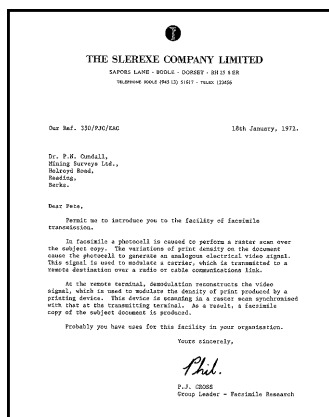
<sup>\*3</sup> If an error occurs during fax reception, such as a paper jam or if the recording paper runs out, the fax and subsequent faxes will be retained in memory.

<sup>\*4</sup> Recording time may be reduced by the calling party's background noise.

### Note:

- The accuracy of the clock is approximately  $\pm 60$  seconds a month.

### 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

#### Recording paper size:

Letter: 216 mm  $\times$  279 mm ( $8\frac{1}{2}$ "  $\times$  11")

A4: 210 mm  $\times$  297 mm ( $8\frac{1}{4}$ "  $\times$   $11\frac{11}{16}$ ")

#### Recording paper weight:

60 g/m<sup>2</sup> to 90 g/m<sup>2</sup> (16 lb. to 24 lb.)

### Note for recording paper:

- 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 which 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
- Some paper only accepts print on one side. Try using 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 thickness 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.
- 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.

### 12.2.2 Cordless handset

#### ■ Operating environment:

5 °C – 40 °C (41 °F – 104 °F)

#### ■ Frequency:

2.4 GHz – 2.48 GHz

#### ■ RF (Radio Frequency) power output level:

0.04 W – 0.1 W

#### ■ Dimensions:

Approx. height 167 mm  $\times$  width 48 mm  $\times$  depth 31 mm ( $6\frac{9}{16}$ "  $\times$   $1\frac{7}{8}$ "  $\times$   $1\frac{1}{4}$ " )

#### ■ Mass (Weight):

Approx. 107 g (0.24 lb.)

#### ■ Power supply:

Ni-MH battery (2.4 V, 830 mAh)

#### ■ Security codes:

520,000

## 12.3 FCC and Other Information

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the rear of this equipment is a label that contains, among other information, a product identifier in the format US:ACJ-----.

If requested, this number must be provided to the telephone company.

- Registration No .....(found on the rear of the unit)
- Ringer Equivalence No. (REN)  
.....(found on the rear of the unit)

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3).

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with this equipment, for repair or warranty information, please contact a Factory Servicenter or other Authorized Servicer. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

This equipment is hearing aid compatible as defined by the FCC in 47 CFR Section 68.316.

When you hold the phone to your ear, noise might be heard in your Hearing Aid. Some Hearing Aids are not adequately shielded from external RF (radio frequency) energy. If noise occurs, use an optional headset accessory or the speakerphone option (if applicable) when using this phone. Consult with your audiologist or Hearing Aid manufacturer about the availability of Hearing Aids which provide adequate shielding to RF energy commonly emitted by digital devices.

### WHEN PROGRAMMING EMERGENCY NUMBERS AND/OR MAKING TEST CALLS TO EMERGENCY NUMBERS:

- 1) Remain on the line and briefly explain to the dispatcher the reason for the call.
- 2) Perform such activities in the off-peak hours, such as early morning or late evenings.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- Privacy of communications may not be ensured when using this phone.

**CAUTION:**

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

**NOTE:**

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

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

Some cordless telephones operate at frequencies that may cause interference to nearby TVs and VCRs. To minimize or prevent such interference, the base of the cordless telephone should not be placed near or on top of a TV or VCR. If interference is experienced, move the cordless telephone further away from the TV or VCR. This will often reduce, or eliminate, interference.

**FCC RF Exposure Warning:**

This product complies with FCC radiation exposure limits set forth for an uncontrolled environment. To comply with FCC RF exposure requirements the base unit must be installed and operated with its antenna located 20 cm or more between antenna and all person's body (excluding extremities of hands, wrist and feet). The handset unit may be carried and operated with only the specific provided belt-clip. Other non-tested belt-clips or similar body-worn accessories may not comply and must be avoided. The base and handset units must not be collocated or operated in conjunction with any other antenna or transmitter.

## 12.4 Limited Warranty

PANASONIC CONSUMER ELECTRONICS COMPANY,  
DIVISION OF PANASONIC CORPORATION OF  
NORTH AMERICA  
One Panasonic Way, Secaucus, New Jersey 07094

PANASONIC PUERTO RICO, INC.  
San Gabriel Industrial Park,  
Ave. 65 de Infantería, Km. 9.5,  
Carolina, Puerto Rico 00985

### Panasonic Facsimile Product Limited Warranty

#### Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Puerto Rico, Inc. (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("Limited Warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

| FAX categories             | Parts        | Labor        |
|----------------------------|--------------|--------------|
| Thermal Transfer Facsimile | 6 Months     | 6 Months     |
| Laser Facsimile            | 1 (one) Year | 1 (one) Year |

Batteries, antennas, ink film, toner cartridge, drum unit, and ink cartridge (as may be applicable), and cosmetic parts (cabinet) are not warranted under this Limited Warranty.

During the "Labor" Limited Warranty period there will be no charge for labor. During the "Parts" Limited Warranty period, there will be no charge for parts. You must carry-in or mail-in your product during the Limited Warranty period. This Limited Warranty only applies to products purchased and serviced in the United States or Puerto Rico. This Limited Warranty is extended only to the original purchaser and only covers products purchased as new. A purchase receipt or other proof of the original purchase date is required for Limited Warranty service.

#### Carry-In or Mail-In Service

For Carry-In or Mail-In Service in the United States call 1-800-HELP-FAX (1-800-435-7329)  
For assistance in Puerto Rico call Panasonic Puerto Rico, Inc. (787)-750-4300 or fax (787)-768-2910.

#### Limited Warranty Limits And Exclusions

This Limited Warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor such as non Panasonic ink film, toner cartridge or drum unit, or failures which result from accidents, misuse, abuse, neglect, bug infestation, mishandling, misapplication, alteration, faulty installation, set-up adjustments, signal reception problems, misadjustment of consumer controls, improper maintenance, power line surge, improper voltage supply, lightning damage, modification, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

**THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY.** (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, or travel to and from the servicer. The items listed are not exclusive, but are for illustration only.) **ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.**

## 12. General Information

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Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied Limited Warranty lasts, so the exclusions may not apply to you.

This Limited Warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the Limited Warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

### **PARTS AND SERVICE WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY ARE YOUR RESPONSIBILITY.**

#### **For In Limited Warranty product service**

- Call toll-free 1-800-HELP-FAX (1-800-435-7329) for the location of an authorized servicenter.

#### **For out of Limited Warranty technical and troubleshooting support: Panasonic offers two value based, cost effective, solutions:**

##### **1. Panasonic Continued Services 900 fee based support: 1-900-FAX-HELP (1-900-329-4357)**

This exceptional service is charged directly to your telephone bill at only \$2.49 per minute.

##### **2. Panasonic Premier Service Club (PPSC): 1-800-435-7329**

PPSC provides toll free troubleshooting support at only \$7.99 for a one time sampler or \$23.95 for a one year or 5 call membership. These services are billed directly to your major credit card.

#### **When you ship the product**

- Carefully pack your unit, preferably in the original carton.
- Attach a letter, detailing the symptom or problem, to the outside of the carton.
- Send the unit to an authorized servicenter, prepaid and adequately insured.
- Do not send your unit to the Panasonic Consumer Electronics Company or to any executive or regional sales office. These locations do not repair consumer products.

Both of these comprehensive programs provide real time, live agent support for customers who are not eligible for coverage under the limited warranty.

Terms and prices are subject to change without notice.

## 12.5 Customer Services directory

### ***Customer Services Directory***

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Servicenter; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at:

**<http://www.panasonic.com/consumersupport>**

or E-mail us via:

**[consumer\\_fax@us.panasonic.com](mailto:consumer_fax@us.panasonic.com)**

#### **Contact:**

For in Limited Warranty programming and Troubleshooting Support:

Fax Advantage assistance and Service Location finder: 1-800-HELP-FAX (435-7329)

For out of Limited Warranty technical and troubleshooting support:

Panasonic offers two value based, cost effective, solutions:

1. Panasonic Continued Services 900 fee based support: 1 900 FAX HELP (1 900 329 4357)  
This exceptional service is charged directly to your telephone bill at only \$2.49 per minute.
2. Panasonic Premier Service Club (PPSC): 1 800 435 7329

PPSC provides toll free troubleshooting support at only \$7.99 for a one time sampler or \$23.95 for a one year or 5 call membership. These services are billed directly to your major credit card.

Both of these comprehensive programs provide real time, live agent support for customers who are not eligible for coverage under the limited warranty. Terms and prices are subject to change without notice.

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

### ***Accessory Purchases***

Purchase Parts, Accessories and Instruction Books online for all Panasonic Products by visiting our Web Site at:

**<http://www.pasc.panasonic.com>**

or, send your request by E-mail to:

**[npcparts@us.panasonic.com](mailto:npcparts@us.panasonic.com)**

You may also contact us directly at:

**1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only) (Monday - Friday 9 am to 8 pm, EST.)**

**Panasonic Services Company**

**20421 84th Avenue South, Kent, WA 98032**

**(We Accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)**

**For hearing or speech impaired TTY users, TTY: 1-866-605-1277**

### ***Service in Puerto Rico***

***Panasonic Puerto Rico, Inc.***

***San Gabriel Industrial Park, Ave. 65 de Infantería, Km. 9.5, Carolina, Puerto Rico 00985***

***Phone (787) 750-4300 Fax (787) 768-2910 (Monday - Friday 8:30 am to 4:30 pm, EST.)***

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## Panasonic FAX ADVANTAGE PROGRAM

*Free peace of mind,  
direct from Panasonic*

**NO EXTRA COST**



- **6-month limited warranty<sup>1</sup>: parts, labor, and toll-free help line<sup>2</sup>**
- **Free replacement<sup>3</sup> and repair program**

### **The Panasonic Fax Advantage Consumer Service Program.**

Panasonic knows that if your fax machine is not up and running, neither is your business. That's why we created the Panasonic Fax Advantage Program. Included at no extra cost with the purchase of a new and unused Panasonic Fax Machine (along with included handset), the Fax Advantage Program can provide a free replacement unit<sup>3</sup> if your original unit is in need of repair.

#### **Here's how it works:**

1. If you have a problem with your fax that you purchased new and unused while it is covered by the period of limited warranty<sup>1</sup>, call our toll-free help-line at 1-800-HELP-FAX<sup>2</sup>.
2. Talk to one of our technical experts to diagnose your problem over the phone.
3. If repairs are necessary and you are entitled to service under the terms and conditions of the limited warranty<sup>4</sup>, we will send a refurbished replacement unit to you by Ground service delivery. The shipping method is upgradable for an extra charge.

A second option available under our limited warranty is to mail-in or carry-in your fax to one of our Regional Service centers, where the unit will be repaired and returned to you.

#### **Instructions:**

If you choose to receive a replacement unit under the Fax Advantage Program, Panasonic will provide a replacement unit which will be completely refurbished, quality-tested by Panasonic technicians and individually hand-inspected before it is shipped to you. You will keep the replacement unit and send the original unit to us in the replacement unit's box. Contact the shipper who will pick up the unit at no charge to you, should it be determined that you are entitled to warranty service. A proof-of-purchase must be included with the returned product. Any unit that is replaced by Panasonic and not shipped with proper proof-of-purchase by you will be subject to a minimum \$100.00 charge. The original unit must be properly packaged in the same manner as the replacement unit, utilizing the packing materials provided. Damage due to improper or inadequate packing will be charged to you as an out-of-warranty cost.

If our 1-800-HELP-FAX technicians determine that your unit may be an "out-of-box failure"<sup>5</sup>, we will attempt to provide you with a factory-new replacement unit<sup>6</sup>. You must ship a copy of your receipt with your original unit to verify that you purchased the unit within 10 days prior to your 1-800-HELP-FAX call.

#### **Requirements:**

You must give our technicians a valid credit card number (Discover, VISA, Master Card, or American Express/Optima). Product that is not returned to Panasonic by 10 business days after shipment of the replacement product will be charged to your credit card account at Panasonic's Suggested Retail Price (see dealer for details). If your original unit is not eligible for warranty service, your card will be charged for the non-warranty repair of the unit at Panasonic's current rate for parts and labor and for any shipping charges associated with this program. If you do not wish to pay out-of-warranty repair costs, you will be responsible for returning the replacement unit to Panasonic and for paying all shipping charges associated with this program including the delivery of the replacement product to you, shipment of the problem unit to Panasonic, shipment of the replacement unit back to Panasonic and the return of your original unit back to you. Credit status will be verified prior to sending the replacement product.

1. See dealer for limited warranty details.
2. After the fax advantage program, contact our Continued Services Technical Support Line at 1-900-FAX-HELP (1-900-329-4357), for fee based technical support.
3. Replacement unit is refurbished.
4. Replacement program is only available in the 50 United States, is subject to termination at any time without advance notice, and does not cover optional accessories.
5. "Out-of-box failure" is an inoperable unit that was purchased no more than 10 days prior to your 1-800-HELP-FAX call, and would otherwise qualify for warranty service under the terms and conditions of the limited warranty.
6. Panasonic reserves the right to send a refurbished unit.

**Panasonic Consumer Electronics  
Company, Division of Panasonic  
Corporation of North America**  
One Panasonic Way, Secaucus,  
New Jersey 07094

**Panasonic Puerto Rico, Inc.**  
San Gabriel Industrial Park,  
Ave. 65 de Infantería, Km. 9.5,  
Carolina, Puerto Rico 00985



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