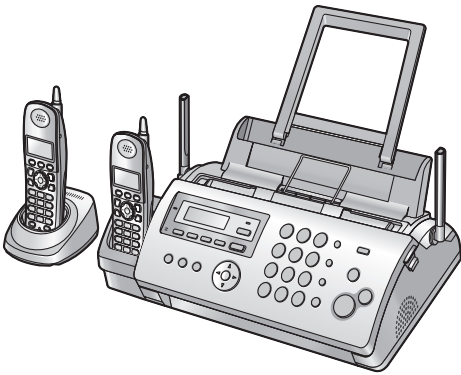


Panasonic[®]



Operating Instructions

5.8 GHz Cordless Phone System
with FAX and Copier

Model No. **KX-FG5642C**



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

Charge the battery for about 7 hours before initial use.

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

**FOR assistance, please call:
1-800-300-4644 or visit us at
www.panasonic.ca**

This model is designed to be used only in Canada.

Thank you for purchasing a Panasonic fax machine.

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

You can select English or French for the language.

Caution:

ENERGY STAR:



Copyright:

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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 centre 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 centre 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 centre.
 - 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 5.76 GHz to 5.84 GHz, and the power output is 200 mW (max.).) 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 centre.

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 5.8 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.

1. Introduction and Installation

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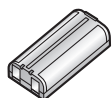
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1.1 Included accessories

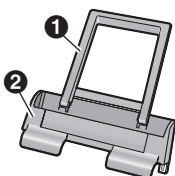
- ① Telephone line cord (PFJA02B002Y)*¹ ② Cordless handset.....2



- ③ Battery.....2 (HHR-P104)*¹



- ④ Paper tray
① Paper support (PFKS1148Z1)*¹
② Paper tray (PFKS1147Z1)*¹



- ⑤ Starter ink film (10 metres long)



- ⑥ Charger (PQLV30042YS)*¹



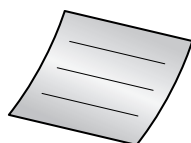
- ⑦ AC adaptor (KX-TCA1-2)*¹



- ⑧ Operating instructions (English-PFQX2641Z)*¹
(French-PFQX2642Z)*¹



- ⑨ Quick installation guide (PFQW2533Z)*¹



*¹ Part numbers are subject to change without notice.

Note:

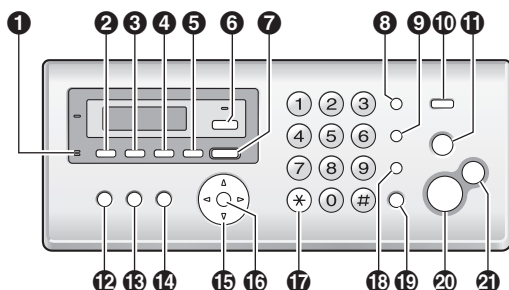
- If any items are missing or damaged, contact the place of purchase.

- Save the original carton and packing materials for future shipping and transportation of the unit.

1.2 Accessory information

- **Replacement film*¹ (Model No./Part No. KX-FA52A):** 30 m (98') × 2 rolls (Each roll will print about 95 letter-sized pages.)
 - **Battery (Model No./Part No. HHR-P104)**
 - **Headset (Model No./Part No. RP-TCA86, RP-TCA91, RP-TCA92, RP-TCA94, RP-TCA95):** Allows hands-free telephone conversations.
 - **Belt clip (Model No./Part No. PQKE10396Z1)**
- *¹ 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.**

1.3 Button descriptions of the base unit



1 [MIC] (Microphone)

- The built-in microphone.

2 [GREETING REC]

- To record a greeting message (page 42).

3 [GREETING CHECK]

- To check a greeting message (page 42).

4 [MEMO]

- To record a memo message (page 44).

5 [ERASE]

- To erase messages (page 42, 43).

6 [AUTO ANSWER]

- To turn the auto answer setting ON/OFF (page 36, 37).

7 [PLAYBACK]

- To play messages (page 43).

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 27) or for transferring extension calls.
- The flash time can be changed (feature #72 or feature 052 on page 52).

10 [CALL DISPLAY]

- To use Call Display features (page 27).

11 [STOP]

- To stop an operation or programming session.
- To erase a character/number (page 20). Press and hold to erase all characters/numbers.

12 [LOCATOR][INTERCOM][HOLD]

- To make/answer intercom calls (page 29).
- To locate the cordless handset (page 29).
- To put a call on hold (page 23).

13 [HELP][CONF]

- To print helpful information for reference purposes (page 18).
- To make a conference call (page 30).

14 [MENU]

- To start or exit programming.

15 [PHONEBOOK][VOLUME]

- To adjust volume (page 19).
- To search for a stored item (page 25, 33).

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 48.

18 [MUTE]

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

19 [SP-PHONE]

- For speakerphone operation.

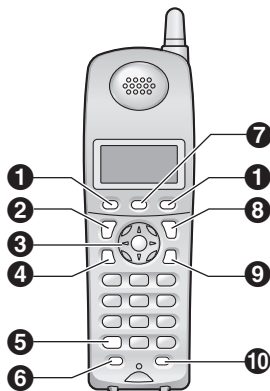
20 [FAX START]

- To send or receive a fax.

21 [COPY]

- To copy a document (page 40).

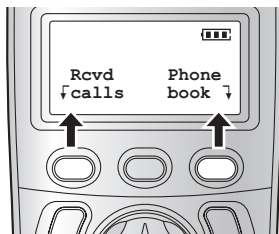
1.4 Button descriptions of the cordless handset



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 22, 23).

3 Navigator

- To adjust volume (page 18).
- To search for a stored item (page 24).

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 48.

6 [FLASH][CALL WAIT]

- To access special telephone services such as call waiting (page 27, 31) or for transferring extension calls.
- The flash time can be changed (feature #72 or feature 052 on page 52).

7 [MENU]

- To start programming.

8 [OFF]

- To hang up (page 22, 23).
- To stop an operation or programming.

9 [PAUSE][REDIAL]

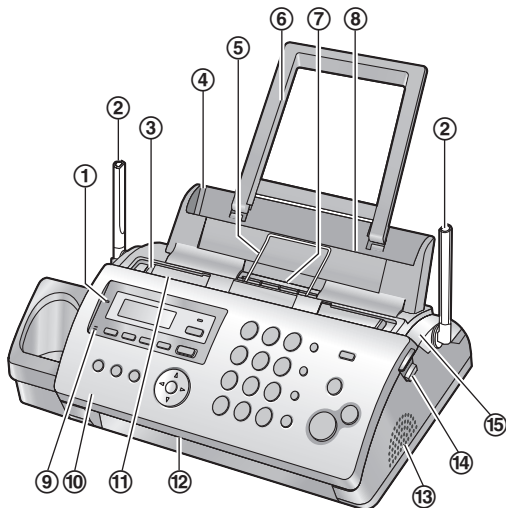
- To redial one of the last 5 numbers dialed from the cordless handset (page 22).
- To insert a pause during dialing.

10 [HOLD][INTERCOM]

- To put a call on hold (page 22).
- To make/answer intercom calls (page 29).

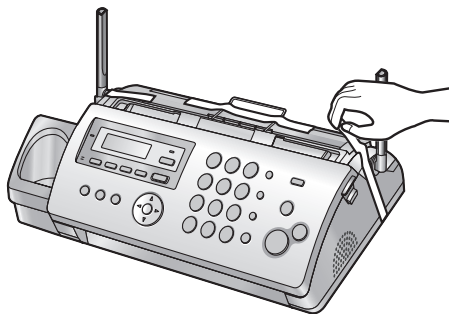
1.5 Overview

1.5.1 Base unit

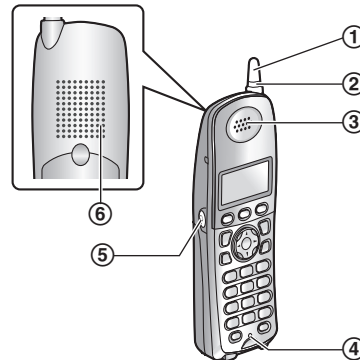


- ① CHARGE indicator
- ② Antennas
- ③ Document guides
- ④ Paper tray
- ⑤ Metal recording paper guide
- ⑥ Paper stacker
- ⑦ Recording paper exit
- ⑧ Recording paper entrance
- ⑨ Microphone
- ⑩ Front cover
- ⑪ Document entrance
- ⑫ Document exit
- ⑬ Speaker
- ⑭ Green button (Back cover release button)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

Removing the shipping tape



1.5.2 Cordless handset

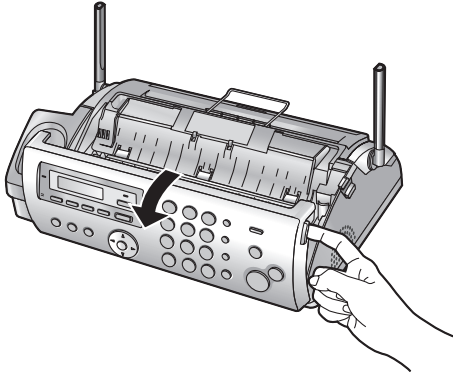


- ① Antenna
- ② Ringer indicator
Message indicator
- ③ Receiver
- ④ Microphone
- ⑤ Headset jack
- ⑥ Speaker

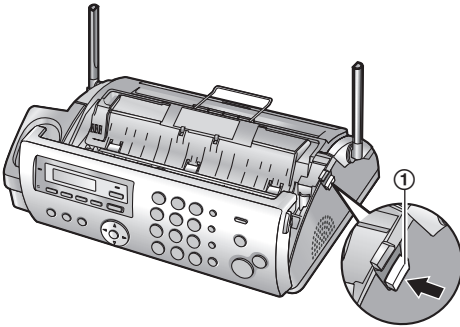
1.6 Ink film

The included film roll is a starter ink film.

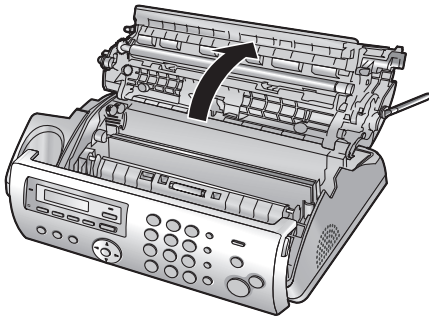
- 1 Open the front cover.



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

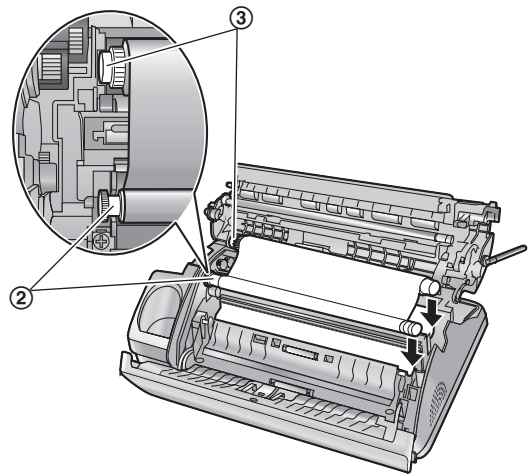


- 3 Open the back cover.

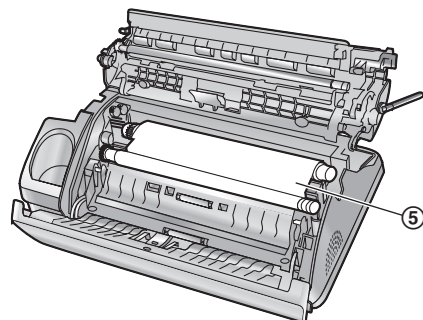
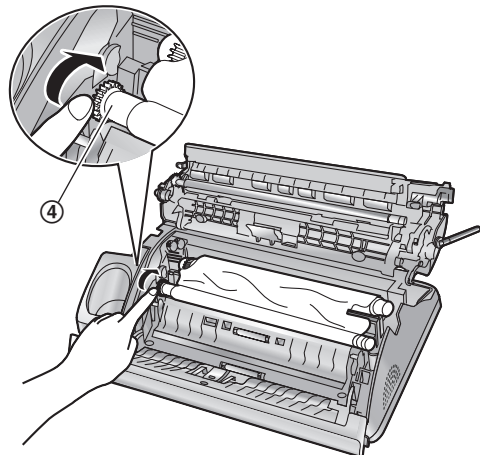


- 4 Insert the blue gear of the ink film roll into the front left slot of the unit (2) and the white gear of the ink film roll into the rear left slot of the unit (3).
 - The ink film is safe to touch and will not rub off on your hands like carbon paper.

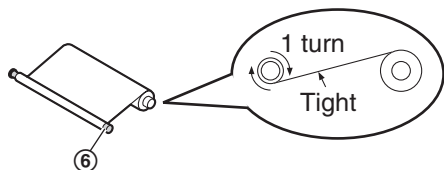
- Make sure the blue gear (2) and white gear (3) are installed as shown.



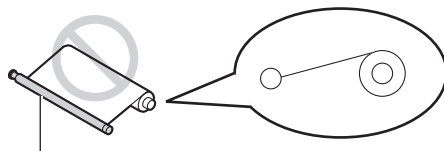
- 5 Turn the blue gear (4) in the direction of the arrow until the ink is tight (5) and at least one layer of ink film is wrapped around the blue core (6).



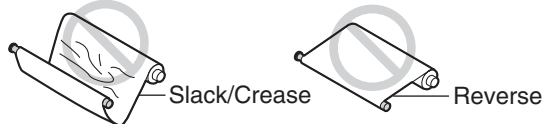
Correct



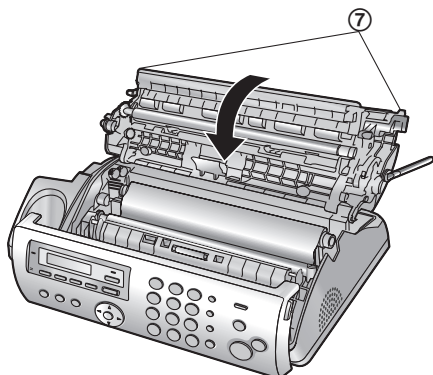
Incorrect



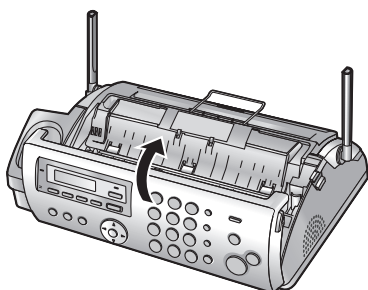
No ink film is wrapped around the blue core.



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

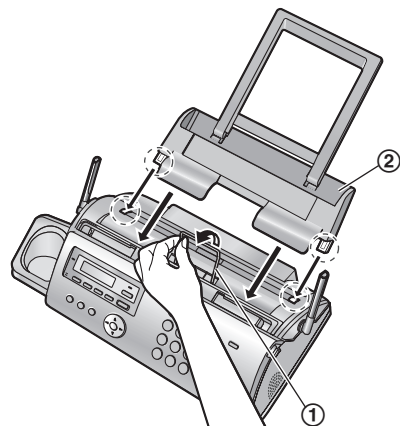


- 7 Close the front cover securely.

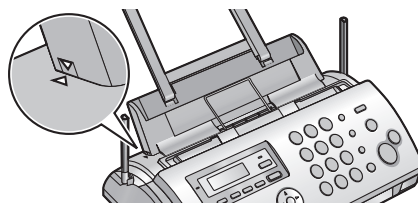


1.7 Paper tray

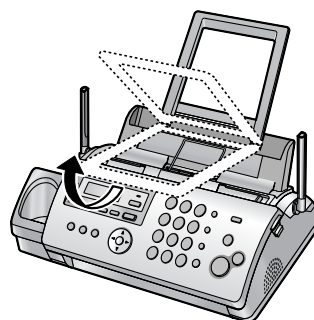
Pull up the metal recording paper guide (1), then install the paper tray (2).



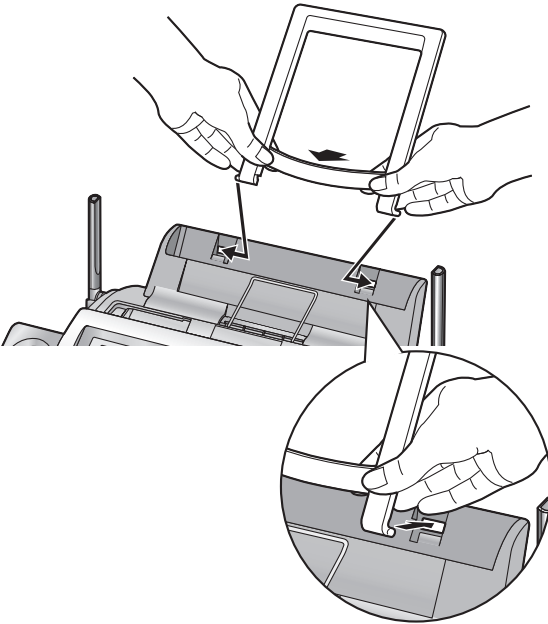
- Make sure the arrows on the paper tray and the unit match.



- If the paper support is folded, unfold it.



- If the paper support comes off the paper tray, bend the paper support, then insert into the holes on the paper tray.

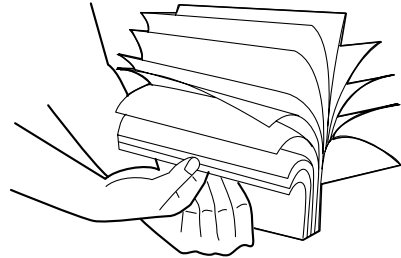


1.8 Recording paper

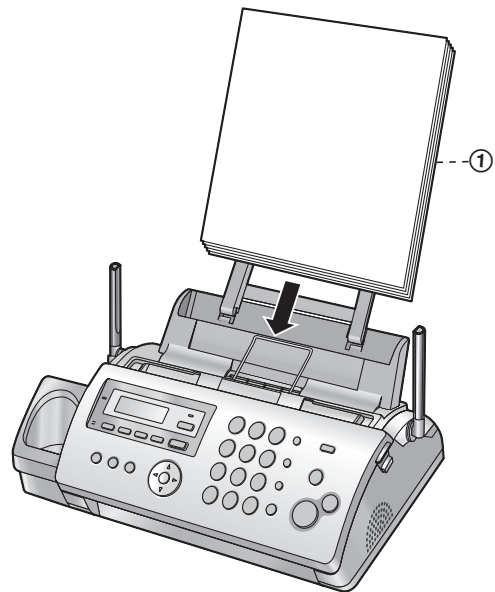
The unit can hold up to 20 sheets of 60 g/m² to 90 g/m² (16 lb. to 24 lb.) paper.

Please refer to page 70 for more information on recording paper.

- 1 Fan the paper to prevent paper jams.

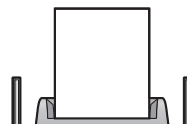


- 2 Insert the paper gently, print-side down (①).
 - Do not force the paper into the paper tray.



- 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

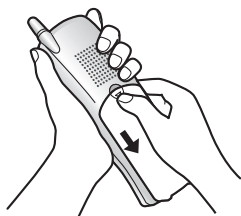


Note:

- Remove all of the installed paper before adding paper.

1.9 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).

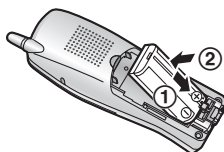
OR

Replacement:

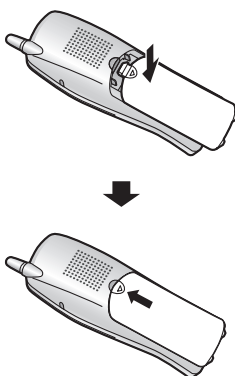
Replace the old battery with a new one.

Important:

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



- 3 Close the battery cover.



Attention:



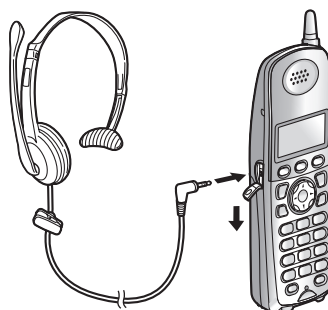
A nickel metal hydride battery that is recyclable powers the product you have purchased.

Please call 1-800-8-BATTERY for information on how to recycle this battery.

1.10 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 RP-TCA86.

To switch to the speakerphone while using the headset:

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

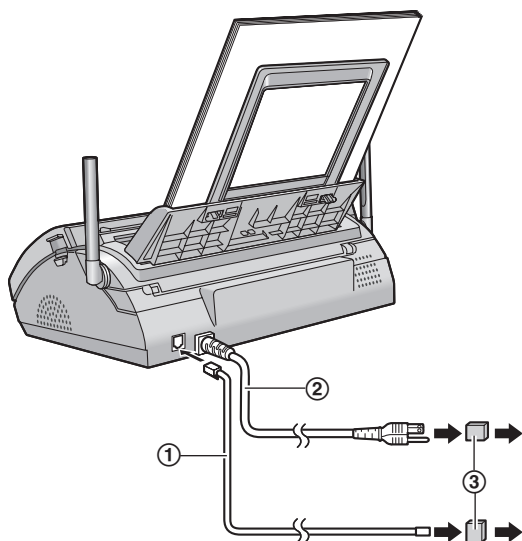
2.1 Connections

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 (RJ11C).
- 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.

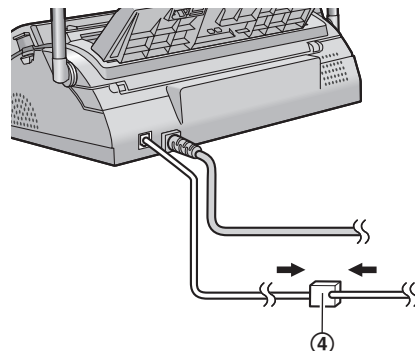
Using surge protectors

- 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

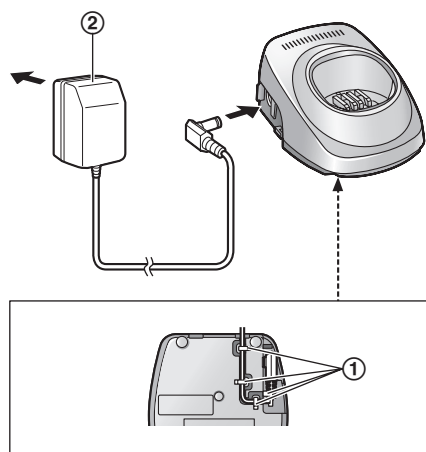
Fax transmission/reception may be disturbed, noise interference may be heard during telephone conversations, or Call Display (page 27) may not function properly. A filter to prevent this is provided by

your provider. Please attach the filter (④) to the telephone line cord of the unit.



2.1.2 Charger unit

- ① Hooks
 - Fasten the AC adaptor cord to prevent it from being disconnected.
- ② AC adaptor
 - Connect to the power outlet (120 V, 60 Hz).

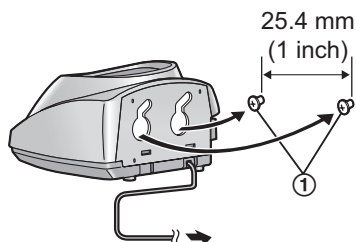


Note:

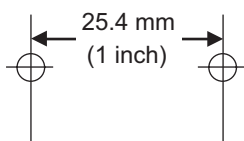
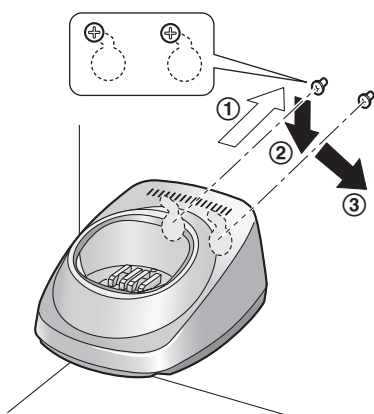
- USE ONLY WITH the included Panasonic AC adaptor.
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- The AC adaptor should be connected to a vertically oriented or floor-mounted AC outlet. Do not connect the AC adaptor to a ceiling-mounted AC outlet, as the weight of the adaptor may cause it to become disconnected.

2.2 Wall mounting the charger

- 1 Drive the screws (not included) into the wall using the wall template as a guide.



- 2 Mount the charger (1), then slide it down (2) and to the right (3) until it is secure.

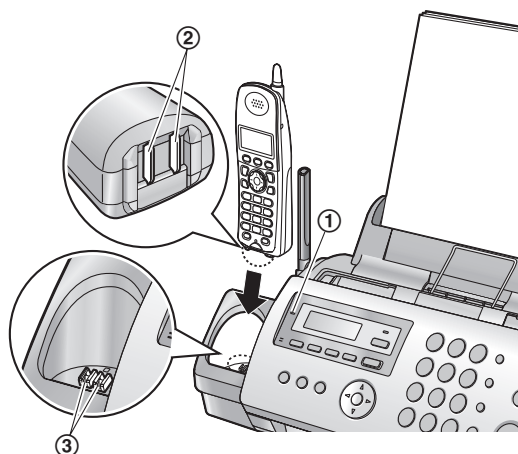


2.3 Battery charge

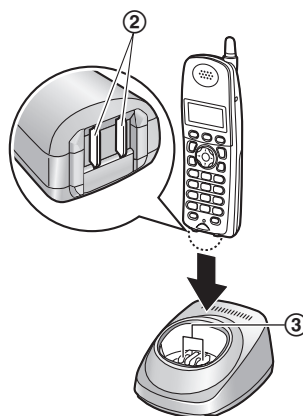
Place the cordless handset on the cradle of the base unit or charger for about **7 hours** before initial use.

- 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 (or charger) without affecting the life of the battery.

Base unit:



Charger:



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 When flashing: Needs to be charged
	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 22).

Note:

- Battery power is consumed whenever the cordless handset is off the base unit or charger, even when the cordless handset is not in use. The longer you leave the cordless handset off the base unit or charger, 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.

2.4 Quick Setup

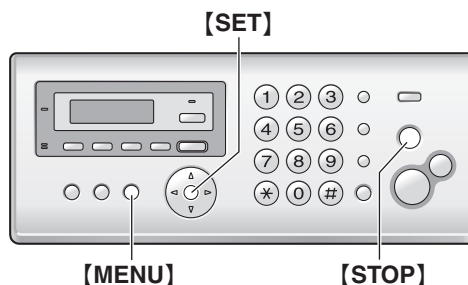
You can print out the quick fax setup guide and select the desired receiving mode depending on your situation.

[1] “TAM/ FAX” (default): Use as a telephone answering machine and/or fax (page 37).

[2] “DIST. RING”: With the Distinctive Ring service (page 39).

[3] “TEL ONLY”: Mostly phone calls (page 36).

[4] “FAX ONLY”: Use only as a fax (page 37).

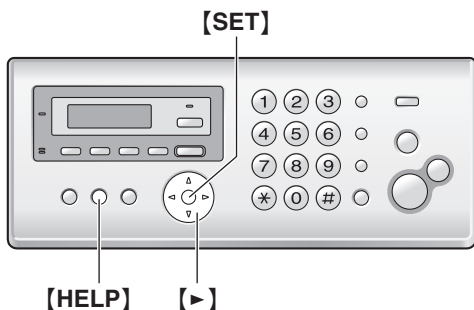


- [MENU] → [Ⓜ][0][0] → [SET]**
- Press **[SET]** again to print the quick fax setup guide.
 - If you do not wish to print it, press **[STOP]**.
- Press **[1]** to **[4]** to display the desired setting. → **[SET] → [MENU]**

2.5 Base unit help function

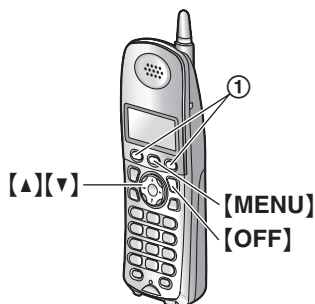
The unit contains helpful information on the following topics which can be printed for reference purposes, as follows:

- "BASIC SETTINGS"
- "FEATURE LIST"
- "TAM OPERATION"
- "FAX SND/RCV"
- "COPIER"
- "REPORTS"
- "CALL DISPLAY"



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

2.6 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 48).

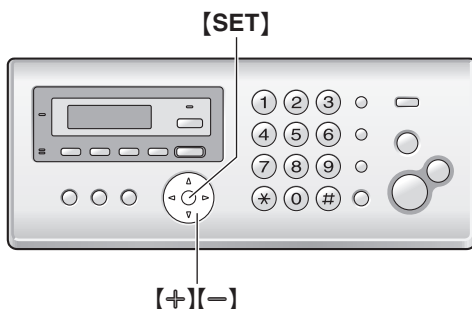
Cordless handset receiver volume

While using the receiver, press **[<]** or **[>]**.

Speaker volume

While using the speakerphone, press **[<]** or **[>]**.

2.7 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 **[+]**.

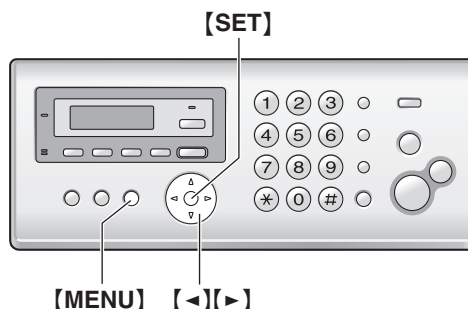
Ringer tone

- You can select the base unit ringer tone from one of 3 patterns for outside calls (feature #17 on page 48).

Speaker volume

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

2.8 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.
- If you select French for the language (feature #48 on page 51), the time is set using a 24 hour clock.
Example: 15:15
Press **[1][5][1][5]**.

To correct a mistake

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

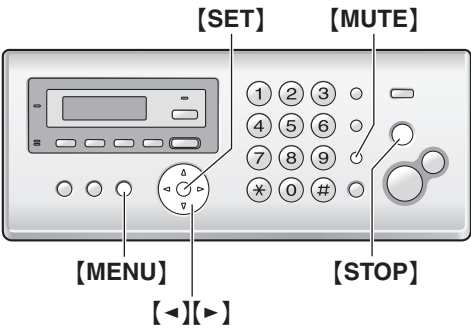
If you have subscribed to a Call Display service

The date and time will be automatically set according to the received caller information.

- If the time has not previously been set, Call Display will not adjust the clock.
- You can set the time adjustment to “**MANUAL**” (feature #33 on page 50).

2.9 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=BILL

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

LOGO=BILL

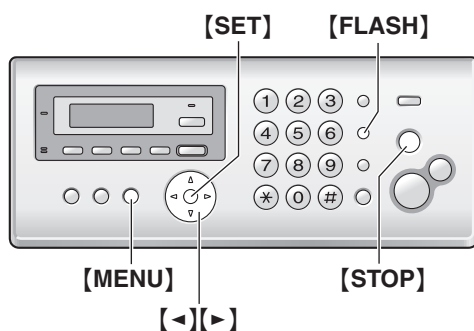
To correct a mistake

Press [←] or [→] to move the cursor to the incorrect character, and make the correction.

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

2.10 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.

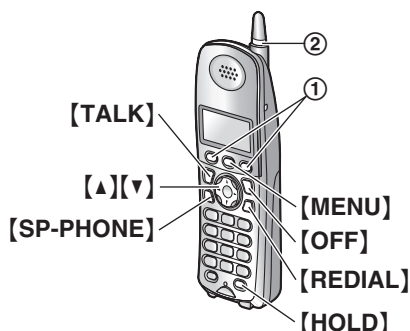
To correct a mistake

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 dial the telephone number.
- 2 **[TALK]** or **[Call]** (soft key ①)
 - To make hands-free phone calls, press **[SP-PHONE]**.
- 3 To hang up, press **[OFF]** or place the cordless handset on the base unit or charger.

Note:

- While talking using **[TALK]**, you can switch to a hands-free phone conversation by pressing **[SP-PHONE]**. To switch back, press **[TALK]**.

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]** (soft key ①).

- To release the mute, press **[Mute]** (soft key ①) or **[TALK]**.
- 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.

Press **[(VE)]** (soft key ①) during an outside call 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 54).

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 **[3]** 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 17).

To put a call on hold

Press **[HOLD]** 2 times.

- To release the hold, press **[TALK]** 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

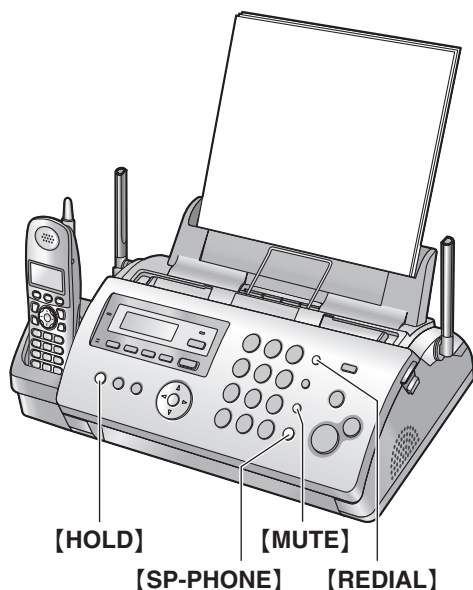
Press **[TALK]**. → **[REDIAL]**

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 **[Erase]** (soft key ①). → **[Yes]** (soft key ①) → **[OFF]**
 - To exit the list, press **[OFF]**.
3. **[TALK]**

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]** on the cordless handset, then press **[SP-PHONE]** on the base unit.
 - If on the base unit, just lift up.

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]**.

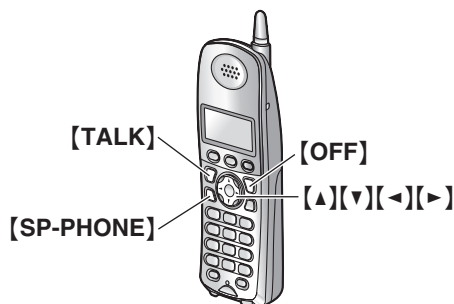
To put a call on hold

Press **[HOLD]** 2 times.

- To release the hold, press **[SP-PHONE]** on the base unit or **[TALK]** 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

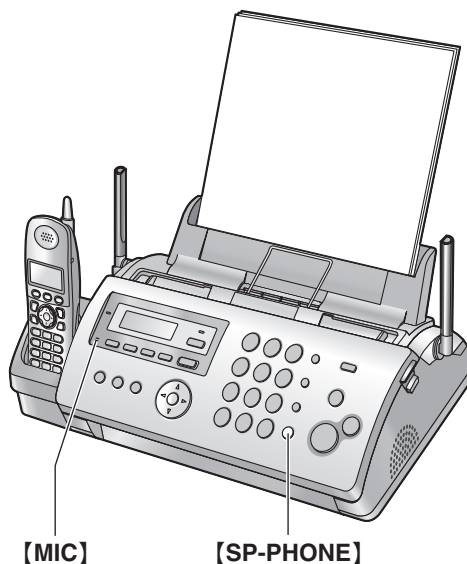


- 1 Lift the cordless handset and press **[TALK]** or **[SP-PHONE]**.
 - You can also answer a call by pressing any button except **[▲]**, **[▼]**, **[◀]**, **[▶]** or **[OFF]** (Any key talk feature).
- 2 To hang up, press **[OFF]** or place the cordless handset on the base unit or charger.

Auto talk feature (Cordless handset)

This feature allows you to answer a call by simply lifting the cordless handset off the base unit or charger (feature 03 on page 54).

3.2.2 With the base unit



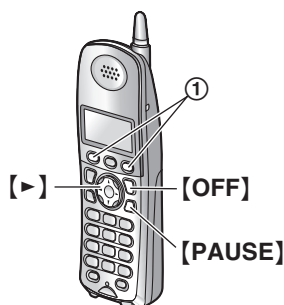
- 1 Press **[SP-PHONE]** and talk into **[MIC]**.
- 2 To hang up, press **[SP-PHONE]**.

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, and between two cordless handsets (page 26).

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

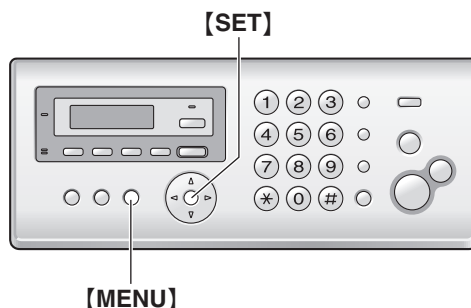
Keypad	Characters
[1]	& ' () , - . / 1
[2]	a b c A B C 2
[3]	d e f D E F 3
[4]	g h i G H I 4
[5]	j k l J K L 5
[6]	m n o M N O 6
[7]	p q r s P Q R S 7
[8]	t u v T U V 8
[9]	w x y z W X Y Z 9
[0]	0 (Space)
[*]	*
[#]	#

Keypad	Characters
[Clear] (soft key ①)	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]** (soft key ①).

3.3.2 With the base unit



- Press **[MENU]** repeatedly to display “**PHONEBOOK SET**”. → **[*]**
- Enter the name, up to 16 characters (see page 20 for instructions). → **[SET]**
- Enter the telephone number, up to 32 digits. → **[SET]**
 - To program other items, repeat steps 2 to 3.
- [MENU]**

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]**

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 24).
 - 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]**.

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 24).

1. During a phone call, press **[MENU]**.
2. Press **[1]** to select “**Phonebook**”.
3. Press **[▼]** or **[▲]** repeatedly to display the desired item.
 - To search for a name by initial, see page 24.
4. **[Call]** (soft key)
 - If required, repeat steps 1 to 4 for any remaining numbers.

Note:

- If you have rotary 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 24) if a PIN number is to be dialed after it.

3.4.2 With the base unit

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

To search for a name by initial

Example: “**LISA**”

1. **[PHONEBOOK]**
2. Press **[+]** or **[–]** to initiate the phonebook.
3. Press **[5]** repeatedly to display any name with the initial “**L**” (see the character table, page 20).
 - To search for symbols, press **[1]**, **[✕]** or **[#]**.
4. 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

- 1 **[Phonebook]** (soft key) → **[Search]** (soft key)
- 2 Press **[▼]** or **[▲]** repeatedly to display the desired item.
- 3 **[Option]** (soft key)
 - If you do not need to edit the name, skip to step 6.
- 4 Press **[1]** to select “**Edit**”.
- 5 Edit the name. For further details, see the storing procedure on page 24.

- 6 **[Next]** (soft key)
 - If you do not need to edit the telephone number, skip to step 8.
- 7 Edit the telephone number. For further details, see the storing procedure on page 24.
- 8 **[Next]** (soft key) → **[Save]** (soft key) → **[OFF]**

3.5.2 With the base unit

- 1 **[PHONEBOOK]**
- 2 Press **[+]** or **[–]** repeatedly to display the desired item. → **[MENU]**
- 3 **[✕]**
 - If you do not need to edit the name, skip to step 5.
- 4 Edit the name. For further details, see the storing procedure on page 24.
- 5 **[SET]**
 - If you do not need to edit the telephone number, skip to step 7.
- 6 Edit the telephone number. For further details, see the storing procedure on page 24.
- 7 **[SET]**

3.6 Erasing a stored item

3.6.1 Erasing a specific item

With the cordless handset

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

With the base unit

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

3.6.2 Erasing all items

With the base unit

1. **[PHONEBOOK]** → **[ERASE]**
2. Press **[+]** or **[–]** repeatedly to select “**YES**”. → **[SET]**
 - To cancel erasing, press **[STOP]**.
3. **[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 25.

3.8 Copying phonebook items

You can copy one or all of the phonebook items between a cordless handset and the base unit or between two cordless handsets. The destination unit will save the items in its phonebook.

3.8.1 To the base unit or another cordless handset (using the cordless handset)

Copying one phonebook item

1. **[MENU]** → **[⇄][1]**
2. **To copy to the base unit**, press **[0]**.
To copy to another cordless handset, enter its extension number (**[1]** or **[2]**).
3. **[Next]** (soft key)
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]**
2. **To copy to the base unit**, press **[0]**.
To copy to another cordless handset, enter its extension number (**[1]** or **[2]**).
3. **[Send]** (soft key)
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. Enter the extension number (**[1]** or **[2]**). → **[SET]**
4. Press **[+]** or **[-]** repeatedly to display the desired item.
5. **[SET]**
 - To copy another item, repeat steps 4 and 5.
6. After copying is completed, press **[MENU]**

Copying all the phonebook items

1. **[MENU]** → **[⇄][5][9]**
2. Press **[2]** to display "ALL ITEMS". → **[SET]**
3. Enter the extension number (**[1]** or **[2]**). → **[SET]**

3.9 Call Display service

This unit is compatible with the Call Display service offered by your local telephone company. To use this unit's Call Display features, you must subscribe to a Call Display 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 47) and FAX ring count (feature #06 on page 47)
- The name display service may not be available in some areas. For further information, please contact your telephone company.

3.9.1 How Call Display 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 27) or print the entire callers list (page 69).

- 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:
 - “UNAVAIL NAME&NO”: The caller dialed from an area which does not provide Call Display 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 callers list (Base unit only)

- To print manually, see page 69.
- To print automatically after every 30 new calls, activate feature #26 (page 49).

Call Waiting Call Display feature

If you subscribe to both Call Display 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 **[CALL WAIT]** on the cordless handset or on the base unit to answer the second call.

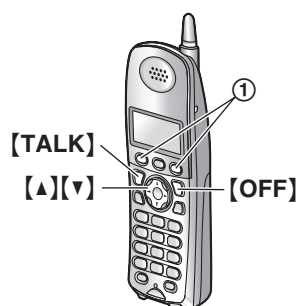
- To return to the first caller, press **[CALL WAIT]** on the cordless handset or on the base unit again.

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



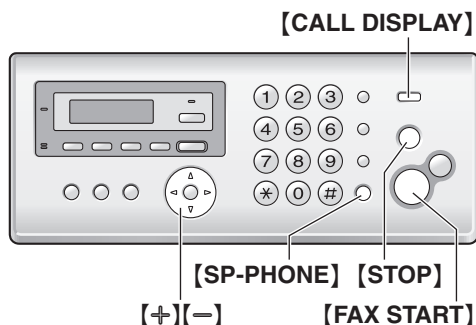
The unit will tell you how many calls you missed while you were out or unavailable to answer the phone.

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]** to return the call.

3.10.2 With the base unit



1 [CALL DISPLAY]

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 **[CALL DISPLAY]** repeatedly after step 2.

Example:

SAM LEE
11:20A Jul.20 ✓

↑

123-456-7890
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.

SAM LEE
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 **[Select]** (soft key), then press **[Edit]** (soft key) on the cordless handset repeatedly or

- press **[*]** 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 – Area code – Local telephone number (“1” added)
 - 2 Local telephone number only (area code omitted)
 - 3 Area code – Local telephone number
- To return a call, press **[TALK]** on the cordless handset or **[SP-PHONE]** on the base unit.
 - To store the number in the cordless handset phonebook, follow from step 3 of the cordless handset storing procedure on page 29.
 - To store the number in the base unit phonebook, follow from step 3 of the base unit storing procedure on page 29.

3.11 Erasing caller information

3.11.1 Erasing all caller information

With the cordless handset

1 Press **[▼]** or **[▲]** to display “Caller list”.

- You can also press **[Rcvd calls]** (soft key).

2 **[All erase]** (soft key)

- To cancel erasing, press **[No]** (soft key), then **[OFF]**.

3 **[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]**

3.11.2 Erasing specific caller information

With the cordless handset

Press **[▼]** or **[▲]** repeatedly to display the desired item.
→ **[Erase]** (soft key) → **[Yes]** (soft key) → **[OFF]**

With the base unit

1 **[CALL DISPLAY]**

2 Press **[+]** or **[−]** repeatedly to display the desired item. → **[ERASE]** → **[STOP]**

3.12 Storing caller information into the phonebook

3.12.1 Into the cordless handset

- 1 Press [**▼**] or [**▲**] repeatedly to display the desired item.
 - If the number requires editing, see page 28.
- 2 [**Select**] (soft key)
- 3 [**Save**] (soft key)
 - If a name has not been received, “**Enter name**” will be displayed.
 1. Enter a name if necessary (see page 24 for instructions).
 2. [**Next**] (soft key) → [**Save**] (soft key)
- 4 [**OFF**]

3.12.2 Into the base unit

- 1 [**CALL DISPLAY**]
- 2 Press [**+**] or [**–**] repeatedly to display the desired item.
 - If the number requires editing, see page 28.
- 3 [**MENU**] → [**SET**] → [**SET**]

3.13 Intercom

Intercom calls can be made:

- between the cordless handset and base unit
- between cordless handsets

Page the desired unit(s) by entering the extension number, shown in the top right of each cordless handset's display. The base unit's extension number is 0.

3.13.1 Making intercom calls

With the cordless handset

- 1 [**INTERCOM**]
- 2 To page the base unit, press [**0**].
To page another cordless handset, enter its extension number ([**1**] or [**2**]).
 - The destination unit will beep for 1 minute.
 - To stop paging, press [**OFF**].
- 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**]
- 2 To page one cordless handset, enter its extension number ([**1**] or [**2**]).
 - The cordless handset will beep (be paged) for 1 minute.
 - To stop paging, press [**SP-PHONE**] or [**INTERCOM**].
- 3 When the paged party answers, speak into [**MIC**].
- 4 To end the intercom call, press [**SP-PHONE**] or [**INTERCOM**].

3.13.2 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. The display will show “**Call from Base**” or the paging extension's number.

- 1 Press [**TALK**] 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 ring and display the paging extension's number.

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

3.14 Conference

A conference call allows two extensions to speak together with an outside caller. While you are talking with a caller, page the base unit or a handset to start the conference call.

3.14.1 With the cordless handset

- 1 During a phone call, press **[HOLD]** to put the call on hold.
- 2 **To page the base unit**, press **[0]**.
To page another cordless handset, enter its extension number (**[1]** or **[2]**).
- 3 When the paged party answers, press **[Conf]** (soft key) to make a conference call.
 - To leave the conference, press **[OFF]**. The other parties can continue the conversation.

3.14.2 With the base unit

- 1 During a phone call, press **[HOLD]** to put the call on hold.
- 2 **To page one cordless handset**, enter its extension number (**[1]** or **[2]**).
- 3 When the paged party answers, press **[CONF]** to make a conference call.
 - To leave the conference, press **[SP-PHONE]**. The other parties can continue the conversation.

During a conference call

- The phone call can be put on hold by pressing **[HOLD]** on the cordless handset or on the base unit. Communications between extensions are not suspended. Only the person who placed the call on hold can resume the full conference; by pressing **[Conf]** (soft key) on the cordless handset or **[CONF]** on the base unit.

3.15 Transferring a call

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

3.15.1 To transfer a call from the cordless handset

- 1 During a phone call, press **[HOLD]** to put the call on hold.
- 2 **To page the base unit**, press **[0]**.
To page another cordless handset, enter its extension number (**[1]** or **[2]**).
- 3 Wait for the paged party to answer.
 - If the paged party does not answer, press **[TALK]** to return to the phone call.
- 4 To complete the transfer, press **[OFF]**.

To answer a transferred call with the base unit:

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

- After the paging party hangs up the call, you can talk to the outside caller.

To answer a transferred call with another cordless handset:

Press **[TALK]** or **[INTERCOM]** to answer the page.

- After the paging party hangs up the call, you can talk to the outside caller.

3.15.2 To transfer a call from the base unit

- 1 During a phone call, press **[HOLD]** to put the call on hold.
- 2 **To page one cordless handset**, enter its extension number (**[1]** or **[2]**).
- 3 Wait for the paged party to answer.
 - If the paged party does not answer, press **[INTERCOM]** to return to the phone call.
- 4 To complete the transfer, press **[SP-PHONE]** or **[INTERCOM]**.

To answer a transferred call with the cordless handset:

Press **[TALK]** or **[INTERCOM]** to answer the page.

- After the paging party hangs up the call, you can talk to the outside caller.

3.16 Call Waiting Deluxe service (Cordless handset only)

To use Call Waiting Deluxe, you must subscribe to your telephone company's Call Waiting Deluxe service. This feature not only allows your cordless handsets to display a second caller's information, but also offers your variety of ways to deal with the second call.

Important:

- Please consult your telephone company for details and availability of this service in your area.

Note:

- Make sure the Call Waiting Deluxe service is turned ON (feature #57 or feature 054 on page 52) beforehand.

3.16.1 Call Waiting Deluxe service options

When a second call is received, you can choose how to handle the call by selecting an option shown on the cordless handset display.

Note:

- Your telephone company may not offer all of the options shown below.

Displayed option	Function
"Answer"	Answers the waiting call, while keeping the first call on hold.
"Hold"	Holds the waiting call. The caller will hear the pre-recorded hold message played by the telephone company.
"Announcement"	The caller will hear the pre-recorded busy message played by the telephone company (for example, "We are not available now.") and will then be disconnected.
"Forward"	Forwards the waiting call to the Voice Mail service provided by your telephone company. You must subscribe to Voice Mail service to use this function.
"Drop"	Disconnects (drops) the current call and answers the waiting call.
"Conference"	Answers the waiting call and combines it with the current call to make a conference call (third-party call).
"Return"	Returns to the waiting caller while keeping the current call on hold.

Displayed option	Function
"Drop caller1"	Disconnects (drops) the first call during a conference call.
"Drop caller2"	Disconnects (drops) the second call during a conference call.

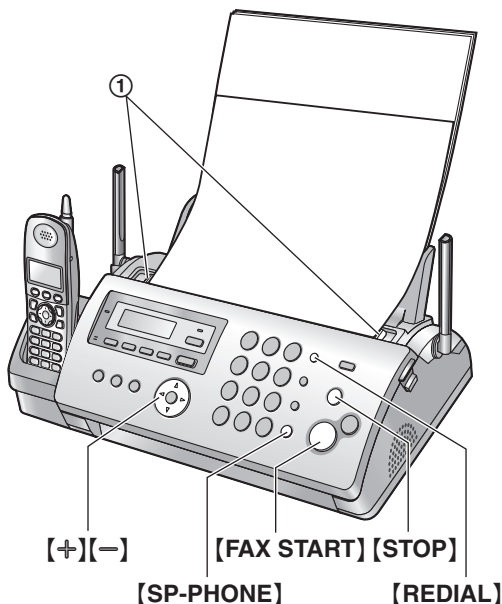
3.16.2 To use Call Waiting Deluxe service

- 1 When you hear a Call Waiting tone during an outside call, press **[CALL WAIT]**.
 - The option menu will be displayed.
- 2 Select the desired option. → **[Select]** (soft key)
 - After selecting "Answer", "Hold" or "Conference", you can select another option.
 - **[CALL WAIT]** → Select the desired option.
 - **[Select]** (soft key)

Note:

- To exit from the option menu, wait for 20 seconds.

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 50) beforehand.

1. Insert the document.
2. Enter the fax number. → **[FAX START]**
 - If the document exceeds the memory capacity, transmission will be cancelled 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]**.

Printing a confirmation report

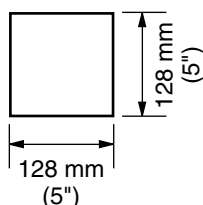
A confirmation report provides you with a printed record of transmission results (errors, etc.). To print confirmation reports, make sure feature #04 is activated (page 47). The default setting is “**ERROR**”. For an explanation of error messages, see page 56.

Printing a journal report

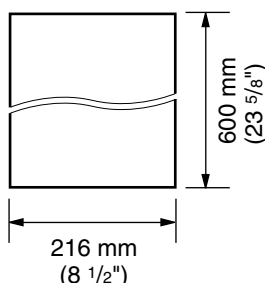
A journal report provides you with a printed record of the 30 most recent fax transmissions and receptions. To print it manually, see page 69. To print it automatically after every 30 new fax transmissions and receptions, make sure feature #22 is activated (page 49). For an explanation of error messages, see page 56.

4.2 Document requirements

Minimum document size

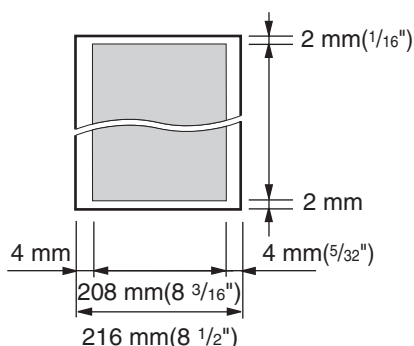


Maximum document size



Effective scanning area

- Shaded area will be scanned.



Document weight

- Single sheet:
45 g/m² to 90 g/m² (12 lb. to 24 lb.)
- Multiple sheets:
60 g/m² to 80 g/m² (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 24) and one touch dial (page 26).

- 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 32).

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 24) 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 32). → **[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 cancelled.
- 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 CANCELLED?". → **[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 17 for quick setup.

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

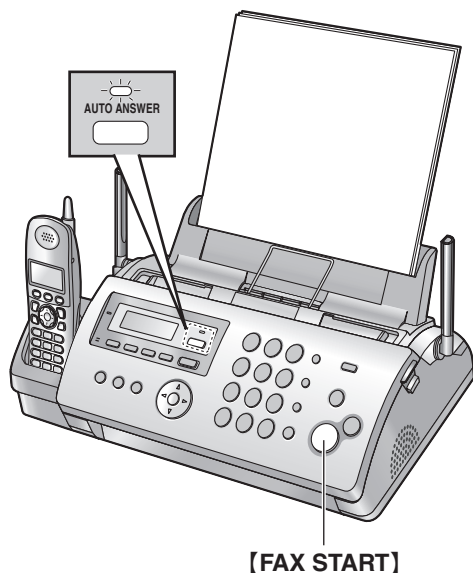
Your situation

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 37) by pressing **[AUTO ANSWER]** repeatedly.

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



Note:

- Make sure feature #77 is set to “**TAM/FAX**” beforehand (page 53).
- 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 37) by pressing **[AUTO ANSWER]** repeatedly.

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



Note:

- Make sure feature #77 is set to “**FAX ONLY**” beforehand (page 53).

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 yourself. If a fax call is received, you must receive the fax manually.

Setup

Set the fax machine to TEL mode (page 36) 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 50 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.



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 **[MENU]**, then press **[2]** to select “**Fax start**”.
 - You can also press **[FAX START]** on the base unit.

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 51) beforehand. The default setting is OFF.

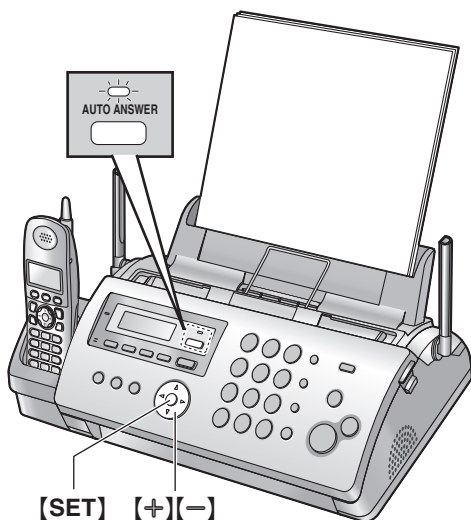
4.7 Receiving a fax automatically – Auto answer ON

Note:

- By default, the unit reduces the size of the received document to 92% when printing (See feature #36 on page 50 for details).

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

- Make sure feature #77 is set to “**TAM/FAX**” (page 53) beforehand.
- 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]**.
 - The **[AUTO ANSWER]** indicator turns ON.



Note:

- The maximum incoming message recording time can be changed (feature #10 or feature 062 on page 47).

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.

- The caller calls your unit.
 - The answering machine will answer the call.
- The caller can leave a message after the greeting message.

- The caller presses **[*][9]**.
 - The unit will activate the fax function.
- 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 47.

- “**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 45), 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.

4.7.2 Activating FAX ONLY mode

- Make sure feature #77 is set to “**FAX ONLY**” (page 53) beforehand.
- 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]**.
 - The **[AUTO ANSWER]** indicator turns ON.

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 Call Display service (page 27), 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 Call Display list (page 27) 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]**

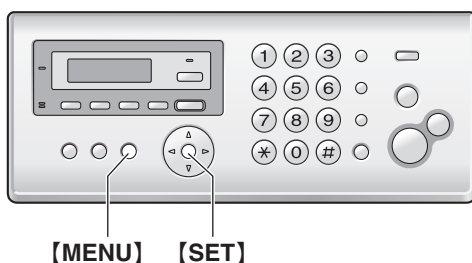
5.1 Distinctive Ring service

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. Consult 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 48). 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 39). In the example, the ring pattern assigned for fax is a triple ring, so you should program "c" (triple ring).

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

Note:

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

5.4 Programming the ring pattern assigned for fax

- 1 Set feature #31 to "ON" (page 39).
- 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 33).

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 50) beforehand. The default setting is OFF.

- If the document exceeds the memory capacity, copying of the exceeded document will be cancelled 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 centre 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%" (default)	Letter	Letter
"92%"	Letter	A4
"86%"	Letter	A4
"72%"	Letter	Legal

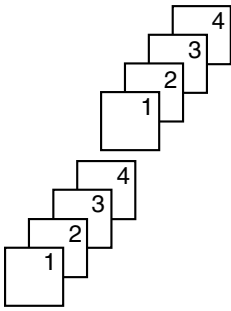
Note:

- 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%.

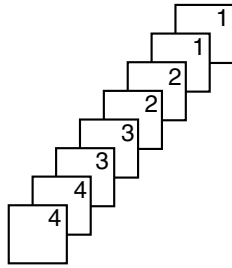
To collate multiple copies

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

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

Collated pages



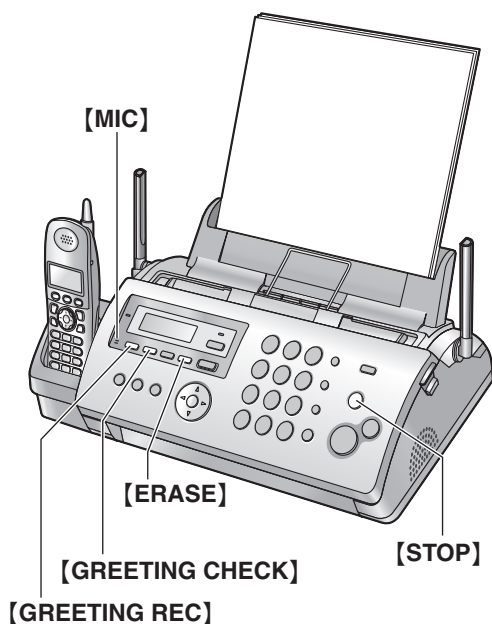
Uncollated pages

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 53).



1 [GREETING REC]

- 2 Within 10 seconds, press **[GREETING REC]**.
 - A long beep will sound.
- 3 Speak clearly about 20 cm (8 inches) away from **[MIC]**.
- 4 When finished recording, press **[STOP]**.

Note:

- You can change the maximum TAM/FAX greeting message recording time to 60 seconds (feature #54 on page 51).
 - 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 47), 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:

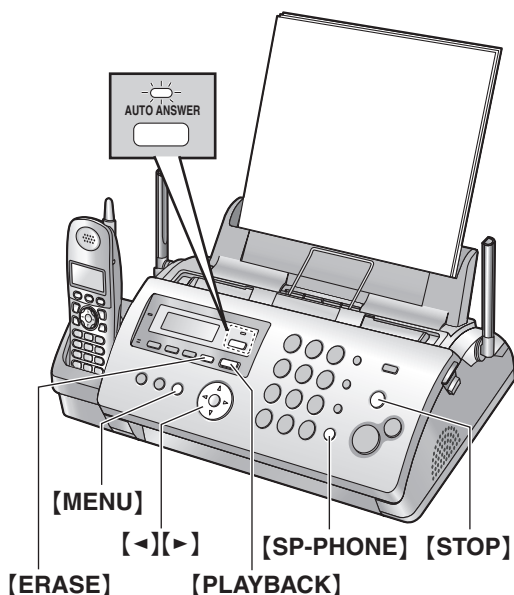
- If you erase your TAM/FAX greeting message, the pre-recorded greeting message will be played when a call is received.

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 **[REWIND]** while listening to the message.

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

To skip a message

Press **[PLAY]** 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 Call Display 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 28).
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

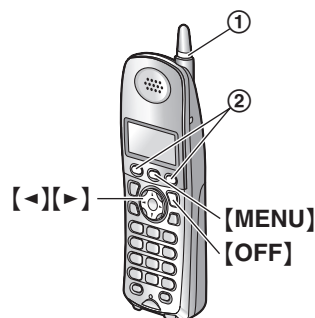
1. **[ERASE]**
2. Within 10 seconds, press **[ERASE]**.

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 53).

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.

7. Answering Machine

- When you have no new messages, the cordless handset plays back all messages.

3 Press **[OFF]** to end the operation.

Voice menu

If you do not press any buttons after the last message is played back, the unit's voice menu starts. Operate the cordless handset by following the voice menu as necessary.

7.3.2 Useful features during playback

To repeat a message

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

- If pressed within 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, press a command key within 15 seconds; otherwise the voice menu will start.

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 53).

If you have subscribed to a Call Display service

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

1. Press **[Select]** (soft key ②) during playback.
 - The cordless handset stops playback.
 - If you do not need to edit the telephone number, skip to step 3.
2. Edit the telephone number (page 28).
3. **[Call]** (soft key ②)

7.3.3 Erasing recorded messages

To erase a specific message

Press **[Erase]** (soft key ②) 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 48).
- Set the unit to TAM/FAX mode before going out (page 37).
- 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 and all the recorded messages will be played back.
- 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.
- The unit will announce the remaining recording time after playback, if it is less than 3 minutes.

Voice menu

During remote operation, the unit's voice menu prompts you to press **[1]** to perform a specific operation, or press **[2]** to listen to more available operations. Operations are presented by voice menu in the following order:

- Plays back all messages
- Plays back new messages
- Records a message
- Erases all messages

Note:

- If you do not press any dial keys within 10 seconds after a voice menu prompt, the unit disconnects your call.

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.

Note:

- When you press a key, press firmly.

Key	Remote command
[1]	Repeats a message (during playback) ^{*1}
[2]	Skips a message (during playback)
[4]	Plays new messages
[5]	Plays all messages
[9]	Stops current operation ^{*2}
[0]	Turns OFF auto answer setting
[*][4]	Erases a specific message (during playback)
[*][5]	Erases all messages
[#]	Skips the greeting message

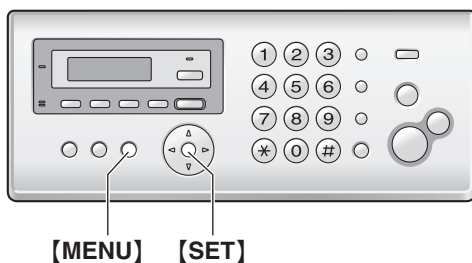
^{*1} If pressed within the first 5 seconds of a message, the previous message will be played.

^{*2} To resume operation, press a command key within 15 seconds; otherwise the voice menu will start.

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.

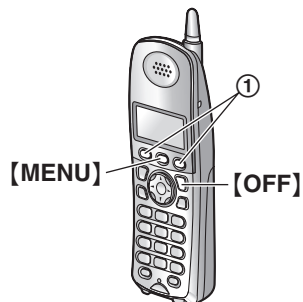
3 Press the desired command to display the desired setting.
• This step may be slightly different depending on the feature.

4 [SET] → [MENU]

Note:

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

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	[#][0][0]	[1] "TAM/FAX" (default) [2] "DIST. RING" [3] "TEL ONLY" [4] "FAX ONLY" See page 17 for details.
Setting the date and time	[#][0][1]	Enter the date and time using the dial keypad. See page 19 for details.
Setting your logo	[#][0][2]	Enter your logo using the dial keypad. See page 20 for details.
Setting your fax number	[#][0][3]	Enter your fax number using the dial keypad. See page 21 for details.
Printing a confirmation report	[#][0][4]	[0] "OFF": Confirmation reports will not be printed. [1] "ON": A confirmation report will be printed after every fax transmission. [2] "ERROR" (default): A confirmation report will be printed only when a fax transmission fails.
Changing the ring count in FAX ONLY mode	[#][0][6]	[1] "1" [2] "2" [3] "3" (default) [4] "4" Note: • Set feature #77 to "FAX ONLY" (page 53) beforehand.
Changing the ring count in TAM/FAX mode*1	Base unit: [#][0][6]	[0] "TOLL SAVER" [2] "2" (default) [3] "3" [4] "4" See page 37 for details. Note: • Set feature #77 to "TAM/FAX" (page 53) beforehand.
	Cordless handset: [0][6][1]	[0] "Toll saver" [2] "2" (default) [3] "3" [4] "4" See page 37 for details.
Changing the maximum recording time for incoming messages*1	Base unit: [#][1][0]	[0] "GREETING ONLY": The unit plays the greeting message but does not record any incoming messages. [1] "1 MIN": 1 minute [2] "2 MIN": 2 minutes [3] "3 MIN" (default): 3 minutes
	Cordless handset: [0][6][2]	[0] "Greeting only": The unit plays the greeting message but does not record any incoming messages. [1] "1min": 1 minute [2] "2min": 2 minutes [3] "3min" (default): 3 minutes

8. Programmable Features

Feature	Feature code	Selection
Setting the remote operation ID^{*1}	Base unit: 【#】[1][1]	1. 【MENU】 → 【#】[1][1] - Enter a 2-digit number (00–99). - The default ID is “11”. 3. 【SET】 → 【MENU】
	Cordless handset: 【0】[6][3]	1. 【MENU】 → 【0】[6][3] - Enter a 2-digit number (00–99). - The default setting is “11”. 3. 【Save】 (soft key) → 【OFF】
Setting the dialing mode^{*1}	Base unit: 【#】[1][3]	If you cannot make calls, change this setting according to your telephone line service. 【1】 “PULSE”: For rotary pulse dial service. 【2】 “TONE” (default): For tone dial service.
	Cordless handset: 【0】[5][1]	【1】 “Pulse”: For rotary pulse dial service. 【2】 “Tone” (default): For tone dial service.
Setting the ringer tone for outside calls	Base unit: 【#】[1][7]	For the base unit ringer tone only: 【1】 “TONE 1” (default) 【2】 “TONE 2” 【3】 “TONE 3”
	Cordless handset: 【1】[2]	For the cordless handset ringer tone only: 【1】 “Tone 1” (default) 【2】 “Tone 2” 【3】 “Tone 3” 【4】 “Melody 1” 【5】 “Melody 2” 【6】 “Melody 3” 【7】 “Melody 4”

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	【✱】[2][2]	[0] “OFF”: The unit will not print a journal report, but will keep a record of the last 30 fax transmissions and receptions. [1] “ON” (default): The unit will print a journal report automatically after every 30 new fax transmissions and receptions (page 32).
Sending documents overseas	【✱】[2][3]	If you cannot send a fax overseas even if the number is correct and the line is connected, activate this feature before sending the fax. This feature improves the reliability by reducing the transmission speed. [0] “OFF”: Deactivates this feature. [1] “NEXT FAX”: This setting is effective only for the next attempted fax transmission. After transmission, the unit will return to the previous setting. [2] “ERROR” (default): When the previous fax transmission fails and you wish to re-send the document. Note: • Calling charges may be higher than usual.
Sending a fax at a specified time	【✱】[2][5]	This feature allows you to take advantage of low-cost calling hours offered by your telephone company. This feature can be set up to 24 hours in advance of the desired time. [0] “OFF” (default) [1] “ON” To send a document: 1. Insert the document. 2. If necessary, press [+] or [-] repeatedly to select the desired resolution (page 32). 3. [MENU] → [✱][2][5] 4. Press [1] to select “ON”. → [SET] 5. Enter the fax number. → [SET] 6. Enter the transmission start time. • Press [✱] to select “AM” or “PM”. • If you select French for the language (feature #48 on page 51), the time is set using a 24 hour clock. 7. [SET] → [MENU] Note: • To cancel after programming, press [STOP] then [SET].
Setting the callers list to print automatically	【✱】[2][6]	[0] “OFF” (default): The callers list will not be printed automatically, but the base unit will keep a record of the information for the last 30 different callers. [1] “ON”: The callers list will be printed automatically each time the base unit logs 30 different callers (page 27).
Activating the Distinctive Ring feature	【✱】[3][1]	[0] “OFF” (default) [1] “ON” See page 39 for details.

8. Programmable Features

Feature	Feature code	Selection															
Setting the ring pattern for fax (Distinctive Ring feature)	【#】[3][2]	[1] “A” [2] “B” [3] “C” [4] “D” [5] “B-D” (default) See page 39 for details.															
Setting the time adjustment	【#】[3][3]	Using this feature, the unit’s date and time setting will be automatically adjusted when caller information is received. [0] “MANUAL”: Deactivates this features. [1] “AUTO” (default): The date and time setting will be automatically adjusted.															
Setting the quick scan	【#】[3][4]	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. [0] “OFF” (default): Deactivates this feature. [1] “ON”: The unit will scan the document and store it into memory first, then the unit will start sending or copying the documents. Note: If the document exceeds the memory capacity, sending of the whole document or copying of the exceeded document will be cancelled and this feature will be turned OFF automatically.															
Receiving oversized documents	【#】[3][6]	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. [1] “72%” [2] “86%” [3] “92%” (default) [4] “100%” <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>Letter</td><td>Letter</td></tr> <tr> <td>“92%” (default)</td><td>Letter</td><td>Letter</td></tr> <tr> <td>“86%”</td><td>Letter</td><td>A4</td></tr> <tr> <td>“72%”</td><td>Letter</td><td>Legal</td></tr> </tbody> </table> Note: 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.	Setting	Recording paper size	Original document size	“100%”	Letter	Letter	“92%” (default)	Letter	Letter	“86%”	Letter	A4	“72%”	Letter	Legal
Setting	Recording paper size	Original document size															
“100%”	Letter	Letter															
“92%” (default)	Letter	Letter															
“86%”	Letter	A4															
“72%”	Letter	Legal															

Feature	Feature code	Selection
Changing the LCD display contrast	Base unit: [Ⓜ][3][9]	For the base unit display contrast only: [1] "NORMAL" (default) [2] "DARKER"
	Cordless handset: [0][1]	For the cordless handset display contrast only: [1] Level 1 [2] Level 2 [3] Level 3 (default) [4] Level 4 [5] Level 5 [6] Level 6
Changing the fax activation code	[Ⓜ][4][1]	If you wish to use an extension telephone (page 36) to receive faxes, activate this feature and program the activation code. [0] "OFF" (default) [1] "ON" 1. [MENU] → [Ⓜ][4][1] 2. Press [1] to select "ON". → [SET] 3. Enter your code from 2 to 4 digits, using 0-9, [*] and [Ⓜ]. • The default code is "*#9". 4. [SET] → [MENU]
Setting the memory reception alert	[Ⓜ][4][4]	To alert you with a beeping sound when a received fax document is stored into memory due to some existing problem. [0] "OFF": Deactivates this feature. [1] "ON" (default): You will hear a beeping sound. Note: • 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). [0] "OFF": You have to press [FAX START] for fax reception. [1] "ON" (default): You do not have to press [FAX START] for fax reception.
Selecting the language	Base unit: [Ⓜ][4][8]	The display and reports will be in the selected language. [1] "ENGLISH" (default): English is used. [2] "FRENCH": French is used.
	Cordless handset: [0][8][1]	The display will be in the selected language. [1] "English" (default): English is used. [2] "Français": French is used.
Selecting the voice prompt^{*1}	Base unit: [Ⓜ][5][0]	The voice guidance will be heard in the selected language. [1] "ENGLISH" (default): English is used. [2] "FRENCH": French is used.
	Cordless handset: [0][8][2]	The voice guidance will be heard in the selected language. [1] "English" (default): English is used. [2] "Français": French is used.
Changing the recording time for your TAM/FAX greeting message	[Ⓜ][5][4]	[1] "16s" (default): Maximum recording time is 16 seconds. [2] "60s": Maximum recording time is 60 seconds. See page 42 for details.

8. Programmable Features

Feature	Feature code	Selection
Setting the Call Waiting Deluxe service^{*1}	Base unit: [#][5][7]	[0] “OFF” (default): Deactivates this feature. [1] “ON”: You can select call waiting options with the handset when receiving a call. See page 31 for details. Note: After this feature is set to on, you can only use this option with the cordless handset.
	Cordless handset: [0][5][4]	[0] “OFF” (default): Deactivates this feature. [1] “ON”: You can select call waiting options with the handset when receiving a call. See page 31 for details. After this feature is set to on, you can only use this option with the cordless handset.
Copying phonebook data from the base unit to the cordless handset	[#][5][9]	[1] “1 ITEM” (default) [2] “ALL ITEMS” See page 26 for details.
Setting line mode	[#][6][2]	The line mode is preset to “B” and generally should not be adjusted. If a change of the line mode setting is required by our customer call centre or service personnel, change the line mode to “A”. [1] “A” [2] “B” (default)
Setting the incoming message monitor	[#][6][7]	To hear an incoming message (ICM) from the speaker when the answering machine is recording the message. [0] “OFF” [1] “ON” (default)
Setting flash time^{*1}	Base unit: [#][7][2]	The flash time depends on your telephone exchange or host PBX. [1] “700ms” (default) [2] “600ms” [3] “400ms” [4] “300ms” [5] “250ms” [6] “110ms” [7] “100ms” [8] “90ms” Note: 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.
	Cordless handset: [0][5][2]	[1] “700ms” (default) [2] “600ms” [3] “400ms” [4] “300ms” [5] “250ms” [6] “110ms” [7] “100ms” [8] “90ms”

Feature	Feature code	Selection
Setting the connecting tone	[*][7][6]	If you often have trouble when sending faxes, this feature allows you to hear connecting tones: fax tone, ring back tone and busy tone. You can use those tones to confirm the status of the other party's machine. [0] "OFF": Deactivates this feature. [1] "ON" (default): You will hear connecting tones. Note: - If the ring back tone continues, the other party's machine may not be a fax machine or may have run out of paper. Check with the other party. - The connecting tone volume cannot be adjusted.
Changing the receiving mode in the AUTO ANSWER setting	[*][7][7]	[1] "TAM/FAX" (default): Telephone Answering Machine/Fax mode (page 37) [2] "FAX ONLY": Fax only mode (page 37)
Resetting advanced features to their default settings (Base unit only)	[*][8][0]	[0] "NO" (default) [1] "YES" To reset the advanced features: [MENU] → [*][8][0] - Press [1] to select "YES". → [SET] → [SET] → [MENU] Note: - The cordless handset flash time (feature 052 on page 52) and Call Waiting Deluxe service (feature 054 on page 52) will also be reset. - The language setting (feature #48 on page 51) and the voice prompt (feature #50 on page 51) will not be reset.

8.5 Other features (Cordless handset only)

Feature	Feature code	Selection
Setting the message alert	[0][*]	You can select whether or not the message indicator on the cordless handset will flash when new messages have been recorded (page 43). [0] "OFF" (default) [1] "On" Note: - The message indicator will not flash for new messages while the cordless handset is in use. - Battery performance may be shortened when using this feature (page 17).
Registering the cordless handset	[0][0]	See page 55 for details.
Setting the key tone	[0][2]	You can select whether or not key tones are heard when keys are pressed. Includes confirmation tones and error tones. [0] "OFF" [1] "On" (default)

8. Programmable Features

Feature	Feature code	Selection
Setting auto talk feature	[0][3]	This feature allows you to answer a call by lifting the cordless handset off the base unit or charger without pressing [TALK] or [SP-PHONE] . [0] "Off" (default) [1] "On"
Changing the ringer volume	[1][1]	[0] Off [1] Low [2] Medium [3] High (default) See page 18 for details.
Setting the ringer indicator colour	[1][4]	[1] "Colour1" (default): Amber [2] "Colour2": Green [3] "Colour3": Red [4] "Multicolour"
Setting the voice enhancer feature	[5]	[0] "Off" (default) [1] "On" See page 22 for details.
Copying one phonebook item (from the cordless handset to the base unit or another cordless handset)	[#][1]	See page 26 for details.
Copying all the phonebook items (from the cordless handset to the base unit or another cordless handset)	[#][2]	See page 26 for details.

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. Only one cordless handset can be registered at a time.

Important:

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

1 Cordless handset:

[MENU] → [0][0]

2 Base unit:

1. Press and hold **[LOCATOR]** until “**HS1 REGISTRATION**” is displayed.
2. If necessary, press **[+]** or **[-]** repeatedly to select the desired extension number. → **[SET]**

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 32).

Message	Code	Cause & Solution
COMMUNICATION ERROR	40-42 46-72 FF	• A transmission or reception error occurred. Try again or check with the other party.
	43 44	• A line problem occurred. Connect the telephone line cord to a different jack and try again. • An overseas transmission error occurred. Try using the overseas mode (feature #23 on page 49).
DOCUMENT JAMMED	-----	• Remove the jammed document (page 66).
ERROR-NOT YOUR UNIT	53 54 59 70	• A transmission or reception error occurred because of a problem with the other party's fax machine. Check with the other party.
JUNK FAX PROH. REJECT	-----	• The junk fax prohibitor feature of this unit rejected fax reception.
MEMORY FULL	-----	• The memory is full of received documents due to a lack of recording paper, 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 65).
NO DOCUMENT	-----	• The document was not fed into the unit properly. Re-insert the document and try again.
OTHER FAX NOT RESPONDING	-----	• The other party's fax machine is busy or has run out of recording paper. Try again. • The other party's fax machine rang too many times. Send the fax manually (page 32). • The other party's machine is not a fax machine. Check with the other party. • The number you dialed is not in service.
PRESSED THE STOP KEY	-----	• [STOP] was pressed, and fax transmission or reception was cancelled.
OK	-----	• Fax transmission or reception was successful.

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"	The back cover is open. Close the back cover firmly.
"CALL SERVICE"	There is something wrong with the unit. Contact our service personnel.
"CHECK DOCUMENT"	- The document was not fed into the unit properly. Re-insert the document. If misfeeding occurs frequently, clean the document feeder rollers (page 67) and try again. - The document is longer than 600 mm (23⁵/₈"). Press [STOP] to remove the document. Divide the document into two or more sheets, and try again.
"CHECK FILM"	- The ink film is empty. Replace the ink film with a new one (page 11). - The ink film is not installed. Install it (page 11). - The ink film is slack or creased. Tighten it (see step 5 on page 11).
"CHECK PAPER"	- The recording paper is not installed or the unit has run out of paper. Install paper and press [SET] to clear the message. - The recording paper was not fed into the unit properly (page 66). Re-install paper (page 13) and press [SET] to clear the message. - The recording paper has jammed near the recording paper entrance. Remove the jammed paper (page 65) and press [SET] to clear the message.
"ERROR! !"	The cordless handset tried to copy phonebook items (page 26) but the copy has been stopped.
"FAX IN MEMORY"	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 65). You will lose all faxes in memory if the power is removed. Check with power connected.
"FAX MEMORY FULL"	- 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 65). You will lose all faxes in memory if the power is removed. Check with power connected. - When performing memory transmission, the document being stored exceeded the memory capacity of the unit. Send the entire document manually.
"FILM EMPTY"	- The ink film is empty. Replace the ink film with a new one (page 11). - The ink film is slack. Tighten it (see step 5 on page 11) and install again. - The fax machine is positioned near appliances such as TVs or speakers which generate an intense magnetic field.
"FILM NEAR EMPTY"	The remaining ink film is low. Prepare a new ink film (page 7).
"INCOMPLETE"	The phonebook copy stopped because the destination cordless handset was out of range. Press [STOP] to clear the message.
"MEMORY FULL"	When making a copy, the document being stored exceeded the memory capacity of the unit. Press [STOP] to clear the message. Divide the document into sections.
"MESSAGE FULL"	There is no room left in memory to record voice messages. Erase unnecessary messages (page 43, 44).

Display	Cause & Solution
"MODEM ERROR"	There is something wrong with the unit's modem. Contact our service personnel.
"NO FAX REPLY"	The other party's fax machine is busy or has run out of recording paper. Try again.
"NO ITEMS STORED"	You tried to copy your phonebook items to the cordless handset, but your phonebook was empty.
"OPEN CABINET CHECK FILM SLACK" "OPEN CABINET CHECK FILM TYPE"	- Please use genuine Panasonic replacement film (page 7). - The ink film is slack. Tighten it (see step 5 on page 11). - The fax machine is positioned near appliances such as TVs or speakers which generate an intense magnetic field.
"PAPER JAMMED"	- A recording paper jam occurred. Remove the jammed paper (page 65). - You forced the recording paper into the paper tray too strongly. Remove all of the installed paper, and re-install it gently.
"PHONEBOOK FULL"	- There is no space to store new items in the phonebook. Erase unnecessary items (page 25). - The phonebook memory of the cordless handset is already full, or became full when copying phonebook items. Copying was stopped. Press [STOP] to exit the mode. Erase other stored items in the cordless handset phonebook (page 25), then try again.
"PLEASE WAIT"	The unit is checking that there is no slack or crease in the ink film. Wait for a moment while the check is completed.
"RECORDING ERROR"	You recorded your greeting message or memo message less than 1 second in length and recording has failed. Try again.
"REDIAL TIME OUT"	The other party's fax machine is busy or has run out of recording paper. Try again.
"REMOVE DOCUMENT"	- The document is jammed. Remove the jammed document (page 66). - Press [STOP] to eject the jammed paper.
"SERIAL ERROR"	There is something wrong with the unit and the base unit will not work. Contact our service personnel.
"TRANSMIT ERROR"	- A transmission error occurred. Try again. - If you are sending a fax overseas, try the following: - Make sure the other party's number is a fax number. - Use the overseas transmission mode (feature #23 on page 49). - Add 2 pauses at the end of the telephone number or dial manually.
"UNIT OVERHEATED"	The unit is too hot. Stop using the unit for a while and let the unit cool down.

10.2.2 Cordless handset

Display	Cause & Solution
"Busy"	The called base unit or another cordless handset is in use.
"Error!!"	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.
"---Incomplete--- Phonebook full"	The destination unit's phonebook memory is full. Erase unnecessary items from the destination unit's phonebook (page 25).
"No items stored"	Your phonebook or redial list is empty.

Display	Cause & Solution
"No link to base. Move closer to base, try again."	• The cordless handset has lost communication with the base unit. Move closer to the base unit, and try again. • Confirm that the base unit's power cord is plugged in. • Raise the base unit antennas. • The cordless handset's registration may have been cancelled. Re-register the cordless handset (page 55).
"Phonebook full"	• There is no space to store new items in the phonebook. Erase unnecessary items (page 25).
"Please lift up and try again."	• A cordless handset button was pressed while the cordless handset was on the base unit or charger. Lift the cordless handset and press the button again.
"System is busy. Please try again later."	• The cordless handset has lost communication with the base unit. Move closer to the base unit and try again. • Another user is listening to messages. Try again later.

10.3 When a function does not work, check here

10.3.1 Initial settings

Problem	Cause & Solution
I cannot hear a dial tone.	• 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. • Disconnect the unit from the telephone line and connect a known working telephone. If the working telephone operates properly, contact our service personnel to have the unit repaired. If the working telephone does not operate properly, contact your telephone company. • The power cord or telephone line cord is not connected. Check the connections. • If you have connected the fax machine through a computer modem, connect the fax machine directly to a telephone line jack.
I cannot make calls.	• The dialing mode setting may be wrong. Change the setting (feature #13 or feature 051 on page 48).
The unit does not work.	• Make sure that the battery is installed correctly (page 14) and fully charge it (page 16). • Check the connections (page 15).
The unit does not ring.	• The ringer volume is turned OFF. Adjust it (page 18).

10.3.2 General

Problem	Cause & Solution
The unit displays "PAPER JAMMED" even though paper is installed.	• You forced the recording paper into the paper tray too strongly. Remove all of the installed paper, and re-install it gently.
The unit displays "CHECK PAPER" even though paper is inserted.	• The paper is inserted halfway. Insert it correctly (page 66) and press [SET] to clear the message.

Problem	Cause & Solution
The other party complains they only hear a fax tone and cannot talk.	- FAX ONLY mode is set. Tell the other party the number is only used for faxes. - Change the receiving mode to TEL mode (page 36) or TAM/FAX mode (page 37). - If you use a Distinctive Ring service, make sure you have set the same ring pattern assigned by the telephone company (page 39).
[REDIAL] or [PAUSE] on the base unit does not function properly.	If this button is pressed during dialing, a pause will be inserted. If pressed immediately after a dial tone is obtained, the last number dialed will be redialed.
The receiving mode does not function properly.	Distinctive Ring is set (feature #31 on page 49).
During programming, I cannot enter the code or ID number.	- All or part of the number is the same as another code or ID. Change the number: - remote operation ID (code): feature #11 or feature 063 on page 48. - fax activation code: feature #41 on page 51.
The ink film runs out quickly.	- Even if there are only a few sentences, every page that comes out of the machine is considered a full page. - Turn OFF the following features: - Confirmation report: feature #04 on page 47. - Journal report: feature #22 on page 49. - Callers list: feature #26 on page 49.
The unit beeps.	The memory reception alert of feature #44 is ON (page 51), and the unit has a document in memory. Press [STOP] to stop the beeps, then see the displayed message instructions to solve the problem.
Whenever I try to retrieve my voice mail messages, I am interrupted by the fax tone.	You are probably entering [*][#][9]. This is the default setting for the fax activation code. If you use a voice mail service, turn the fax activation feature OFF or reprogram the activation code (feature #41 on page 51).
The speakerphone is not working.	- Use the speakerphone in a quiet room. - If you have difficulty hearing the other party, adjust the volume.
I cannot page the cordless handset or base unit.	The cordless handset is too far from the base unit.
The unit does not display the caller's name and/or telephone number.	- You need to subscribe to a Call Display service. - Other telephone equipment may be interfering with your phone. Disconnect it and try again. - Other electrical appliances connected to the same outlet may be interfering with the Call Display information. - Telephone line noise may be affecting the Call Display information. - The caller requested not to send his/her information (page 27). - If a call is being transferred to you, the caller information will not be displayed.
The display exits the callers list while viewing caller information.	Do not pause for over 1 minute on the cordless handset or 3 minutes on the base unit while viewing.

10.3.3 Cordless handset

Problem	Cause & Solution
The cordless handset does not work.	- Make sure that the battery is installed correctly (page 14) and fully charge it (page 16). - Clean the charge contacts and charge again (page 16). - Unplug the base unit's power cord to reset. Plug in, and try again.
The cordless handset does not ring.	The ringer volume is set to OFF. Adjust it (page 18).
Static, sound cuts in/out, fades. Interference from other electrical units.	- Move the cordless handset and the base unit away from other electrical appliances. - Move closer to the base unit. - Raise the base unit antennas. - Turn ON the clarity booster feature (page 22).
I cannot store an item in the phonebook.	- You cannot store an item in the phonebook while the cordless handset is in talk, speakerphone or intercom mode, or while listening to messages. - Do not pause for over 1 minute while storing.
I cannot redial by pressing [REDIAL].	- If the last number dialed was more than 48 digits long, the number will not be redialed correctly. Redial the number manually. - The last number dialed may have been a remote function.
I charged the battery fully, but  continues to flash, or  are displayed.	- Clean the charge contacts and charge again (page 16). - The battery may need to be replaced (page 14). If you install a new battery, fully charge it (page 16).
I cannot receive documents on the cordless handset.	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 65).
The cordless handset display is blank.	- Fully charge the battery (page 16). - Remove the battery for 30 seconds and replace it again.
I cannot have a conversation using the headset.	- Make sure that the optional headset is connected properly (page 14). - If "SP-phone" is displayed on the cordless handset, press [TALK] to switch to the headset.
I cannot program items.	While another user is listening to messages or the telephone answering machine is answering a call, you cannot program. Try again later.

10.3.4 Fax – sending

Problem	Cause & Solution
I cannot send documents.	- The other party's fax machine is busy or has run out of recording paper. Try again. - The other party's machine is not a fax machine. Check with the other party. - The other party's fax machine failed to answer the fax automatically. Send the fax manually (page 32). - The memory is full of received documents and the quick scan (feature #34 on page 50) is ON. Turn this feature OFF, and send the fax again.
I cannot send a fax overseas.	- Use the overseas transmission mode (feature #23 on page 49). - Add 2 pauses at the end of the telephone number or dial manually.

Problem	Cause & Solution
The other party complains that letters on their received document are distorted or not clear.	● 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. ● An extension telephone on the same line is occupying the line. Hang up the extension telephone and try again. ● Try copying the document with this unit. If the copied image is clear, there may be something wrong with the other party's machine.
The other party complains that black lines, white lines or smudges appear on their received document.	● The scanner glass or rollers are dirty with correction fluid, etc. Clean them (page 67). Please do not insert a document before correction fluid has dried completely.
Documents frequently misfeed.	● Clean the document feeder rollers, recording paper feeder and rubber flap (page 67).

10.3.5 Fax – receiving

Problem	Cause & Solution
I cannot receive documents.	● 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: – contact your telephone company and request to deactivate voice mail service, or – subscribe to a Distinctive Ring service (page 39). ● The ink film is empty. Replace the ink film with a new one (page 11).
I cannot receive documents automatically.	● The receiving mode is set to TEL mode. Change the receiving mode: – TAM/FAX mode (page 37) or FAX ONLY mode (page 37). ● The time taken to answer the call is too long. Decrease the number of rings in feature #06 or feature 061 (page 47). ● The greeting message is too long. Record a shorter message (page 42). ● Make sure that the Distinctive Ring of feature #31 is set properly (page 49). If you do not subscribe to the Distinctive Ring service offered by your local telephone company, this feature should be OFF.
The display shows “CONNECTING”, but faxes are not received.	● The receiving mode is set to FAX ONLY mode and the incoming call is not a fax. Change the receiving mode: – TAM/FAX mode (page 37) or TEL mode (page 36).
A blank sheet is ejected.	● 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 50). ● The other party placed the document in their fax machine facing the wrong way. Check with the other party.

Problem	Cause & Solution
The printing quality is poor.	Please do not reuse the ink film! Please use genuine Panasonic replacement film. Refer to page 7 for further details. • The thermal head is dirty. Clean it (page 68). • 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. • Some paper has instructions recommending which side to print on. Try turning the recording paper over. • You may have used paper with cotton and/or fibre content that is over 20%, such as letterhead or resume paper.
Recording paper frequently misfeeds.	• Clean the document feeder rollers, recording paper feeder and rubber flap (page 67).
Letters on the received document are distorted.	• 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.
I cannot receive documents by pressing [✳][≡][9] on an extension telephone.	• You must set remote fax activation to ON (feature #41 on page 51) beforehand. • You may have changed the remote fax activation code from [✳][≡][9] (default setting). Verify the remote fax activation code (feature #41 on page 51). • 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 65).
The other party complains that they cannot send a document.	• The receiving mode is set to TEL mode. Receive the document manually (page 36) or change the receiving mode to TAM/FAX mode (page 37) or FAX ONLY mode (page 37). • 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 65).
I cannot select the desired receiving mode.	• If you want to set TAM/FAX or FAX ONLY mode: – select the desired mode using feature #77 (page 53), and press [AUTO ANSWER] repeatedly until the desired mode is displayed. • If you want to set TEL mode: – press [AUTO ANSWER] repeatedly until “TEL MODE” is displayed.

10.3.6 Copying

Problem	Cause & Solution
The unit will not make a copy.	• The ink film is empty. Replace the ink film with a new one (page 11). • You cannot make a copy during programming. • You cannot make a copy during a telephone conversation.
A black line, white line or smudge appears on the copied document.	• The scanner glass or rollers are dirty with correction fluid, etc. Clean them (page 67). Please do not insert a document before correction fluid has dried completely.
The copied image is distorted.	• Adjust the width of the document guides to fit the actual size of the document.

Problem	Cause & Solution
The printing quality is poor. Original  Copy 	Please do not reuse the ink film! Please use genuine Panasonic replacement film. Refer to page 7 for further details. • The thermal head is dirty. Clean it (page 68). • Some paper has instructions recommending which side to print on. Try turning the recording paper over. • You may have used paper with a cotton and/or fibre content that is over 20%, such as letterhead or resume paper.
Documents or recording paper frequently misfeed.	• Clean the document feeder rollers, recording paper feeder and rubber flap (page 67).

10.3.7 Answering machine

Problem	Cause & Solution
I cannot listen to messages from a remote location.	• Press the remote operation ID (code) correctly and firmly (feature #11 or feature 063 on page 48). • The unit is not in TAM/FAX mode. Change to TAM/FAX mode (page 45).
The other party complains that they cannot leave a voice message.	• 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: – contact your telephone company and request to deactivate voice mail service, or – subscribe to a Distinctive Ring service (page 39). • The recording time is set to “GREETING ONLY”. Select “1 MIN”, “2 MIN” or “3 MIN” (feature #10 or feature 062 on page 47). • The memory is full. Erase unnecessary messages (page 43, 44). • Make sure there is no other answering machine connected on the same line.
I cannot operate the answering machine with the cordless handset.	• Someone is operating the answering machine. • You are too far from the base unit. Move closer to the base unit.
The message indicator flashes slowly.	• This is normal. New messages have been recorded. Listen to the new messages (page 43) or turn the message alert OFF (feature 0# on page 53).
Call Display information does not display during message playback.	• The caller information will not be displayed if a message is recorded by using [MEMO] (page 44).

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 49) 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

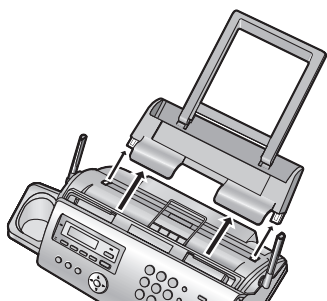
11.1.1 When the recording paper has jammed in the unit

The display will show the following.

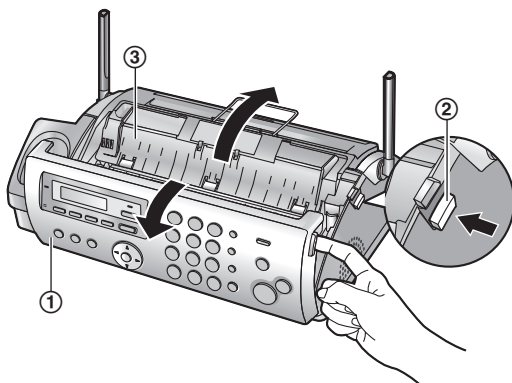
PAPER JAMMED

Important:

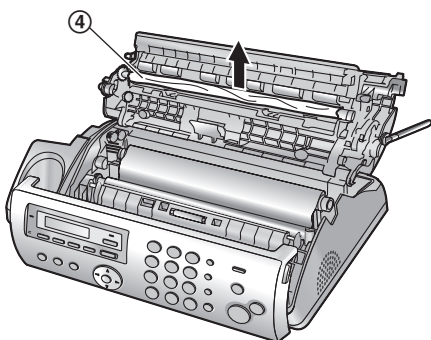
- Remove the recording paper, then remove the paper tray beforehand, otherwise the paper may misfeed or jam.



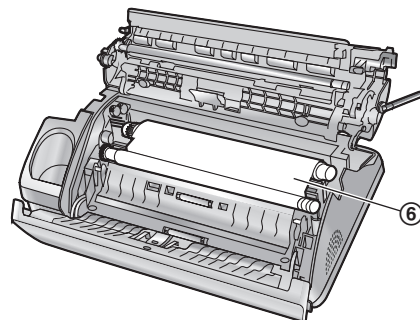
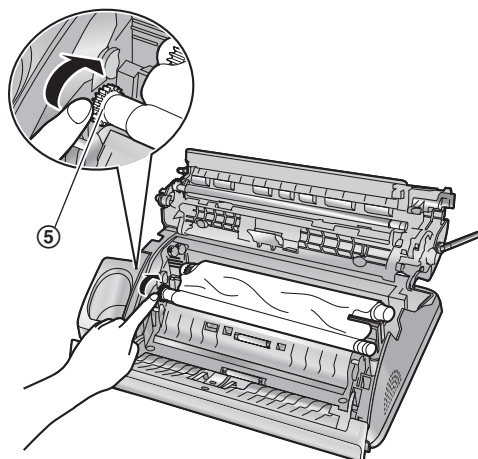
- Open the front cover (①), push the green button (②), then open the back cover (③).



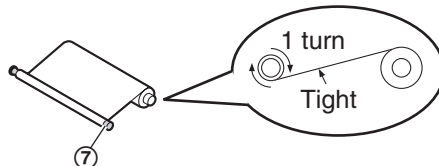
- Remove the jammed recording paper (④).



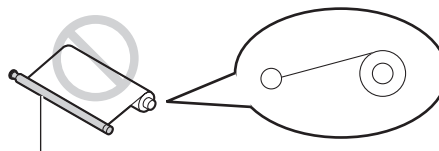
- Turn the blue gear (⑤) in the direction of the arrow until the ink film is tight (⑥) and at least one layer of ink film is wrapped around the blue core (⑦).



Correct



Incorrect

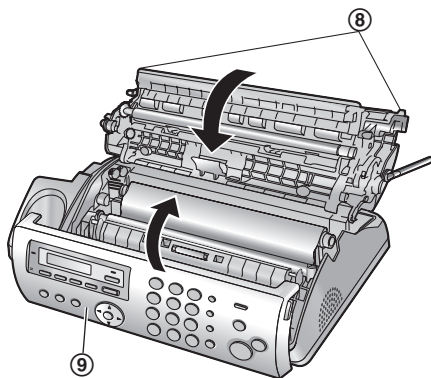


No ink film is wrapped around the blue core.



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).



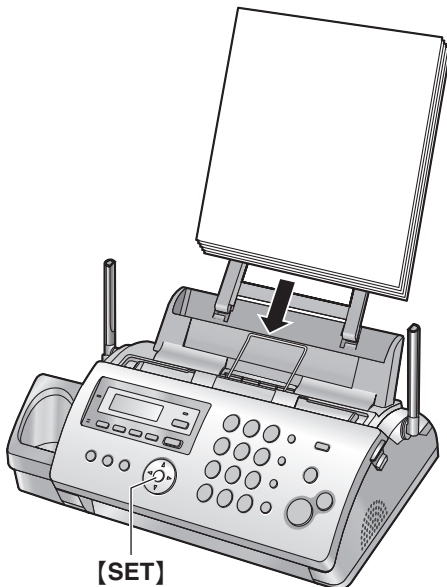
- 5 Install the paper tray (page 12), then insert the recording paper gently (page 13).

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

The display will show the following.

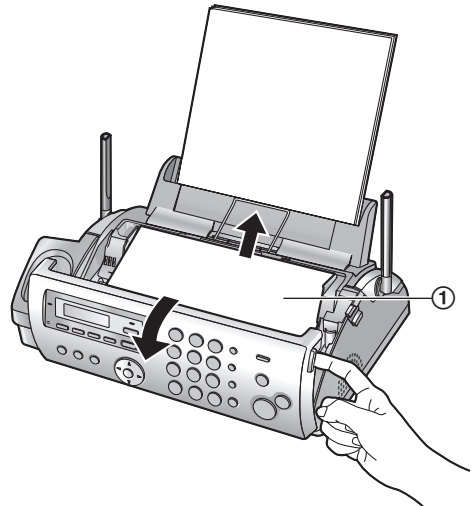
CHECK PAPER

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.

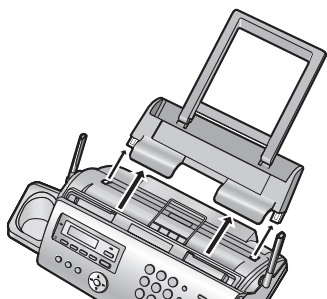
11.3 Document feeder/recording paper feeder/scanner glass cleaning

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

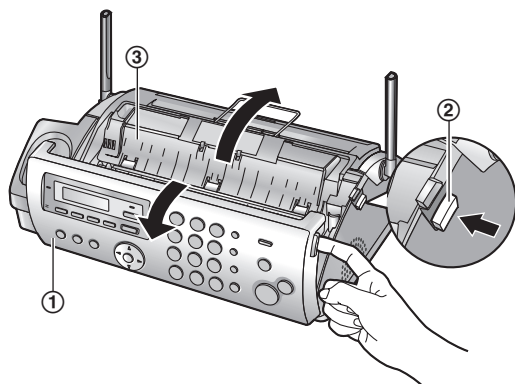
- Documents or recording paper frequently misfeed.
- Smudges or black/white lines appear on the original document when sending or copying.

Important:

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



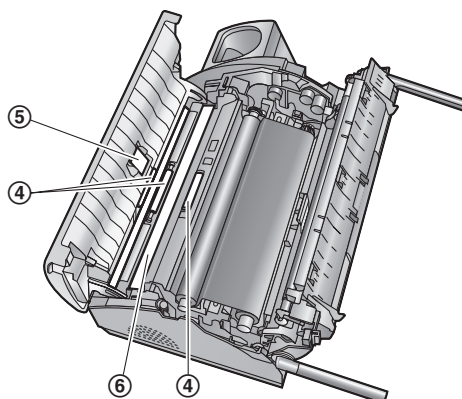
- 1 Disconnect the power cord and the telephone line cord.
- 2 Open the front cover (①), push the green button (②), then open the back cover (③).



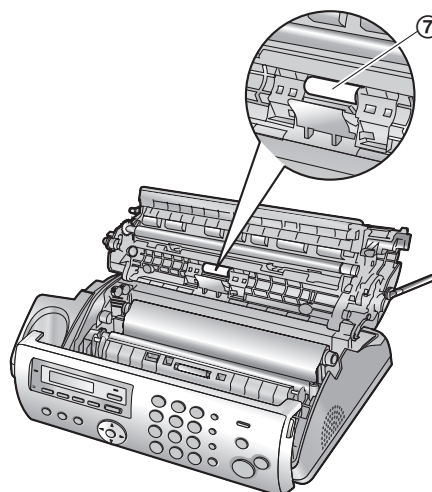
- 3 Clean the document feeder rollers (④) and rubber flap (⑤) with a cloth moistened with isopropyl rubbing alcohol, and let all parts dry thoroughly. Clean the scanner glass (⑥) with a soft, dry cloth.

Caution:

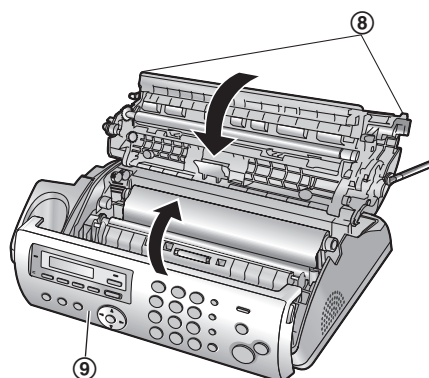
- Do not use paper products, such as paper towels or tissues.



- 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).



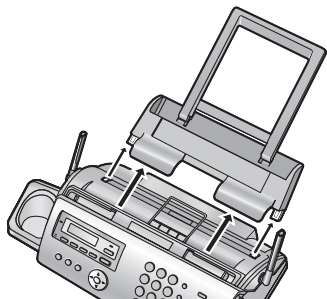
- 6 Install the paper tray (page 12), then insert the recording paper gently (page 13).
- 7 Connect the power cord and the telephone line cord.

11.4 Thermal head cleaning

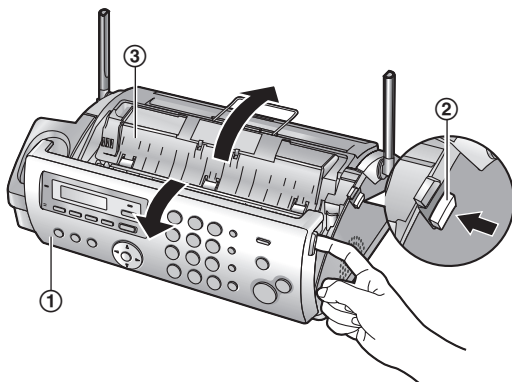
If smudges or black/white lines appear on a copied/received document, check whether there is dust on the thermal head. Clean the thermal head to remove the dust.

Important:

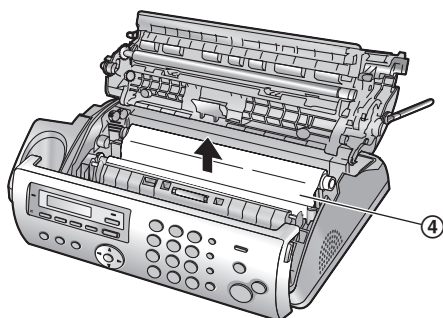
- Remove the recording paper, then remove the paper tray beforehand, otherwise the paper may misfeed or jam.



- 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).



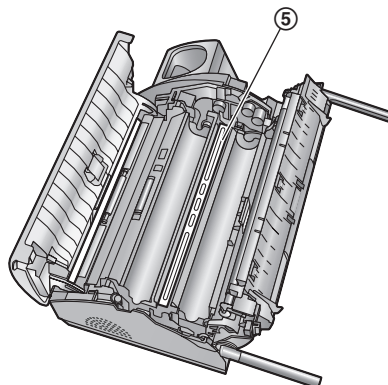
- 3 Remove the ink film (④).



- 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.

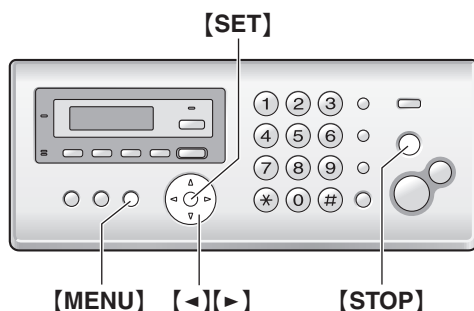


- 5 Re-install the ink film and close the covers (see step 4 to 7 on page 11).
- 6 Install the paper tray (page 12), then insert the recording paper gently (page 13).
- 7 Connect the power cord and the telephone line cord.

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 smudges, blurred points or lines, clean the thermal head (page 68).
- "BROADCAST LIST"
- "CALLER'S 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 (8¹/₂") in width, Max. 600 mm (23⁵/₈") in length

■ Effective scanning width:

208 mm (8³/₁₆")

■ Effective printing width:

Letter: 208 mm (8³/₁₆")

■ Transmission speed^{*1}:

Approx. 15 s/page^{*2}

■ 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:

5.76 GHz – 5.84 GHz

■ RF (Radio Frequency) power output level:

200 mW (max.)

■ Dimensions:

Approx. height 106 mm × width 374 mm × depth 200 mm
(4³/₁₆" × 14³/₄" × 7⁷/₈")

■ Mass (Weight):

Approx. 2.5 kg (5.5 lb.)

■ Power consumption:

Standby: Approx. 5 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)

■ Power supply:

120 V AC, 60 Hz

12. General Information

■ Fax memory capacity*3:

Transmission: Approx. 25 pages

Reception: Approx. 28 pages

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

■ Voice memory capacity*4:

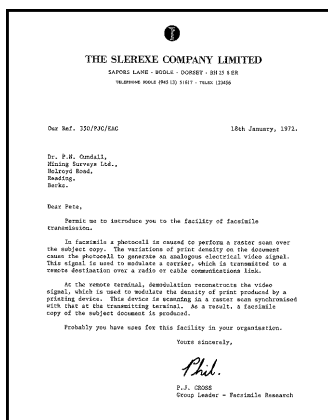
Approx. 15 minutes of recording time including greeting messages

- *1 Transmission speed depends on the contents of the pages, resolution, telephone line conditions and capability of the other party's machine.
- *2 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.
- *3 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.
- *4 Recording time may be reduced by the calling party's background noise.

Note:

- The accuracy of the clock is approximately ± 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")

Recording paper weight:

60 g/m² to 90 g/m² (16 lb. to 24 lb.)

Note for recording paper:

- Do not use the following types of paper:
 - Paper with cotton and/or fibre 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, discolour, 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.
- This unit is designed for using "Letter" size paper. Please do not use "A4" size paper in this unit.

12.2.2 Cordless handset

■ Operating environment:

5 °C – 40 °C (41 °F – 104 °F)

■ Frequency:

5.76 GHz – 5.84 GHz

■ RF (Radio Frequency) power output level:

200 mW (max.)

■ Dimensions:

Approx. height 173 mm $\times$ width 48 mm $\times$ depth 33 mm ($6\frac{13}{16}$ " $\times$ $1\frac{7}{8}$ " $\times$ $1\frac{5}{16}$ ")

■ Mass (Weight):

Approx. 170 g (0.37 lb.)

■ Power supply:

Ni-MH battery (3.6 V, 830 mAh)

■ Security codes:

520,000

12.2.3 Charger unit

■ Operating environment:

5 °C – 40 °C (41 °F – 104 °F)

■ Dimensions:

Approx. height 51 mm $\times$ width 88 mm $\times$ depth 100 mm (2 " $\times$ $3\frac{15}{32}$ " $\times$ $3\frac{15}{16}$ ")

■ Mass (Weight):

Approx. 94 g (0.21 lb.)

■ Power consumption:

Standby: Approx. 0.8 W

Maximum: Approx. 3.6 W

■ **Power supply:**
AC adaptor (120 V AC, 60 Hz)

12.3 Limited Warranty

Panasonic Canada Inc.

5770 Ambler Drive, Mississauga, Ontario L4W 2T3

PANASONIC PRODUCT – LIMITED WARRANTY

Panasonic Canada Inc. warrants this product to be free from defects in material and workmanship and agrees to remedy any such defect for a period as stated below from the date of original purchase.

Facsimile Product – One (1) year, parts and labour

LIMITATIONS AND EXCLUSIONS

This warranty does not apply to products purchased outside Canada or to any product which has been improperly installed, subjected to usage for which the product was not designed, misused or abused, damaged during shipping, or which has been altered or repaired in any way that affects the reliability or detracts from the performance, nor does it cover any product which is used commercially. Dry cell batteries, toner cartridge / drum unit and ink / print cartridges are also excluded from coverage under this warranty. Rechargeable batteries are warranted for ninety (90) days from date of original purchase.

This warranty is extended to the original end user purchaser only. A purchase receipt or other proof of date of original purchase is required before warranty service is performed.

THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES.

In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable.

WARRANTY SERVICE

FOR PRODUCT OPERATION ASSISTANCE, please contact:

Our Customer Care Centre:	Telephone #:	(905) 624-5505
	1-800 #:	1-800-561-5505
	Fax #:	(905) 238-2360
	Email link:	"Contact Us" on www.panasonic.ca

FOR PRODUCT REPAIRS, please locate your nearest Authorized Servicentre at www.panasonic.ca :

Link : "Servicentres™ locator" under "Customer support"

IF YOU SHIP THE PRODUCT TO A SERVICENTRE

Carefully pack and send prepaid, adequately insured and preferably in the original carton.

Include details of the defect claimed, and proof of date of original purchase.

12.4 Important information

SAFETY PRECAUTIONS

This unit may only be connected to electrical outlets that supply 120 V AC.

NOTICE:

This equipment meets the applicable Industry Canada Terminal Equipment Technical Specifications. This is confirmed by the registration number. The abbreviation, "IC:", before the registration number signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specifications were met. It does not imply that Industry Canada approved the equipment.

And, the term "IC:" signifies that Industry Canada radio technical specifications were met.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure, for their own protection, that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

CAUTION:

Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

NOTICE:

The **Ringer Equivalence Number** (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5.

The Ringer Equivalence Number of This Unit:
(found on the rear of the unit)

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.

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