

# Panasonic

Cordless Phone

Model No. **KX-TC282-B**

Pulse-or-tone dialing capability

## Operating Instructions

Preparation

Basic Operation

Advanced Operation

Useful Information



**SOUND CHARGER**  
*PLUS*

**25**  
CHANNEL

**2 LINE**

**PLEASE READ BEFORE USE AND SAVE.**

**Charge the battery for about 10 hours before initial use.**

# Before Initial Use

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Please read **IMPORTANT SAFETY INSTRUCTIONS** on pages 32–33 before use. Read and understand all instructions.

**Thank you for purchasing your new Panasonic cordless telephone.**

Attach your purchase receipt here.

## For your future reference

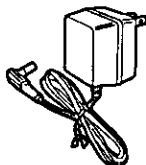
Serial No. \_\_\_\_\_  
(found on the bottom of the unit)

Date of purchase \_\_\_\_\_

Name and address of dealer \_\_\_\_\_

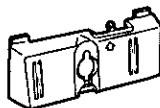
**Accessories** To order accessories, call 1-800-211-PANA(7262).

- AC Adaptor (p. 8)  
Order No. KX-A09-2



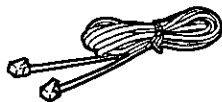
one

- Wall Mounting Adaptor (p. 29)  
Order No. PQKL24Z0



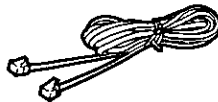
one

- 4-Wire Telephone Line Cord with Green Plugs (p. 9, 10)



one

- 2-Wire Telephone Line Cord with Transparent Plugs (p. 10)



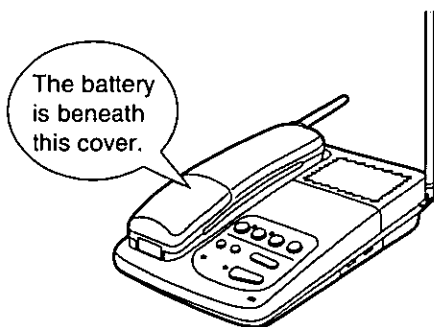
one

# For Best Performance

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## Battery Charge

A rechargeable Ni-Cd battery powers the handset. Charge the battery for about **10 hours** before initial use (p. 11).

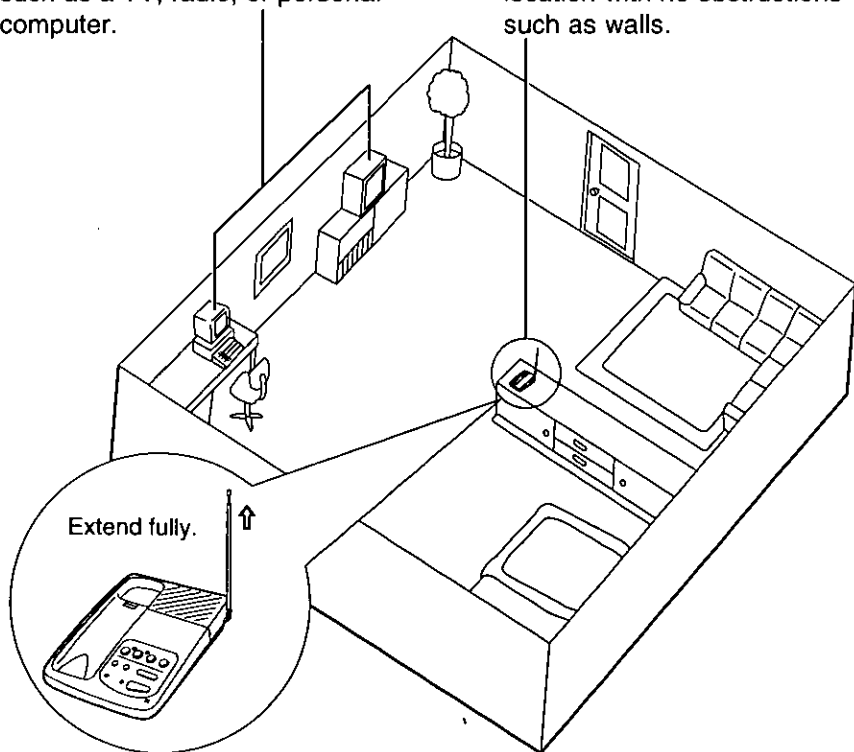


## Operating Distance/Noise

Calls are transmitted between the base unit and the handset using wireless radio waves. **For maximum distance and noise free operation**, the recommended base unit location is:

Away from electrical appliances such as a TV, radio, or personal computer.

In a **HIGH** and **CENTRAL** location with no obstructions such as walls.



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*Preparation*

***Useful Information***

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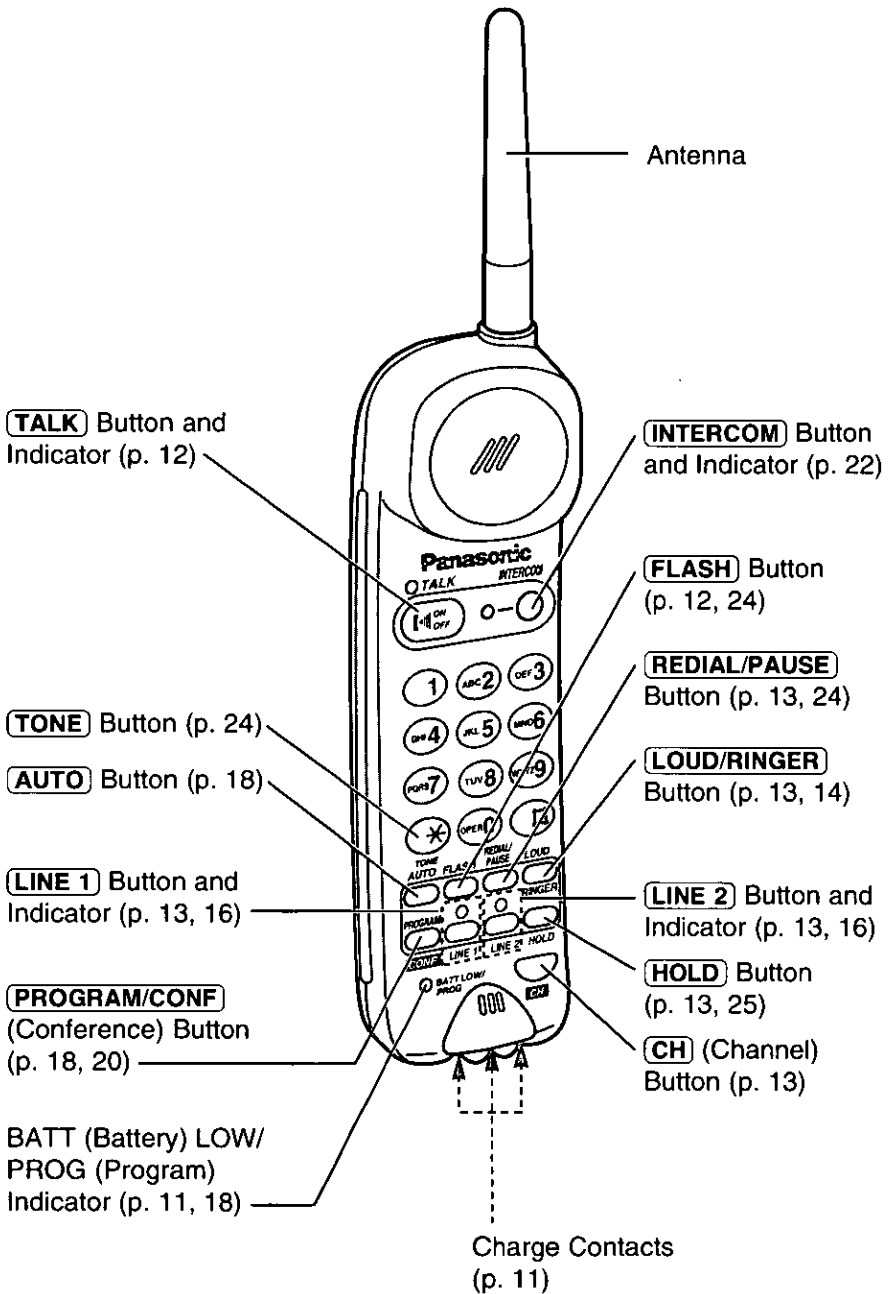
*Basic Operation*

*Advanced Operation*

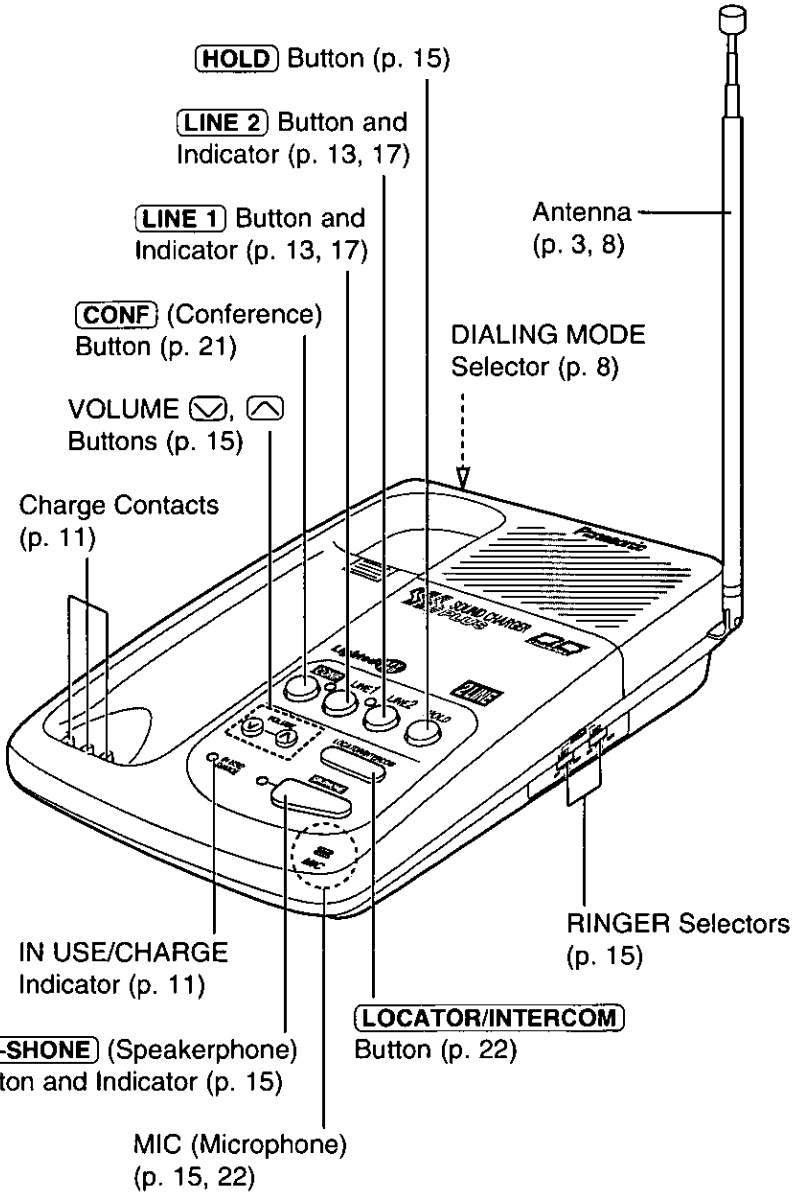
*Useful Information*

# Location of Controls

## Handset

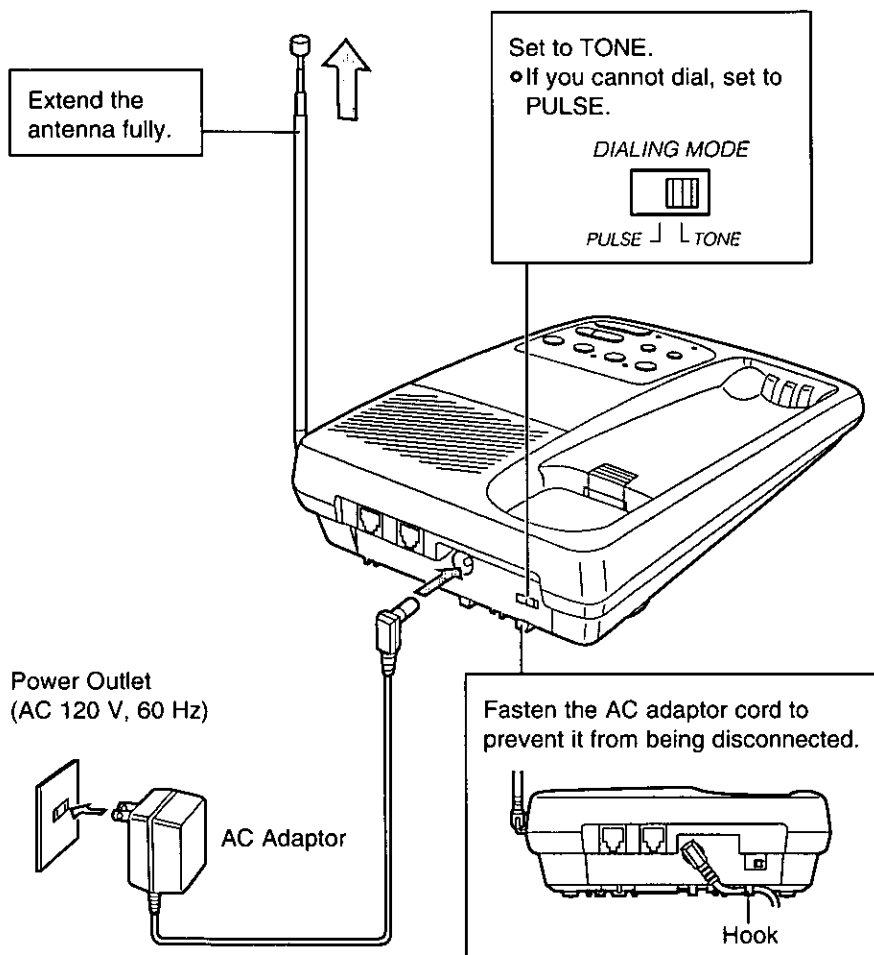


# Base unit



# Settings

## Connecting the AC Adaptor



- USE ONLY WITH Panasonic AC ADAPTOR KX-A09 or KX-A09-2.
- The AC adaptor must remain connected at all times.  
(It is normal for the adaptor to feel warm during use.)
- To connect a standard telephone on the same line, see page 27.

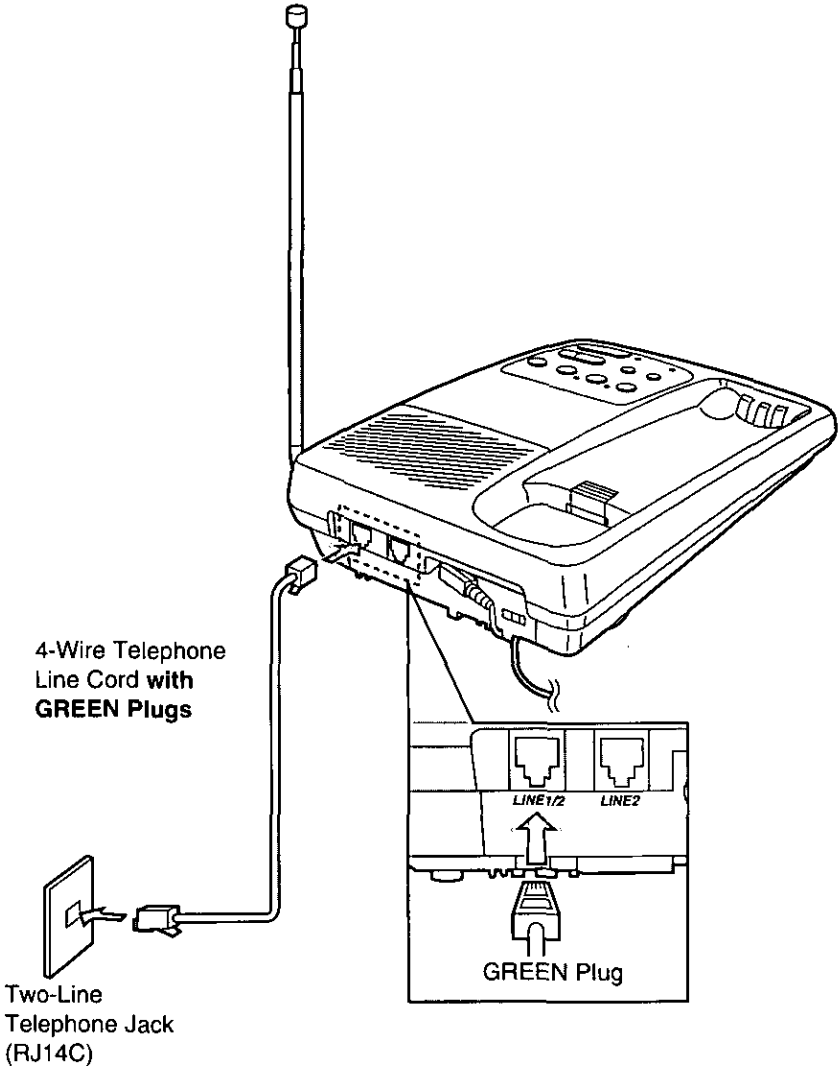




## Connecting the Telephone Line Cord

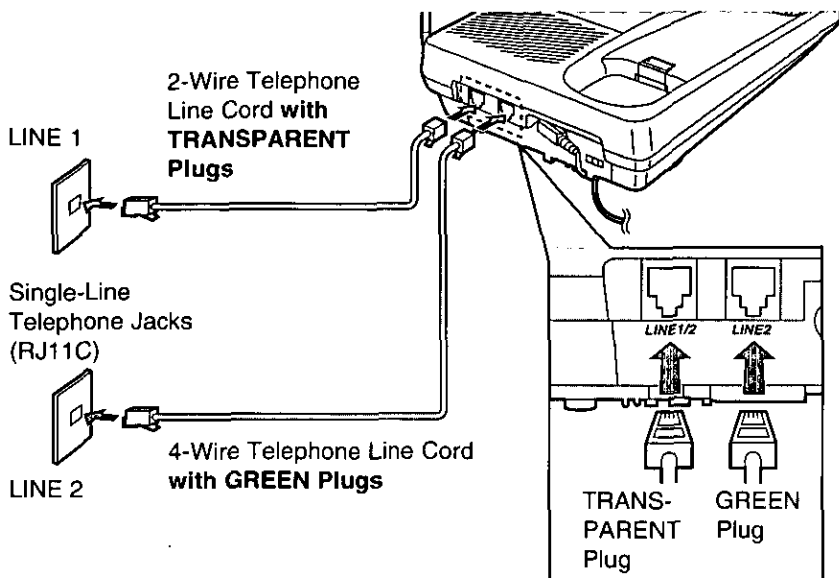
Connect the telephone line cord(s) to the unit as follows.

### To connect a two-line telephone jack

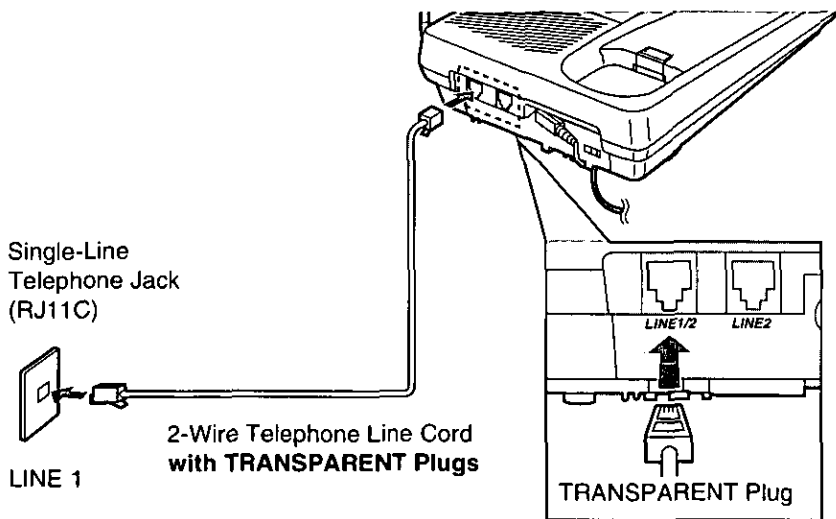


## ▶ Settings

### To connect two single-line telephone jacks



### If you use the unit as a single-line telephone only

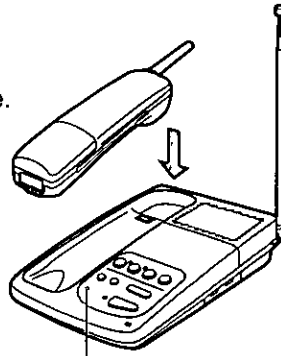


- For this connection, you can only use LINE 1. The LINE 2 indicator will not work properly. (It will continue to flash.) To correct the line indication, see page 26.

## Battery Charge

Place the handset on the base unit and charge for about **10 hours** before initial use.

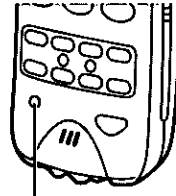
- The IN USE/CHARGE indicator lights.



IN USE/CHARGE Indicator

## Recharge

When the BATT LOW/PROG indicator flashes or the unit beeps intermittently, recharge the battery.



BATT LOW/PROG Indicator

## Battery information

If your Panasonic battery is fully charged;

Operation	Approx. battery life
While in use (TALK)	Up to about 8 hours
While not in use (Stand-By)	Up to about 21 days

- Battery life may vary depending on usage conditions and ambient temperature.
- Clean the handset and the base unit charge contacts with a soft dry cloth once a month. Clean more often if the unit is subject to grease, dust or high humidity.** If not, the battery may not charge properly.
- If the battery is fully charged, you do not have to place the handset on the base unit until the BATT LOW/PROG indicator flashes. This will maximize the battery life.
- The battery cannot be overcharged.

# Making Calls

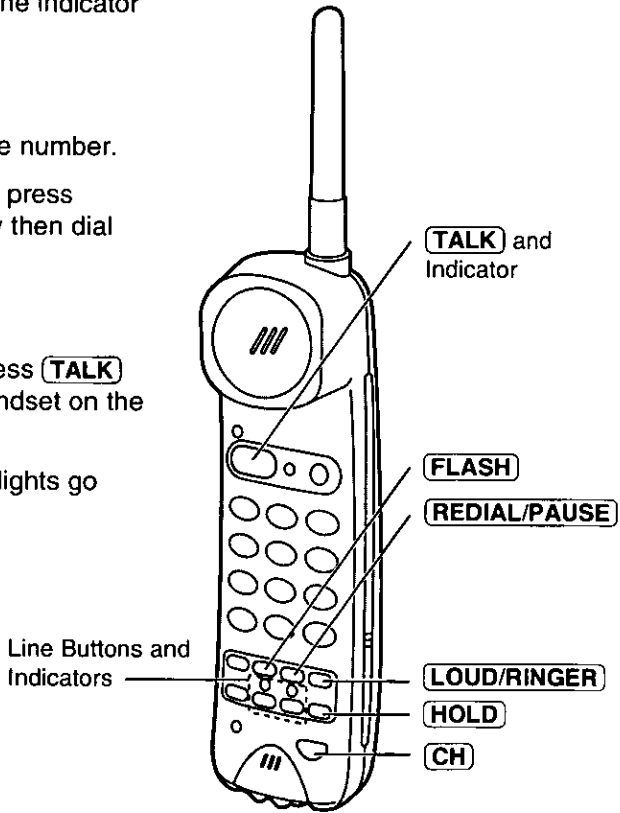
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The unit will automatically select an idle line which is not being used by a parallel connected telephone when you press **TALK** to make a call. (To change the line selection, see page 25.)

**1** Press **TALK**.  
◦The TALK indicator and the selected line indicator light.

**2** Dial a telephone number.  
◦If you misdial, press **FLASH** firmly then dial again.

**3** To hang up, press **TALK** or place the handset on the base unit.  
◦The indicator lights go out.



- If an alarm tone sounds in step 1, move closer to the base unit or place the handset on the base unit. Then try again.
- In step 1, you may select a line manually by pressing the line button instead of **TALK**.

## To redial the last number dialed

Press **TALK** (or a line button) ⇒ **REDIAL/PAUSE**.

## To select the receiver volume HIGH or NORMAL (preset)

Press **LOUD/RINGER** while talking.

- Each time you press the button, the volume level will change.

## If noise interferes with the conversation

Press **CH** to select a clearer channel or move closer to the base unit.

## To put a call on hold

Press **HOLD**. The TALK indicator light goes out and the line indicator flashes.

- After 6 minutes, a warning tone will sound.  
After a total of 10 minutes, the call will be disconnected.
- To release the hold, press the line button.

You may make or answer a second call on the other line while keeping the present call on hold. See page 16.

## What the line indicator means

Off	The line is free.
On	The line is being used by the handset or the base unit.
Flashing twice every 2 seconds	The line is being used by the parallel connected telephone.
Flashing	A call is on hold.
Flashing quickly	A call is being received (p. 14).

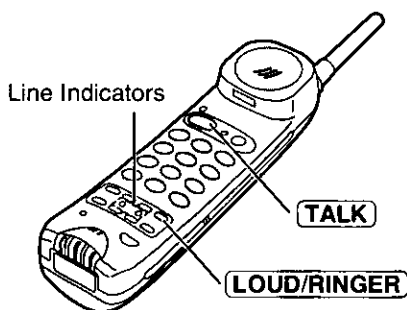
# Answering Calls

When a call is being received, the called line indicator flashes quickly. The line is automatically selected when you answer the call.  
(To change the line selection, see page 25.)

## With the Handset

If the handset is off the base unit, press **TALK**.

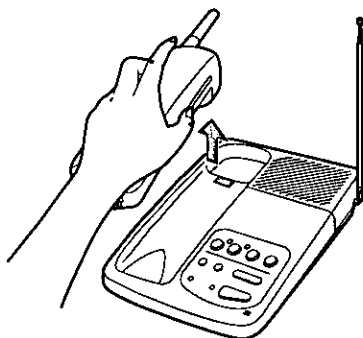
- The called line indicator lights.
- You can also answer a call by pressing any dialing button **0** to **9**, **\***, or **#** (—Any Key Talk).



## OR

If on the base unit, just lift up.

- The called line indicator lights.



## Adjusting the handset ringer volume

The TALK and/or INTERCOM indicator light must be off.

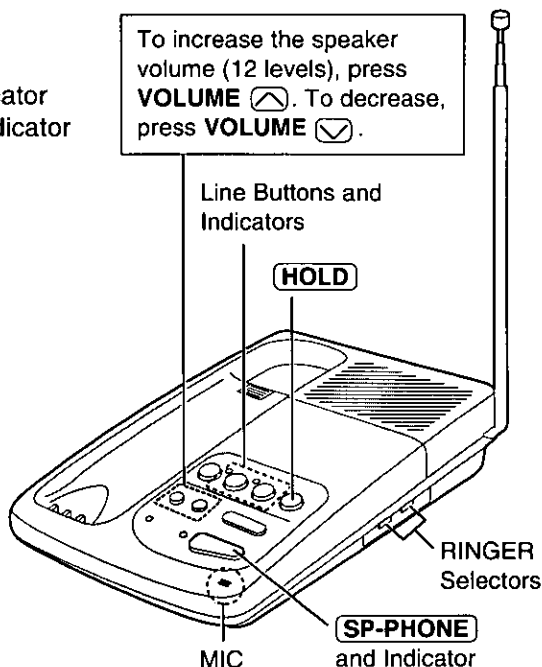
- To select **HIGH (preset) or LOW**, press **LOUD/RINGER**.  
(Each time you press the button, the selected volume rings and the ringer volume will change.)
- To turn the ringer **OFF**, while pressing **LOUD/RINGER**, press **0** until 2 beeps sound.
- To turn the ringer **ON**, press **LOUD/RINGER**. The ringer sounds at the HIGH level.

## Lighted handset keypad

The handset dialing buttons will light while dialing and flash when a call is received. The lights will go out about 10 seconds after dialing or answering a call.

## With the Base Unit (Speakerphone)

- 1 Press **SP-PHONE**.
  - The SP-PHONE indicator and the called line indicator light.
- 2 Talk into the **MIC** (microphone).
- 3 To hang up, press **SP-PHONE**.
  - The indicator lights go out.



### To put a call on hold

Press **HOLD**. The SP-PHONE indicator light goes out and the line indicator flashes.

- After 6 minutes, a warning tone will sound. After a total of 10 minutes, the call will be disconnected.
- To release the hold, press the line button.

You may answer a second call on the other line while keeping the present call on hold. See page 17.

### To select the base unit ringer volume

Set the RINGER selector for each line to HIGH, LOW, or OFF.

- When set to OFF, the selected line(s) will not ring.

#### During the speakerphone operation:

- For best performance, talk alternately with the caller in a quiet room. If the caller complains that your voice is hard to hear, press **VOLUME** (▼) to decrease the speaker volume.
- If the handset is on the base unit, you may switch to it by lifting it up.
- The line indicator shows the line condition (p. 13).

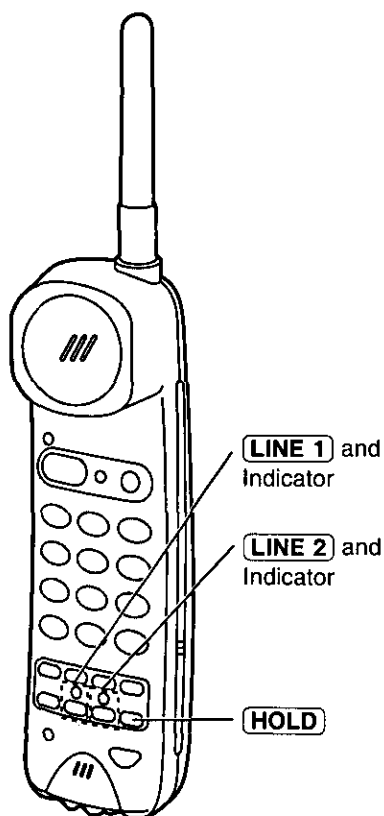
# Using the Other Line During a Conversation

During a conversation, if **two tones** sound and the other line indicator flashes quickly, an incoming call is being received on the line. You can answer the second call while holding the first call. You can also make a call without terminating the first call using the handset.

You may delete the **two tones** (incoming call tone) by programming. See page 26.

## With the handset

- 1 Ex: If you are using LINE 1**  
Press **HOLD** to put the first call (LINE 1) on hold.
  - The LINE 1 indicator flashes.
- 2** Press the other line button (LINE 2) to make or answer the second call.
  - The LINE 2 indicator lights.
- 3** To return to the first call (LINE 1), press the line button of the first call (LINE 1).
  - The second call is terminated.



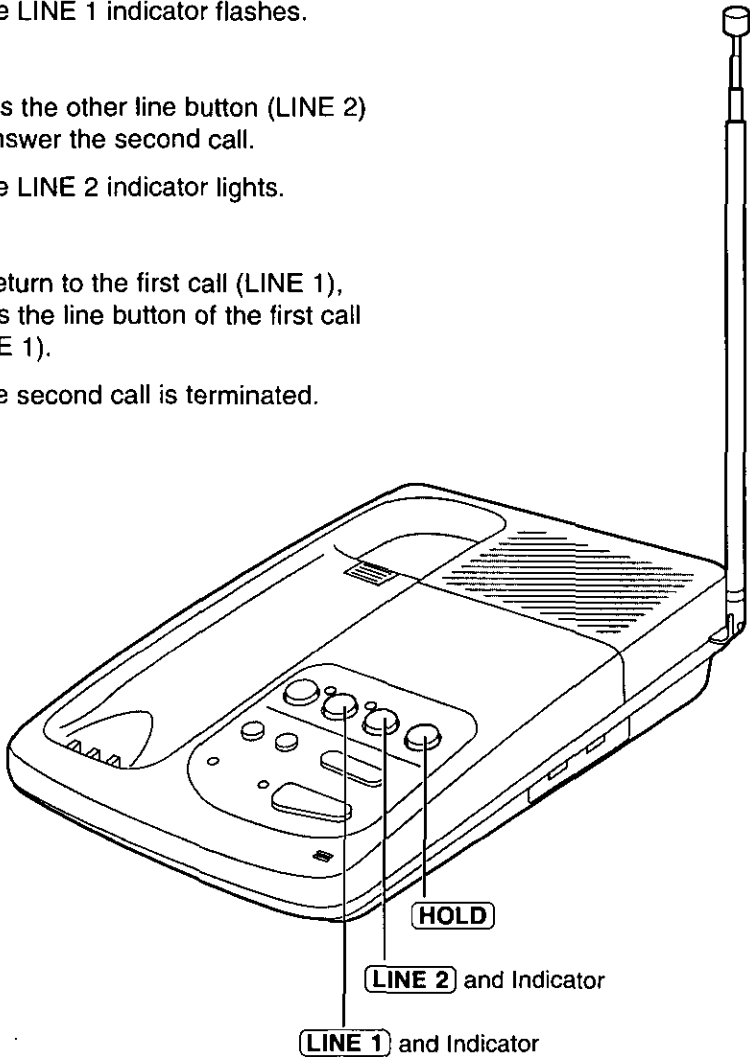
◦To hold the second call in step 3, press **HOLD** before pressing the line button of the first call.



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## With the base unit

- 1 Ex: If you are using LINE 1**  
Press **HOLD** to put the first call (LINE 1) on hold.
  - The LINE 1 indicator flashes.
- 2** Press the other line button (LINE 2) to answer the second call.
  - The LINE 2 indicator lights.
- 3** To return to the first call (LINE 1), press the line button of the first call (LINE 1).
  - The second call is terminated.



- To hold the second call in step 3, press **HOLD** before pressing the line button of the first call.

# Speed Dialer

## Storing Phone Numbers in Memory

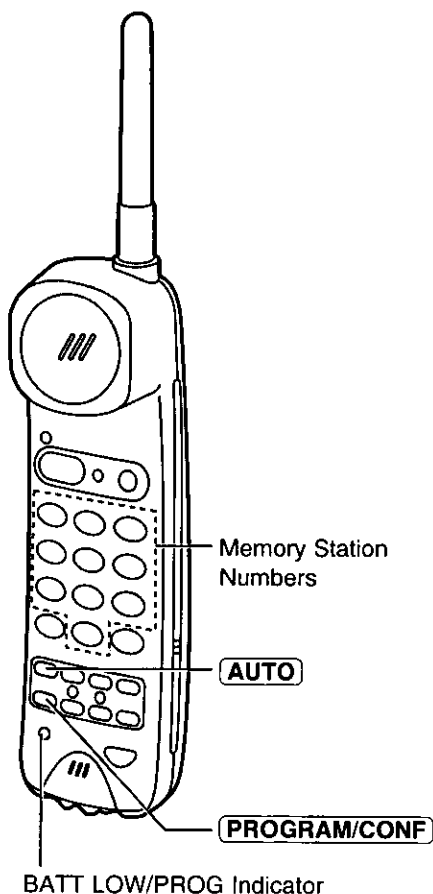
You can store up to 10 numbers in the handset. The dialing buttons (0 to 9) function as memory stations. **The TALK indicator light must be off.**

- 1 Press **PROGRAM/CONF**.
  - The BATT LOW/PROG indicator lights.

- 2 Enter a phone number up to 16 digits.
  - If you misdial, press **PROGRAM/CONF** to end storing, then start from step 1.

- 3 Press **AUTO**.

- 4 Press a memory station number (0 to 9).
  - A confirmation tone sounds.\*
  - To store other numbers, repeat steps 1 through 4.



### \*What the confirmation tone means

- 1 beep: The new number is stored.
- 2 beeps: The number is the same as the previously stored one.

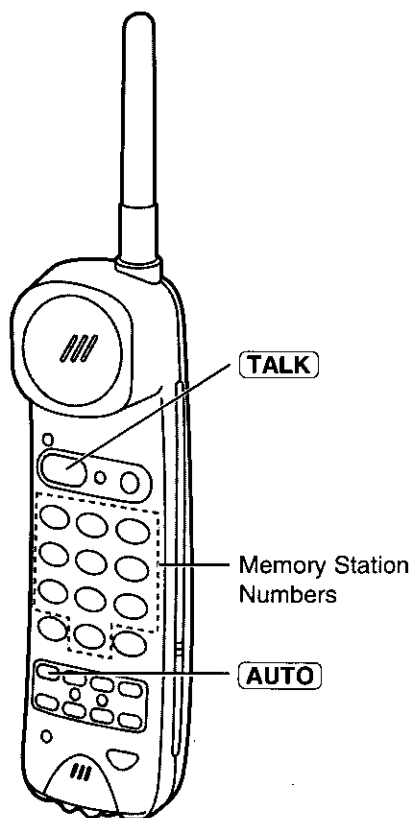
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## To erase a stored number

Press **PROGRAM/CONF** ⇒ **AUTO** ⇒ the memory station number (0 to 9) for the phone number to be erased.

## Dialing a Stored Number

- 1 Press **TALK**.
- 2 Press **AUTO**.
- 3 Press the memory station number (0 to 9).
  - The stored number is dialed.

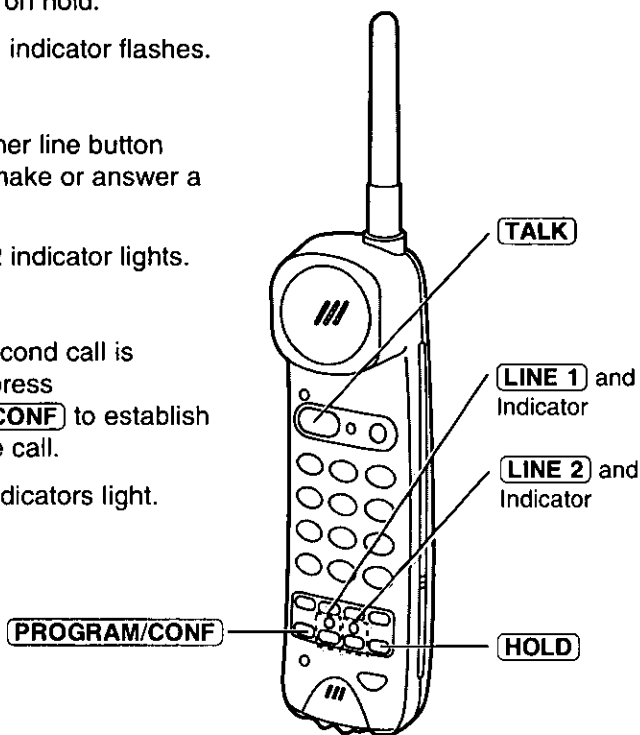


# Conference Call

While having a conversation on one line, you can make or answer a second call on the other line and then combine both calls together to establish a conference call.

## With the handset

- 1 Ex: If you are using LINE 1**  
Press **HOLD** to put the first call (LINE 1) on hold.
  - The LINE 1 indicator flashes.
- 2** Press the other line button (LINE 2) to make or answer a second call.
  - The LINE 2 indicator lights.
- 3** When the second call is connected, press **PROGRAM/CONF** to establish a conference call.
  - Both line indicators light.



### During a conference call:

- To hang up both lines, press **TALK**.
- To hang up only one line, press the line button you want to continue talking with.
- To put both lines on hold, press **HOLD**.  
To talk with only one caller, press the corresponding line button.  
To resume both lines, press **PROGRAM/CONF**.
- The base unit user can join a conference call on the handset by pressing **SP-PHONE**.

## With the base unit

**1** **Ex: If you are using LINE 1**  
Press **HOLD** to put the first call (LINE 1) on hold.

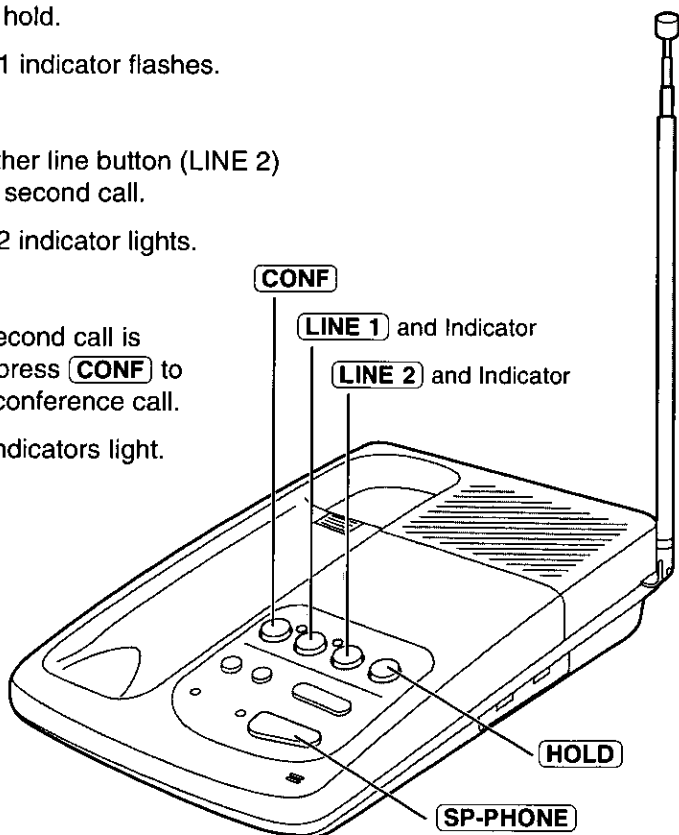
- The LINE 1 indicator flashes.

**2** Press the other line button (LINE 2) to answer a second call.

- The LINE 2 indicator lights.

**3** When the second call is connected, press **CONF** to establish a conference call.

- Both line indicators light.



*Advanced Operation*

### During a conference call:

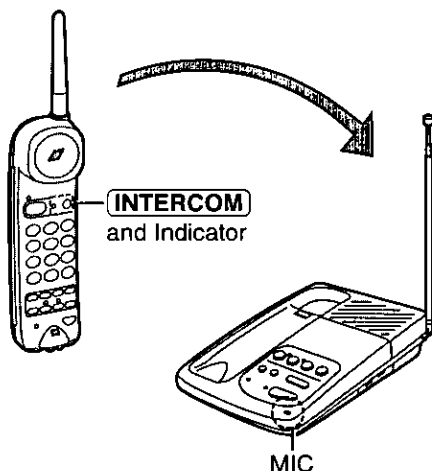
- To hang up both lines, press **SP-PHONE**.
- To hang up only one line, press the line button you want to continue talking with.
- To put both lines on hold, press **HOLD**.  
To talk with only one caller, press the corresponding line button.  
To resume both lines, press **CONF**.
- The handset user can join a conference call on the base unit by pressing **TALK**.

# Intercom

A 2-way intercom is available between the handset and the base unit.

## Paging the base unit from the handset

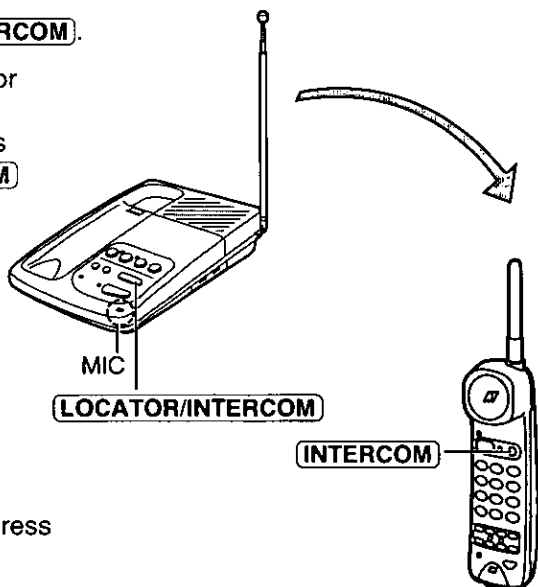
- 1 Handset:**  
Press **INTERCOM**.  
Talk to the paged party after the beep.
  - The indicator lights.
- 2 Base unit:**  
When the other party's voice is heard, answer using the **MIC**.
- 3 Handset:**  
To end the intercom, press **INTERCOM**.




## Paging the handset from the base unit (Handset locator)

Using this feature, you can locate the handset, if misplaced.

- 1 Base unit:**  
Press **LOCATOR/INTERCOM**.
  - The handset beeps for 1 minute.
  - To stop paging, press **LOCATOR/INTERCOM** again.
- 2 Handset:**  
Press **INTERCOM** to answer.
- 3 Base unit:**  
Talk into the **MIC**.
- 4 Handset:**  
To end the intercom, press **INTERCOM**.



### During the intercom:

- Intercom calls can only be ended by the handset.
- If the handset user has difficulty hearing the base unit user, decrease the base unit speaker volume by pressing **VOLUME** .
- If two tones sound, an incoming call has been received. To answer, press the line button whose indicator is flashing quickly. The intercom is ended.

## Transferring a Call Using the Intercom

The intercom can be used during a call. This feature enables you to transfer a call between the handset and the base unit.

### From the handset to the base unit

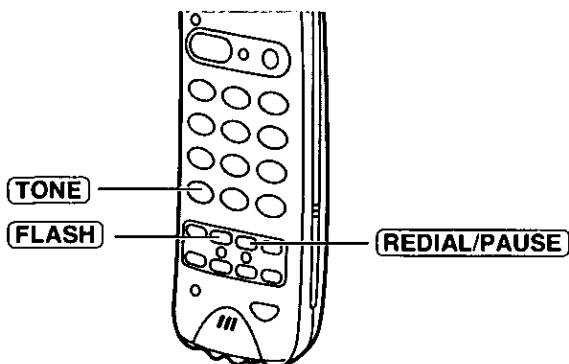
- 1 Handset:  
During a call, press **INTERCOM**. Talk to the paged party after the beep.
  - The call is put on hold.
  - If the base unit user does not answer, press the line button whose indicator is flashing.
- 2 Base unit:  
When the paging party's voice is heard, answer using the **MIC**.
- 3 Base unit:  
To answer the call, press the line button whose indicator is flashing.
  - The transfer is completed.
  - The handset user can join the conversation by pressing the line button whose indicator light is on.

### From the base unit to the handset

- 1 Base unit:  
During a call, press **LOCATOR/INTERCOM**.
  - The call is put on hold.
  - If the handset user does not answer, press the line button whose indicator is flashing.
- 2 Handset:  
Press **INTERCOM** to answer the page.
- 3 Handset:  
To answer the call, press the line button whose indicator is flashing.
  - The transfer is completed.
  - The base unit user can join the conversation by pressing the line button whose indicator light is on.

# Special Features

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## Automatic Security Code Setting

Whenever you place the handset on the base unit, the unit automatically selects one of 65,000 security codes. These codes help prevent the unauthorized use of your telephone line by another cordless telephone.

## For Call Waiting Service Users

Press **FLASH** briefly if you hear a call-waiting tone while talking.

- The first call is put on hold and you can answer the second call.
- To return to the first caller, press **FLASH** again.

## Temporary Tone Dialing

### (For Rotary or Pulse Service Users)

Press **TONE** before entering access numbers which require tone dialing.

- The dialing mode changes to tone. You can enter numbers to access an answering service, electronic banking service, etc. When you hang up, the mode will return to pulse.

## If Your Unit is Connected to a PBX

### (Analog PBX Line Only)

We recommend you press **REDIAL/PAUSE** between the access number for an outside line and the phone number.

- Pressing **REDIAL/PAUSE** once creates a 3.5 second pause. This prevents misdialing when you redial or dial a stored number. (**REDIAL/PAUSE** counts as one digit.)

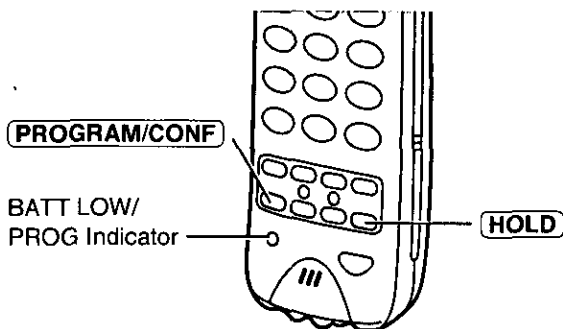


# Programmable Functions



You can program the following functions by using the handset near the base unit. The TALK and SP-PHONE indicator lights must be off.

- If an alarm tone sounds when you press **(HOLD)**, move towards the base unit, then try again.



## Line Selection

The unit will automatically select an idle line which is not being used by a parallel connected telephone when you make a call. Also the unit will select the called line when you answer a call. To change the line selection, program as follows.

1. Press **(PROGRAM/CONF)**.
    - The BATT LOW/PROG indicator lights.
  2. Press **(HOLD)**.
  3. Press **(1)**.
  4. Press **(1)**, **(2)**, or **(3)** to select the desired line selection.
    - 1: Line 1 will be selected first.
    - 2: Line 2 will be selected first.
    - 3: An idle line will be selected (Line 1 has priority) when making a call. The called line is automatically selected when answering a call.
  5. When finished, press **(PROGRAM/CONF)**.
    - The BATT LOW/PROG indicator light goes out.
- Any line can be selected manually in any mode (1 to 3) by pressing the line button.

## ► Programmable Functions

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### Line Indicator

If a line is not connected, the line's indicator will continue to flash. To turn off the indicator, program as follows. Both of the line indicators are preset to ON.

1. Press **PROGRAM/CONF**.
  - The BATT LOW/PROG indicator lights.
2. Press **HOLD**.
3. Press **2**.
4. Press **1** (Line 1) or **2** (Line 2) to select the line indicator.
5. Press **2** (OFF) to deactivate the indicator.
  - To activate the line indicator again, press **1** (ON).
6. When finished, press **PROGRAM/CONF**.
  - The BATT LOW/PROG indicator light goes out.

### Incoming Call Tone

When a line is being used and another call arrives on the other line, a series of two tones will be heard. This incoming call tone can be deleted/set by programming.

1. Press **PROGRAM/CONF**.
  - The BATT LOW/PROG indicator lights.
2. Press **HOLD**.
3. Press **3**.
4. Press **1**, **2**, or **3**.
  - 1: The incoming call tone will be heard as long as the other line rings.
  - 2: The incoming call tone will only be heard 2 times.
  - 3: The incoming call tone will not be heard.
5. When finished, press **PROGRAM/CONF**.
  - The BATT LOW/PROG indicator light goes out.
  - When the RINGER selector(s) is set to OFF, the incoming call tone will not be heard on the base unit.
  - The two tones you hear when a call is received during an intercom cannot be deleted by programming.

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## Line Mode Selection

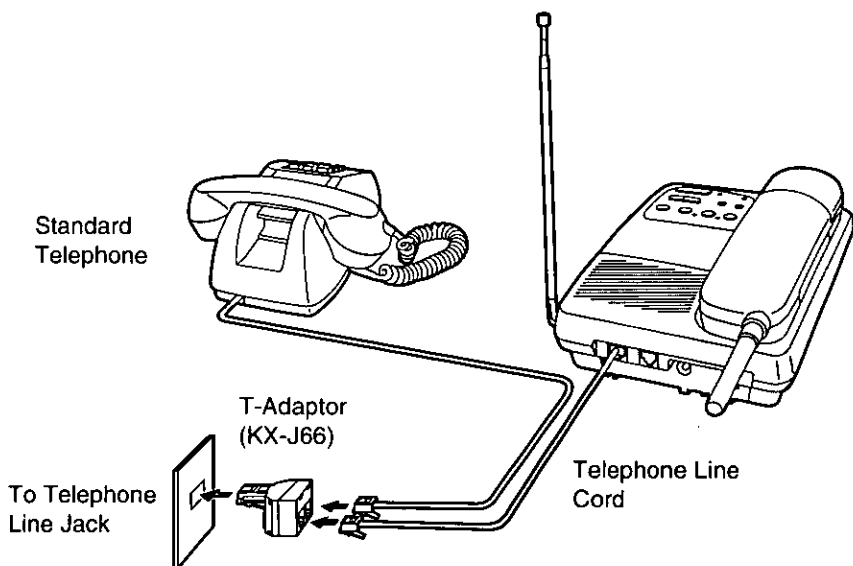
If the line is connected to a low voltage system such as a PBX, set to B. Otherwise, the line indicator will not operate properly. The unit will not ring and you will not hear the incoming call tone (p. 26). Your phone comes from the factory set to A.

1. Press **PROGRAM/CONF**.
  - The BATT LOW/PROG indicator lights.
2. Press **HOLD**.
3. Press **4**.
4. Press **1** (Line 1) or **2** (Line 2) to select the line indicator.
5. Press **2** to set to B.
  - To set to A, press **1**.
6. When finished, press **PROGRAM/CONF**.
  - The BATT LOW/PROG indicator light goes out.

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## Adding Another Phone

This unit will not function during a power failure. To connect a standard telephone on the same line, use the Panasonic T-adaptor KX-J66. To order, call 1-800-211-PANA(7262).

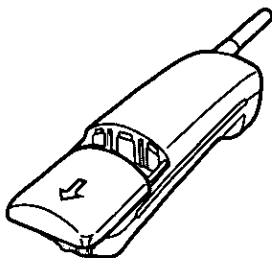


# Battery Replacement

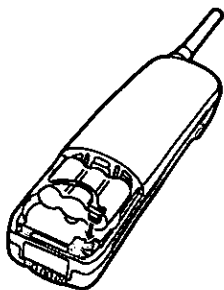
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If the BATT LOW/PROG indicator flashes after being fully charged, replace the battery with a new Panasonic P-P301 (KX-A36A) battery. To order, call 1-800-211-PANA(7262). To prevent memory loss, replace within 5 minutes.

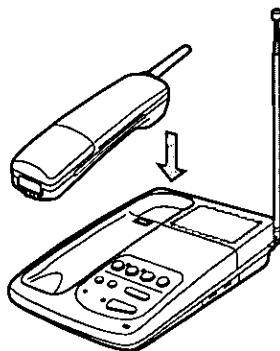
- 1 Remove the cover by sliding it while pressing the arrow.



- 2 Replace the battery, then close the cover.



- 3 Be sure to charge the new battery for about 10 hours.



## Attention:

The product you have purchased is powered by a nickel cadmium battery which is recyclable. At the end of its useful life, under various state and local laws, it is illegal to dispose of this battery into your municipal waste stream. Please call 1-800-8-BATTERY for information on how to recycle this battery.

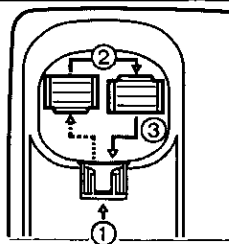


# Wall Mounting

This unit can be mounted on a wall phone plate.

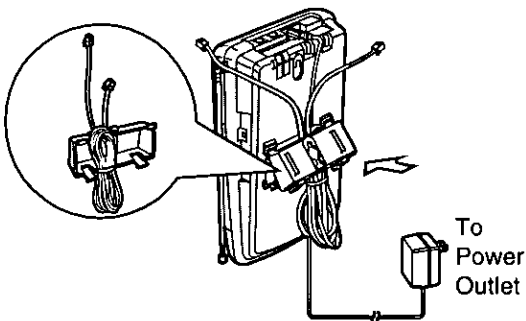
Be sure to reverse the handset hook in the cradle **so the tab holds the handset**.

- ① Push to remove.
- ② Rotate 180°.
- ③ Replace it with the tab facing upwards.



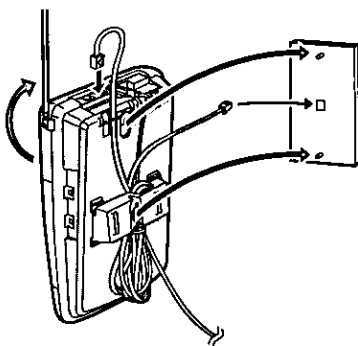
- 1 Connect the AC adaptor. Tuck the telephone line cord inside the wall mounting adaptor, then push it in the direction of the arrow.

◦ "UP" should face upward.



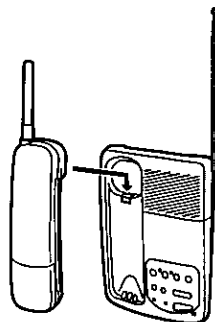
- 2 Connect the telephone line cord. Mount the unit, then slide down.

◦ Extend the antenna fully.



- 3 **To charge the battery:** Place the handset on the handset hook as shown.

◦ The IN USE/CHARGE indicator lights.



# Before Requesting Help

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Problem	Remedy
An alarm tone sounds when you press <b>TALK</b> , <b>LINE 1</b> , <b>LINE 2</b> , <b>INTERCOM</b> or <b>HOLD</b> on the handset.	<ul style="list-style-type: none"><li>• You are too far from the base unit. Move closer and try again.</li><li>• Place the handset on the base unit and try again.</li><li>• Plug in the AC adaptor.</li><li>• Extend the base unit antenna fully.</li></ul>
The unit does not work.	<ul style="list-style-type: none"><li>• Check the settings (p. 8–11).</li><li>• Charge the battery fully (p. 11).</li><li>• Clean the charge contacts and charge again (p. 11).</li><li>• Install the battery properly (p. 28).</li><li>• Place the handset on the base unit and unplug the AC adaptor to reset. Plug in, then try again.</li><li>• Re-insert the handset battery within 5 minutes to avoid memory loss and place the handset on the base unit. Then try again.</li></ul>
Static, sound cuts in/out, fades. Interference from other electrical units.	<ul style="list-style-type: none"><li>• Locate the handset and the base unit away from other electrical appliances (p. 3).</li><li>• Move closer to the base unit.</li><li>• Extend the base unit antenna fully.</li><li>• Press <b>CH</b> to select a clearer channel.</li></ul>
The handset does not ring.	<ul style="list-style-type: none"><li>• The ringer volume is OFF. Press <b>LOUD/RINGER</b> while the TALK indicator light is off (p. 14).</li></ul>
The base unit does not ring.	<ul style="list-style-type: none"><li>• The RINGER selectors are set to OFF. Set to HIGH or LOW (p. 15).</li></ul>
Both the handset and the base unit do not ring.	<ul style="list-style-type: none"><li>• When the line is connected to a low voltage system such as a PBX, the unit will not ring. Set the line mode to B (p. 27).</li></ul>
<b>REDIAL/PAUSE</b> does not function properly.	<ul style="list-style-type: none"><li>• It will redial the last number dialed if pressed at the outset of a call (p. 13). If another number has been dialed first, it will operate as a pause button (p. 24).</li></ul>

Problem	Remedy
You cannot store a phone number in memory.	<ul style="list-style-type: none"> <li>◦ You cannot store a number while the unit is in the talk, hold or intercom mode.</li> <li>◦ Do not pause for over 30 seconds while storing.</li> </ul>
While storing a phone number, the unit starts to ring.	<ul style="list-style-type: none"> <li>◦ To answer the call, press <b>TALK</b> or <b>SP-PHONE</b>. The program will be canceled. Store the number again.</li> </ul>
The line indicators do not work properly.	<ul style="list-style-type: none"> <li>◦ Check the settings (p. 8–11).</li> <li>◦ See page 26 for proper operation of the line indicators.</li> <li>◦ The line mode selection is incorrect. See page 27.</li> </ul>
You cannot make or answer a call with the handset (or base unit).	<ul style="list-style-type: none"> <li>◦ The base unit (or handset) user is using the other line. Wait until the line indicator light goes out.</li> </ul>
During an outside call, two tones sound and the other line indicator flashes quickly.	<ul style="list-style-type: none"> <li>◦ Someone is calling you on the other line. To answer, press <b>HOLD</b> to put the current call on hold. Then press the line button whose indicator is flashing quickly (p. 16, 17).</li> </ul>
<b>LOCATOR/INTERCOM</b> does not function.	<ul style="list-style-type: none"> <li>◦ The handset is too far from the base unit or is engaged in an outside call.</li> </ul>
The <b>BATT LOW/PROG</b> indicator flashes or the unit beeps intermittently.	<ul style="list-style-type: none"> <li>◦ Charge the battery fully (p. 11).</li> </ul>
You charged the battery fully, but the <b>BATT LOW/PROG</b> indicator flashes.	<ul style="list-style-type: none"> <li>◦ Clean the charge contacts and charge again (p. 11).</li> <li>◦ Install a new battery (p. 28).</li> </ul>
The <b>IN USE/CHARGE</b> indicator light never goes out while charging.	<ul style="list-style-type: none"> <li>◦ This is normal.</li> </ul>
If you cannot solve your problem.	<ul style="list-style-type: none"> <li>◦ Call our customer call center at 1-800-211-PANA(7262).</li> </ul>

# Important Safety Instructions

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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 AC outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit near water, for example, near a bathtub, washbowl, kitchen sink, or the like.
5. Place this 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. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
9. Do not overload wall outlets and extension cords. This can result in the risk of fire or electric shock.
10. 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.
11. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized servicer 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.
12. Unplug this unit from the wall outlet and refer servicing to an authorized servicer when the following conditions occur:
  - A. When the power supply cord or plug 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 servicer.
  - E. If the unit has been dropped or physically damaged.
  - F. If the unit exhibits a distinct change in performance.



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13. During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of an electric shock from lightning.
  14. Do not use this unit to report a gas leak, when in the vicinity of the leak.
  5. 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.

**WARNING:**

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

## SAVE THESE INSTRUCTIONS

**CAUTION:**

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

1. Use only the battery(ies) specified.
2. Do not dispose of the battery(ies) in a fire. They may explode. Check with local waste management codes for special disposal instructions.
3. 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.
4. Exercise care in handling batteries in order not to short the battery to conductive materials such as rings, bracelets, and keys. The battery and/or conductor may overheat and cause burns.

# FCC and Other Information

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If requested by the telephone company, inform them as follows:

FCC Registration No. ....  
(found on the bottom of the unit)  
Ringer Equivalence .....0.3B

The particular telephone lines to which the equipment is connected.

This unit must not be connected to a coin operated line.

If you are on a party line, check with your local telephone company.

## **Ringer Equivalence No. (REN):**

The REN is useful in determining the quantity of devices you may connect to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

In the event terminal equipment causes harm to the telephone network, the telephone company should notify the customer, if possible, that service may be stopped.

However, where prior notice is impractical, the company may temporarily cease service providing that they:

- (a) Promptly notify the customer.
- (b) Give the customer an opportunity to correct the problem with their equipment.

- (c) Inform the customer of the right to bring a complaint to the Federal Communication Commission pursuant to procedures set out in FCC Rules and Regulations Subpart E of Part 68.

The Telephone Company may make changes in its communications facilities, equipment, operations or procedures, where such action is reasonably required in the operation of its business and is not inconsistent with the rules and regulations in FCC Part 68.

If such changes can be reasonably expected to render any customer terminal equipment incompatible with telephone company communications facilities, or require modification or alteration of such terminal equipment, or otherwise materially affect its use or performance, the customer shall be given adequate notice in writing, to allow the customer an opportunity to maintain uninterrupted service.

When programming emergency numbers and/or making test calls to emergency numbers:

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

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

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

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Privacy of communications may not be ensured when using this phone.

**CAUTION:**

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

**Note:**

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

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

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

- **Environment**—do not place the unit in rooms where the temperature is less than 5°C (41°F) or greater than 40°C (104°F). Allow 10 cm (4") clearance around the unit for proper ventilation. Avoid excessive smoke, dust, mechanical vibration, shock, or direct sunlight.
- **Routine care**—wipe the unit with a soft cloth. Do not use benzine, thinner, or any abrasive powder. When you leave the unit unused for a long period of time, unplug the AC adaptor from the outlet.
- **If there is any trouble**—disconnect the unit from the telephone line and connect a known working phone. If the known working phone operates properly, have your unit repaired by one of the authorized Panasonic Factory Service Centers. If the known working phone does not operate properly, consult with your telephone company.

## For product service

- Panasonic Servicenters are listed in the servicenter directory.
- Call 1-800-211-PANA(7262) for the location of an authorized servicenter.

## When you ship the product

- Carefully pack your unit, preferably in the original carton.
- Attach a letter, detailing the symptom, to the outside of the carton.

### Symptom

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- Send the unit to an authorized servicenter, prepaid and adequately insured.
- Do not send your unit to the Panasonic Consumer Electronics Company listed below or to executive or regional sales offices. These locations do not repair consumer products.

- This cordless telephone is designed for use in the United States of America. Sale or use of this product in other countries may violate local laws.
- Ce téléphone sans fil est conçu pour être utilisé aux États-Unis d'Amérique. La vente ou l'emploi de cet appareil dans certains autres pays peut constituer une infraction à la législation locale.
- Este teléfono sin cordón fue elaborado para uso en los Estados Unidos de América. La venta o el empleo de este producto en ciertos países puede constituir violación de la legislación local.
- このコードレス電話機は、日本国外での使用を目的として設計されており、日本国内での使用は法律違反となります。従って、当社では日本国内においては原則として修理などのサービスは致しかねます。

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

**Panasonic Sales Company,  
Division of Matsushita Electric of Puerto Rico, Inc.**  
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park  
Carolina, Puerto Rico 00985