

# Panasonic

900MHz Cordless Phone

Model No. **KX-TC1881B**

Pulse-or-tone dialing capability

## Operating Instructions



**2 LINE**

**PLEASE READ BEFORE USE  
AND SAVE.**

**Caller ID Compatible**

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

**Panasonic World Wide Web address: <http://www.panasonic.com>  
for customers in the USA or Puerto Rico**

Preparation

Basic Operation

Advanced Operation

Useful Information

# Before Initial Use

Please read **IMPORTANT SAFETY INSTRUCTIONS** on page 72 before use.  
Read and understand all instructions.

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

Caller ID and Call Waiting Service, where available, are telephone company services. After subscribing to Caller ID, this phone will display a caller's name and phone number. Call Waiting Caller ID, which displays a second caller's name and phone number while the user is on another call, requires a subscription to both Caller ID and Call Waiting.

Attach your purchase receipt here.

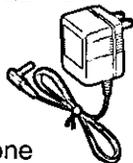
## For your future reference

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

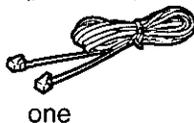
Name and address of dealer \_\_\_\_\_

## Accessories (included) For extra orders, call 1-800-332-5368.

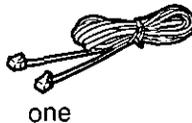
- AC Adaptor  
(p. 11)  
Order No.  
PQLV1Z



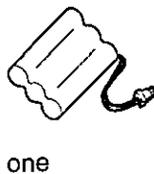
- 4-Wire  
Telephone Line  
Cord with  
Green Plugs  
(p. 12, 13)



- 2-Wire  
Telephone Line  
Cord with  
Transparent  
Plugs (p. 13)



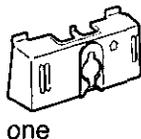
- Battery (p. 14)  
Order No.  
P-P508



- Handset  
Cover (p. 14)  
Order No.  
PQKK10099Z1



- Wall Mounting  
Adaptor (p. 62)  
Order No.  
PQKL10035Z1



- Handset  
Holder (p. 62)  
Order No.  
PQKE10097Z1



- Belt Clip  
(p. 64)  
Order No.  
PQKE10098Z1



# For Best Performance

## Battery Charge

A rechargeable Ni-Cd battery powers the handset. Install the battery and charge it for about **6 hours** before initial use (p. 14)

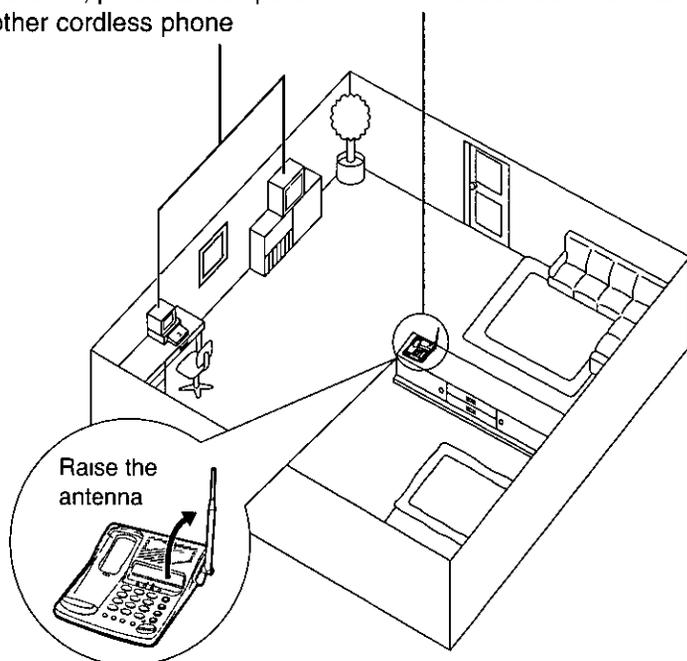


## Base Unit Location/Noise

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, personal computer or another cordless phone

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



- If more than one cordless phone is being used and your handset is 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.

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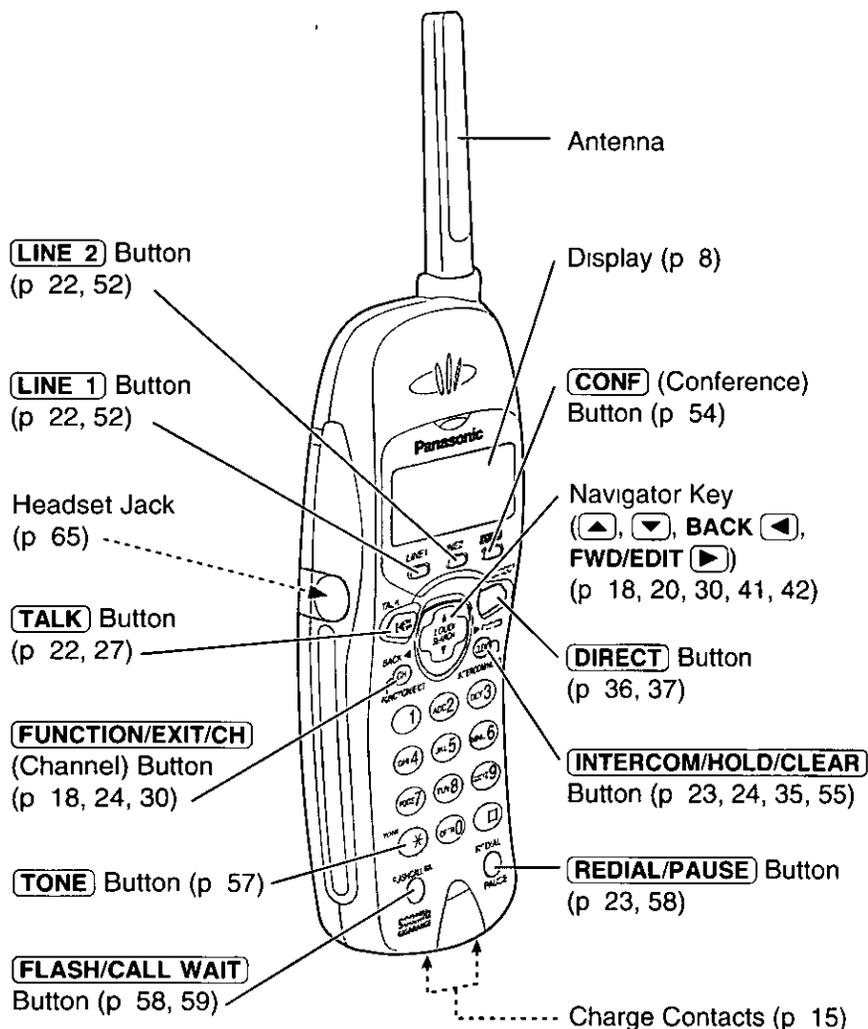
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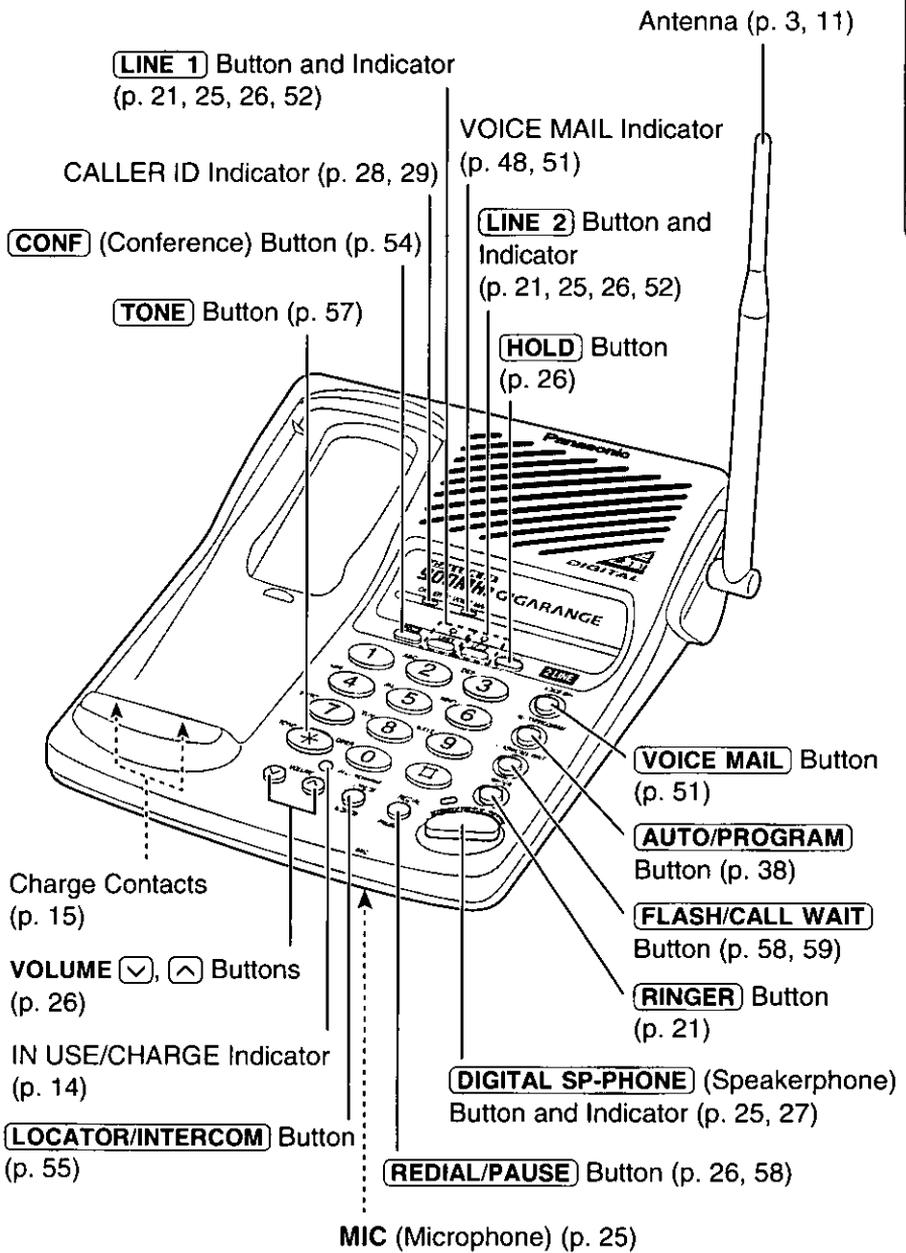
# Location of Controls

## Handset



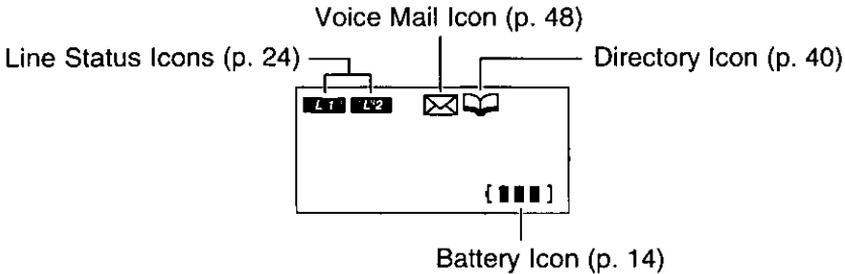
# Base unit

Preparation



# Display

The handset shows you instructions and information on the display. These display prompts are shown below.



No items stored

The Caller List for both lines is empty or there are no stored items in the directory.

Recharge battery  
{ [ ] }

The battery needs to be charged. Place the handset on the base unit to charge the battery (p. 14).

12 new calls  
{ [ ] }

The display shows the number of new calls and the battery strength (p. 14) while the handset is on the base unit.

12 new calls  
▼▲ ▶=Directory

The display shows the number of new calls when ▼ or ▲ is pressed while the handset is off the base unit.  
To search from the most recent call, press ▼.  
To search from the oldest call, press ▲ (p. 30).  
To go to the directory list, press FWD/EDIT ▶ (Directory key).

Voicemail

The display shows the voice mail message(s) is/are recorded (p. 48).



Ringer off L1&L2

When the handset ringer volume is set to OFF for both lines (p. 20), "Ringer off L1&L2" will flash for about 45 seconds before the handset returns to the standby mode (p. 15).

TINA ROBINSON  
1-000-222-3333

When a call is received, the display shows the caller's name, number and the called line after the first ring. The called line status icon flashes.

Talk Line1  
01-06-35 [||||]

During a conversation, the display shows the length of the call (ex. 1 hour, 6 minutes and 35 seconds). The battery strength is also displayed (p. 14).

No link to base.  
Place on cradle  
and try again.

The handset has lost communication with the base unit. Place the handset on the base unit and try again.

JACK SMITH  
1-222-333-4444  
11:20A JAN.12 x3

This is a name from the Caller List. The display shows:  
—the caller's name,  
—the caller's number and the called line,  
—the time and date of the last call (ex. Jan. 12, 11:20 AM), and  
—the number of times called (ex. 3 times).

Ann [book icon]  
1234567890

This is a name from the directory. The stored name and phone number are displayed.

[book icon]  
Directory full

When trying to store an item or Caller List information in the directory, the directory memory is full (p. 34, 41).

## ► Display

---

Save error

During a programming procedure, the handset has lost communication with the base unit.

Paging  
Press INTERCOM

The base unit is paging the handset (p. 55).

Intercom  
00-00-07 [■■■■]

The handset and the base unit are in the intercom mode (p. 55).

**LT**  
Intercom hold  
[■■■■]

An outside call has been put on hold by the handset user in the intercom mode.  
To release the hold, press the line button whose status icon is flashing (p. 56).

**LT**  
Hold  
[■■■■]

An outside call has been put on hold by the handset user (p. 24). The called line status icon flashes.

**LT**  
NANCY BROWN  
1-000-222-3333 **1**  
--- Waiting ----

A second call is received during a conversation (p. 58).

Please lift up  
and try again

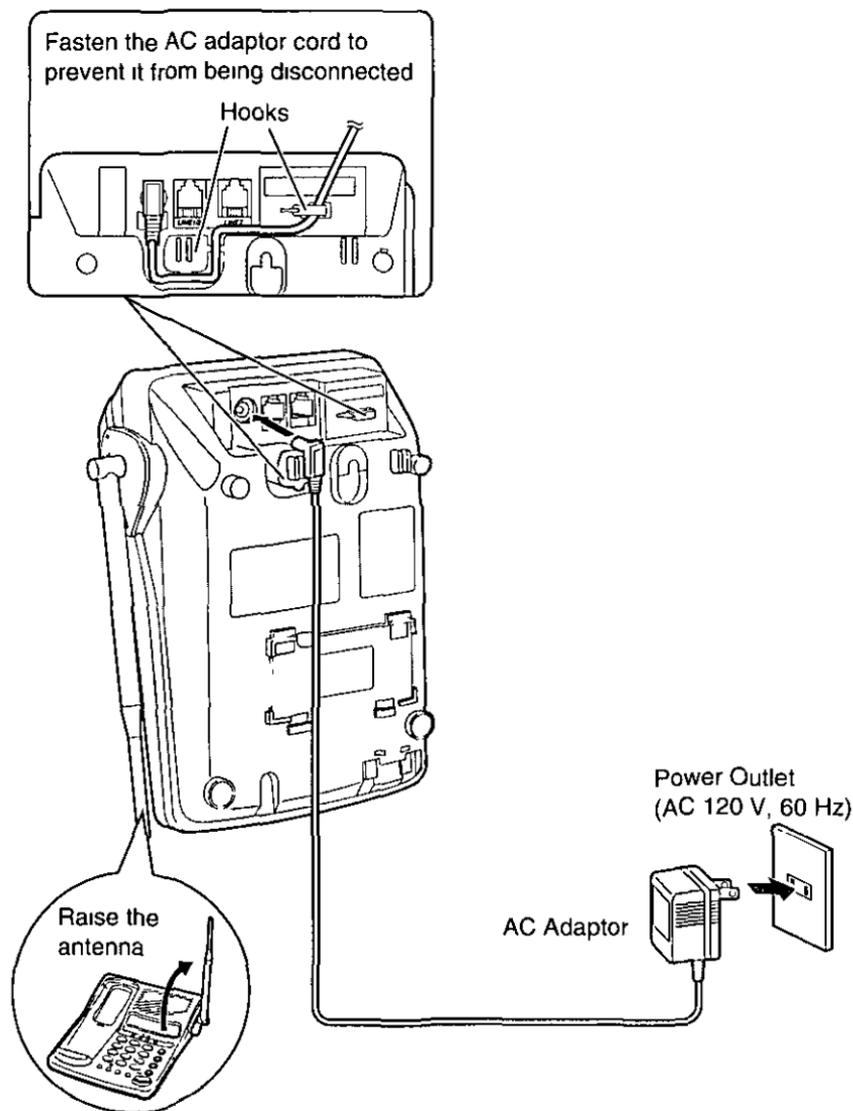
▼, ▲, **BACK** ◀ or **FWD/EDIT** ▶ was pressed while the handset was on the base unit. Lift the handset and press the button again.

Not available

▼, ▲, **BACK** ◀ or **FWD/EDIT** ▶ was pressed while the base unit was not in the standby or speakerphone mode.



## Connecting the AC Adaptor



- USE ONLY WITH Panasonic AC ADAPTOR PQLV1 (Order No PQLV1Z)
- 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 67
- If your unit is connected to a PBX which does not support Caller ID and voice mail services, you cannot access those services

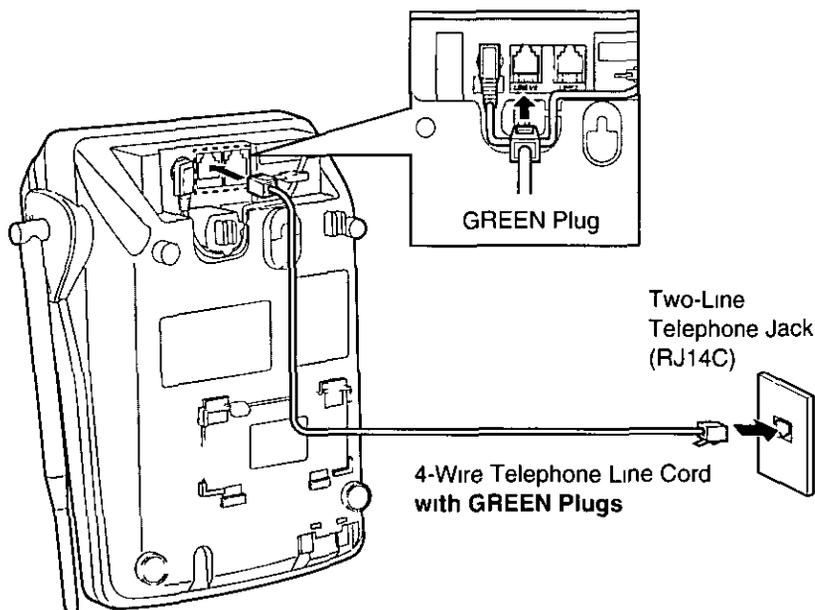
## ► Settings

---

### Connecting the Telephone Line Cord

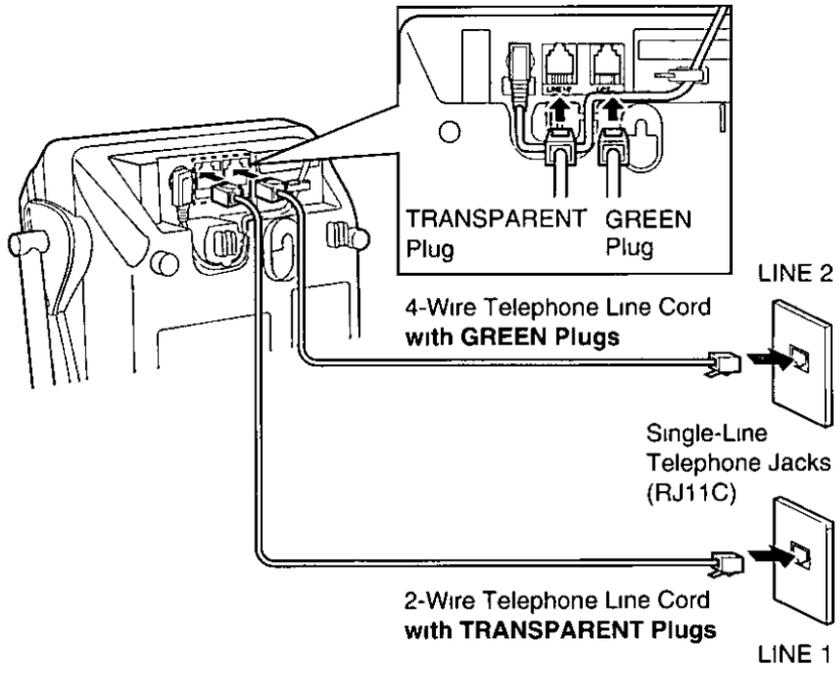
Connect the telephone line cord(s) to the unit as follows

#### To connect a two-line telephone jack

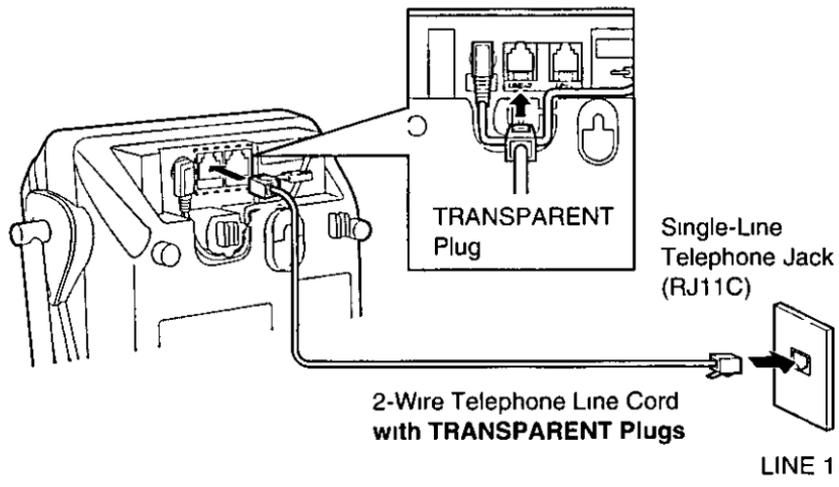




### To connect two single-line telephone jacks



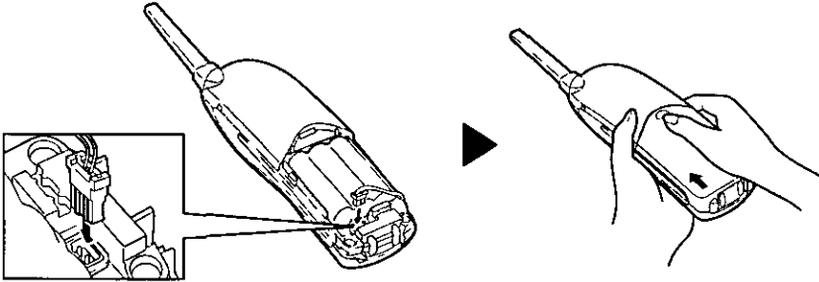
### If you use the unit as a single-line telephone only



## ► Settings

### Installing the Battery in the Handset

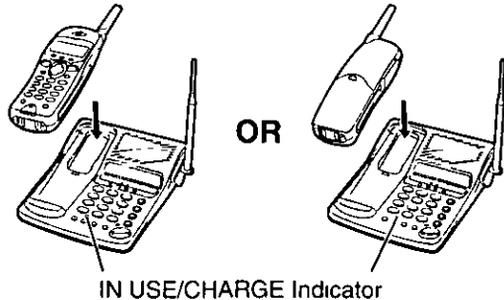
Install the battery and close the battery cover, locking it into place



### Battery Charge

Place the handset on the base unit and charge for about **6 hours** before initial use

- The IN USE/CHARGE indicator lights



### Battery strength

You can check the battery strength on the display while the handset is on the base unit, while it is in use (making/answering a call etc ), or after viewing the Caller List or directory items, programming etc  
The battery strength will remain on the display for a few seconds after using the handset, then the display will return to the standby mode (see next page)

The battery strength is shown as in the chart below

Display prompt	Battery strength
{ ■■■ }	Fully charged
{ ■■ }	Medium
{ ■ }	Low
{ ■ } (flashing)	Needs to be recharged



## Recharge

Recharge the battery when:

- “Recharge battery” is displayed,
- “{ ■ }” flashes on the display, or
- the handset beeps intermittently while it is in use.

Recharge battery { ■ }
---------------------------

- If you DO NOT recharge the handset battery for more than 15 minutes, the display will keep indicating “Recharge battery” and/or “{ ■ }” will continue to flash.

## Battery information

After your Panasonic battery is fully charged (p. 14):

Operation		Approx. battery life
While in use (TALK)	near the base unit*	Up to about 6 hours
	away from the base unit	Up to about 4 hours
While not in use (Standby)		Up to about 14 days

\*Within about 10 feet (3 m)

- Battery life may be shortened depending on usage conditions, such as viewing the Caller ID Caller List or directory list, 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.** Otherwise 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 “Recharge battery” is displayed and/or “{ ■ }” flashes. This will maximize the battery life.
- The battery cannot be overcharged.

## Standby Mode

### Handset (While off the base unit)

The handset goes into the standby mode after you finish using the handset (making/answering a call, viewing the Caller List or directory list etc.). The display is blank, but the handset can receive calls. The battery life is conserved in this mode.

### Base unit

The base unit goes into the standby mode after you finish using the base unit (making/answering a call, using the intercom etc.). Programming is possible **only when** the base unit is in the standby mode.

## ► Settings

### Selecting the Dialing Mode

If you have touch tone service, set to "Tone" If rotary or pulse service is used, set to "Pulse" Your phone comes from the factory set to "Tone"  
**Make sure the unit is in the standby mode.**

- 1 Press **FUNCTION/EXIT/CH**

►Save directory
Voicemail dial
▼▲                    ►=Yes
  
- 2 Press ▼ or ▲ repeatedly until the arrow points to "Program" 

Ringer volume
►Program
▼▲                    ►=Yes
  
- 3 Press **FWD/EDIT** ► (Yes key) 

►Save DIRECT#
Set flash time
▼▲                    ►=Yes
  
- 4 Press ▼ or ▲ repeatedly until the arrow points to "Set dial mode" 

Set line mode
►Set dial mode
▼▲                    ►=Yes
  
- 5 Press **FWD/EDIT** ► (Yes key) 

Dial mode
Tone
▼▲                    ►=Save
  
- 6 Press ▼ or ▲ to select "Pulse" or "Tone" Press **FWD/EDIT** ► (Save key) 

Dial mode
Pulse

  - A beep sounds
  - To return to the standby mode, press **FUNCTION/EXIT/CH**

- You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**
- If either line has rotary or pulse service, set to "Pulse" When making a call using a line which has touch tone service, press **(TONE)** first and then dial the number

## Selecting the Line Mode

If the line is connected to a low voltage system such as a PBX, set to "B". Otherwise the **TALK** and/or **DIGITAL SP-PHONE** button(s) may not operate properly. Both lines are preset to "A".

**Make sure the unit is in the standby mode.**

1 Press **FUNCTION/EXIT/CH**.

```
▶Save directory
  Voicemail dial
▼▲                ▶=Yes
```

2 Press **▼** or **▲** repeatedly until the arrow points to "Program".

```
  Ringer volume
▶Program
▼▲                ▶=Yes
```

3 Press **FWD/EDIT** **▶** (Yes key).

```
▶Save DIRECT#
  Set flash time
▼▲                ▶=Yes
```

4 Press **▼** or **▲** repeatedly until the arrow points to "Set line mode".

```
▶Set line mode
  Set dial mode
▼▲                ▶=Yes
```

5 Press **FWD/EDIT** **▶** (Yes key).

```
  Line mode
▼=Line1 ▲=Line2
```

6 Press **▼** (Line1) or **▲** (Line2) to select the desired line.

```
  Line mode
                                Line1:A
▼▲                ▶=Save
```

7 Press **▼** or **▲** to select "B" or "A".  
Press **FWD/EDIT** **▶** (Save key).

```
  Line mode
                                Line1:B
```

- A beep sounds.
- To program the other line, start again from step 4.
- To return to the standby mode, press **FUNCTION/EXIT/CH**.

•You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.

# Programmable Functions

You can program the following function items using the handset near the base unit. The display shows the programming instructions. See the corresponding pages for function details.

**Make sure the unit is in the standby mode.**

Press **FUNCTION/EXIT/CH**.



<Function menu>\*

▶ Save directory	To store an item in the directory (p. 41).
Voicemail dial	To dial the access number for voice mail service (p. 51).
Ringer volume	To select the ringer volume (p. 20).
Program	

Press **FWD/EDIT** .

<Function menu>\*

▶ Save DIRECT#	To store a phone number in the DIRECT button (p. 36).
Set flash time	To select the flash time (p. 59).
Save mailbox#	To store a voice mail access number (p. 48, 49).
Voicemail tone	To set the voice mail tone (p. 50).
Set line mode	To select the line mode (p. 17).
Set dial mode	To select the dial mode (p. 16).
Line selection	To change the line selection (p. 60).
Incoming call.	To set the incoming call tone (p. 61).
Talk switching	To set the auto talk feature (p. 19).

## During programming

\*To select a desired function item, press  or  repeatedly until the arrow points to the item. Then press **FWD/EDIT**  to go to the next step.

- If the handset displays "No link to base. Place on cradle and try again." and an alarm tone sounds, move closer to the base unit and try again.
- You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.
- If you do not press any buttons for 60 seconds, the unit will return to the standby mode.



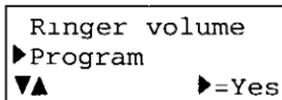
## Setting the Auto Talk Feature

The Auto Talk feature allows you to answer a call by lifting the handset off the base unit without pressing **TALK**. If you want to use this feature, turn the feature ON by programming. Your phone comes from the factory set to OFF.

**Make sure the unit is in the standby mode**

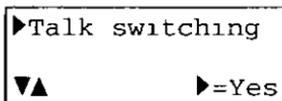
1 Press **FUNCTION/EXIT/CH**

2 Press or repeatedly until the arrow points to "Program"

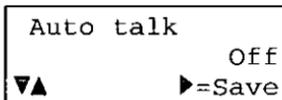


3 Press **FWD/EDIT** (Yes key)

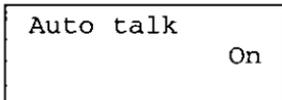
4 Press or repeatedly until the arrow points to "Talk switching"



5 Press **FWD/EDIT** (Yes key)



6 Press or to select "On" or "Off"  
Press **FWD/EDIT** (Save key)



- A beep sounds
- To return to the standby mode, press **FUNCTION/EXIT/CH**

- You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**
- To answer a call when the Auto Talk feature is OFF, lift the handset off the base unit and press **TALK**

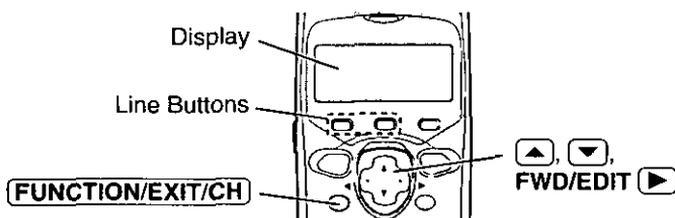
## ► Programmable Functions

### Selecting the Ringer Volume

You can program the ringer volume to HIGH, LOW or OFF. If set to OFF, the unit will not ring. Your phone comes from the factory set to HIGH.

**Make sure the unit is in the standby mode.**

#### With the handset



- 1 Press **FUNCTION/EXIT/CH**.
- 2 Press or repeatedly until the arrow points to "Ringer volume".
- 3 Press **FWD/EDIT** (Yes key).
- 4 Press (Line1) or (Line2) to select the desired line.
- 5 Press or to select the desired volume.

```
►Ringer volume
Program
▼▲                                     ►=Yes
```

```
Ringer volume
▼=Line1 ▲=Line2
```

- The selected volume is displayed and rings.
- The handset will return to the standby mode.

•**To turn the ringer OFF,** press and hold until 2 beeps sound.

•**To turn the ringer ON,** press or .

- The ringer for the selected line will sound at the LOW level.

```
HIGH Ringer Line1
Low ██████████ High
▼▲
```

```
LOW Ringer Line1
Low ███ High
▼▲
```

```
OFF Ringer off L1
```

- When you replace the battery, the selected ringer volume setting will return to the factory set (HIGH). Reprogram if necessary.

## With the base unit

### •To select HIGH (preset) or LOW

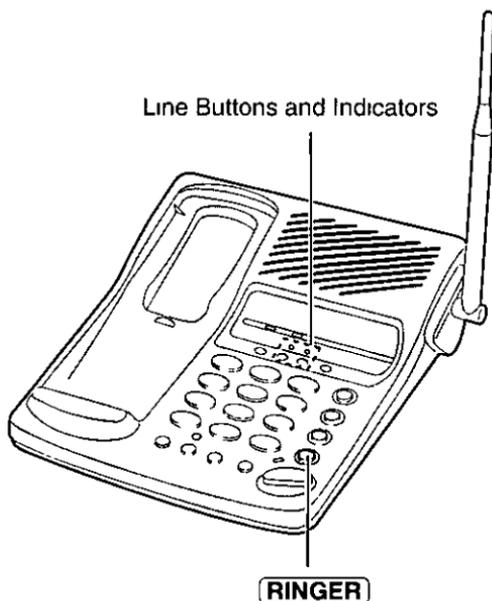
- 1 Press **RINGER**
  - Both line indicators will flash
- 2 Press **LINE 1** or **LINE 2** to select the desired line
  - Each time you press the line button, the ringer volume will change and the selected volume will ring

### •To turn the ringer OFF

- 1 Press **RINGER**
- 2 Press and hold **LINE 1** or **LINE 2** until 2 beeps sound

### •To turn the ringer ON

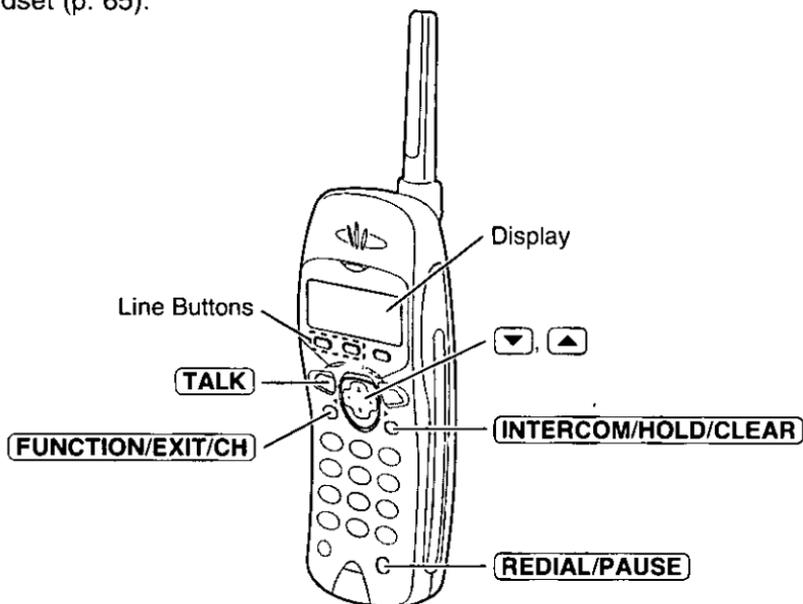
- Press **RINGER** and then **LINE 1** or **LINE 2**
- The ringer for the selected line will sound at the HIGH level



# Making Calls

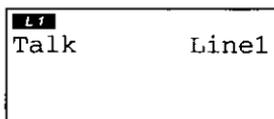
## With the Handset

To have a hands-free conversation, connect the optional headset to the handset (p. 65).



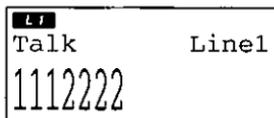
1 Press **TALK**.

- A free line is automatically selected and the line status icon is displayed.
- To change the line selection, see page 60.



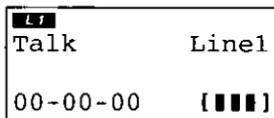
2 Dial a phone number.

- The dialed number is displayed.
- After a few seconds, the display will show the length of the call and the battery strength.



3 To hang up, press **TALK** or place the handset on the base unit.

- The line status icon goes out.



- If "No link to base. Place on cradle and try again." is displayed and an alarm tone sounds in step 1, move closer to the base unit or place the handset on the base unit, and try again.
- To switch a call from the handset to the speakerphone, see page 25.
- In step 1, you may select a line manually by pressing the line button instead of **TALK**.

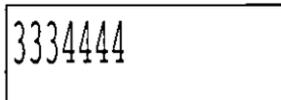


## To redial the last number dialed

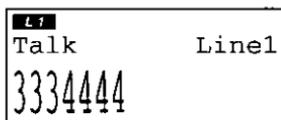
Press **TALK** or a line button → **REDIAL/PAUSE**.

## To dial after confirming the entered number

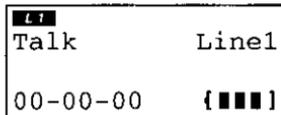
- 1 Enter a phone number.
  - If you misdial, press **INTERCOM/HOLD/CLEAR**. All digits are erased. Dial the correct phone number.



- 2 Press **TALK** or a line button.
  - After a few seconds, the display will show the length of the call and the battery strength.



- 3 To hang up, press **TALK** or place the handset on the base unit.

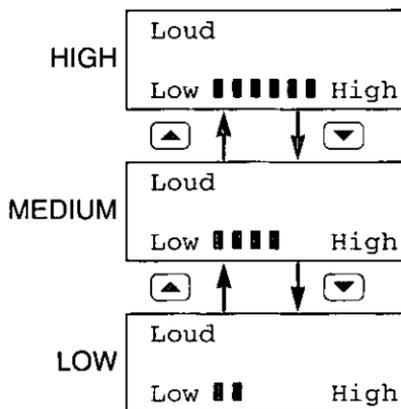


## To redial after confirming the last number dialed

Press **REDIAL/PAUSE** → **TALK** or a line button.

## To select the receiver volume

- Press **▲** or **▼** while talking.
- Each time you press **▲** or **▼**, the volume level will change.
  - The display will return to the length of the call.
  - Your phone comes from the factory set to MEDIUM.
  - When you replace the battery, the selected receiver volume setting will return to the factory set (MEDIUM). Reprogram if necessary.



## ► Making Calls

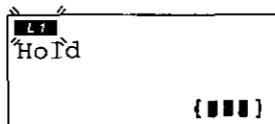
### If noise interferes with the conversation

Press **[FUNCTION/EXIT/CH]** to select a clearer channel or move closer to the base unit.

### To put a call on hold

Press **[INTERCOM/HOLD/CLEAR]**.

- "Hold" is displayed.
- The called line status icon on the handset and the called line indicator on the base unit flash.



### To release the hold

Press the line button on the handset whose status icon is flashing or the line button on the base unit whose indicator is flashing.

- If another phone is connected on the same line (p. 67), you can also release the hold by lifting its handset.

### Lighted handset keypad

The handset dialing buttons will light when you press a button or lift the handset off the base unit, and flash when a call is received.

The lights will go out about a few seconds after pressing a button, lifting the handset, answering a call, hanging up a call, leaving the programming mode or ending the intercom.

### Backlit LCD display

The lighted handset display will stay on for about a few seconds after pressing a handset button, lifting the handset off the base unit, hanging up a call, leaving the programming mode or ending the intercom.

### What the line status icons ("L1" and "L2") on the display mean (Handset)

Off	The line is free.
On	You are using the line on the handset, base unit or parallel connected telephone.
Flashing	A call is on hold.
Flashing quickly	A call is being received.



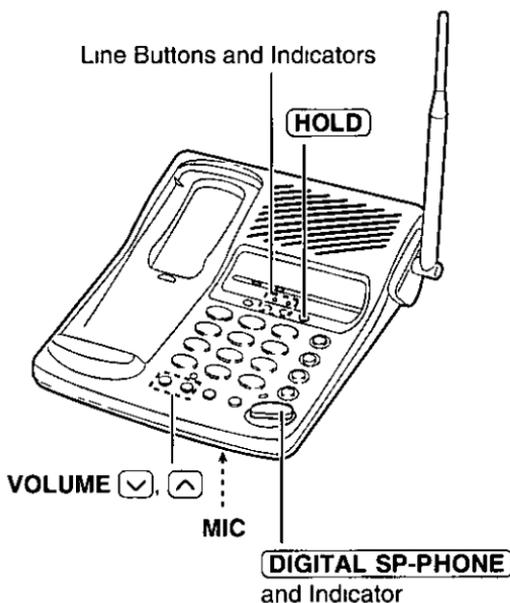
## With the Base Unit (Digital Duplex Speakerphone)

- 1 Press **DIGITAL SP-PHONE**
  - The DIGITAL SP-PHONE indicator lights
  - A free line is automatically selected and the line indicator lights

- 2 Dial a phone number

- 3 When the other party answers, talk into the **MIC** (microphone)

- 4 To hang up, press **DIGITAL SP-PHONE**
  - The indicator lights go out



- To switch to the handset while using the speakerphone
  - If the handset is off the base unit, press the line button on the handset whose status icon is on
  - If on the base unit, just lift up
- During a call using the handset, the call can be switched to the speakerphone by pressing the base unit's line button for the line which is being used on the handset
- The line indicator shows the line status (see "What the line indicators mean" on page 26)
- In step 1, you may select a line manually by pressing the line button instead of **DIGITAL SP-PHONE**

## ► Making Calls

### Hands-free Digital Duplex Speakerphone

For best performance, please note the following:

- Talk alternately with the other party in a quiet room.
- If the other party has difficulty hearing you, press **VOLUME**  to decrease the speaker volume.
- If the other party's voice from the speaker cuts in/out during a conversation, press **VOLUME**  to decrease the speaker volume.

### To adjust the speaker volume (8 levels) while talking

To increase, press **VOLUME** . To decrease, press **VOLUME** .

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

Press **DIGITAL SP-PHONE** or a line button → **REDIAL/PAUSE**.

### To put a call on hold

Press **HOLD**.

- The DIGITAL SP-PHONE indicator goes out, and the called line indicator on the base unit and the called line status icon on the handset flash.

### To release the hold

Press the line button on the base unit whose indicator is flashing or the line button on the handset whose status icon is flashing.

- If another phone is connected on the same line (p. 67), you can also release the hold by lifting its handset.

### What the line indicators mean (Base unit)

Off	The line is free.
On	You are using the line on the base unit.
Flashing twice every 2 seconds	Someone else is using the line on the handset or parallel connected telephone.
Flashing	A call is on hold.
Flashing quickly	A call is being received.

# Answering Calls

When a call is received, the unit rings, "Incoming call" and the called line are displayed. The called line status icon on the display and the called line indicator on the base unit flash quickly. The line is automatically selected when you answer the call. (To change the line selection, see page 60.)

If you subscribe to a Caller ID service, the calling party information will be displayed after the first ring (p. 28). In order to view the Caller ID information, please wait until the second ring to answer a call.

## With the Handset

Lift the handset off the base unit and press **TALK**.

- The called line status icon stops flashing.
- You can also answer a call by pressing any dialing button **0** to **9**, **\*** or **#** (—Any Key Talk).
- You may answer a call by pressing the line button instead of **TALK**.
- When the ringer volume is set to "OFF", the selected line(s) will not ring (p. 20).



Basic Operation

## Auto Talk

If you set the Auto Talk feature to ON (p. 19), you can answer a call by lifting the handset off the base unit without pressing **TALK**.

When an optional headset is connected (p. 65), make sure to use the headset to talk with the caller. If you want to have a normal cordless phone conversation, disconnect the headset.

## With the Base Unit

1 Press **DIGITAL SP-PHONE**.

- The DIGITAL SP-PHONE and the called line indicators light.

2 Talk into the **MIC**.

3 To hang up, press **DIGITAL SP-PHONE**.



- You may answer a call by pressing the line button instead of **DIGITAL SP-PHONE**.
- When the ringer volume is set to "OFF", the selected line(s) will not ring (p. 21).

# Caller ID Service

This unit is compatible with a Caller ID service offered by your telephone company. If you subscribe to a Caller ID service, the calling party's information will be displayed after the first ring.

The unit can record information of up to 50 different callers for both lines combined, including the time and date received, the number of times called and the called line, in the Caller List. The Caller List information is sorted by the most recent to the oldest call. When the 51st call is received, the first call is deleted.

Using the list, you can automatically call back a caller. You can store the callers' numbers from the Caller List into the directory.

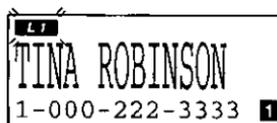
If you subscribe to a Call Waiting Caller ID Feature, when a second call is received while talking, the new caller's name, number and the called line will be displayed (p. 58).

## How caller information is displayed when a call is received

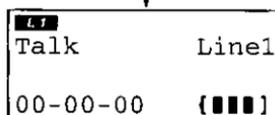
The display shows the caller's name, number and the called line after the first ring.

- The called line status icon will flash quickly.

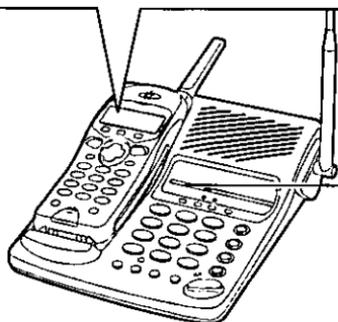
After you answer the call, the display will show the length of the call and the battery strength.



TINA ROBINSON  
1-000-222-3333 1



Talk Line1  
00-00-00 [||||]



The CALLER ID indicator flashes when a call is being received.

- Caller information cannot be displayed in the following cases:
  - If the caller dialed from an area which does not provide a Caller ID service, the display will show "Out of area".
  - If the caller has requested not to display his/her information, the display will show "Private caller".

- If your unit is connected to a PBX which does not support Caller ID services, you cannot access those services
- The name display service may not be available in some areas. For further information, please contact your telephone company

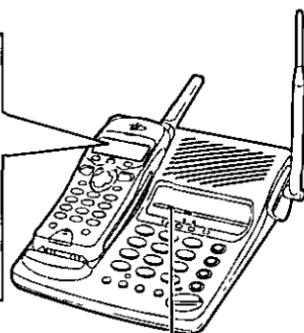
## To check the number of new calls

When new calls have been received, the CALLER ID indicator flashes on the base unit

### While the handset is on the base unit.

If you have received 10 new calls, the display will show the following

10 new calls  
[■■■■]



CALLER ID Indicator

### While the handset is off the base unit:

Press  or  to turn the display on. If you have received 10 new calls, the display will show the following

10 new calls  
  =Directory



# Using the Caller List

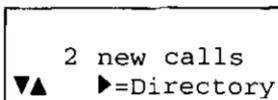
## Viewing the Caller List

To check who has called, follow the steps below.

**Make sure the unit is in the standby mode.**

- 1** Lift the handset off the base unit and press  or  to enter the Caller List.

- The display will show, for example, the following:

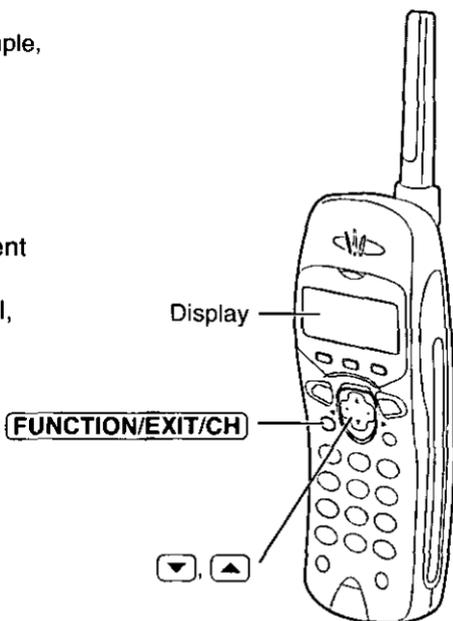


- 2** To search from the most recent call, press .  
To search from the oldest call, press .

- To scroll between callers, press  or .

- 3** To exit the list, press **FUNCTION/EXIT/CH**.

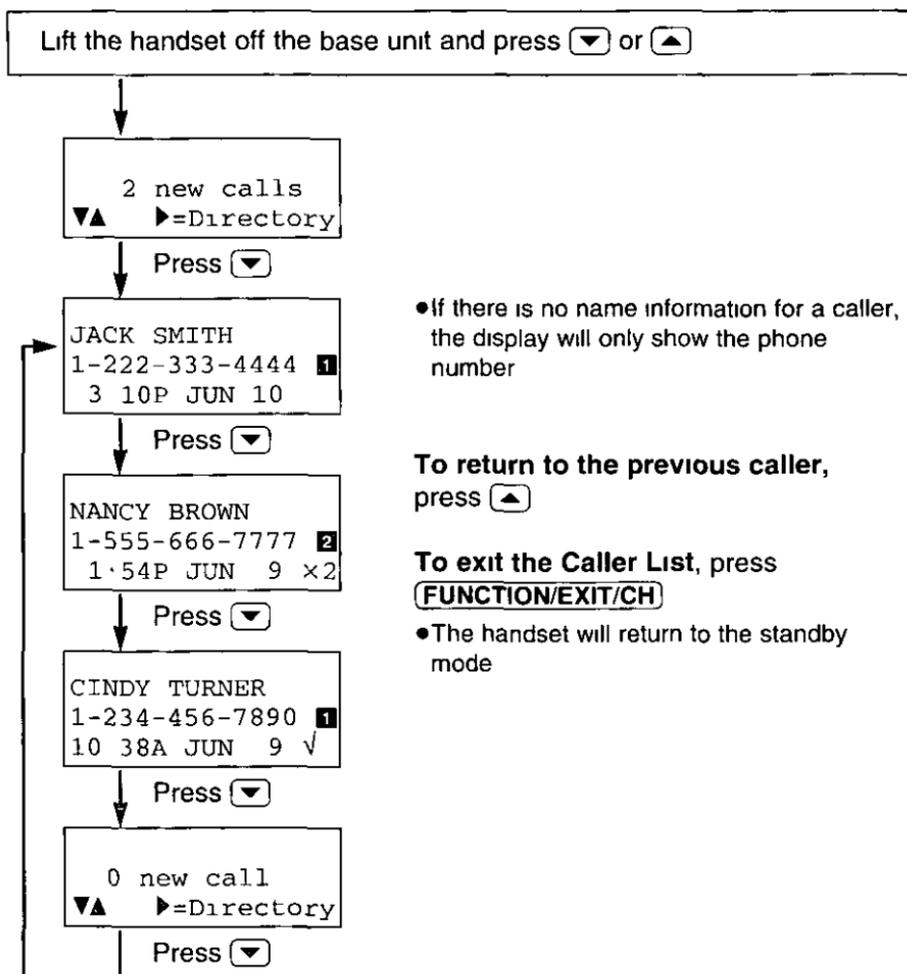
- The handset will return to the standby mode.



- Once new calls have been checked, "√" will be added.
- If "No items stored" is displayed in step 1, the Caller List is empty. After 5 seconds, the handset will return to the standby mode.
- If more than one call is received from the same caller, the date and time of the most recent call will be recorded. If the same caller calls again, the call entry with "√" will be deleted.
- In step 1, you can go to the directory list by pressing **FWD/EDIT**  (p. 44).



## Ex. When you search from the most recent call on both lines:



- If there is no name information for a caller, the display will only show the phone number

To return to the previous caller, press

To exit the Caller List, press **FUNCTION/EXIT/CH**

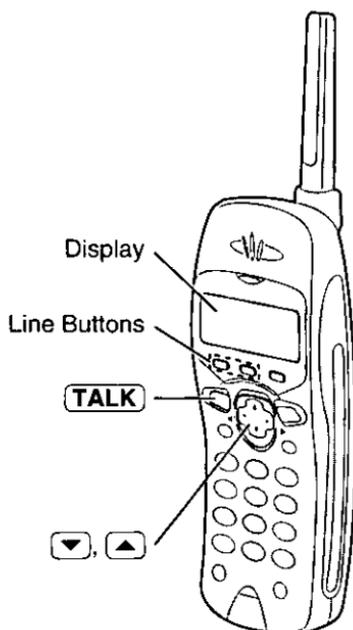
- The handset will return to the standby mode

### Display meaning:

- ✓ You have checked this caller information, answered the call or called back the caller
- x2-x9 The number of times the same caller called (up to 9)  
 After checking, "x2"-"x9" will be replaced with "✓"
- 1, 2** Indication of the called line

## ► Using the Caller List

### Calling Back from the Caller List



- 1** Lift the handset off the base unit and press  or  to enter the Caller List.

3 new calls
  =Directory

- 2** Press  or  repeatedly to find the desired caller.

CINDY TURNER
1-234-456-7890 
11:20A JAN.12 x3

- 3** Press **TALK**.
- The displayed phone number is dialed automatically.
  - After a few seconds, the display will show the length of the call and the battery strength.
  - You can also press a line button instead of **TALK**.

	Talk	Line1
12344567890		

	Talk	Line1
00-00-00 		

- In some cases, you may have to edit the number before dialing (p. 33).  
(Ex. You may have to delete "1" and the area code.)
- If a phone number is not displayed in the caller information, you cannot call back that caller.



# Editing the Caller's Phone Number

The unit can edit a phone number into one of 4 patterns.

**Make sure the unit is in the standby mode.**

**1** Lift the handset off the base unit and press or to enter the Caller List.

```
5 new calls
▼▲ ▶=Directory
```

**2** Press or repeatedly to find the desired caller. Press **FWD/EDIT** .

```
FRED PARKER
1-234-321-5555 [1]
11:20A JAN.12 ✓
```

```
▶Edit
Save directory
▼▲ ▶=Yes
```

**3** While the arrow points to "Edit", press **FWD/EDIT** (Yes key).

```
FRED PARKER
1-234-321-5555 [1]
▼=Next ▶=Edit
```

**4** Press **FWD/EDIT** (Edit key) to select a pattern.

•Each time you press **FWD/EDIT** , the number is rearranged into one of 4 different patterns.

- (a)
- (b)  -
- (c) 1 -
- (d) 1 -  -

- The order in which patterns (a)–(d) are displayed depends on how the telephone number is displayed in step 2.
- You should complete editing a number within 60 seconds.

(a) 

```
FRED PARKER
321-5555 [1]
▼=Next ▶=Edit
```

(b) 

```
FRED PARKER
234-321-5555 [1]
▼=Next ▶=Edit
```

(c) 

```
FRED PARKER
1-321-5555 [1]
▼=Next ▶=Edit
```

(d) 

```
FRED PARKER
1-234-321-5555 [1]
▼=Next ▶=Edit
```

Basic operation

**5** After editing the number, you can continue with calling back or storing procedures.

To call back, press **TALK** (p. 32).  
To store the number in the directory, press (Next key). Follow the instructions on the display (p. 34).

```
FRED PARKER
321-5555 [1]
▲=Edit ▶=Save
```

•The number edited in step 4 will not be maintained in the Caller List.

## ► Using the Caller List

### Storing Caller List Information in the Directory

You can store numbers that are in the Caller List in the directory.

**Make sure the unit is in the standby mode.**

**1** Lift the handset off the base unit and press  or  to enter the Caller List.

10 new calls  
▼▲ ▶=Directory

**2** Press  or  repeatedly to find the caller you want to store in the directory. Press **FWD/EDIT**  (Yes key).

CINDY TURNER  
1-234-456-7890 **1**  
11:20A JAN.12 x3

•If the number requires editing, see page 33.

▶Edit  
Save directory  
▼▲ ▶=Yes

**3** Press  or  to select "Save directory". Press **FWD/EDIT**  (Yes key).

Edit  
▶Save directory  
▼▲ ▶=Yes

**If there is no name information for the caller, "Enter name" will be displayed.**

Enter name  
◀▶ ▼=Next

a) If a name is not required, press  (Next key) and **FWD/EDIT**  (Save key).

b) If a name is required, enter the name (p. 42). When finished, press  (Next key) and **FWD/EDIT**  (Save key).

Enter name  
CINDY TURNER  
◀▶ ▼=Next

- A beep sounds.
- The display will return to step 2. You can continue storing other items.

To return to the standby mode, press

**FUNCTION/EXIT/CH**.

CINDY TURNER  
12344567890  
▲=Edit ▶=Save

- You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.
- If the display shows "Directory full" in step 3, the display will return to step 2. Press **FUNCTION/EXIT/CH** to exit the list. To erase other stored items from the directory, see page 47.
- If the display shows "Save error" or "No link to base. Place on cradle and try again." in step 3, the item cannot be stored in the directory. Try again from step 1.
- You cannot store caller information in the directory if a phone number is not displayed.

## Erasing Caller List Information

After checking the Caller List, you can erase some or all of the entries.

Make sure the unit is in the standby mode.

### To erase a specific caller from the Caller List

- 1 Lift the handset off the base unit and press  or  to enter the Caller List.

10 new calls  
▼▲ ▶=Directory

- 2 Press  or  repeatedly to find the caller you want to erase from the Caller List.

TOM REAGAN  
1-888-777-6666   
12:20A JAN.12 

- 3 Press **INTERCOM/HOLD/CLEAR**.  
• A beep sounds and the information is erased.

Clear

- To erase other items, repeat from step 2.  
• To return to the standby mode, press **FUNCTION/EXIT/CH**.

### To erase all entries in the Caller List

Before erasing all entries, make sure that "0 new call" is displayed.

- 1 Lift the handset off the base unit and press  or  to enter the Caller List.

0 new call  
▼▲ ▶=Directory

- 2 Press **INTERCOM/HOLD/CLEAR**.

- 3 Press  or  to select "All clear".

Exit  
▶All clear  
▼▲ ▶=Yes

- 4 Press **FWD/EDIT**  (Yes key) or **INTERCOM/HOLD/CLEAR**.

All clear

- A beep sounds and all entries are erased.  
• The handset will return to the standby mode.

# One-Touch Dialer

A phone number stored in the **DIRECT** button can be dialed with a one-touch operation.

## Storing a Phone Number in the DIRECT Button

Make sure the unit is in the standby mode.

- 1 Press **FUNCTION/EXIT/CH**.
- 2 Press **▼** or **▲** repeatedly until the arrow points to "Program".
- 3 Press **FWD/EDIT** **▶** (Yes key).
- 4 While the arrow points to "Save DIRECT#", press **FWD/EDIT** **▶** (Yes key).
- 5 Enter a phone number, up to 48 digits.
  - Each time you press **INTERCOM/HOLD/CLEAR**, the digit to the left of the cursor is erased. To erase all of the digits, press and hold **INTERCOM/HOLD/CLEAR**.
  - The last 32 digits number you entered will be displayed. To confirm the remaining number, press **BACK** **◀** or **FWD/EDIT** **▶**.
- 6 Press **▼** (Next key).
  - If you want to edit the entered number, press **▲** (Edit key) and return to step 5.
- 7 Press **FWD/EDIT** **▶** (Save key).
  - A beep sounds.
  - To return to the standby mode, press **FUNCTION/EXIT/CH**.

Ringer volume	
▶Program	
▼▲	▶=Yes

▶Save DIRECT#	
Set flash time	
▼▲	▶=Yes

◀▶	
▼=Next	

1234567890123456	
7890123456789012	
◀▶	
▼=Next	

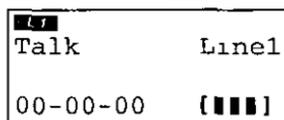
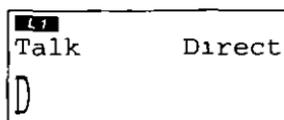
1234567890123456	
7890123456789012	
▲=Edit	
▶=Save	

1234567890123456	
7890123456789012	
Save DIRECT#	

- You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.
- If a pause is required for dialing, **REDIAL/PAUSE** can be stored in a phone number counting as one digit (p. 58) in step 5.

## Dialing the Stored Number in the DIRECT Button

- 1 Press **DIRECT**
- The stored number is dialed automatically
  - After a few seconds, the display will show the length of the call and the battery strength



- 2 To hang up, press **TALK** or place the handset on the base unit

- You can also dial the stored number in the **DIRECT** button by pressing **TALK** or a line button and then **DIRECT**

# Speed Dialer

## Storing Phone Numbers in Memory

You can store up to 10 phone numbers in the base unit. The dialing buttons (0) to (9) function as memory stations.

**Make sure the unit is in the standby mode.**

**1** Press **AUTO/PROGRAM**.

- The IN USE/CHARGE indicator flashes.

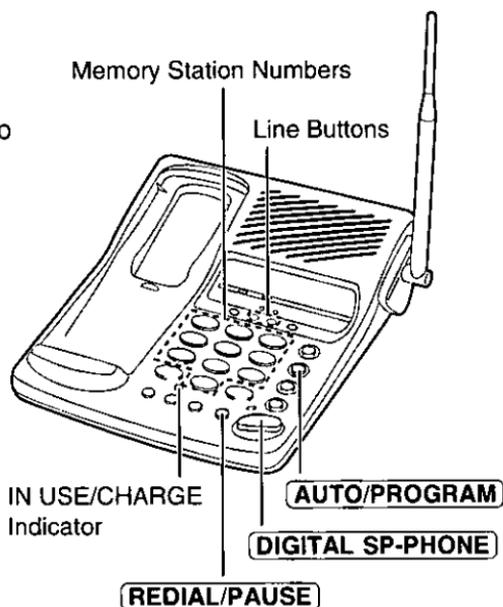
**2** Enter a phone number up to 22 digits.

- If you misdial, press **AUTO/PROGRAM** twice to end storing, and start again from step 1.

**3** Press **AUTO/PROGRAM**.

**4** Press a memory station number (0) to (9).

- A beep sounds.
- To store other numbers, repeat steps 1 through 4.



- If a pause is required for dialing, press **REDIAL/PAUSE** where needed. Pressing **REDIAL/PAUSE** counts as one digit (p. 58).

### To erase a stored number

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

---

## Dialing a Stored Number

- 1 Press **DIGITAL SP-PHONE**
- 2 Press **AUTO/PROGRAM**
- 3 Press the memory station number (**0** to **9**)
  - A stored number is dialed

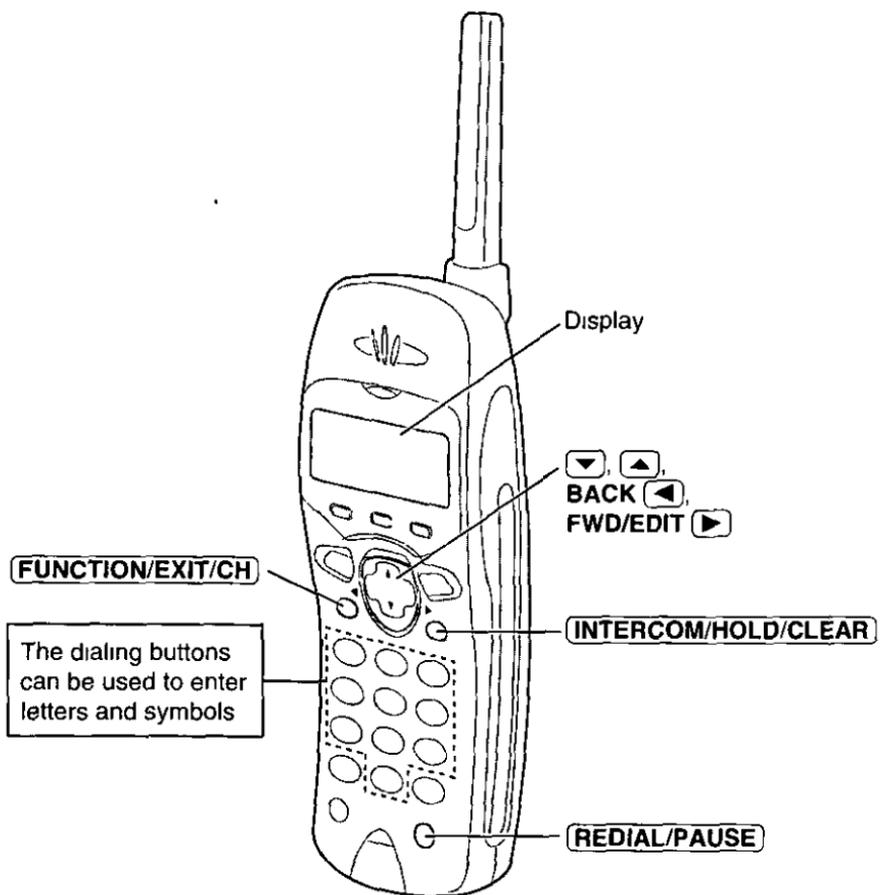
- Numbers stored in the base unit can only be dialed from the base unit
- In step 1, you may select a line manually by pressing the line button instead of **DIGITAL SP-PHONE**
- If the line(s) has (have) rotary or pulse service, any access numbers stored after pressing **TONE** will not be dialed

# Using the Directory

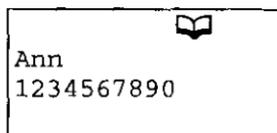
You can store up to 50 names and phone numbers in the directory. All directory items are sorted by the first word in alphabetical order. Using the directory, you can make a call by selecting a name on the handset display.

## Storing Names and Numbers in the Directory

Make sure the unit is in the standby mode.



- While storing or finding items in the directory, "📖" will be shown on the display.





1 Press **FUNCTION/EXIT/CH**.

▶ Save directory  
Voicemail dial  
▼▲ ▶=Yes

2 While the arrow points to "Save directory", press **FWD/EDIT** (▶) (Yes key).

Directory=  
20 items

- The display shows the number of stored items in the directory.

3 Enter a name, up to 15 characters, with the dialing buttons, **BACK** (◀) or **FWD/EDIT** (▶).

Enter name  
◀ ▶=Next

- See the steps for entering names and symbols (p. 42).

- If a name is not required, press ▼ (Next key) and go to step 5.

Enter name  
Tom Jones  
◀ ▶=Next

4 Press ▼ (Next key).

Enter phone no.

5 Enter a phone number, up to 22 digits.

- Each time you press **INTERCOM/HOLD/CLEAR**, a character is erased from the right. To erase all of the digits, press and hold **INTERCOM/HOLD/CLEAR**.

0987654321  
◀ ▶=Next

6 Press ▼ (Next key).

Tom Jones  
0987654321  
▲=Edit ▶=Save

7 Press **FWD/EDIT** (▶) (Save key).

- A beep sounds.
- To continue storing other items, repeat from step 2.
- To return to the standby mode, press **FUNCTION/EXIT/CH**.

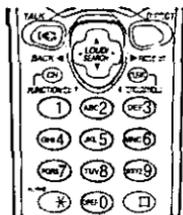
- If a pause is required for dialing, **REDIAL/PAUSE** can be stored in a phone number counting as one digit (p. 58) in step 5.
- You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.
- If the display shows "Directory full" in step 2, the display will return to step 1. Press **FUNCTION/EXIT/CH** to exit the list. To erase other stored items from the directory, see page 47.
- If the display shows "save error" in step 7, the item cannot be stored in the directory. Try again from step 1.

## ► Using the Directory

### Steps for Entering Names and Symbols

The handset dialing buttons (0 to 9), **BACK** ◀ and **FWD/EDIT** ▶ can be used to enter letters and symbols.

Each button selects a character as shown below.



Keys	Number of times key is pressed										
	1	2	3	4	5	6	7	8	9	10	11
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	Blank									
<b>BACK</b> ◀	To move the cursor to the left										
<b>FWD/EDIT</b> ▶	To move the cursor to the right										

- To enter another character using the same dialing button, press **FWD/EDIT** ▶ to move the cursor to the next space.

### If you make a mistake while entering a name

Use **BACK** ◀ or **FWD/EDIT** ▶ to move the cursor to the incorrect character, press **INTERCOM/HOLD/CLEAR** to delete and enter the correct character. Each time you press **INTERCOM/HOLD/CLEAR**, a character is erased from the right.

To erase all characters, press and hold **INTERCOM/HOLD/CLEAR**.



## For example, to enter "Tom Jones":

- 1 Press **FUNCTION/EXIT/CH**.
- 2 While the arrow points to "Save directory", press **FWD/EDIT** (▶) (Yes key).
 

Directory=  
20 items

Enter name  
◀▶ ▼=Next
- 3 Press **8**.
 

T
- 4 Press **6** six times, then press **FWD/EDIT** (▶) to move the cursor to the right.
 

To
- 5 Press **6** four times.
 

Tom
- 6 Press **FWD/EDIT** (▶) twice to enter a blank.
 

Tom
- 7 Press **5**.
 

Tom J
- 8 Press **6** six times, then press **FWD/EDIT** (▶) to move the cursor to the right.
 

Tom Jo
- 9 Press **6** five times.
 

Tom Jon
- 10 Press **3** five times.
 

Tom Jone
- 11 Press **7** eight times.
 

Enter name  
Tom Jones  
◀▶ ▼=Next
- 12 When finished, press **▼** (Next key).
 

Enter phone no.

  - Follow steps 5 to 7 on page 41 to complete the operation.

Advanced Operation

• While entering names, the cursor will flash on the display.

## ► Using the Directory

### Finding Items in the Directory

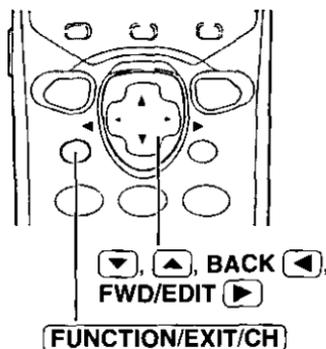
Make sure the unit is in the standby mode

- 1 Press **BACK** (◀) or **FWD/EDIT** (▶) to enter the directory list

Directory list  
▼▲  
▶=Caller's list

- 2 Press (▼) or (▲)  
•The first item is displayed

Ann  
1234567890



- 3 Press (▼) or (▲) repeatedly until the desired item is displayed

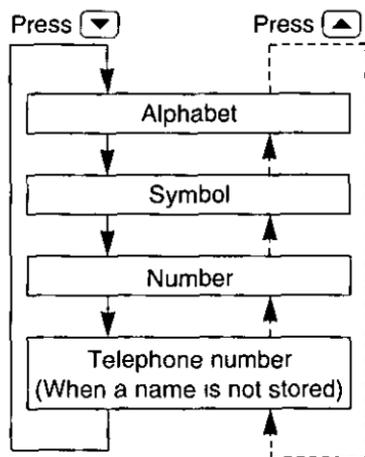
- All directory items are stored in the order shown on the right

**To search for a name by the initial.**

- ① Press the dialing button for the first letter of the desired name until any name with the same initial is displayed (see the Index table on page 45)

Ex To find "Frank", press (3) repeatedly until the first item under "F" is displayed

- ② Press (▼) until the name is displayed



- You can exit the directory list any time by pressing **FUNCTION/EXIT/CH**
- If "No items stored" is displayed in step 2, the directory is empty To return to the standby mode, press **FUNCTION/EXIT/CH**
- In step 1, you can go to the Caller List by pressing **FWD/EDIT** (▶) (p 30)



## Index table

Keys	Index	Keys	Index
①	Other symbols, 1	⑥	M, N, O, 6
②	A, B, C, 2	⑦	P, Q, R, S, 7
③	D, E, F, 3	⑧	T, U, V, 8
④	G, H, I, 4	⑨	W, X, Y, Z, 9
⑤	J, K, L, 5	⑩	0

## Dialing from the Directory

1 Press **BACK** (◀) or **FWD/EDIT** (▶) to enter the directory list.

2 Press (▼) or (▲).  
•The first item is displayed.

3 Press (▼) or (▲) repeatedly to find the directory item that you want to dial (p. 44).

4 Press **TALK**.  
•The number is dialed automatically.  
•After a few seconds, the display will show the length of the call and the battery strength.  
•You can also press a line button instead of **TALK**.

5 To hang up, press **TALK** or place the handset on the base unit.

Frank 4567890
------------------

L1	Talk	Line1
4567890		

L1	Talk	Line1
00-00-00		{■■■■}

Advanced Operation

•You can exit the directory list any time by pressing **FUNCTION/EXIT/CH**.

## ► Using the Directory

### Editing an Item in the Directory

Make sure the unit is in the standby mode.

1 Press **BACK** (◀) or **FWD/EDIT** (▶) to enter the directory list.

2 Press (▼) or (▲).  
•The first item is displayed.

3 Press (▼) or (▲) repeatedly to find the directory item you want to change (p. 44). Press **FWD/EDIT** (▶).

```
Jane
1234567
```

```
Enter name
Jane
◀          ▼=Next
```

4 Edit the name using the dialing buttons, **BACK** (◀) or **FWD/EDIT** (▶) (p. 42), up to 15 characters.

```
Enter name
Jane Walker
◀          ▼=Next
```

5 Press (▼) (Next key).  
•If you do not need to change the number, press (▼) (Next key) twice and go to step 8.

```
1234567
◀          ▼=Next
```

6 Add a number to the current number.  
•Each time you press **INTERCOM/HOLD/CLEAR**, a character is erased from the right. To erase all of the digits, press and hold **INTERCOM/HOLD/CLEAR**.

```
0981234567
◀          ▼=Next
```

7 Press (▼) (Next key).

```
Jane Walker
0981234567
▲=Edit    ▶=Save
```

8 When finished, press **FWD/EDIT** (▶) (Save key).  
•To continue editing other items, repeat steps 3 through 8.  
•To return to the standby mode, press **FUNCTION/EXIT/CH**.

```
Jane Walker
0981234567
```

•You can exit the directory list any time by pressing **FUNCTION/EXIT/CH**.

---

## Erasing an Item from the Directory

Make sure the unit is in the standby mode.

1 Press **BACK** (◀) or **FWD/EDIT** (▶) to enter the directory list

2 Press (▼) or (▲)  
•The first item is displayed

3 Press (▼) or (▲) repeatedly to find the directory item you want to erase (p 44)

Helen  
1234567890

4 Press **INTERCOM/HOLD/CLEAR**

Clear?  
◀=No ▶=Yes

5 Press **FWD/EDIT** (▶) (Yes key) or **INTERCOM/HOLD/CLEAR**  
•The display will show the next item  
•To return to the standby mode, press **FUNCTION/EXIT/CH**

Clear

•You can exit the directory list any time by pressing **FUNCTION/EXIT/CH**

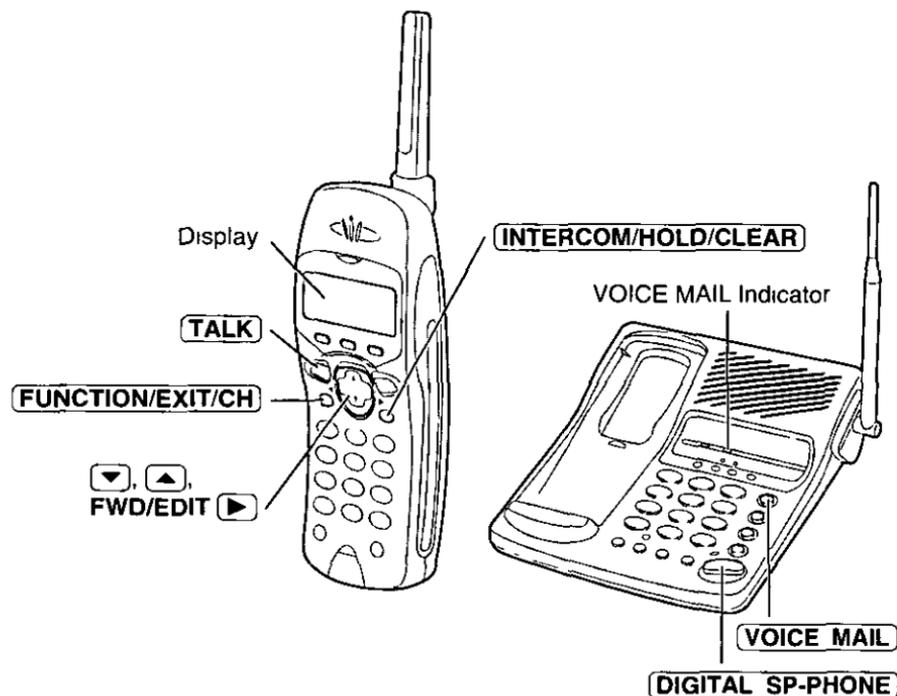
# Voice Mail Service

Voice mail service is an electronic on-line answering system offered by your telephone company. After subscribing, the voice mail system can answer calls automatically when your line is busy or if calls are not answered. Callers can leave messages by following the pre-recorded instructions. When voice mail messages will be recorded, "Voicemail" and "☒" will be displayed and the VOICE MAIL indicator on the base unit will flash.

To use this feature, you must first store your access number.

## Storing a Voice Mail Access Number

Make sure the unit is in the standby mode.



- 1 Press **FUNCTION/EXIT/CH**
- 2 Press **▼** or **▲** repeatedly until the arrow points to "Program"
- 3 Press **FWD/EDIT** **▶** (Yes key)

Ringer volume
▶ Program
▼▲ ▶=Yes



4 Press or repeatedly until the arrow points to "Save mailbox#".

▶ Save mailbox#  
Voicemail tone  
▼▲ ▶=Yes

5 Press **FWD/EDIT** (Yes key).

Save mailbox#  
▼=Line1 ▲=Line2

6 Press (Line1) or (Line2) to select the desired line.

◀▶ ▼=Next

7 Enter your access number, up to 32 digits.  
• You may enter pauses\*.  
• If you enter a wrong number, press **INTERCOM/HOLD/CLEAR**. Digits are erased from the right. To erase all of the digits, press and hold **INTERCOM/HOLD/CLEAR**.

1234567PPP8901  
◀▶ ▼=Next

8 Press (Next key).  
• If you want to edit the entered number, press (Edit key) and return to step 7.

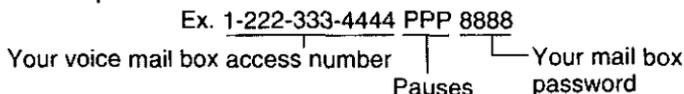
1234567PPP8901  
▲=Edit ▶=Save

9 Press **FWD/EDIT** (Save key).  
• A beep sounds.  
• To program the other line, start again from step 4.  
• To return to the standby mode, press **FUNCTION/EXIT/CH**.

1234567PPP8901  
Save mailbox#

Advanced Operation

\*For quick access to your voice mail box by using **VOICE MAIL**, you may add pauses between your voice mail box access number and your mail box password in step 7.



Pressing **REDIAL/PAUSE** once creates a 3.5 second delay and counts as one digit. The delay time depends on a telephone company.

## To erase a stored number

Repeat steps 1 through 6 → press and hold **INTERCOM/HOLD/CLEAR** until all of the digits are erased → (Next key) → **FWD/EDIT** (Save key).

• You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.

## ▶ Voice Mail Service

### Setting the Voice Mail Tone

If your voice mail service sends a voice mail tone after a new message has been recorded, set to "On". "Voicemail" and "☒" will be displayed and the VOICE MAIL indicator on the base unit will flash when a message has been recorded in your mailbox. You will hear a series of voice mail tones followed by a dial tone after pressing **TALK**. (Contact your service provider for details about your service.)

Set to "Off" if:

- you do not subscribe to a voice mail service,
- your voice mail service does not send a voice mail tone, or
- the unit is connected to a PBX.

Your phone comes from the factory set to "On".

**Make sure the unit is in the standby mode.**

- 1 Press **FUNCTION/EXIT/CH**.
- 2 Press **▼** or **▲** repeatedly until the arrow points to "Program".
- 3 Press **FWD/EDIT** **▶** (Yes key).
- 4 Press **▼** or **▲** repeatedly until the arrow points to "Voicemail tone".
- 5 Press **FWD/EDIT** **▶** (Yes key).
- 6 Press **▼** (Line1) or **▲** (Line2) to select the desired line.
- 7 Press **▼** or **▲** to select "Off" or "On". Press **FWD/EDIT** **▶** (Save key).
  - A beep sounds.
  - To program the other line, start again from step 4.
  - To return to the standby mode, press **FUNCTION/EXIT/CH**.

Ringer volume	
▶Program	
▼▲	▶=Yes

Save mailbox#	
▶Voicemail tone	
▼▲	▶=Yes

Voicemail tone	
▼=Line1	▲=Line2

Voicemail tone	
Line1:On	
▼▲	▶=Save

Voicemail tone	
Line1:Off	

• You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.

## Listening to Voice Mail Messages

After receiving a voice mail message, "Voicemail" and "☒" will be displayed and the VOICE MAIL indicator on the base unit will flash. To listen to your voice mail message(s), follow the steps below.

### With the Handset

- 1 Press **FUNCTION/EXIT/CH**.
- 2 Press **▼** or **▲** repeatedly until the arrow points to "Voicemail dial".
- 3 Press **FWD/EDIT** **▶** (Yes key).
- 4 Press **▼** or **▲** to select the desired line.
  - The stored voice mail access number is displayed (p. 48, 49).
- 5 Press **TALK**.
  - The unit automatically dials the access number.
- 6 Follow the pre-recorded instructions.
- 7 When finished, press **TALK**.

```
Save directory
▶Voicemail dial
▼▲ ▶=Yes
```

```
1234567PPP8901
▼▲ Line1
```

```
Talk Line1
1234567PPP8901
```

### With the Base Unit

1. Press **VOICE MAIL**.
    - The line indicator(s) will flash if there are voice mail messages recorded for that line(s).
  2. Press the line button(s) whose indicator(s) is/are flashing within 5 seconds after pressing **VOICE MAIL**.
    - The unit is connected to the telephone line and automatically dials the access number.
  3. Follow the pre-recorded instructions.
  4. When finished, press **DIGITAL SP-PHONE**.
- If "Voicemail" and "☒" still remain on the display or the VOICE MAIL indicator still flashes even if you have listened to your voice mail message(s), press **FUNCTION/EXIT/CH**, and press and hold **INTERCOM/HOLD/CLEAR** until the unit beeps. "Voicemail" and "☒" will disappear and the VOICE MAIL indicator will turn off.
  - If your voice mail service uses a voice mail tone and the recorded message is over 3 minutes long, "Voicemail" and "☒" may not be displayed and the VOICE MAIL indicator may not flash.
  - If your voice mail service uses a voice mail tone, the tone will be heard from any parallel connected phone. If you use another phone to retrieve messages, you have to dial your access number manually.

# Using the Other Line During a Conversation

---

## While Someone Else is Using a Line (Simultaneous Base/Handset Calling)

The handset and base unit can be used at the same time on separate telephone lines.

### To make a call with the handset

**1** EX: If the base unit is using  
LINE 1

Press the other line button (LINE 2) on the handset.

- The LINE 2 status icon is displayed.

**2** Dial a phone number.

**3** To hang up, press **TALK** or place the handset on the base unit.

### To make a call with the base unit

**1** EX: If the handset is using  
LINE 1

Press the other line button (LINE 2) on the base unit.

- The DIGITAL SP-PHONE and the LINE 2 indicators light.

**2** Dial a phone number.

**3** To hang up, press **DIGITAL SP-PHONE**.

### To answer a call with the handset

**1** EX: If the base unit is using  
LINE 1

Press the other line button (LINE 2) on the handset.

**2** To hang up, press **TALK** or place the handset on the base unit.

### To answer a call with the base unit

**1** EX: If the handset is using  
LINE 1

Press the other line button (LINE 2) on the base unit.

**2** To hang up, press **DIGITAL SP-PHONE**.

- If another phone is connected on either line, you can also use it while the handset or base unit is using the other line.

---

## While You are Using a Line

During a conversation, if **two tones** sound and the other line status icon on the display and the other line indicator on the base unit flash quickly, an incoming call is being received on that line. You can answer the second call while holding the first call. You can also make a call without terminating the first call. If you subscribe to a Caller ID service, the second caller's information will be displayed when a call is being received on the other line (p. 28).

You may delete the **two tones** (incoming call tone) by programming. See page 61.

### With the handset

- 1 EX: If you are using LINE 1**  
Press **INTERCOM/HOLD/CLEAR** to put the first call (LINE 1) on hold.
  - The LINE 1 status icon flashes.
- 2** Press the other line button (LINE 2) to make or answer a second call.
  - The LINE 2 status icon is displayed.
- 3** To return to the first call (LINE 1), press the line button for the first call (LINE 1).
  - The second call is terminated.

### 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 make or answer a second call.
  - The LINE 2 indicator lights.
- 3** To return to the first call (LINE 1), press the line button for the first call (LINE 1).
  - The second call is terminated.

- To hold the second call in step 3, press **INTERCOM/HOLD/CLEAR** or **HOLD** before pressing the line button for the first call.

# Conference Call

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

## With the handset

- 1 EX: If you are using LINE 1**  
Press **INTERCOM/HOLD/CLEAR** to put the first call (LINE 1) on hold.
  - The LINE 1 status icon flashes.
- 2** Press the other line button (LINE 2) to make or answer a second call.
  - The LINE 2 status icon is displayed.
- 3** When the second call is connected, press **CONF** to make a conference call.
  - Both line status icons are displayed.

### During a conference call using the handset:

- To hang up both lines, press **TALK**.
- To hang up only one line, press the line button for the party with which you want to continue talking.
- To put both lines on hold, press **INTERCOM/HOLD/CLEAR**.  
To talk with only one caller, press the corresponding line button.  
To resume both lines, press **CONF**.

## 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 make or answer a second call.
  - The LINE 2 indicator lights.
- 3** When the second call is connected, press **CONF** to make a conference call.
  - Both line indicators light.

### During a conference call using the base unit:

- To hang up both lines, press **DIGITAL SP-PHONE**.
- To hang up only one line, press the line button for the party with which you want to continue talking.
- 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**.

# Intercom



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

## Paging the base unit from the handset

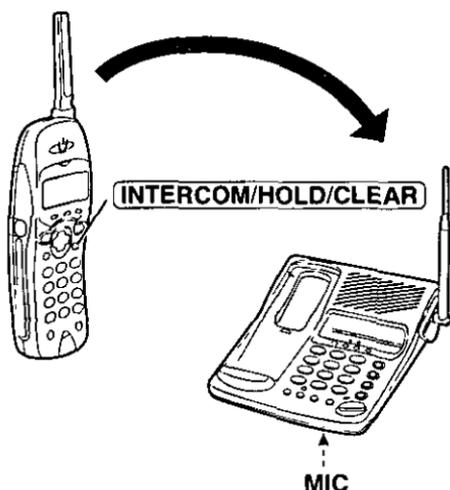
- 1 Handset  
Press  
**INTERCOM/HOLD/CLEAR**  
Talk to the paged party after the beeps

- "Intercom" is displayed

- 2 Base unit  
When the other party's voice is heard, answer using the **MIC**

- 3 Handset  
To end the intercom, press

**INTERCOM/HOLD/CLEAR**



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

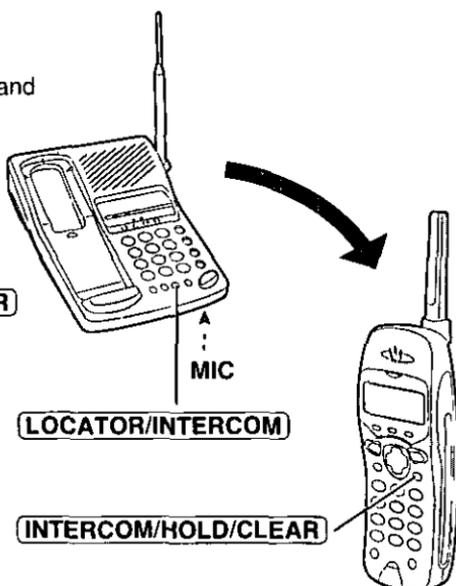
Using this feature, you can locate a misplaced handset

- 1 Base unit  
Press **LOCATOR/INTERCOM**
  - The handset beeps for 1 minute and displays "Paging Press INTERCOM"
  - To stop paging, press **LOCATOR/INTERCOM** again

- 2 Handset  
Press **INTERCOM/HOLD/CLEAR** to answer
  - "Intercom" is displayed

- 3 Base unit  
Talk into the **MIC**

- 4 Handset  
To end the intercom, press  
**INTERCOM/HOLD/CLEAR**



Advanced Operation

## ► Intercom

### During an intercom call:

- Intercom calls can only be ended with the handset.
- If the handset user has difficulty hearing the base unit user, decrease the base unit speaker volume by pressing **VOLUME** .
- If an incoming call is received, the intercom call stops and the unit starts to ring. To answer, press **TALK**, **DIGITAL SP-PHONE** or the relevant line button.

## Transferring a Call Using the Intercom

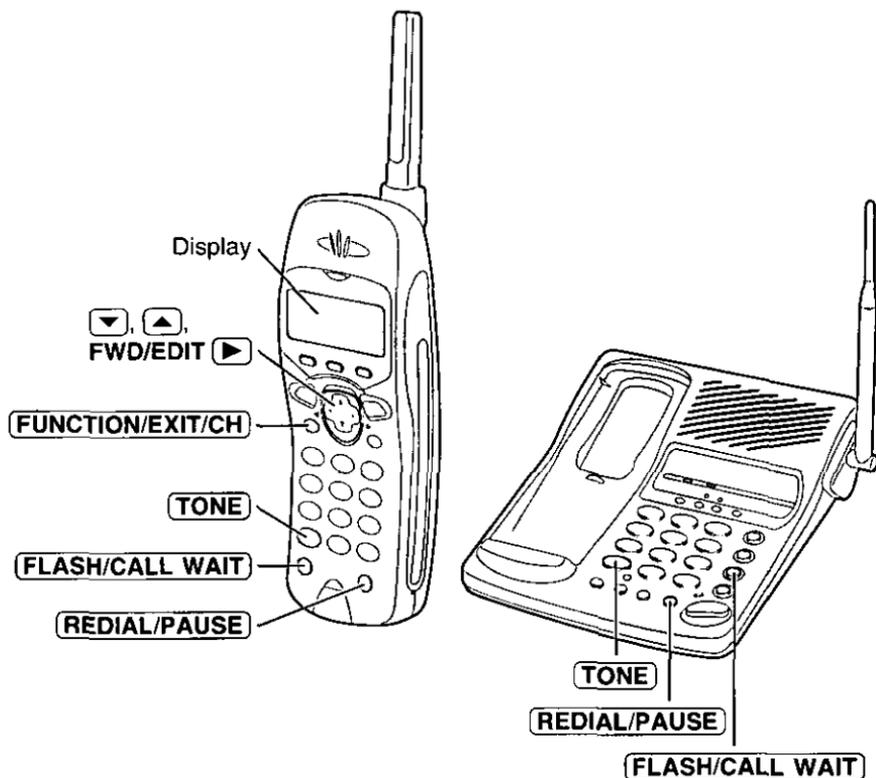
The intercom can be used during a call. This feature enables you to transfer a call between the handset and the base unit.

### From the handset to the base unit

- 1** Handset:  
During a call, press **INTERCOM/HOLD/CLEAR**.
  - The call is put on hold and "Hold" is displayed.
- 2** Handset:  
Press **INTERCOM/HOLD/CLEAR** again. Talk to the paged party after the beeps.
  - "Intercom hold" is displayed.
  - If the base unit user does not answer, press the line button whose status icon is flashing.
- 3** Base unit:  
When the paging party's voice is heard, answer using the **MIC**.
- 4** Base unit:  
To answer the call, press the line button whose indicator is flashing.
  - The transfer is complete.

### From the base unit to the handset

- 1** Base unit:  
During a call, press **LOCATOR/INTERCOM**.
  - The call is put on hold and "Paging Press INTERCOM" is displayed on the handset.
  - If the handset user does not answer, press the line button whose indicator is flashing.
- 2** Handset:  
Press **INTERCOM/HOLD/CLEAR** to answer the page.
  - "Intercom hold" is displayed.
- 3** Handset:  
To answer the call, press the line button whose status icon is flashing.
  - The transfer is complete.



## Automatic Security Code Setting

Each time you place the handset on the base unit, the unit automatically selects one of more than a million security codes. These codes help prevent the unauthorized use of your telephone line by another cordless telephone user.

## 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.
- Access numbers entered after pressing **TONE** will not be included when redialing.

## ► Special Features

---

### How to Use the PAUSE Button (For Analog PBX Line/Long Distance Service Users)

We recommend you press **REDIAL/PAUSE** if a pause is required for dialing with a PBX or to access a long distance service.

Ex. Line access number **9** (PBX)

**9** → **REDIAL/PAUSE** → Phone number

- Pressing **REDIAL/PAUSE** once creates a 3.5 second pause. This prevents misdialing when you redial or dial a stored number.
- Pressing **REDIAL/PAUSE** more than once increases the length of the pause between numbers.

### For Call Waiting Service Users

Press **FLASH/CALL WAIT** 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/CALL WAIT** again.
- The call waiting service cannot be used when you are having a conference call (p. 54).
- If this function does not operate properly, consult your telephone company for details.

### Call Waiting Caller ID Feature

Call Waiting Caller ID Feature allows your handset to display the second caller's information. After you hear a call-waiting tone while talking, the handset will display the called line, the caller's name with the phone number and "--- Waiting ----".

<b>47</b>
NANCY BROWN
1-000-222-3333 <b>1</b>
--- Waiting ----

- Please contact your telephone company for details and availability in your area.



## FLASH Button

Pressing **FLASH/CALL WAIT** allows you to use special features of your host PBX such as transferring an extension call or accessing special telephone services (optional) such as call waiting.

### Selecting the flash time

The flash time depends on your telephone exchange or host PBX. You can select the following flash times: "700, 600, 400, 300, 250, 110, 100 or 90 ms (milliseconds)". Your phone comes from the factory set to "700 ms".

**Make sure the unit is in the standby mode.**

1 Press **FUNCTION/EXIT/CH**.

2 Press or repeatedly until the arrow points to "Program".

```
Ringer volume
▶Program
▼▲ ▶=Yes
```

3 Press **FWD/EDIT** (Yes key).

4 Press or repeatedly until the arrow points to "Set flash time".

```
Save DIRECT#
▶Set flash time
▼▲ ▶=Yes
```

5 Press **FWD/EDIT** (Yes key).

```
Flash time
▼=Line1 ▲=Line2
```

6 Press (Line1) or (Line2) to select the desired line.

```
Flash time
Line1:700ms
▼▲ ▶=Save
```

7 Press or repeatedly until the desired time is displayed.

8 Press **FWD/EDIT** (Save key).

- A beep sounds.
- To program the other line, start again from step 4.
- To return to the standby mode, press **FUNCTION/EXIT/CH**.

- You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.
- If you are connected via a PBX, a longer flash time may be necessary to use PBX functions (transferring a call etc.). Consult your PBX supplier for the correct setting.

Advanced Operation

## ► Special Features

### Line Selection

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

**Make sure the unit is in the standby mode.**

1 Press **FUNCTION/EXIT/CH**.

2 Press  or  repeatedly until the arrow points to "Program".

```
Ringer volume
▶Program
▼▲ ▶=Yes
```

3 Press **FWD/EDIT**  (Yes key).

4 Press  or  repeatedly until the arrow points to "Line selection".

```
▶Line selection
Incoming call.
▼▲ ▶=Yes
```

5 Press **FWD/EDIT**  (Yes key).

- The current selection is displayed.

**Line1:** LINE 1 will be selected.

**Line2:** LINE 2 will be selected.

**Auto:** A free line will be selected (LINE 1 has priority) when making a call. The called line is automatically selected when answering a call (factory preset).

```
Line selection
:Auto
▼▲ ▶=Save
```

6 Press  or  repeatedly until the desired line selection is displayed.

```
Line selection
:Line2
▼▲ ▶=Save
```

7 Press **FWD/EDIT**  (Save key).

- A beep sounds.
- To return to the standby mode, press **FUNCTION/EXIT/CH**.

```
Line selection
:Line2
```

- You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.
- Any line can be selected manually, regardless of the mode selected in step 6, by pressing the line button.

## Incoming Call Tone

While one line is being used, you can be informed if another call arrives on the other line by two tones. This incoming call tone can be set/deleted by programming. Your phone comes from the factory set to "2".

**Make sure the unit is in the standby mode.**

1 Press **FUNCTION/EXIT/CH**.

2 Press **▼** or **▲** repeatedly until the arrow points to "Program".

```
Ringer volume
▶Program
▼▲                                     ▶=Yes
```

3 Press **FWD/EDIT** **▶** (Yes key).

4 Press **▼** or **▲** repeatedly until the arrow points to "Incoming call."

```
Line selection
▶Incoming call.
▼▲                                     ▶=Yes
```

5 Press **FWD/EDIT** **▶** (Yes key).

•The current setting is displayed.

**On:** The incoming call tone will be heard for as long as the other line rings.

**2:** The incoming call tone will only be heard 2 times (factory preset).

**Off:** The incoming call tone will not be heard.

```
Incoming call
tone:On
▼▲                                     ▶=Save
```

6 Press **▼** or **▲** repeatedly until the desired setting is displayed.

```
Incoming call
tone:2
▼▲                                     ▶=Save
```

7 Press **FWD/EDIT** **▶** (Save key).

•A beep sounds.

•To return to the standby mode, press **FUNCTION/EXIT/CH**.

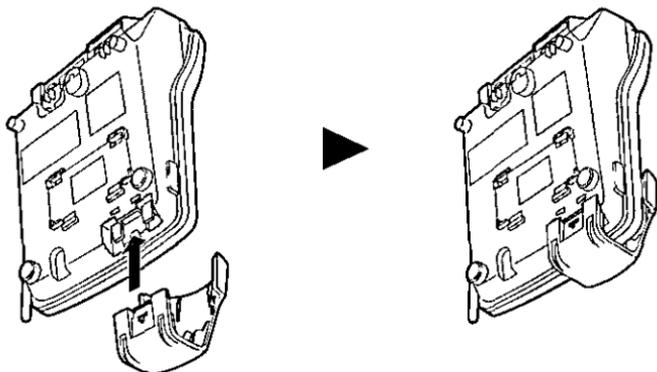
```
Incoming call
tone:2
```

•You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.

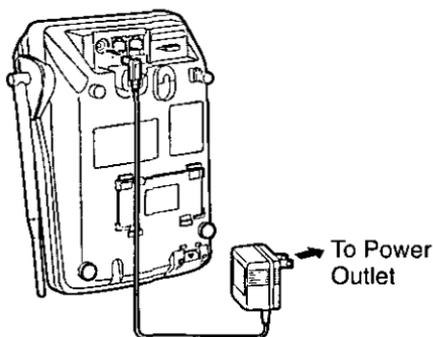
# Wall Mounting

This unit can be mounted on a wall phone plate.

- 1 Set the handset holder as shown.

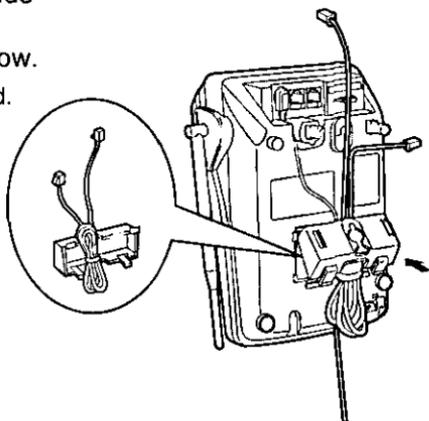


- 2 Connect the AC adaptor.



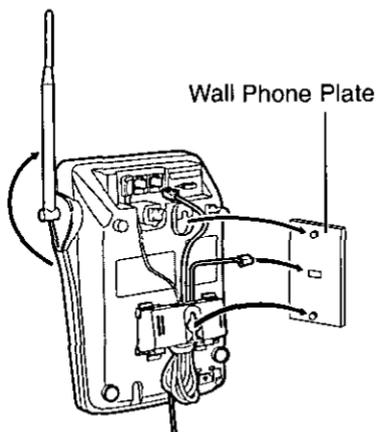
- 3 Tuck the telephone line cord inside the wall mounting adaptor, then push it in the direction of the arrow.

- The word "UP" should face upward.



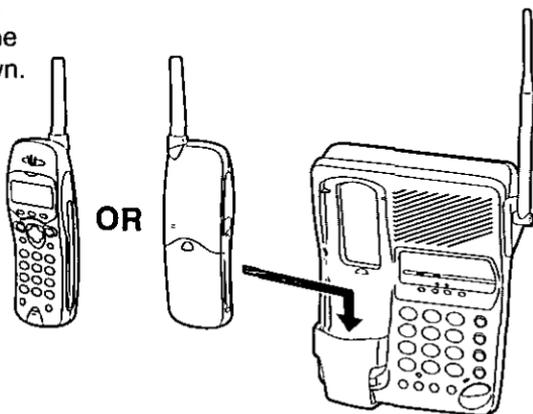
- 4** Connect the telephone line cord.  
Mount the unit, then slide down.

- Raise the antenna.



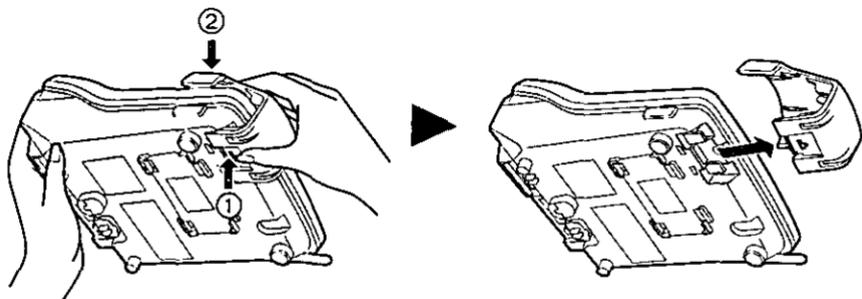
- 5** **To charge the battery:**  
Place the handset on the handset holder as shown.

- The IN USE/CHARGE indicator lights.



### To remove the handset holder

While pressing the arrow (①) and opposite side (②) of the holder, pull out the handset holder.

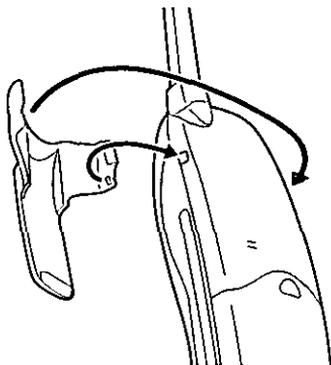


# Using the Belt Clip

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You can hang the handset on your belt or pocket using the belt clip.

## To attach the belt clip



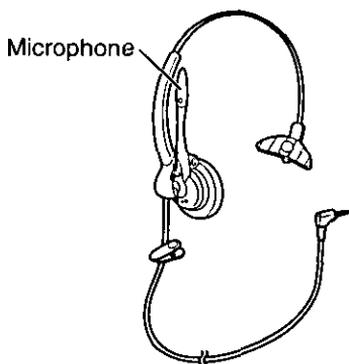
## To remove the belt clip



# Using an Optional Headset

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Plugging the headset into the handset allows a hands-free phone conversation.



Please use only a Panasonic KX-TCA87 or KX-TCA90 headset.

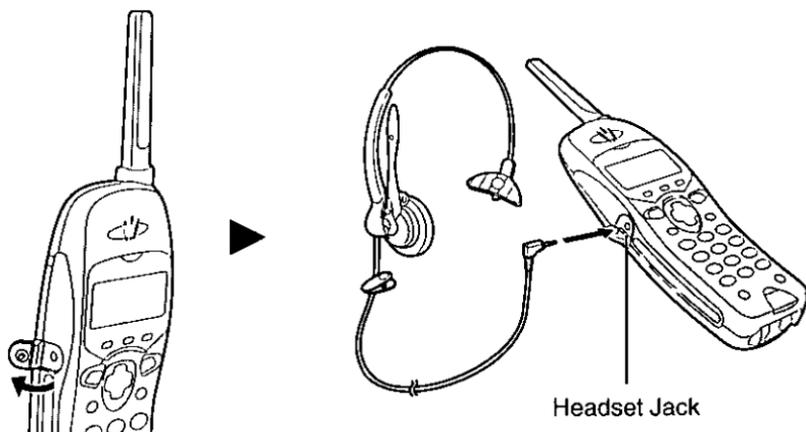
For headset order and information, call the accessories telephone number on page 2.

The illustration headset is a KX-TCA90.

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## Connecting an optional headset to the handset

Open the headset jack cover, and connect the optional headset to the headset jack as shown below



When an optional headset is connected to the handset, make sure to use the headset to talk with the caller. If you want to have a normal cordless phone conversation, disconnect the headset.

## How to wear the headset

- 1 Place the headset on your head and attach the clothing clip to the desired position
- 2 Adjust the microphone to a comfortable position
  - Place the microphone near your mouth

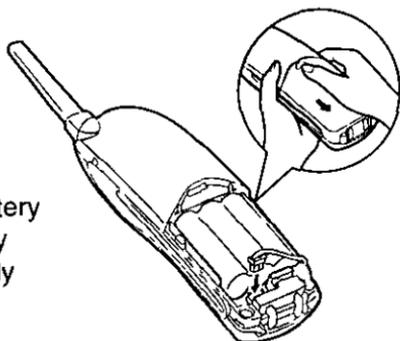


# Battery Replacement

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If "Recharge battery" is displayed and/or "[ ■ ]" flashes after being fully charged, replace the battery with a new Panasonic P-P508 battery. To order, call the accessories telephone number on page 2.

- 1 Press the notch on the battery cover firmly and slide it as indicated by the arrow
- 2 Replace the battery and close the cover
- 3 Make sure you charge the new battery for about 6 hours in order to display the battery strength prompt correctly (p 14)



## Attention

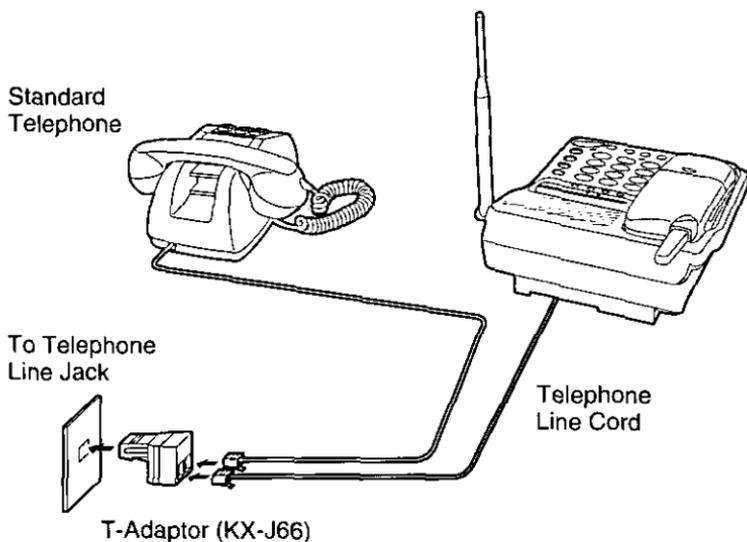
The product you have purchased is powered by a nickel cadmium battery which is recyclable. At the end of its useful life, under various state and local laws, it is illegal to dispose of this battery into your municipal waste stream. Please call 1-800-8-BATTERY for information on how to recycle this battery.



# Adding Another Phone

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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 the accessories telephone number on page 2.



# Before Requesting Help

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Problem	Cause and Remedy
"No link to base. Place on cradle and try again." is displayed and an alarm tone sounds.	<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>● Raise the base unit antenna.</li></ul>
The unit does not work.	<ul style="list-style-type: none"><li>● Check the settings (p. 11–17).</li><li>● Charge the battery fully (p. 14).</li><li>● Clean the charge contacts and charge again (p. 15).</li><li>● Install the battery properly (p. 14, 66).</li><li>● Place the handset on the base unit and unplug the AC adaptor to reset. Plug in, and 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>● Raise the base unit antenna.</li><li>● Press <b>FUNCTION/EXIT/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 set to OFF. Select the ringer volume again (p. 20).</li></ul>
The base unit does not ring.	<ul style="list-style-type: none"><li>● The ringer volume is set to OFF. Press <b>RINGER</b> then the line button while the unit is in the standby mode (p. 21).</li></ul>
The line status icons and/or indicators do not work properly.	<ul style="list-style-type: none"><li>● Check the settings (p. 11–17).</li><li>● The line mode selection is incorrect. See page 17.</li></ul>
The display is blank.	<ul style="list-style-type: none"><li>● The handset is in the standby mode (p. 15). Press , , <b>BACK</b>  or <b>FWD/EDIT</b>  to turn the display on.</li></ul>



Problem	Cause and Remedy
The display is still blank after pressing <b>▼</b> , <b>▲</b> , <b>BACK</b> <b>◀</b> or <b>FWD/EDIT</b> <b>▶</b> .	● Charge the battery fully (p. 14).
Speech is cut off in places during a conversation using the speakerphone.	● If another call is received on the other line, the conversation will be interrupted in order to receive the Caller ID information.
You cannot program items such as the dialing mode.	● Programming is not possible while the unit is in the talk or speakerphone mode or when viewing the Caller List/directory list. ● Do not pause for over 60 seconds while programming. ● Move closer to the base unit.
Previously programmed information is erased.	● If a power failure occurs, programmed information may be erased. Reprogram if necessary.
You cannot store a name and phone number in the directory.	● You cannot store an item in the directory while the unit is in the talk or intercom mode. ● Do not pause for over 60 seconds while storing.
While programming or searching, the unit starts to ring and stops the program/search.	● To answer the call, press <b>TALK</b> , <b>DIGITAL SP-PHONE</b> or the relevant line button. Start again from the beginning after hanging up.
During a conversation, the other line status icon/indicator flashes quickly and the display shows another caller's information.	● Someone is calling you on the other line. To answer, press <b>INTERCOM/HOLD/CLEAR</b> or <b>HOLD</b> to put the current call on hold. Press the line button on the handset whose status icon is flashing <b>quickly</b> or the line button on the base unit whose indicator is flashing <b>quickly</b> (p. 53).

## ► Before Requesting Help

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Problem	Cause and Remedy
The unit does not display the caller's name and/or phone number.	<ul style="list-style-type: none"><li>• You do not subscribe to a Caller ID service.</li><li>• Other telephone equipment may be interfering with your phone. Disconnect it and try again.</li><li>• Other electrical appliances connected to the same outlet may be affecting the Caller ID information.</li><li>• Telephone line noise may be affecting the Caller ID information.</li></ul>
A call was received, but the caller's information was not stored in the Caller List.	<ul style="list-style-type: none"><li>• If you receive two calls at the same time, only one of the caller's information can be stored.</li></ul>
The display returns to the standby mode while viewing the Caller List.	<ul style="list-style-type: none"><li>• Do not pause for over 60 seconds while searching.</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.</li><li>• The handset is engaged in an outside call or viewing the Caller List/directory list. Wait until the IN USE/CHARGE indicator light goes out.</li></ul>
<b>REDIAL/PAUSE</b> does not function properly.	<ul style="list-style-type: none"><li>• The button has a double function as either redial or pause. It will redial the last number dialed if pressed at the outset of a call (p. 23). If another number has been dialed first, it will operate as a pause button (p. 58).</li></ul>
You cannot redial by pressing <b>REDIAL/PAUSE</b> .	<ul style="list-style-type: none"><li>• If the last number dialed was more than 32 digits long, the number will not be redialed correctly.</li><li>• Access numbers entered after pressing <b>TONE</b> will not be included when redialing (p. 57).</li></ul>

Problem	Cause and Remedy
"Recharge battery" is displayed, "{ ■}" flashes or the unit beeps intermittently.	<ul style="list-style-type: none"> <li>● Charge the battery fully (p. 14).</li> </ul>
You charged the battery fully, but "Recharge battery" is still displayed and/or "{ ■}" continues to flash.	<ul style="list-style-type: none"> <li>● Clean the charge contacts and charge again (p. 15).</li> <li>● Install a new battery (p. 66).</li> </ul>
The IN USE/CHARGE indicator light does not go out while charging.	<ul style="list-style-type: none"> <li>● This is normal.</li> </ul>
You cannot have a conversation using the headset.	<ul style="list-style-type: none"> <li>● When an optional headset is connected (p. 65), you must use the headset to talk with the caller. To have a normal cordless phone conversation, disconnect the headset.</li> </ul>
You cannot have a conversation using the headset.	<ul style="list-style-type: none"> <li>● Make sure that an optional headset is connected properly (p. 65).</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> <li>● Panasonic's e-mail address for customer inquiries: consumerproducts@panasonic.com for customers in the USA or Puerto Rico ONLY</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.
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.

## SAVE THESE INSTRUCTIONS

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## **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
- 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

- The AC adaptor is used as the main disconnect device, ensure that the AC outlet is located/installed near the unit and is easily accessible

# 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 . . . . . 0.2B  
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.

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

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**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 a room 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.
- **Medical**—consult the manufacturer of any personal medical devices, such as pacemakers, to determine if they are adequately shielded from external RF (radio frequency) energy. (The unit operates in the frequency range of 905MHz to 925MHz and the power output level can range from 0.001 watts to 0.1 watts.) Do not use the unit in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF (radio frequency) energy.
- **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 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.
- Panasonic's e-mail address for customer inquiries:  
consumerproducts@panasonic.com  
for customers in the USA or Puerto Rico ONLY

## 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