

# Panasonic

2.4GHz Multi-Handset Cordless Phone System

Model No. **KX-TG1050N**

Pulse-or-tone dialing capability

## Operating Instructions



Caller ID Compatible

**PLEASE READ BEFORE USE AND SAVE.**

Charge the battery for about 12 hours before initial use.

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

Preparation

Cordless Telephone

Answering System

Useful Information

# Before Initial Use

Please read **IMPORTANT SAFETY INSTRUCTIONS** on page 84 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 \_\_\_\_\_  
(found on the bottom of the unit)

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

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

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

- AC Adaptor (p 11)  
Order No. PQWATG1000N



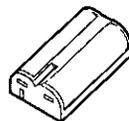
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- Telephone Line Cord  
(p 11)



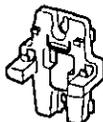
one

- Battery (p 12, 74)  
Order No. PQWBTG1000N



one

- Wall Mounting Adaptor (p 72)  
Order No. PQZMTG1000N



one

- Belt Clip (p 71)  
Order No. PQZHTG1000N



one

- Handset Cover (p 12)  
Order No. PQYNTG1000N



one

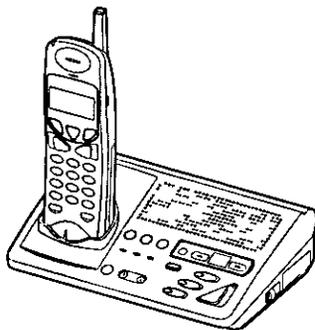
To use more than one handsets, please purchase the optional handset KX-TGA100N. The charger is included. To order, contact your dealer or call 1-800-211-PANA(7262) to locate a dealer.

# For Best Performance

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## Battery Charge

A rechargeable Nickel-Metal Hydride (Ni-MH) battery powers the handset. Charge the battery for about **12 hours** before initial use (p 12)

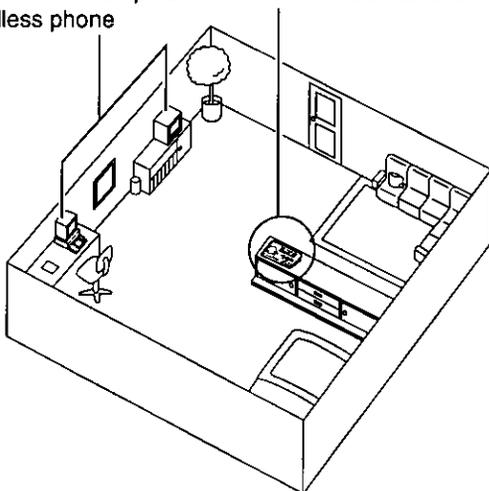


## Base Unit Location/Noise

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



### Note

While using the handset

- If you are near a microwave oven which is being used, noise may be heard from the receiver or the speaker. Move away from the microwave oven and closer to the base unit.
- If 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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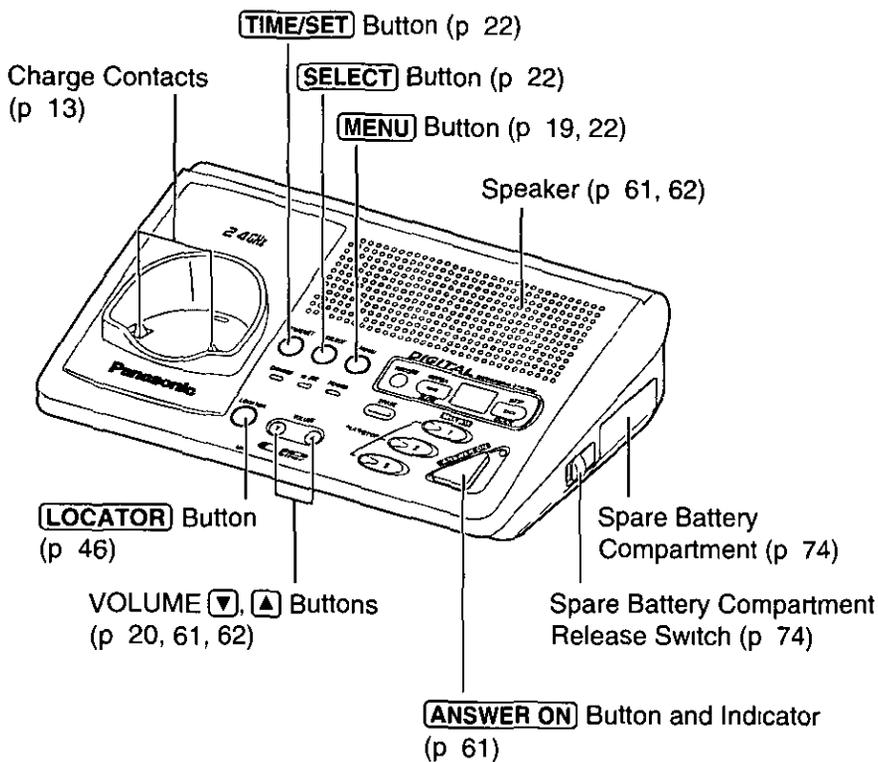
## ***Useful Information***

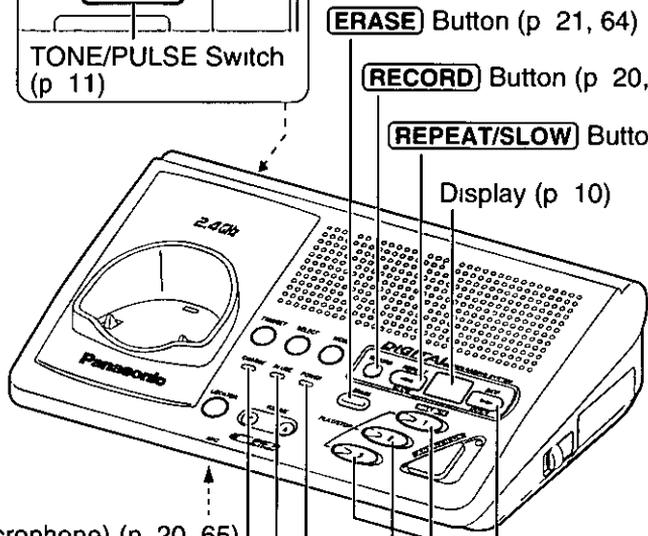
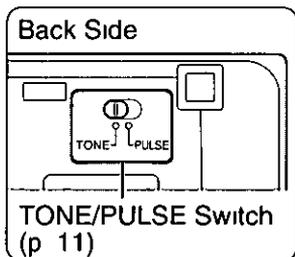
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# Location of Controls

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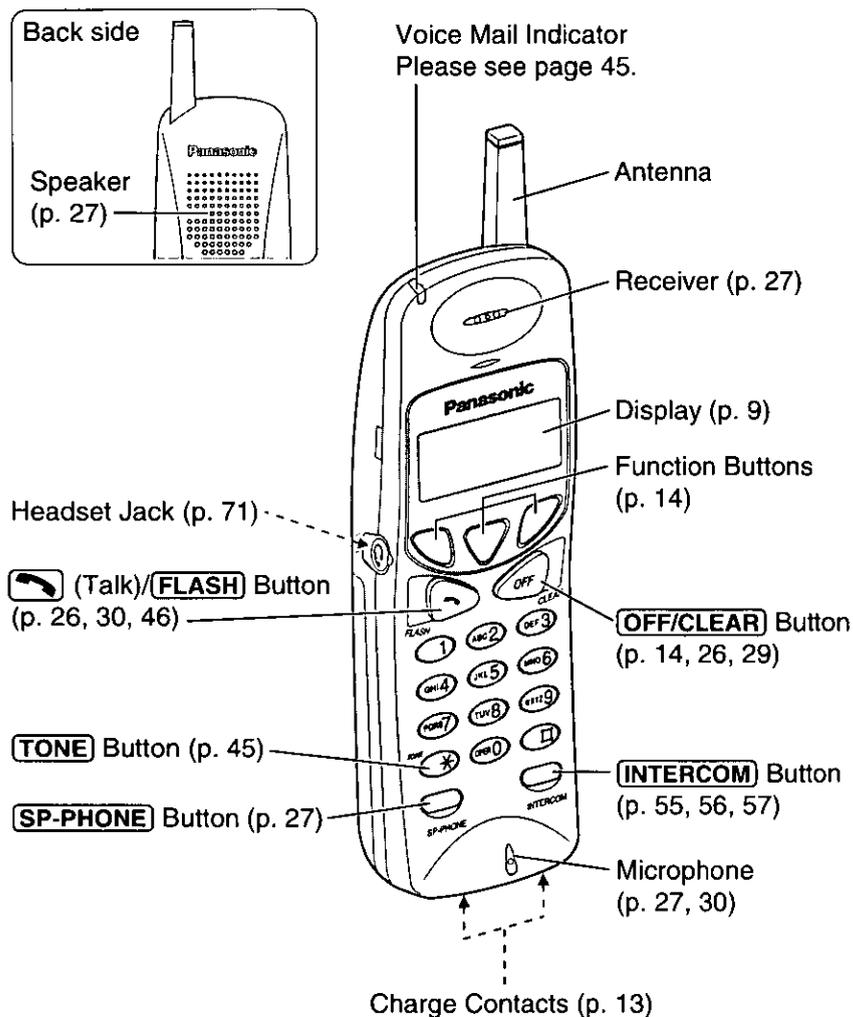
## Base unit





## ➔ Location of Controls

### Handset

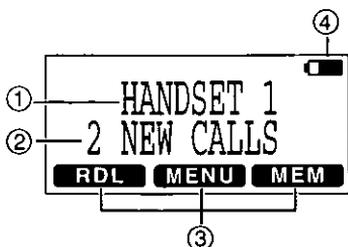




## Handset

### Standby mode

While the unit is not in use, the display will be shown as follows.



- ① The registered handset number (1 to 4) is displayed (p. 53).  
— The included handset is pre-registered at the factory and assigned the handset number 1.
- ② The number of new Caller ID calls are displayed if you subscribe to a Caller ID service (p. 32).  
— If there is no call received or after viewing the calls, new call counter will disappear.
- ③ You can select a function item from the menu by using the Function buttons (p. 14, 15).
- ④ The battery icon indicates the battery strength (p. 13).

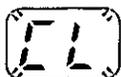
### Handset icons

	The talk icon with the unit number which is engaged in an external call is displayed. (Ex. Handset 1 is on an external call.)
	The unit numbers which are engaged in an external call are displayed. Ex. Handset 1 & Handset 2 are on an external call.
	It flashes when an external call is being received.
	The intercom icon with the unit numbers indicates which unit is currently on an intercom call. Ex. Handset 1 & Handset 4 are on an intercom call.
	It flashes when the handset is being paged.
	The battery icon indicates the battery strength. It cycles (Low, Medium and High) while charging the handset battery.
	The handset registration icon is displayed when the handset is not registered or you are too far from the base unit.
	The hold icon is displayed when the line is on hold.
	The mute icon is displayed when the handset micoperation is muted.
	Menu scroll bar shows relative location of selected item within the list.
	The extender icon indicates the handset is operating in range extender mode.

## ➔ Displays

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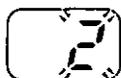
### Base unit



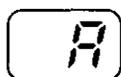
It flashes when the clock needs to be set (p 22)



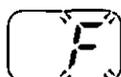
You have no new messages



It flashes when 2 new messages have been recorded



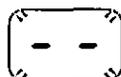
Answering system is in Announce Only mode (p 24)



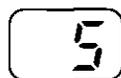
It flashes when the memory is full  
Erase some or all of the messages (p 64)



Answering system is answering a call or in remote mode (p 66)



It flashes when the answering system is in programming mode (p 19)

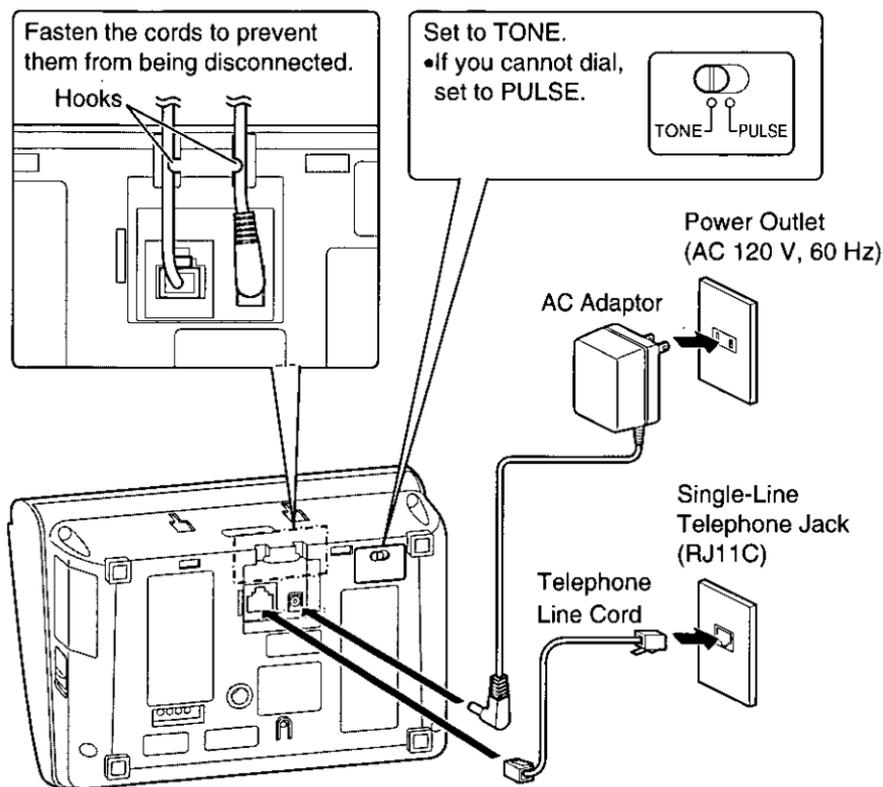


The speaker volume level (1–8) is set to "5" (p 62)

# Settings



## Connections

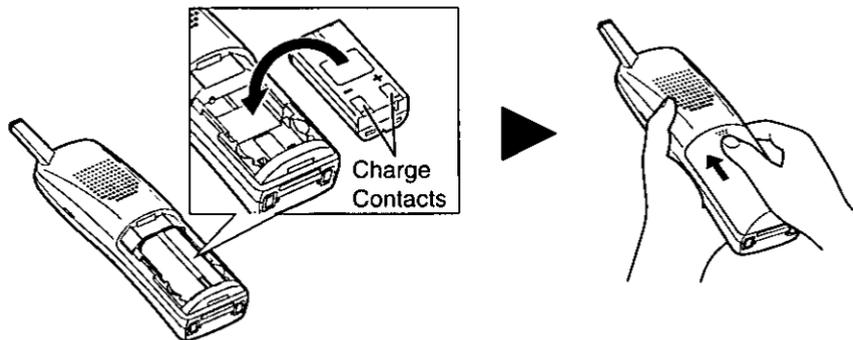


- USE ONLY WITH Panasonic AC ADAPTOR PQWATG1000N.
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- The POWER indicator lights while the AC adaptor is connected (This is normal).
- To connect a standard telephone on the same line, see page 76.
- If your unit is connected to a PBX which does not support Caller ID and voice mail services, you cannot access those services.

## ➔ Settings

### Installing the Battery in the Handset

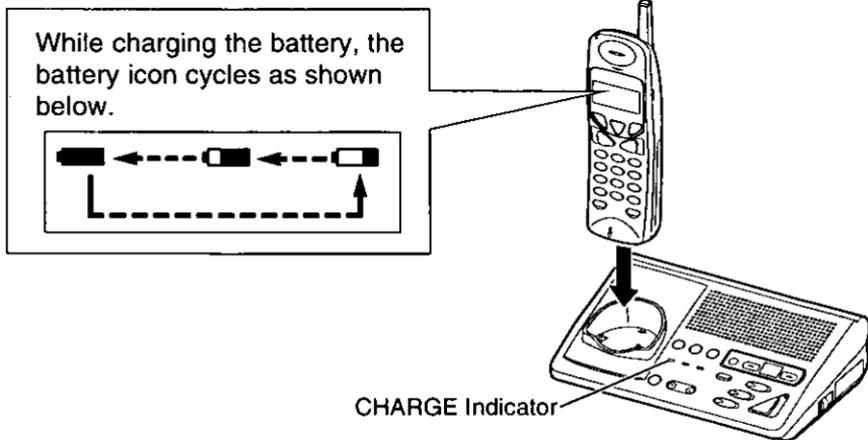
Install the battery in the handset with the charge contacts facing down and close the handset cover, locking it into place.



### Battery Charge

Place the handset on the base unit and charge for about **12 hours** before initial use.

- The CHARGE indicator lights.



## Battery strength

You can check the battery strength on the handset display

The battery strength is as shown in the chart below

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

## Recharge

Recharge the battery when

- “LOW BATTERY” is displayed, or
- “” flashes on the display



## Battery information

After your Panasonic battery is fully charged (p 12)

Operation	Approx. battery life
While in use (TALK)	Up to 10 hours*
While not in use (Standby)	Up to 5 5 days

\*In case the Range Extender Mode is set to “OFF” (p 47)

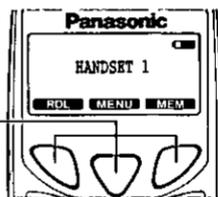
- Battery life may be shortened depending on usage conditions and ambient temperature
- Clean the handset and the base unit charge contacts with a soft, dry cloth once a month. Clean more often if the unit is subject to grease, dust or high humidity.** Otherwise the battery may not charge properly
-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

# Programmable Functions

## Programming Guidelines

This unit has an advanced design that uses a menu structure and function buttons to access all of the built in features.

Function buttons activate instructions that appear above on the display.



## How to select a function item from the menu

1 Press (MENU).

- The main menu is displayed.



2 Scroll through the menu by (▼) or (▲) pressing to select the desired item.



3 Press (OK).

- If the selected item has a sub-menu, it will be displayed.



4 Select the desired sub-menu item by pressing (▼) or (▲) then press (OK).



5 Select the desired setting.

6 When programming is completed, the display will return to the sub-menu (if the function item is in the sub-menu). You can continue programming other items. To return to the standby mode, press and hold **OFF/CLEAR**.

### During programming:

Press (▼) or (▲) repeatedly to select the desired function item. Then press (OK) to go to the next step.

- You can go back to the previous display by pressing **OFF/CLEAR** except when entering characters or numbers. To return to the main menu from the sub-menu, press **OFF/CLEAR**.
- You can exit the programming mode any time by pressing and holding **OFF/CLEAR**.
- If you do not press any buttons for 10 seconds, the unit will return to the standby mode.



# Function Menu Table

You can program the following function items. The display shows the programming instructions.

See the corresponding pages for function details.

**Make sure the handset is in the standby mode initially.**

<Standby mode>

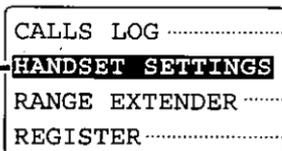


**RDL** : To view the Redial List (p. 28).  
(Redial)

**MEM** : To use the Phonebook (p. 39).  
(Memory)

Press (**MENU**).

<Main menu>



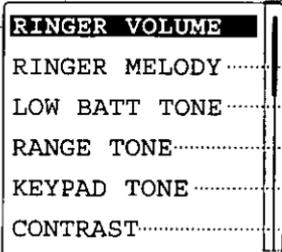
.....To view the Caller List (p. 33).

.....To select the range extender mode (p. 47).

.....To re-register the handset (p. 54).

Press (**OK**).

<Handset settings menu>



.....To select the ringer volume (p. 16).

.....To select the ringer melody (p. 48).

.....To set the low battery warning tone (p. 49).

.....To set the out of range warning tone (p. 50).

.....To set the keypad tone (p. 51).

.....To select the LCD contrast (p. 18).

Press (**←**).

Menu scroll bar shows the relative location of the selected item within the list. (Ex. While Viewing the Caller List or phonebook item etc.)

## ➔ Programmable Functions

### Selecting the Ringer Volume

You can program the desired handset/base unit ringer volume.  
**Make sure the unit is in the standby mode initially.**

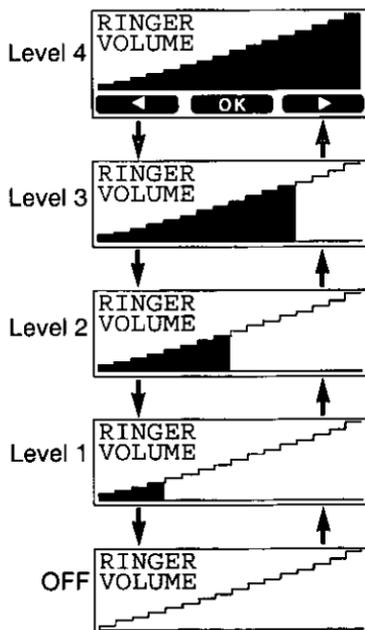
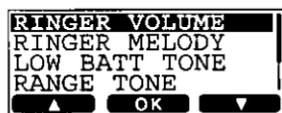
#### With the handset

5 levels are available. Your phone comes from the factory set to level 2.  
When set to OFF, the handset will not ring.

- 1 Press (MENU).
- 2 Press (▼) or (▲) to select "HANDSET SETTINGS", and press (OK).
- 3 Press (▼) or (▲) to select "RINGER VOLUME", and press (OK).
- 4 Press (▶) to increase or press (◀) to decrease the volume.
  - The selected volume is displayed and rings.
  - To turn the ringer OFF, erase "■" all by pressing (◀).
- 5 Press (OK).
  - A beep sounds.
  - The display will return to the handset settings menu.
  - After 10 seconds, the display will return to the standby mode.

**To turn the ringer ON,**  
press (▶) in step 4.

- The ringer will sound at level 1.



- You can exit the programming mode any time by pressing and holding **OFF/CLEAR**.

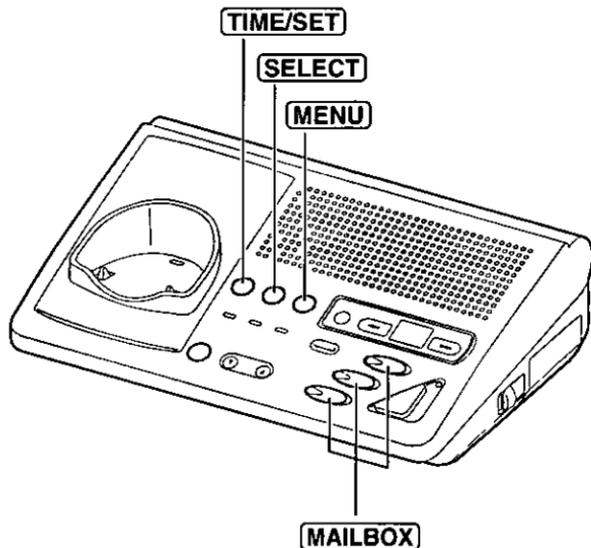


## With the base unit

You can set the base unit ringer volume to ON or OFF

Your phone comes from the factory set to ON

When set to OFF, the base unit will not ring



### To turn the ringer OFF or ON.

- 1 Press **MENU** until you hear "Set Base Ringer"
- 2 Press **SELECT** until the desired setting (ON or OFF) is announced
- 3 Press **TIME/SET**
  - The unit announces the current setting
  - After 20 seconds, the display will return to the standby mode

- You can exit the programming mode any time by pressing any **MAILBOX** (1 to 3)
- There is no volume level for the base unit ringer. The ringer volume can only be set to ON or OFF

## ➔ Programmable Functions

### Selecting the LCD Contrast

You can select the handset LCD contrast level 1 to 16 by programming. Your phone comes from the factory set to level 9.

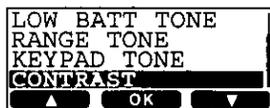
**Make sure the handset is in the standby mode initially.**

1 Press (MENU)

2 Press (◀) or (▶) to select "HANDSET SETTINGS", and press (OK)

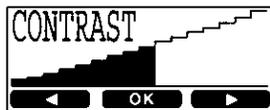


3 Press (◀) or (▶) to select "CONTRAST", and press (OK)



4 Press (▶) or (◀) to select the desired LCD contrast level

- Each time you press (▶) or (◀), the LCD contrast will change
- If you select the minimum/maximum LCD contrast level, the display will become unsatisfactory to view. To make the display clearer, press (▶) or (◀)



5 Press (OK)

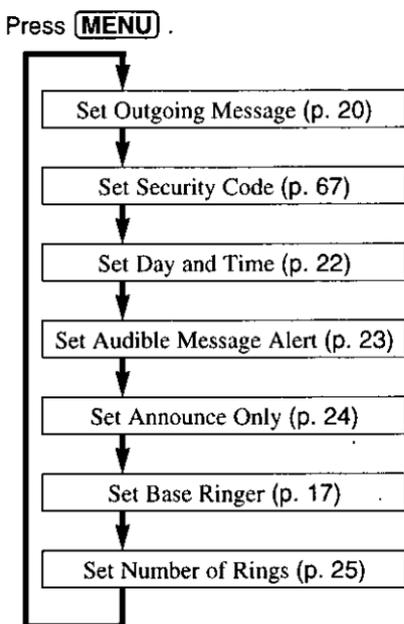
- A beep sounds
- The display will return to the handset settings menu
- After 10 seconds, the display will return to the standby mode

•You can exit the programming mode any time by pressing and holding (OFF/CLEAR)

# Preparing the Answering System

## Programming Guidelines

You can program the following functions using the base unit. By pressing **MENU** repeatedly, programming items are announced. **Make sure the base unit is in the standby mode initially.**



- During programming, the display will flash “- -”.
- If you do not press any buttons for 20 seconds, the beep tone sounds and the unit will return to the standby mode.
- You can exit the programming mode any time by pressing any **MAILBOX** (1 to 3).

## ➔ Preparing the Answering System

### Outgoing Message

There are two types of outgoing messages, and the personal outgoing message (up to 90 seconds for each) can be recorded for each type.

#### Normal outgoing message mode (Announce Only: Off):

The caller can leave the message after the outgoing message.

#### Announce Only mode:

The caller cannot leave the message.

Your phone comes from the factory set to "Announce Only: Off".

To record an outgoing message for Announce Only mode, select the Announce Only mode first (p. 24) and then record the message.

- If a personal outgoing message is not recorded, the pre-recorded message will be played when a call is received (p. 21).
- In Announce Only mode, the outgoing message is repeated for the caller, and the line will be automatically disconnected after a beep.

All messages (outgoing, incoming, etc.) are saved until you erase them, and the messages will be retained even after a power failure.

**The total recording time is about 15 minutes.**

### To record a personal outgoing message

1 Press **MENU** until you hear "Set Outgoing Message".

2 Press **RECORD**.  
• "Now recording" is heard, followed by a beep.

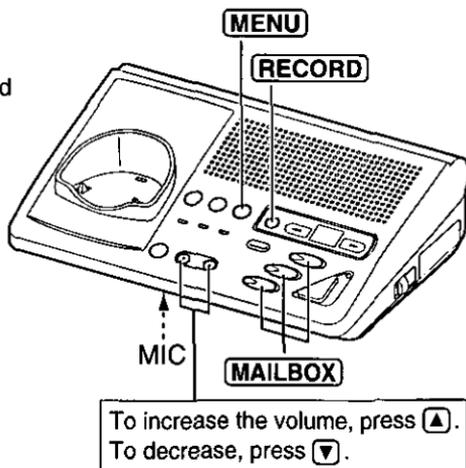
3 Speak clearly, about 8 inches (20 cm) away from the **MIC** (microphone).

- The base unit display shows the elapsed recording time.
- If you record for over 90 seconds, the unit will automatically stop recording.

4 When finished, press any **MAILBOX** (1 to 3).

- The recorded message will be played back.

- If your recording time is less than 2 seconds, your outgoing message will not be recorded, and the pre-recorded message will be used.





### Personal outgoing message sample

- While in normal outgoing message mode:  
"Hi! We can't come to the phone right now. If you have a message for John press \* 1 ('Star 1'), for Jane press \* 2 ('Star 2'), for Jack press \* 3 ('Star 3'). Or, just stay on the line and record after the beep. Thank you."
- While in Announce Only mode:  
"Hi! You have reached Jack and Jill. We will be back after 1 p.m. Please call back then. Thank you."

### To check the recorded outgoing message

1. Press **[MENU]** until you hear "Set Outgoing Message".
2. Press any **[MAILBOX]** (1 to 3).
  - The current outgoing message is played.

### To erase the recorded personal outgoing message

1. Press **[MENU]** until you hear "Set Outgoing Message".
2. Press any **[MAILBOX]** (1 to 3).
  - The current outgoing message is played.
3. Press **[ERASE]**, while the message is being played.
  - "Outgoing Message has been erased" is heard.

### Pre-recorded outgoing message

If you do not record an outgoing message (p. 20), one of two messages will be played when a call is received, depending on the outgoing message type (p. 20).

**To check the pre-recorded message**, follow the steps of "To check the recorded outgoing message" above.

A pre-recorded message will be played as follows:

- While in Normal Outgoing Message mode:  
"Hello, I'm unable to answer your call right now. Please leave your name, number and message after the tone."
- While in Announce Only mode:  
"Hello, I'm unable to answer your call right now. Please call again. Thank you."

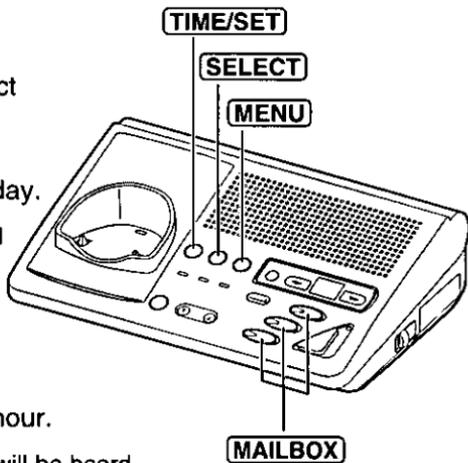
## ➔ Preparing the Answering System

### Day and Time Adjustment

Your phone comes from the factory set to "Monday, 12:00 a.m.". "CL" will flash on the base unit display to indicate the day and time need to be set.

**Voice Time/Day Stamp:** During playback, a synthesized voice will announce the day and time that each message was recorded.

- 1 Press **MENU** until you hear "Set Day and Time".
  - 2 Press **SELECT** until the correct day is announced.
  - 3 Press **TIME/SET** to store the day.
    - The previously adjusted hour will be heard.
  - 4 Press **SELECT** until the correct hour is announced.
  - 5 Press **TIME/SET** to store the hour.
    - The previously adjusted minute will be heard.
  - 6 Press **SELECT** until the correct minute is announced.
    - Holding the button continuously will increase the minutes by 10-minute steps.
  - 7 Press **TIME/SET** to store the minute.
    - The unit announces the day and time.
    - After 20 seconds, the display will return to the standby mode.
- You can exit the programming mode any time by pressing any **MAILBOX** (1 to 3).



If a power failure occurs, the adjusted day/time will be erased. Readjust the day/time.

### To check the current day and time

Press **TIME/SET**.

- The unit announces the current day and time.

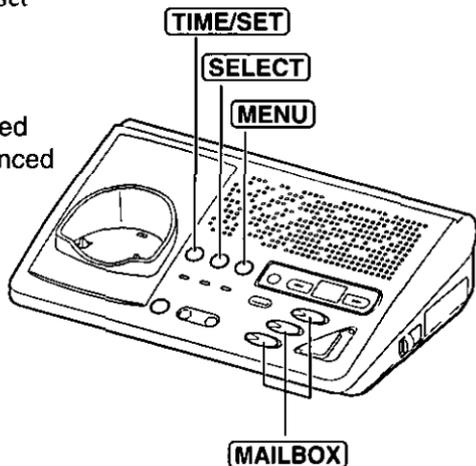


## Setting the Audible Message Alert

You can set your unit to beep once every 10 seconds to notify you when new messages have been received

Your phone comes from the factory set to OFF

- 1 Press **MENU** until you hear "Set Audible Message Alert"
- 2 Press **SELECT** until the desired setting (ON or OFF) is announced
- 3 Press **TIME/SET**
  - The unit announces the current setting
  - After 20 seconds, the display will return to the standby mode



- You can exit the programming mode any time by pressing any **MAILBOX** (1 to 3)

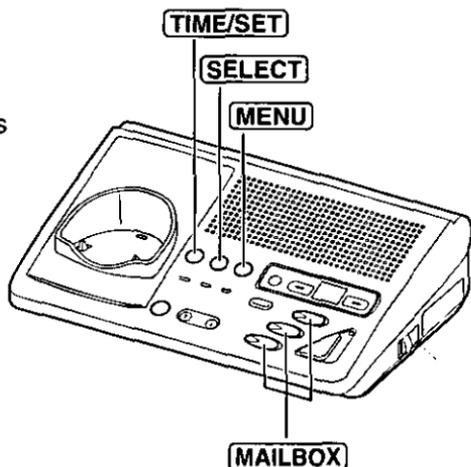
## ➔ Preparing the Answering System

### Selecting the Announce Only Mode

You can set your unit to Announce Only mode.  
Your phone comes from the factory set to OFF.

**CAUTION:** If you select the Announce Only mode, your callers cannot leave a message after the outgoing message.

- 1 Press **MENU** until you hear "Set Announce Only".
- 2 Press **SELECT** until the desired setting (ON or OFF) is announced.
- 3 Press **TIME/SET**.
  - The unit announces the current setting.
  - After 20 seconds, the display will return to the standby mode.



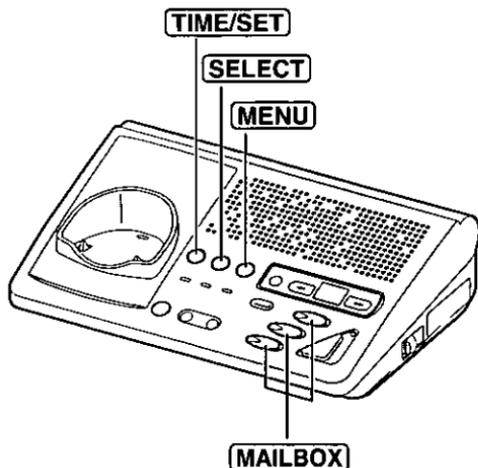
- You can exit the programming mode any time by pressing any **MAILBOX** (1 to 3).
- When Announce Only mode is set to ON, "A" is displayed on the base unit.

## Selecting the Number of Rings

You can select the number of times the unit rings before the answering system answers a call, from "2", "4", "6" or "Toll saver"

Your phone comes from the factory set to "4"

- 1 Press **MENU** until you hear "Set Number of Rings"
- 2 Press **SELECT** until the desired setting (2, 4, 6 or Toll saver) is announced
- 3 Press **TIME/SET**
  - The unit announces the current setting
  - After 20 seconds, the display will return to the standby mode



- You can exit the programming mode any time by pressing any **MAILBOX** (1 to 3)

### \*Toll saver

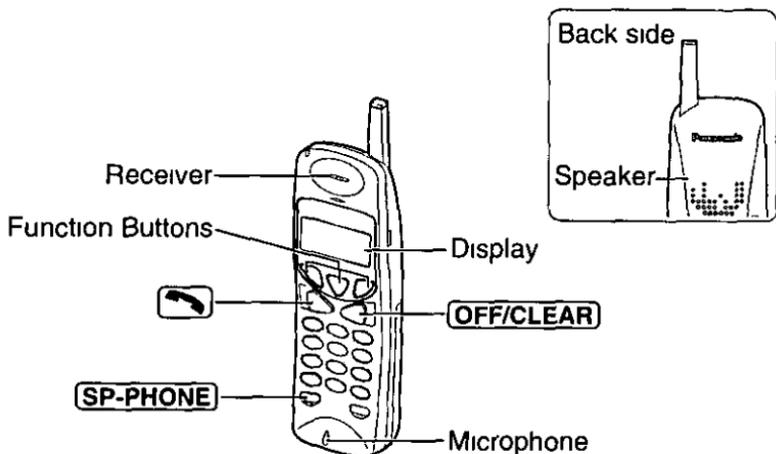
When you call the unit from a touch tone telephone to check the message using remote operation

If the unit answers on the 2nd ring, there is at least one new message

If the unit answers on the 4th ring, there are no new messages

**Hang up when you hear the 3rd ring.** This will save you the toll charge for the call

# Making Calls



1 Press 



2 Dial a phone number  
•The dialed number is displayed



3 To hang up, press **OFF/CLEAR** or place the handset on the base unit

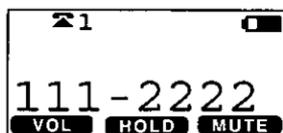
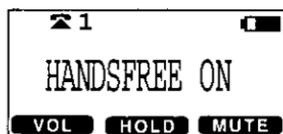


- While the handset is in use, the IN USE indicator on the base unit lights
- If "SEARCHING FOR BASE" and an alarm tone sounds in step 1, move closer to the base unit, and try again
- If "LINE IN USE" is displayed, another handset is engaged in an external call. Wait until "LINE IN USE" disappears
- While talking with receiver, you can switch to the hands-free phone conversation by pressing **SP-PHONE**



## To have a hands-free phone conversation

- 1 Press **SP-PHONE**.
- 2 Dial a phone number.
  - The dialed number is displayed.
- 3 When the other party answers, talk into the microphone.
- 4 To hang up, press **OFF/CLEAR** or place the handset on the base unit.
  - "PHONE OFF" is displayed.



### Hands-free Speakerphone

For best performance, please note the following:

- Talk alternately with the caller in a quiet room.
- If the other party has difficulty hearing you, press (**VOL**) → press (**OK**) to increase the speaker volume → press (**OK**) to decrease the speaker volume → press (**OK**).
- If the other party's voice from the speaker cuts in/out during a conversation, press (**VOL**) → (**OK**) to decrease the speaker volume → press (**OK**).
- You can switch to the receiver by pressing **SP-PHONE**.

## To adjust the receiver/speaker volume (5 levels) while talking

- 1 Press (**VOL**) while talking.
- 2 To increase, press (**OK**) .  
To decrease press (**OK**) .
- 3 Press (**OK**) .



## ➔ Making Calls

### To redial the last number dialed on the handset

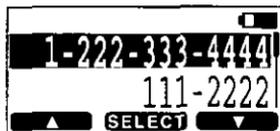
Press  (**REDIAL**) ➔  or **SP-PHONE**

- The last number dialed is automatically dialed

### To redial using the redial list

The last 5 numbers dialed with the handset are stored in the redial list

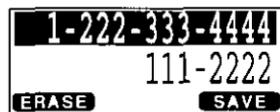
- 1 Press  (**REDIAL**)
  - The last number dialed is displayed
- 2 Press  (**◀**) or  (**▶**) to highlight the desired number
  - To exit the list, press **OFF/CLEAR**
- 3 Press  or **SP-PHONE**



- If "REDIAL LIST IS EMPTY" is displayed in step 1, the redial list is not available

### To store a redial number in the phonebook

- 1 While the desired number is highlighted, press  (**SELECT**)
- 2 Press  (**SAVE**)
- 3 Enter a name, up to 16 characters using the dialing buttons (p 40)
- 4 Press  (**SAVE**)
  - "ENTRY HAS BEEN STORED" will be displayed
  - After 10 seconds, the display will return to the standby mode



- To erase an item from the redial list, press  (**ERASE**) after performing step 1
- If the display shows "PHONEBOOK IS FULL" in step 2, press and hold **OFF/CLEAR** to exit the list To erase other stored items from the phonebook, see page 44
- If  (**SAVE**) is pressed without entering a name, "NAME MUST NOT BE EMPTY" will be displayed Enter a name (p 40)



## To put a call on hold

Press (**HOLD**) during a conversation

- If a call is kept holding for 5 minutes, a ring back tone will sound and "CALL ON HOLD RING BACK 1" will be displayed. If you do not answer the recall within 30 seconds, the call will be disconnected.



## To release the hold

Press or **SP-PHONE**

- If another phone is connected on the same line (p. 76), you can also release the hold by lifting its handset.

## To dial after confirming the entered number

**1** Enter a phone number

- If you misdial, press **OFF/CLEAR**.  
Digits are erased from the right.



**2** Press OR

To have a hands-free phone conversation, press **SP-PHONE**

**3** To hang up, press **OFF/CLEAR** or place the handset on the base unit

## Lighted handset keypad

The handset dialing buttons will light when you press a button, or a call is received. The lights will go out about 10 seconds after pressing a button, or answering a call.

## Backlit LCD display

The lighted handset display will stay on for about 10 seconds after pressing a handset button or when a call is received.

# Answering Calls

When a call is received, the unit rings, and "INCOMING OUTSIDE CALL" is displayed on the handset.

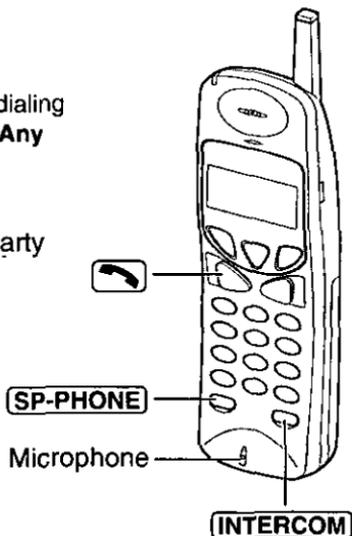
If you subscribe to a Caller ID service, the calling party information will be displayed after the first ring (p. 31). In order to view the Caller ID information, please wait until the second ring to answer a call.

Press .

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

OR

Press **SP-PHONE**, and when the other party answers talk into the microphone.



- When the handset and base unit ringer volumes are set to OFF, they will not ring (p. 16, 17).

# 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 shown on the handset display after the first ring. The unit can record information of up to 50 different callers 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' names and numbers from the Caller List into the phonebook. If you subscribe to both Caller ID and Call Waiting services, when a second call is received while talking, the new caller's name and phone number, the time and date the call is received will be displayed (p. 46).

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

The display shows the caller's name and phone number, the time and date the call was received after the first ring.

After you answer the call, the display on the right will be shown.

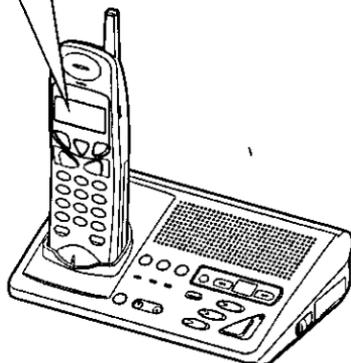
JACK SMITH  
1-222-333-4444  
3:10A Jun10

A rectangular display box with a battery status icon in the top right corner. The text is arranged in four lines: the caller's name, the phone number, and the time and date.

1

VOL HOLD MUTE

A rectangular display box with a battery status icon in the top right corner. The top line shows the number '1'. Below the display are three buttons labeled 'VOL', 'HOLD', and 'MUTE'.



## ➔ Caller ID Service

---

- 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".
- 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

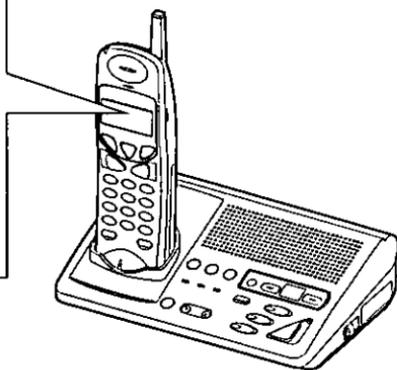
If you have received new calls, the display shows the number of new calls in the standby mode.

**Ex. You have received 10 new calls.**

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



HANDSET 1  
10 NEW CALLS  
RDL MENU MEM



- If there is no call received or after viewing the calls, new call counter will disappear.

# Using the Caller List



## Viewing the Caller List

You can view the caller list with the handset

**Make sure the handset is in the standby mode initially.**

- 1 Press (MENU)
- 2 Press (▼) or (▲) to select "CALLS LOG", and press (OK)
- 3 To search from the most recent call, press (▼)  
To search from the oldest call, press (▲)

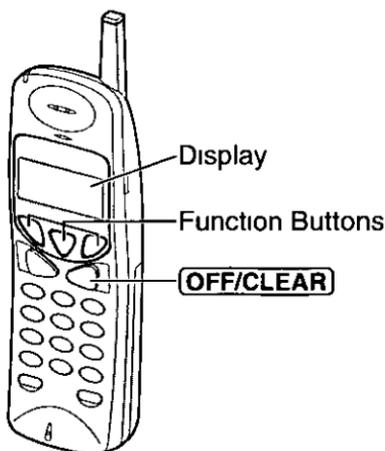


- The display shows
  - the caller's name,
  - the caller's number,
  - the time and date of the last call (ex Jun 10, 3 10 AM),
  - the call information is new and has not been viewed (ex "N" is displayed) and
  - the number of the call in the Caller List (ex 01)

- To scroll between callers, press (▼) or (▲)

- 4 To exit the list, press and hold **OFF/CLEAR**

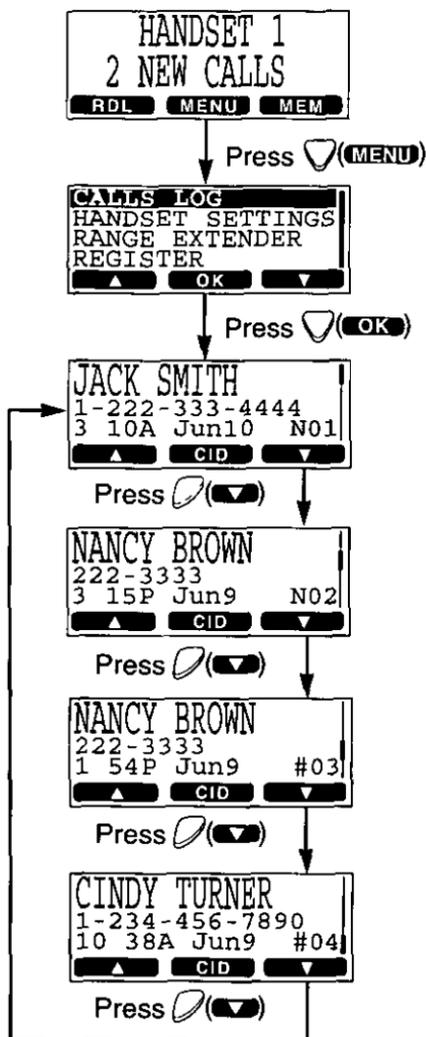
- The display will return to the standby mode



- If "CALLS LOG IS EMPTY" is displayed, the Caller List is empty
- If more than one call is received from the same caller, they will be sorted as separate calls

## ➔ Using the Caller List

Ex. When you search from the most recent call:



To return to the previous caller,  
press ◀ (▲)

To exit the Caller List,  
press and hold OFF/CLEAR

- The handset will return to the standby mode
- If there is no name information for a caller, the display will only show the phone number
- Once new calls have been checked, "N" will change to "#" on the display

### Display meaning:

- N You have not checked this caller information, answered the call or called back the caller
- # You have checked this caller information, answered the call or called back the caller
- 01-50 The memory number of each caller (up to 50) The smallest number is the most recent caller



## Calling Back from the Caller List

- 1 Press (MENU)
- 2 Press (▼) or (▲) to select "CALLS LOG", and press (OK)
- 3 Press (▼) or (▲) repeatedly to find the desired caller
- 4 Press or **SP-PHONE**



or



- After a few seconds, the displayed phone number is dialed automatically



Cordless Telephone

- In some cases, you may have to edit the number before dialing (p 36)  
(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

## ➔ Using the Caller List

### Editing the Caller's Phone Number

You can edit a phone number into one of 4 patterns

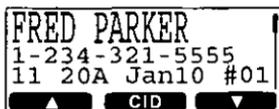
**Make sure the handset is in the standby mode initially**

1 Press (MENU)

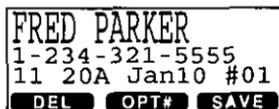
2 Press (▼) or (▲) to select "CALLS LOG", and press (OK)



3 Press (▼) or (▲) repeatedly to find the desired caller, and press (CID)



4 Press (OPT#)



5 Press (▼) or (▲) repeatedly to select a pattern

- The number is rearranged into one of 4 different patterns

- ①
- ② 1 -
- ③  -
- ④ 1 -  -

- The order in which patterns ①-④ are displayed depends on how the telephone number is displayed in step 3



6 After editing the number, you can continue with calling back  
To call back, press (DIAL), or **SP-PHONE** (p 35)

- The number edited in step 5 will not be maintained in the Caller List

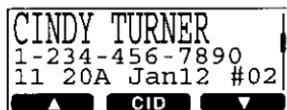


# Storing Caller List Information in the Phonebook

You can store names and phone numbers that are in the Caller List into the phonebook

**Make sure the handset is in the standby mode initially**

- 1 Press (MENU)
- 2 Press (▼) or (▲) to select "CALLS LOG", and press (OK)
- 3 Press (▼) or (▲) repeatedly to find the desired caller, and press (CID)
- 4 Press (SAVE)
  - "ENTRY HAS BEEN STORED" will be displayed



If there is no name information for the caller, "PLEASE ENTER A NEW NAME" will be displayed



Enter a name (p 40) When finished, press (SAVE)



- If (SAVE) is pressed without entering a name, "NAME MUST NOT BE EMPTY" will be displayed Enter a name



- You can exit the programming mode any time by pressing and holding **OFF/CLEAR**
- If the display shows "PHONEBOOK IS FULL" in step 4, press and hold **OFF/CLEAR** to exit the list To erase other stored items from the phonebook, see page 44

## ➔ Using the Caller List

### Erasing Caller List Information

After checking the Caller List, you can erase some or all of the entries. **Make sure the handset is in the standby mode initially.**

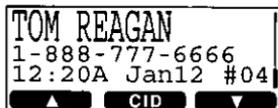
#### To erase a specific caller from the Caller List

1 Press (MENU).

2 Press (▼) or (▲) to select "CALLS LOG", and press (OK).



3 Press (▼) or (▲) repeatedly to find the caller you want to erase from the Caller List, and press (CID).

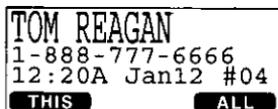


4 Press (DEL).



5 Press (THIS).

- The information is erased.
- To erase other items, repeat from step 3.
- After 10 seconds, the display will return to the standby mode.

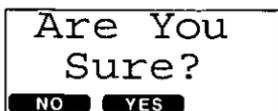


•You can exit the programming mode any time by pressing and holding **OFF/CLEAR**.

#### To erase all entries in the Caller List

Make sure that all of the entries of the Caller list have been checked.

1 Follow steps 1 through 4. In step 5, press (ALL).



2 Press (YES).  
•All entries are erased.

# Using the Phonebook



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

You cannot access numbers stored in another handset from a handset.

## Storing Names and Numbers in the Phonebook

Make sure the handset is in the standby mode initially.

- 1 Enter a phone number, up to 32 digits.
- If you misdial, press **OFF/CLEAR**. Digits are erased from the right.



- 2 Press **(MEM)**.



- 3 Enter a name, up to 16 characters using the dialing buttons (p. 40).

- To move the under bar to the right, press **(▶)**.



- 4 Press **(SAVE)**.

- A beep sounds.
- The display will return to step 1.
- After 10 seconds, the display will return to the standby mode.

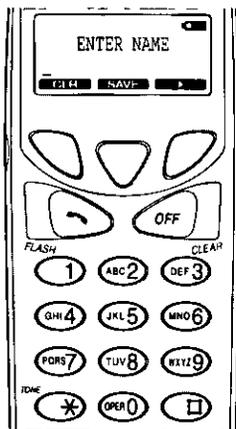


- If you do not press any buttons for 10 seconds in step 3, the display will return to step 1.
- You can exit the programming mode any time by pressing and holding **OFF/CLEAR**.
- If a pause is required for dialing, press **(Pause)** in step 1. A pause can be stored in a phone number counting as one digit (p. 45).
- If **(SAVE)** is pressed without entering a name in step 3, "NAME MUST NOT BE EMPTY" will be displayed. Enter a name (p. 40).
- If the display shows "PHONEBOOK IS FULL" in step 2, press and hold **OFF/CLEAR** to exit the phonebook list. To erase other stored items from the phonebook, see page 44.

## ➔ Using the Phonebook

### Selecting Characters to Enter Names

The handset dialing buttons (0 to 9), \* or # can be used to enter letters and symbols. The letters are printed on the dialing buttons. Pressing each button selects a character as shown below.



Keys	Number of times key is pressed				
	1	2	3	4	5
1	&	'	,		1
2	A	B	C	2	
3	D	E	F	3	
4	G	H	I	4	
5	J	K	L	5	
6	M	N	O	6	
7	P	Q	R	S	7
8	T	U	V	8	
9	W	X	Y	Z	9
0	0				
*	*				
#	#				
(▶)	To move the under bar to the right				
(CLR)	Erases characters				

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

Press (CLR) to delete and enter the correct character. Each time you press (CLR), a character is erased from the right.

### For example, to enter "TOM JONES":

- 1 Press **8**
- 2 Press **6** three times, then wait 2 seconds
- 3 Press **6**, then press (▶)
- 4 Press **5**, press **6** three times, then wait 2 seconds
- 5 Press **6** twice, press **3** twice, then press **7** four times

T

TO\_

TOM \_

TOM JO\_

TOM JONES

•To enter another character using the same dialing button, wait 2 seconds until the under bar moves to the right.



## Finding Items in the Phonebook

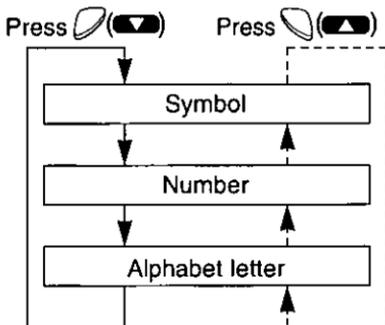
Make sure the handset is in the standby mode initially.

- 1 Press (MEM) to enter the phonebook list



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

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



### To search for a name by initial

- 1 Press (MEM) to enter the phonebook list



- 2 Press (FIND), and 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 42)



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

- 3 Press (FIND), and press (▼) repeatedly until the name is displayed

- You can leave the phonebook list any time by pressing and holding **OFF/CLEAR**
- If "PHONEBOOK IS EMPTY" is displayed in step 1, the phonebook is not available

## ➔ Using the Phonebook

### Index table

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

## Dialing from the Phonebook

Make sure the unit is in the standby mode initially.

1 Press  (MEM) to enter the phonebook list.



2 Press  or  repeatedly to find the phonebook item that you want to dial.

•To search for the item by initial, see page 41.

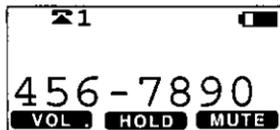
•To exit the phonebook, press and hold

**OFF/CLEAR**.



3 Press  or **SP-PHONE**.

•The number is dialed automatically.





# Editing a stored number in the Phonebook

Make sure the handset is in the standby mode initially.

1 Press (MEM) to enter the phonebook list.

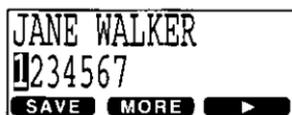


2 Press or repeatedly to find the phonebook item you want to change.



•To search for the item by initial, see page 41.

3 Press (EDIT) twice.



4 Edit a number.

•To add a number:

Press to move the cursor on the position then enter the number.



•To erase the digit:

Press to move the cursor on the position then press → .



After erasing, press (BACK) to return to the previous display.



5 Press (SAVE).

•The display will return to step 2. You can continue editing other items.

•After 10 seconds, the display will return to the standby mode.



•If you do not press any button for 10 seconds in step 4, the display will return to the standby mode.

•If a pause is required for dialing, press → in step 4. A pause can be stored in a phone number counting as one digit (p. 45).

•You cannot edit a stored name.

•You can exit the programming mode any time by pressing and holding **OFF/CLEAR**.

## ➔ Using the Phonebook

### Erasing an Item from the Phonebook

Make sure the handset is in the standby mode initially.

#### To erase a specific item from the phonebook

1 Press (MEM) to enter the phonebook list



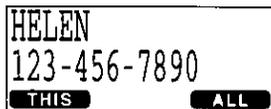
2 Press (▼) or (▲) repeatedly to find the phonebook item you want to erase  
•To search for the item by initial, see page 41



3 Press (EDIT)



4 Press (DEL)

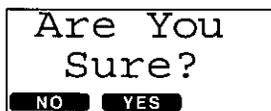


5 Press (THIS)

- The information is erased
- The display will return to step 2 You can continue erasing other items
- After 10 seconds, the display will return to the standby mode

#### To erase all items in the phonebook

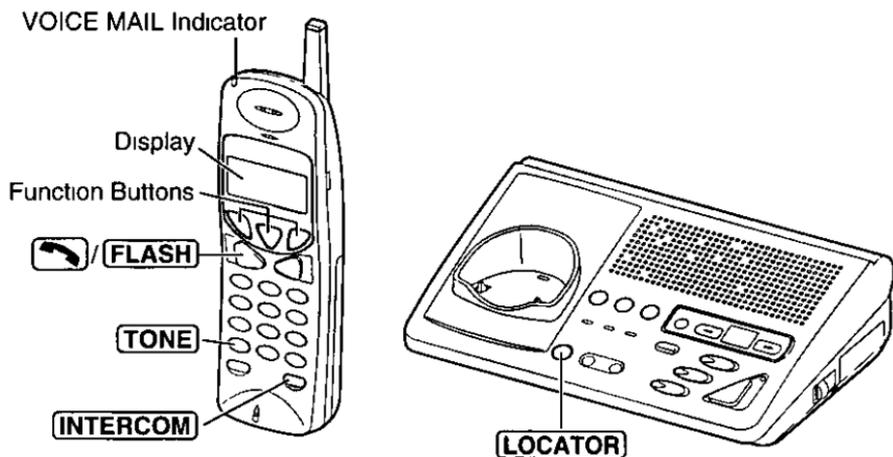
1 Follow steps 1 through 4  
In step 5, press (ALL)



2 Press (YES)  
•All entries are erased

•You can exit the programming mode any time by pressing and holding **OFF/CLEAR**

# Special Features



## VOICE MAIL Indicator

This indicator is for the VOICE MAIL feature of KX-TG1000N. When this handset is used with KX-TG1050N, this indicator will not light.

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

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

Ex Line access number (PBX)

→ →

- Pressing (PAUSE) once creates a 2 second pause. This prevents misdialing when you redial or dial a stored number.
- Pressing (PAUSE) more than once increases the length of the pause between numbers.

## 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.

## ➔ Special Features

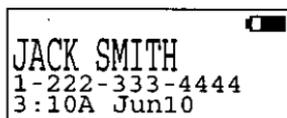
### For Call Waiting Service Users

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

- The first call is put on hold and you can answer the second call.
- To return to the first caller, press  / **FLASH** again.
- The call waiting service cannot be used when a parallel connected telephone is in use.
- 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 unit to display the second caller's information. After you hear a call-waiting tone while talking, the unit will display the caller's name with the phone number, the time and date the call was received.



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

### FLASH Button

Pressing  / **FLASH** 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. The flash time is 650 ms (milliseconds).

### Muting Your Conversation

Press  (**MUTE**) while talking.

- The display on the right will be shown.
- The other party cannot hear your voice but you can hear theirs.
- To resume the conversation, press  (**MUTE**) again.



### Handset Locator

You can locate the handset or page the handset user with beep tones.

- 1 Press **LOCATOR** on the base unit.
  - The display on the right will be shown on the paged handset.
  - When using more than one handset, all handsets are paged simultaneously.



- 2 To stop the beep tone, press **LOCATOR** again at the base unit, or press **INTERCOM** at the handset.



## Selecting the Range Extender Mode

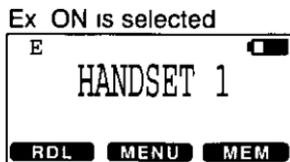
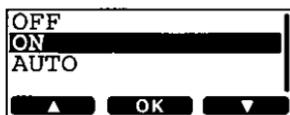
This feature allows the unit to improve both the sound quality and range when using in an area with excessive interference or requiring a moderate increase in operating range. Your phone comes from the factory set to AUTO.

You can select the range extender to

<b>OFF</b>	The range extender is not active
<b>ON</b>	The range extender is active and "E" (extender icon) is displayed on the display
<b>AUTO</b>	The range extender will automatically monitor the signal strength between the handset and base unit, and active whenever necessary. "E" is displayed on the display when the mode is active.

Make sure that the handset is in the standby mode initially.

- 1 Press (MENU)
- 2 Press (▼) or (▲) to select "RANGE\_EXTENDER", and press (OK)
- 3 Press (▲) or (▼) to select "ON", "OFF" or "AUTO"
- 4 Press (OK)
  - A beep sounds
  - The display will return to the standby mode



•Battery life may be shortened if you set the range extender to ON or AUTO

## ➔ Other Programmable Settings

### Selecting the Ringer Melody

You can select the desired ringer melody of the handset from #1 to #6. Your phone comes from the factory set to pattern #01.

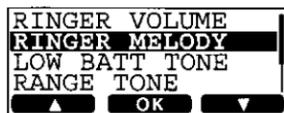
**Make sure that the handset is in the standby mode initially.**

1 Press (MENU).

2 Press (▼) or (▲) to select "HANDSET SETTINGS", and press (OK).

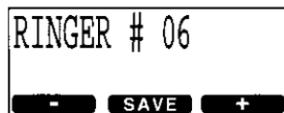


3 Press (▼) or (▲) to select "RINGER MELODY", and press (OK).



4 Press (+) or (-) to select the desired ringer melody.  
•Each time you press (+) or (-), the ringer melody will change and ring.

Ex. #6 is selected.



5 Press (SAVE).

- A beep sounds.
- The display will return to the handset settings menu.
- After 10 seconds, the display will return to the standby mode.

•You can exit the programming mode any time by pressing and holding **OFF/CLEAR**.



## Setting the Low Battery Tone

You can choose whether the handset will sound a low battery tone

Your phone comes from the factory set to ON

**Make sure that the handset is in the standby mode initially.**

1 Press (MENU)

2 Press (▼) or (▲) to select "HANDSET SETTINGS", and press (OK)

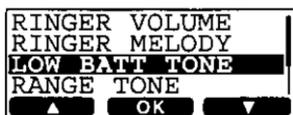
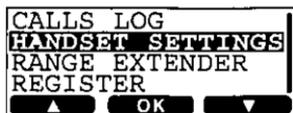
3 Press (▼) or (▲) to select "LOW BATT TONE", and press (OK)

4 Press (OFF) or (ON)

5 Press (OK)

- A beep sounds
- The display will return to the handset settings menu
- After 10 seconds, the display will return to the standby mode

•You can exit the programming mode any time by pressing and holding **OFF/CLEAR**



## ➔ Other Programmable Settings

### Setting the Range Tone

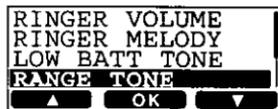
When the handset is too far from the base unit, the handset will sound a range warning alarm

You can choose whether the handset will sound a range warning alarm

Your phone comes from the factory set to ON

**Make sure that the handset is in the standby mode initially.**

- 1 Press (MENU)
- 2 Press (▼) or (▲) to select "HANDSET SETTINGS", and press (OK)
- 3 Press (▼) or (▲) to select "RANGE TONE", and press (OK)
- 4 Press (OFF) or (ON)
- 5 Press (OK)
  - A beep sounds
  - The display will return to the handset settings menu
  - After 10 seconds, the display will return to the standby mode



- You can exit the programming mode any time by pressing and holding **OFF/CLEAR**



## Setting the Keypad Tones

You can choose whether the handset keypad will sound tones

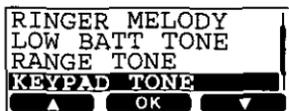
Your phone comes from the factory set to ON

**Make sure that the handset is in the standby mode initially.**

- 1 Press (MENU)
- 2 Press (▼) or (▲) to select "HANDSET SETTINGS", and press (OK)



- 3 Press (▼) or (▲) to select "KEYPAD TONE", and press (OK)



- 4 Press (OFF) or (ON)

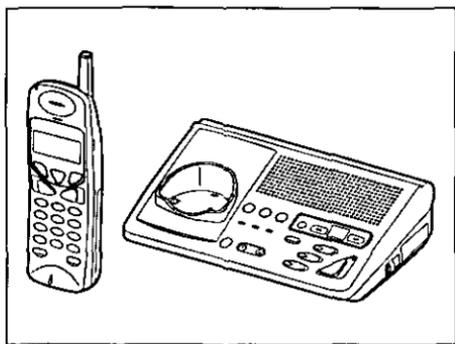


- 5 Press (OK)
- A beep sounds
  - The display will return to the handset settings menu
  - After 10 seconds, the display will return to the standby mode

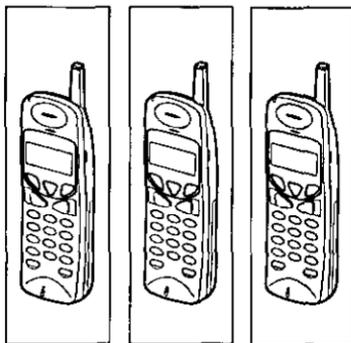
•You can exit the programming mode any time by pressing and holding **OFF/CLEAR**

# For Optional Multi-Handset Users

You can register and operate up to 4 handsets at the base unit.



**KX-TG1050N**



**Optional Multi-Handsets**

## **Important:**

The functions of the optional handsets are the same as the original handset.

The handset model number is KX-TGA100N. To order, contact your dealer or call 1-800-211-PANA(7262) to locate a dealer.

When using two or more handsets, the following operation features will be different. For details, see pages 55 to 58.

- Intercom between handsets
- Transferring external calls
- Conference calls
- All of the handsets ring when calls are received.

## **Operating more than one handset:**

- allows one intercom call while simultaneously conducting one external call with 3 handsets, or
- allows two intercom calls.



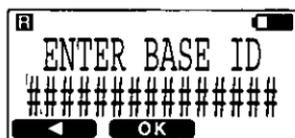
## Registering Optional Handsets

Registration is necessary for optional handsets. The included handset is pre-registered at the factory and assigned the handset number 1. **Do not try to register the handset number 1.**

You can register up to 4 handsets at the base unit. Each optional handset will be assigned a number at registration. The assigned number will be used as the handset number (p. 55–58). Only one handset can be registered at a time.

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

- 1 After charging the handset, the display on the right will be shown

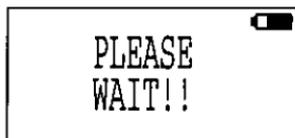


- 2 Enter the 15-digit Base Unit ID code located on the bottom of the base unit

- If you misdial, press (◀) Digits are erased from the right

- 3 Press (OK)

- A beep sounds and "PLEASE WAIT!!" is displayed



- 4 Wait until a beep sounds on the handset and base unit



- After a few seconds, the handset number (1 to 4) will be displayed



- If "BASE BUSY TRY LATER" is displayed in step 4, the unit is in use. Wait until the unit is in the standby mode, and repeat steps from 2
- If "ENTER BASE ID" is displayed in step 3, you entered a wrong Base ID code. Enter the correct code

## ➔ For Optional Multi-Handset Users

### Re-registering the Handset

If you re-register the handset to a different base unit of the same model, the previous handset number will be cleared in the re-registered handset. You cannot use it as the handset of the previous base unit.

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

If you want to change the registered number of a handset so you can use it as an optional handset for a different base unit of the same model (KX-TG1050N), follow the steps below.

- 1 Press (MENU)
- 2 Press (▼) or (▲) to select "REGISTER", and press (OK)



- 3 Enter the new 15-digit Base Unit ID code located on the bottom of the new base unit
- 4 Press (OK)
  - A beep sounds and "PLEASE WAIT" is displayed
- 5 Wait until a beep sounds on the handset and base unit
  - After a few seconds, the new handset number (1 to 4) will be displayed

In case "SEARCHING FOR BASE" is displayed when you want to re-register the handset, follow the steps below.

- 1 Press (NEW)  
A screenshot of the handset's display showing "SEARCHING FOR BASE" in large letters. At the bottom, there are two buttons: "NEW" and "MENU".
- 2 Enter the 15-digit Base Unit ID code located on the bottom of the base unit
- 3 Press (OK)
  - A beep sounds and "PLEASE WAIT" is displayed
- 4 Wait until a beep sounds on the handset and base unit
  - After a few seconds, the handset number (1 to 4) will be displayed

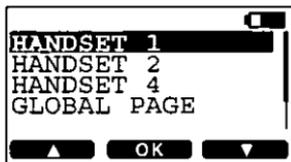
•To use as the handset of the previous base unit, you need to register again.



## Making Intercom Calls

A 2-way intercom is possible between two handsets. Each number assigned to a handset at registration is the handset number (p. 53)

1 Press **INTERCOM**



2 **To page another handset:**  
Enter the desired handset number (1 to 4)  
OR  
Press or to select the desired handset number, and press

Ex Handset 3 paging Handset 1



**To page all handsets:**  
Enter **\***  
OR  
Press or to select "GLOBAL PAGE", and press

Ex Paging all units



•To stop paging, press **OFF/CLEAR**

3 To end the intercom, press **OFF/CLEAR**

- In step 2, if you do not press any buttons for 10 seconds, the display will return to the standby mode
- If you page all handsets, you can only talk with the handset user who answers first

## Answering Intercom Calls

After the rings, press **INTERCOM**, or **SP-PHONE**

To end the intercom, press **OFF/CLEAR**

The paged handset shows

- “INTERCOM FROM HANDSET 1” is displayed, when one handset is paging another (Ex Handset 1 is paging another handset), or
- “GLOBAL CALL FROM HANDSET 2” is displayed, when one handset is paging all units (Ex Handset 2 is paging all units)

## ➔ For Optional Multi-Handset Users

---

### Transferring a Call

You can transfer an external call between two handsets. A call can be transferred with announcement (**Announced transfer**) or without announcement (**Blind transfer**).

#### Announced transfer:

- 1 During a call, press  (**HOLD**) and **INTERCOM**
  - The call is put on hold
- 2 Enter the desired handset number (**1** to **4**)  
OR  
Press  or  to select the desired handset number, and press 
  - “CALLING HANDSET 2” is displayed on the paging handset (Ex Handset 3 is paging Handset 2)

#### To page all handsets:

Enter **\***  
OR  
Press  or  to select “GLOBAL PAGE”, and press 

- “PERFORMING GLOBAL PAGE” is displayed on the paging handset
- The call is put on hold

- 3 When the paged party answers the page, you can announce the transfer
  - If the paged party does not answer, press **OFF/CLEAR** then  or **SP-PHONE**
- 4 To end the intercom, press **OFF/CLEAR**
  - When the paged party answers the call, the transfer is completed

•If you page all handsets, you can only talk with one of the handset users who answers first

•If the paged/transferred party does not answer, the ring back tone sounds. If you do not answer the recall within 30 seconds, the call will be disconnected

#### Blind transfer:

- 1 During a call, press **INTERCOM**
- 2 Enter the desired handset number (**1** to **4**)  
OR  
Press  or  to select the desired handset number, and press 
  - “CALL ON HOLD” is displayed on the paging handset
  - If another handset user does not answer, press  or **SP-PHONE**
  - When another handset user answers the call, the transfer is completed

---

## Answering a transferred call

### Announced transfer:

When the paged handset(s) ring(s) and the display(s) show(s) the following, press **INTERCOM**,  or **SP-PHONE** to answer the page

After the paging party hangs up, you can talk to the outside caller by pressing  or **SP-PHONE**

The paged handset(s) show(s)

- “INTERCOM FROM HANDSET 1” is displayed, when one handset is paging another (Ex Handset 1 is paging another handset), or
- “GLOBAL CALL FROM HANDSET 2” is displayed, when one handset is paging another (Ex Handset 2 is paging another handset)

### Blind transfer:

When the transferred handset rings and the display shows the following, press **INTERCOM**,  or **SP-PHONE** to answer the call

The transferred handset shows

- “TRANSFER FROM HANDSET 2” is displayed, when one handset is paging another (Ex Handset 2 is paging another handset)

## ➡ For Optional Multi-Handset Users

---

### Conference

While you are talking with an outside caller, up to 2 handsets can join the conversation.

Ex.

While a handset is engaged on an external call, up to 2 handset users can join the conversation.

#### To join a conversation;

Press  or **SP-PHONE**.

# Automatic Answering Operation

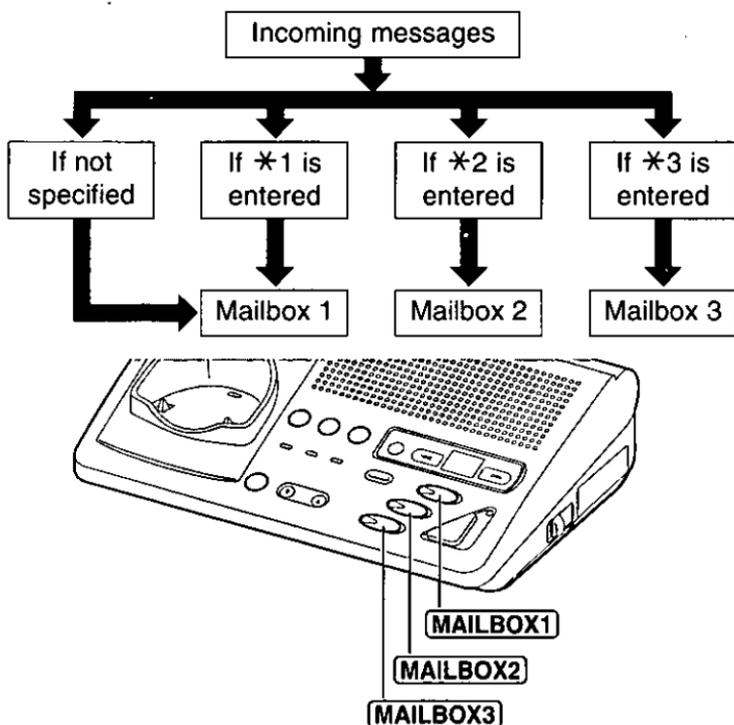


## How to Use the Mailbox

The base unit has 3 personal mailboxes. A caller can leave a message in a specified mailbox. If a mailbox is not specified or specified after the outgoing message playback is finished, messages are recorded in the Mailbox 1.

### To let the callers leave a message in a specified mailbox:

Record a personal outgoing message to inform the caller to press \* and enter the desired mailbox number (1 to 3) while the outgoing message is played. (See the personal outgoing message sample on page 21.)



Answering System

- The total recording time (including outgoing message) is **about 15 minutes**.
- A maximum of 100 messages (including outgoing message) can be recorded.
- If incoming message length is less than 2 seconds, message will not be recorded. An incoming message can be recorded for up to 4 minutes.

## ➡ Automatic Answering Operation

---

### How incoming messages are recorded in each mailbox

For example, when the outgoing message is:

“Hi! We can’t come to the phone right now. If you have a message for John press \*1 (‘Star 1’), for Jane press \*2 (‘Star 2’), for Jack press \*3 (‘Star 3’). Or, just stay on the line and record after the beep. Thank you.”

- 1** A caller calls your unit.
    - The outgoing message above is played.
  - 2** To leave a message for Jack, the caller presses “\*”, then enters the mailbox number 3, while the outgoing message is played.
    - “Mailbox 3, now recording” is heard, followed by a beep.
  - 3** The caller’s message is recorded in Mailbox 3.
    - The indicator of Mailbox 3 flashes, and Jack is notified that there is a new message for him.
- After the caller hangs up, the indicator of the recorded mailbox will flash and the base unit display will flash the total number of new messages in all mailboxes.
  - Messages are recorded in the Mailbox 1 unless a specified mailbox is selected.
  - If the commands for specifying the mailbox is entered after the beep (after the outgoing message playback), it is ignored and the message will be recorded in the Mailbox 1.

### When the memory becomes full

“F” (Memory full) with the number of new messages flashes on the base unit display when:

- There is less than 30 seconds remaining.
- 99 messages have already been stored.

In this case, new message cannot be recorded anymore. Erase some, or all, of the messages (p. 64).

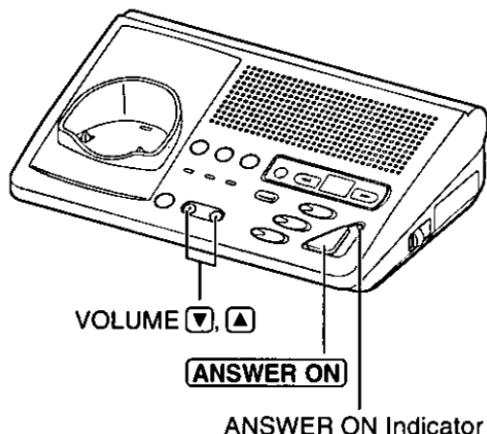
We recommend you erase unnecessary messages after each playback.

- If the memory is full, the answering system answers a call after 10 rings and “Memory full. Please enter your security code” is announced. The caller can enter the remote operation mode by entering the security code (p. 67).

## Setting the Unit to Answer Calls

Press **ANSWER ON** to turn on the answering system.

- The indicator lights and “Answering machine on” is heard.
- If the answering system memory is full, “F” flashes on the base unit display. In this case, the answering system will not answer new calls. Erase some, or all, of the messages (p. 64).



- When Announce Only mode has been set (p. 24), “A” is displayed on the base unit.
- If you do not want the answering system to answer calls, press **ANSWER ON** again. The indicator light goes out and “Answering machine off” is heard. The display will still show the number of new messages.
- Even if the answering system is set to OFF, it will answer calls after 10 rings. “Please enter your security code” is announced, and you can enter your security code to use remote operation (p. 66).

## Monitoring incoming calls

While a call is being recorded, you can monitor it through the base unit speaker.

To adjust the speaker volume (level 1 to 8), press ▼ to decrease or ▲ to increase.

To answer the call, press  on the handset. The unit stops recording.

# Listening to Messages

## When new messages are recorded:

- The base unit display flashes the total number of new messages in all mailboxes.
- The recorded **MAILBOX** (1 to 3) indicator flashes.

## When only old messages are recorded (after listening to new messages):

- The base unit display shows "0". (This means there is no new message.)
- The recorded **MAILBOX** (1 to 3) indicator lights on.

## Listening to only new messages

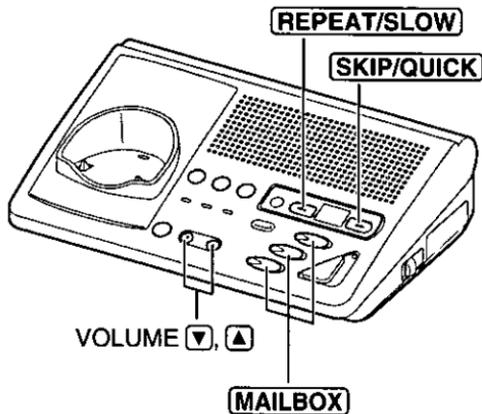
Press the **MAILBOX** (1 to 3) whose indicator is flashing.

- The unit announces the mailbox number and the number of new and old messages, and plays back only new messages.

## Listening to old recorded messages

Press the **MAILBOX** (1 to 3) whose indicator is lighting on.

- The unit announces the mailbox number and the number of old messages, and plays back the old messages.



## To adjust the speaker volume:

8 levels (1–8) are available while using the answering system.

To increase, press **▲**.

To decrease, press **▼**.

## To change the playback speed:

The playback speed can be changed.

To slow down, press and hold **REPEAT/SLOW**.

To speed up, press and hold **SKIP/QUICK**.

The playback speed will return to normal once you release each button.

- During each new message playback, the message number flashes  
During each old message playback, the message number does not flash  
(Ex While the first new message is being played back, "1" flashes )
- The day and time stamp is announced after each message is played
- At the end of the last message, "End of messages" is heard The unit will announce the remaining recording time if it is less than 5 minutes

## During playback

To <b>repeat</b> message	<b>To repeat from the beginning of the message</b> Press <b>REPEAT/SLOW</b> •If you press within 2 seconds of playback, the previous message will be played
To <b>skip</b> message	<b>To skip to the next message</b> Press <b>SKIP/QUICK</b>
To <b>stop</b> operation	Press any <b>MAILBOX</b> (1 to 3)

# Erasing Messages

---

The answering system saves the recorded messages unless you erase them. When the memory becomes full, erase some, or all, of the messages.

We recommend you erase unnecessary messages after each playback.

## Erasing a specific message

Press **ERASE** while the message you want to erase is being played.

- “Message has been erased” is heard
- A short beep will sound and the unit will continue to play the next message.

## Erasing all old messages in a specific mailbox

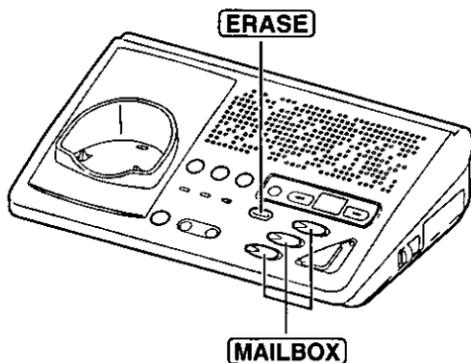
All old messages in a specific mailbox can be erased at one time. However, new messages **cannot** be erased until they are reviewed.

**1** Press and hold **ERASE** for more than 2 seconds.

- “Please select mailbox” is heard.

**2** Press the desired **MAILBOX** (1 to 3) which you want to erase all old messages.

- A beep sounds and “All old messages have been erased” is heard.



- The recorded messages will be retained even after a power failure.

# Recording a Memo Message

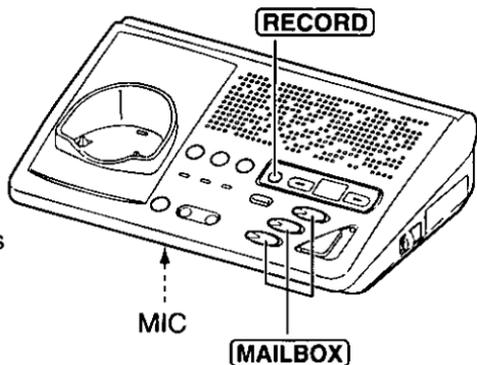
You can record a personal message in memory

- 1 Press **RECORD**
  - “Please select mailbox” is heard

- 2 Press the desired **MAILBOX** (1 to 3)
  - “Now recording” is heard, followed by a beep

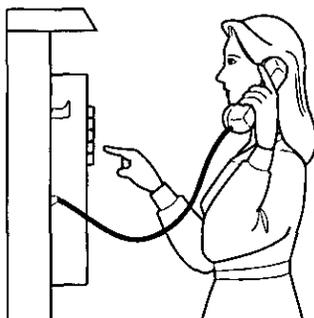
- 3 Speak clearly, about 8 inches (20 cm) away from the **MIC** (microphone)
  - The base unit display shows the elapsed recording time

- 4 When finished, press any **MAILBOX** (1 to 3)
  - “End of recording” is heard

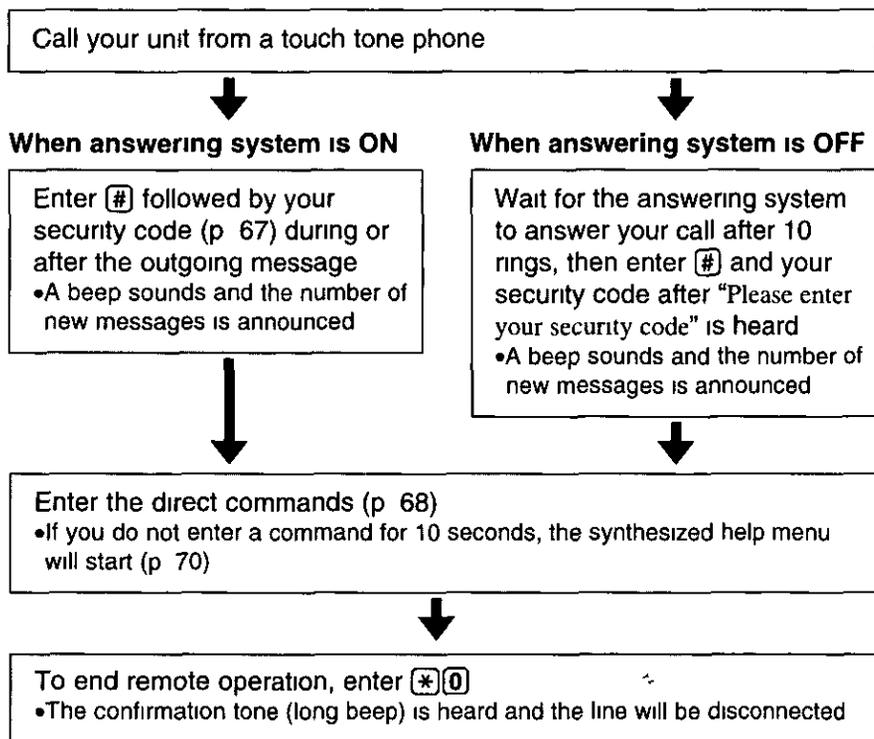


# Remote Operation from a Touch Tone Phone

You can operate the answering system from any touch tone phone  
If required, a synthesized help menu will guide you on how to operate the unit (p 70)



## Summary of remote operation



- The line will be disconnected in the following cases
  - Wrong security code is entered
  - No key is pressed within 20 seconds during remote operation

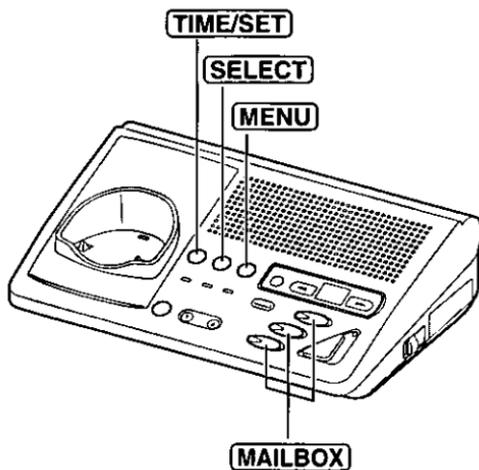


## Setting the Security Code

The security code prevents unauthorized people from accessing your unit and listening to your messages. Choose any **2-digit number (00–99)**. The factory preset security code is “19”. If you do not program your own security code, you can use “19”.

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

- 1 Press **MENU** until you hear “Set Security Code”.
- 2 Press **TIME/SET** to hear the current security code.
- 3 Press **SELECT** until the desired security code is announced.
  - Holding the button continuously will increase the code by multiples of 10.
- 4 Press **TIME/SET**.
  - The unit announces the stored security code.
  - To return to the standby mode, press any **MAILBOX** (1 to 3).



### To check the security code

Repeat steps 1 and 2.

- The unit announces and displays the current security code. When finished, press any **MAILBOX** (1 to 3) to return to the standby mode.

## ➔ Remote Operation from a Touch Tone Phone

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### Direct Remote Operation

Once you have entered the security code, you can control the answering system functions of your unit by direct commands.

#### Direct commands

---

MESSAGE PLAYBACK      **# 1**      •Messages in Mailbox 1 are played back.

---

**# 2**      •Messages in Mailbox 2 are played back.

---

**# 3**      •Messages in Mailbox 3 are played back.

•If new messages are recorded, only new messages are played back.  
If there is no new message, old messages are played back.

---

REPEAT (During playback)      **# 4**      •The current message is repeated.

---

**# 4**      •The current message is skipped back  
                                 ↓      by pressing **# 4** twice within 2  
                                 **# 4**      seconds.  
                                      The previous message is played.

---

STOP      **# 5**      •Operation is stopped temporarily.

---

SKIP (During playback)      **# 6**      •The current message is skipped.  
                                      The next message is played.

---

ERASING A SPECIFIC MESSAGE (During playback)      **# 9**      •The current message is erased.

---



OUTGOING  
MESSAGE  
PLAYBACK

# 7

- After the beep, the current outgoing message is played back

CHANGING THE  
OUTGOING  
MESSAGE

\* 7

- A beep sounds and "Now Recording" is heard

↓  
RECORD

- After the beep, talk immediately for up to 90 seconds

↓  
# 5

- The recording is stopped
- The recorded message is played

MEMO  
RECORDING

\* 8

- A beep sounds and "Please select mailbox" is heard

↓  
MAILBOX  
NO (1 to 3)

- A beep sounds and "Now Recording" is heard

↓  
RECORD

- After the beep, talk immediately

↓  
# 5

- The recording is stopped

ANSWERING  
SYSTEM ON/OFF

# 0

- ON and OFF setting switches
- A beep sounds and the current setting is announced

HELP MENU

\* 5

- The help menu is started

DISCONNECT

\* 0

- The call is terminated

- Playback will pause if # or \* is entered. The answering system will wait for the command in following 2 seconds. If no further tone is entered, playback will resume.
- If the answering system memory is full, any attempt to record outgoing message or memo will be ignored.

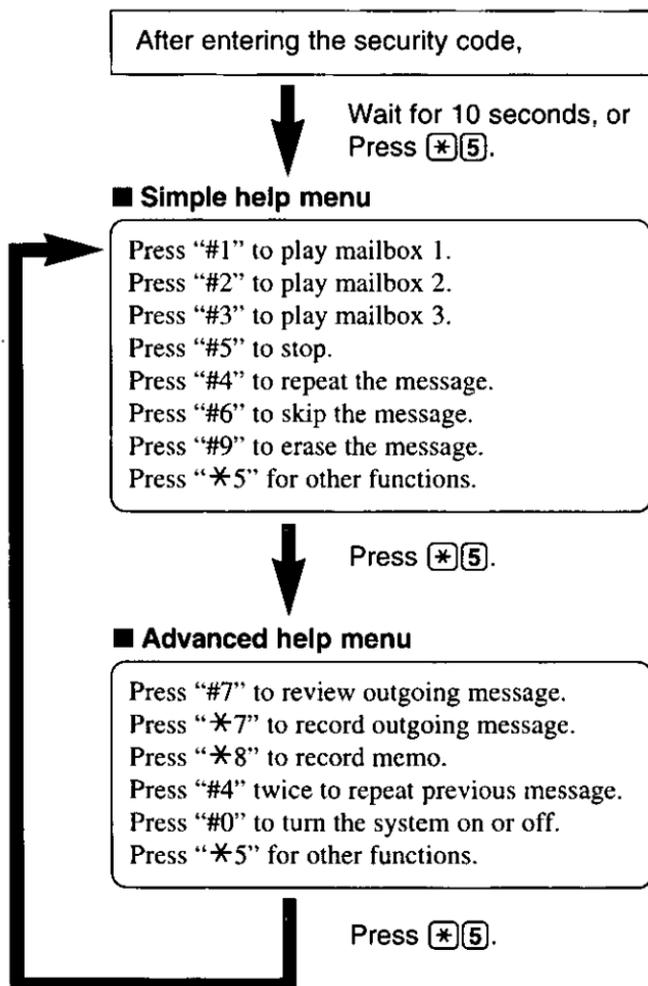
## ➔ Remote Operation from a Touch Tone Phone

### Help Menu

If no commands are entered for 10 seconds after entering the security code, a synthesized help menu will guide you the direct commands (p. 68).

• Pressing **\*5** also starts the help menu.

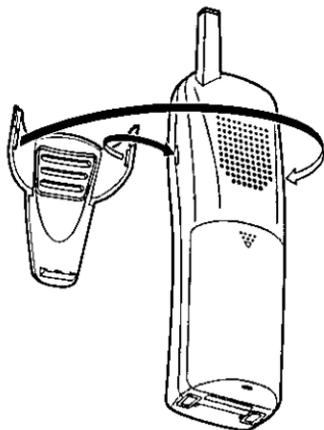
The shaded boxes are help prompts.



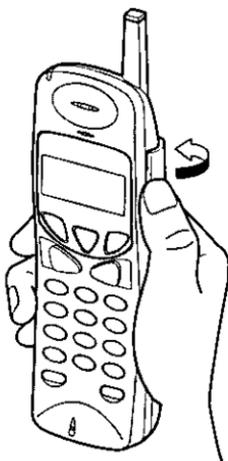
# Using the Belt Clip

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

## To attach the belt clip



## To remove the belt clip

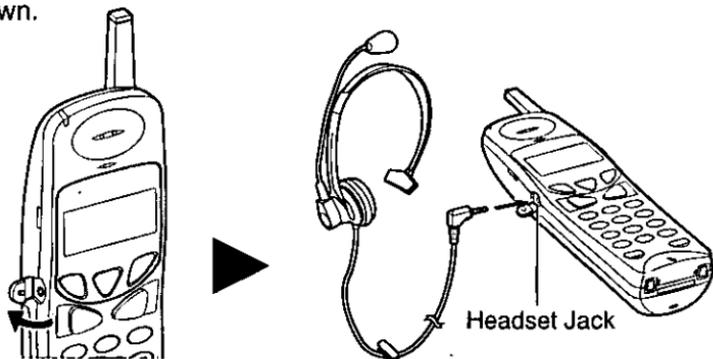


# Using an Optional Headset

Plugging an optional headset into the handset allows a hands-free phone conversation. Please use only the Panasonic KX-TCA88 headset. To order call the accessories telephone number on page 2.

## Connecting the headset to the handset

Open the headset jack cover, and connect the headset to the headset jack as shown.

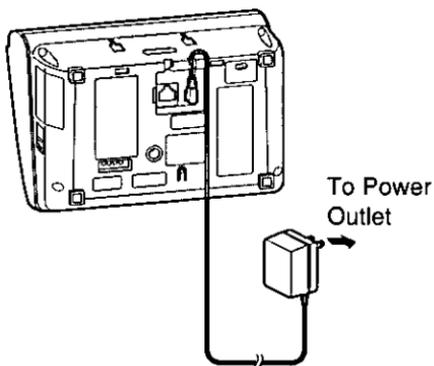


When the optional headset is connected to the handset, make sure to use the headset to talk with the caller. If you want to have a normal cordless phone conversation, disconnect the headset.

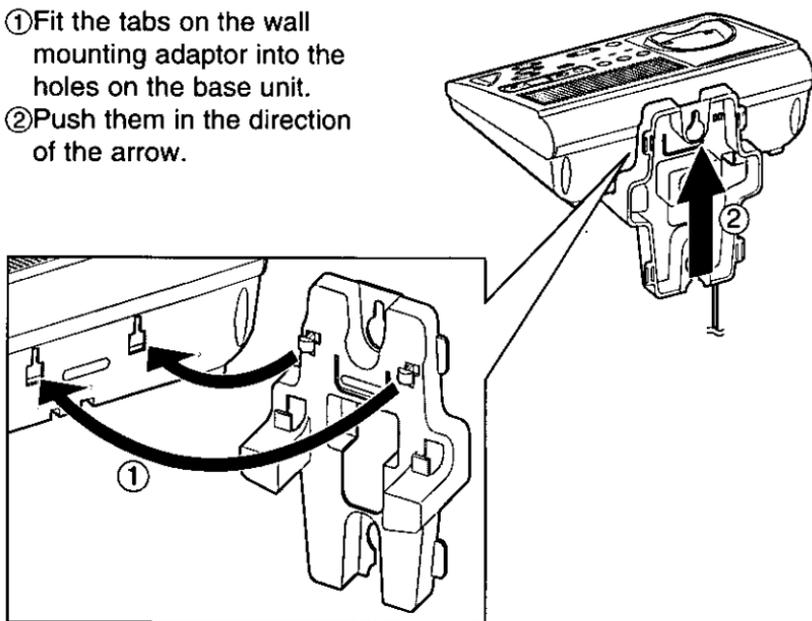
# Wall Mounting

This unit can be mounted on a wall phone plate.

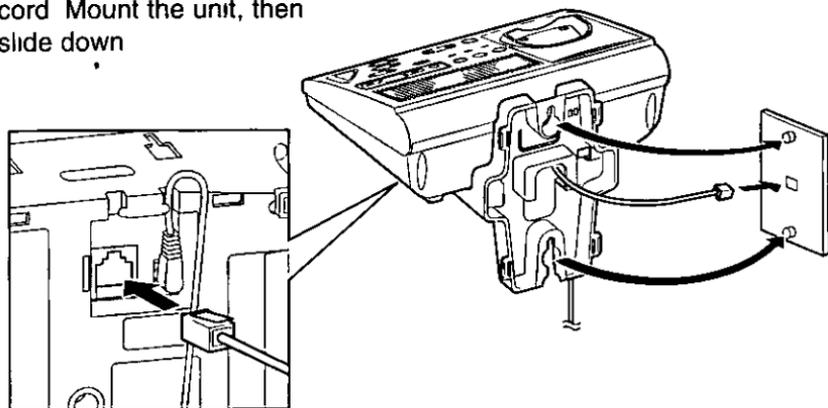
- 1 Connect the AC adaptor.



- 2
  - ① Fit the tabs on the wall mounting adaptor into the holes on the base unit.
  - ② Push them in the direction of the arrow.

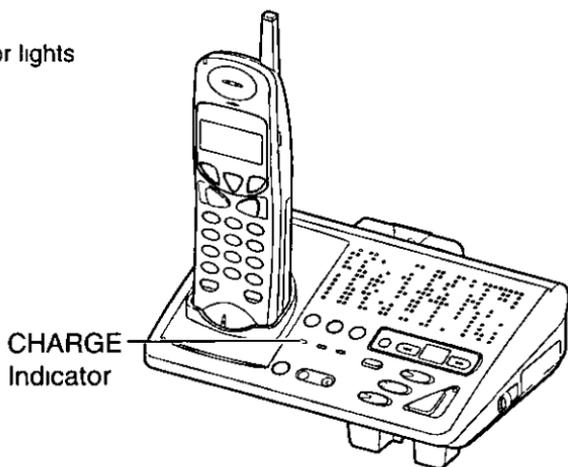


- 3** Connect the telephone line cord. Mount the unit, then slide down.



- 4** **To charge the handset battery:**  
Place the handset on the base unit as shown.

- The CHARGE indicator lights



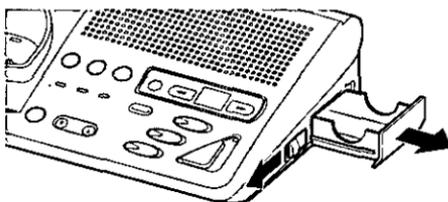
# Optional Spare Battery

An optional spare battery works as emergency power during a power failure. The fully charged spare battery provides the base unit to receive calls from the handset for up to 5 hours. Moreover, when the handset battery needs charging, replace it with the fully charged spare battery. This eliminates having to wait for the handset battery recharge.

**Please purchase the Panasonic PQWBTG1000N battery and install it in the Spare Battery Compartment in the base unit to charge.**  
To order, call 1-800-332-5368.

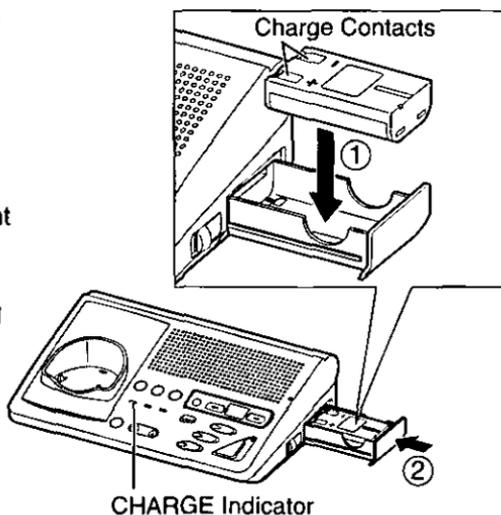
## Installing the spare battery in the base unit

- 1 Open the spare battery compartment by pressing the release button.



- 2 Install a spare battery in the base unit.

- ① Place a spare battery in the compartment with the charge contacts facing up.
  - ② Push the compartment closed firmly.
- The CHARGE indicator flashes for 3 seconds and the light goes out.



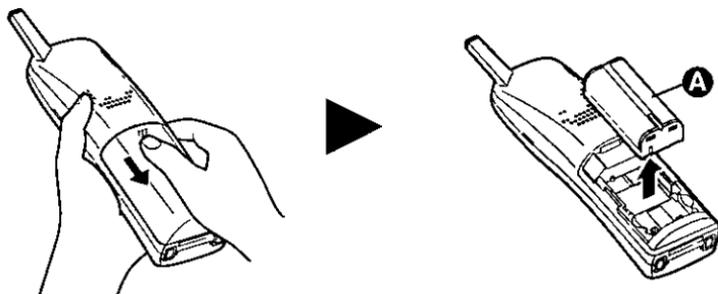
- The spare battery is always being charged in the base unit while the AC adaptor is connected. It will be fully charged in 24 hours. The battery cannot be overcharged.
- When using the unit during Power Backup mode, audio quality may be compromised due to reduced Power availability.
- Even if the spare battery has been fully charged, the unit may not work within minutes after a power failure. In that case, replace the battery with a new Panasonic battery.

## Replacing the handset battery with the spare battery

### Note

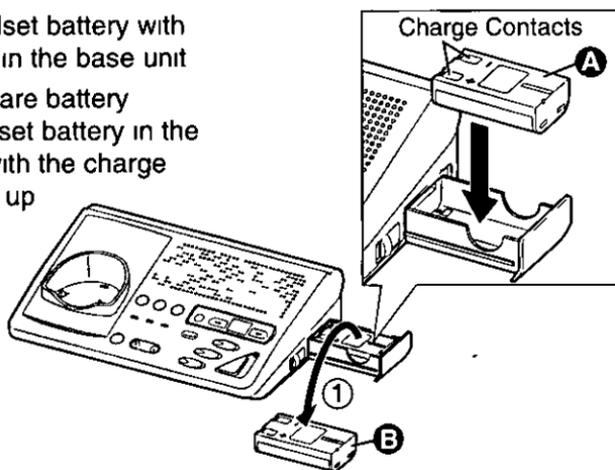
- A** Handset battery (discharged battery)
- B** Spare battery (fully charged battery)

- 1** Remove the handset cover, then remove the battery

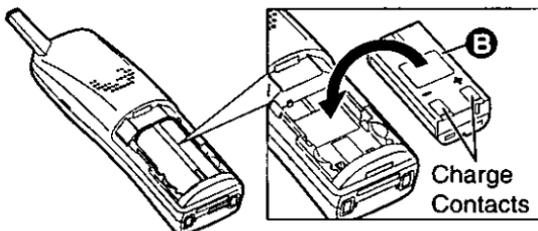


- 2** Replace the handset battery with the spare battery in the base unit

- ① Remove the spare battery
- ② Insert the handset battery in the compartment with the charge contacts facing up



- 3** Install the spare battery in the handset with the charge contacts facing down



•If "LOW BATTERY" is displayed and/or " " flashes after being fully charged, replace the battery with a new Panasonic battery

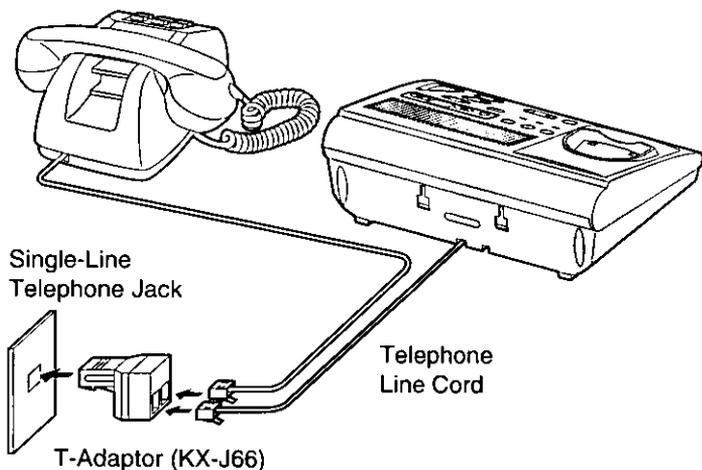
# Adding Another Phone

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If the optional spare battery has been discharged during a power failure, the unit will not work. If required, you can 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.

## Standard Telephone



# If the Following Appear...



If the unit detects a problem, one of the following messages will be displayed on the display



The battery needs to be charged. Place the handset on the base unit to charge the battery (p 12)



You are too far from the base unit. Move closer and try again.

If "SEARCHING FOR BASE" is still displayed, place the handset on the base unit and unplug the AC adaptor to reset. Plug in, and try again. Or, re-install the handset battery and place the handset on the base unit (p 75). Try again.



The AC adaptor is unplugged. Plug in (p 11)



The telephone line is unplugged. Plug in (p 11)



The handset has not been registered. Register the handset (p 53)



The Caller List is empty



There are no stored items in the phonebook

## ➔ If the Following Appear...

---



The redial list is empty



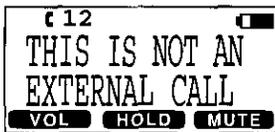
The display will be shown when another handset is engaged in an external call (Ex Handset 2 is on an external call)

In this case, you cannot make an external call  
Wait until this message disappears

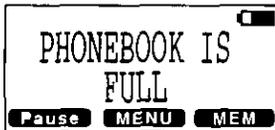


Answering system is answering a call

Or, the display will be shown when a parallel connected telephone is engaged in an external call



**(INTERCOM)** was pressed while you are in the intercom mode You cannot transfer the intercom call



When trying to store an item, Caller List or redial list information in the phonebook, the phonebook is full (p 28, 37, 39) To erase stored item from the phonebook, see page 44

# Before Requesting Help



## Cordless Telephone

Problem	Remedy
"SEARCHING FOR BASE" 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 unplug the AC adaptor to reset Plug in, and try again</li><li>•Re-install the handset battery and place the handset on the base unit (p 12, 75) 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></ul>
When you try to make a call, the other voice is heard	<ul style="list-style-type: none"><li>•Another handset is engaged in an external call Wait until "LINE IN USE" disappears</li><li>•You have answered the caller who have been leaving a message in the answering system</li></ul>
You cannot dial	<ul style="list-style-type: none"><li>•Check whether the TONE/PULSE switch is correct (p 11)</li></ul>
The handset does not ring	<ul style="list-style-type: none"><li>•The ringer volume is set to OFF Select the desired volume level (p 16)</li></ul>
The handset display is blank	<ul style="list-style-type: none"><li>•Charge the battery fully (p 12)</li></ul>
You cannot program function items, such as the "HANDSET SETTINGS"	<ul style="list-style-type: none"><li>•Do not pause for over 10 seconds while programming</li><li>•Move closer to the base unit</li></ul>
You cannot store a name and phone number in the phonebook	<ul style="list-style-type: none"><li>•Do not pause for over 10 seconds while storing</li></ul>

## ➔ Before Requesting Help

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Problem	Remedy
While programming or searching, the unit starts to ring and stops the program/search.	<ul style="list-style-type: none"><li>•To answer the call, press  or <b>SP-PHONE</b>. Start again from the beginning after hanging up.</li></ul>
The handset display goes to the standby mode while viewing the Caller List/phonebook list.	<ul style="list-style-type: none"><li>•Do not pause for over 10 seconds while searching.</li></ul>
The unit does not display the caller's name and/or phone number.	<ul style="list-style-type: none"><li>•You need to subscribe to a Caller ID service from a telephone company.</li><li>•Other telephone equipment may be interfering with your phone. Disconnect it and try again.</li><li>•Other electrical appliances connected to the same outlet may be interfering with the Caller ID information.</li><li>•Telephone line noise may be affecting the Caller ID information.</li></ul>
You cannot page another handset by pressing <b>INTERCOM</b> .	<ul style="list-style-type: none"><li>•The handset is too far from the base unit.</li><li>•The handset is engaged in an internal/external call. Try again later.</li><li>•The handset has not been registered. Register the handset (p. 53).</li><li>•The handset has been re-registered to a different base unit of the same model.</li></ul>
You cannot redial by pressing  ( <b>RDL</b> ) or <b>REDIAL</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></ul>
You cannot have a conversation using the handset.	<ul style="list-style-type: none"><li>•When the headset is connected (p. 71), you must use the headset to talk with 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 the headset is connected properly (p. 71).</li></ul>



## Answering System

Problem	Remedy
The answering system is on, but incoming messages are not recorded.	<ul style="list-style-type: none"><li>•Announce Only mode has been set (p. 24).</li><li>•Memory is full. Erase some, or all, of the messages (p. 64).</li></ul>
You cannot listen to the recorded messages.	<ul style="list-style-type: none"><li>•Make sure that the unit is in the standby mode.</li></ul>
"F" flashes on the base unit display, and no new messages are recorded.	<ul style="list-style-type: none"><li>•Memory is full. Erase some, or all, of the messages (p. 64).</li></ul>
You cannot operate the answering system from a touch tone phone.	<ul style="list-style-type: none"><li>•Make sure you enter the correct security code (p. 67).</li><li>•The answering system may not respond if the tones are too short to activate the unit. Press each button firmly.</li></ul>
While recording an outgoing message, the unit starts to ring and stops recording.	<ul style="list-style-type: none"><li>•To answer the call, press . Start again from the beginning after hanging up.</li></ul>
During playback, the unit starts to ring and stops playback.	<ul style="list-style-type: none"><li>•To answer the call, press . To resume playback, press the desired <b>MAILBOX</b> (1 to 3) after hanging up.</li></ul>

## ➔ Before Requesting Help

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### General

Problem	Remedy
The unit does not work.	<ul style="list-style-type: none"><li>•Check the settings (p. 11–13).</li><li>•Charge the handset battery fully (p. 12).</li><li>•Clean the charge contacts and charge again (p. 13).</li><li>•Install the handset battery properly (p. 12, 75).</li><li>•Place the handset on the base unit and unplug the AC adaptor to reset. Plug in, and try again.</li><li>•Re-install the handset battery and place the handset on the base unit (p. 12, 75). Try again.</li><li>•The handset has not been registered. Register the handset (p. 53).</li></ul>
The base unit does not ring.	<ul style="list-style-type: none"><li>•The ringer volume is set to OFF. Select the desired volume level (p. 17).</li></ul>
Previously programmed information is erased.	<ul style="list-style-type: none"><li>•If a power failure occurs, programmed information may be erased. Reprogram if necessary.</li></ul>
You cannot register the handset at the base unit.	<ul style="list-style-type: none"><li>•Charge the handset battery fully (p. 12).</li><li>•4 handsets are already been registered at the base unit.</li><li>•Enter the correct 15-digit Base Unit ID code (p. 53).</li></ul>
“CL” flashes on the base unit display.	<ul style="list-style-type: none"><li>•The clock needs to be set (p. 22).</li></ul>
<b>LOCATOR</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 internal/external call. Try again later.</li><li>•The handset has not been registered. Register the handset (p. 53).</li><li>•The handset has been re-registered to a different base unit of the same model.</li></ul>

Problem	Remedy
<p>"LOW BATTERY" is displayed on the handset, "  " flashes or the unit beeps intermittently</p>	<ul style="list-style-type: none"> <li>•Charge the handset battery fully (p 12) or replace the fully charged optional spare battery (p 74, 75)</li> </ul>
<p>You charged the battery fully, but "LOW BATTERY" is still displayed and/or "  " continues to flash</p>	<ul style="list-style-type: none"> <li>•Clean the charge contacts and charge again (p 13)</li> <li>•Install a new battery (p 74, 75)</li> </ul>
<p>The CHARGE indicator light does not go out while charging</p>	<ul style="list-style-type: none"> <li>•This is normal</li> </ul>
<p>The POWER indicator light does not go out while plugging the AC adaptor</p>	<ul style="list-style-type: none"> <li>•This is normal</li> </ul>
<p>If you cannot solve your problem</p>	<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 servicenter 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 servicenter 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 servicenter.
  - 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 ..... 0.1B

The particular telephone line 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.

## **CAUTION:**

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

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**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.

Operating near 2.4GHz electrical appliances may cause interference. Move away from the electrical appliances.

**CAUTION:**

To comply with FCC RF exposure requirements, the base unit should be installed with its antenna located at 20 cm or more from persons and handset should be carried with the specific belt-clip provided for the handset to ensure compliance. Other non-tested belt-clips or similar body-worn accessories may not comply, therefore, should be avoided.

- **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 2401MHz to 2481MHz, and the power output level can range from 0.001 watts to 0.40 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

- Call 1-800-211-PANA(7262) for the location of an authorized servicer
- 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 servicer, prepaid and adequately insured
- Do not send your unit to the Panasonic Consumer Electronics Company listed on the back cover 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