

Panasonic

2.4GHz Digital Cordless Answering System

Model No. KX-TG2481B
KX-TG2481S

Pulse-or-tone dialing capability

Operating Instructions



KX-TG2481B

Caller ID Compatible

PLEASE READ BEFORE USE AND SAVE.

Charge the battery for about 6 hours before initial use.

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

Preparation

Cordless Telephone

Answering System

Useful Information

Before Initial Use

Please read **IMPORTANT SAFETY INSTRUCTIONS** on page 76 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

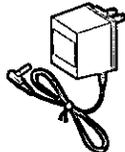
Serial No. _____
(found on the bottom of the unit)

Date of purchase _____

Name and address of dealer _____

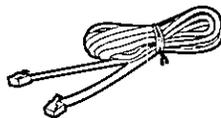
Accessories (included) For extra orders, call 1-800-332-5368.

- AC Adaptor (p. 12)
Order No. PQLV10Z



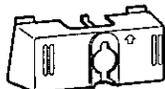
one

- Telephone Line Cord (p. 12)



one

- Wall Mounting Adaptor (p. 66)
Order No. PQKL10035Z1



one

- Belt Clip (p. 15)
Order No. PQKE10337Z1



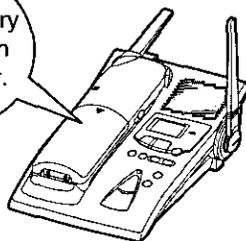
one

For Best Performance

Battery Charge

A rechargeable Ni-Cd battery powers the handset. Charge the battery for about **6 hours** before initial use (p. 13).

The battery is beneath this cover.

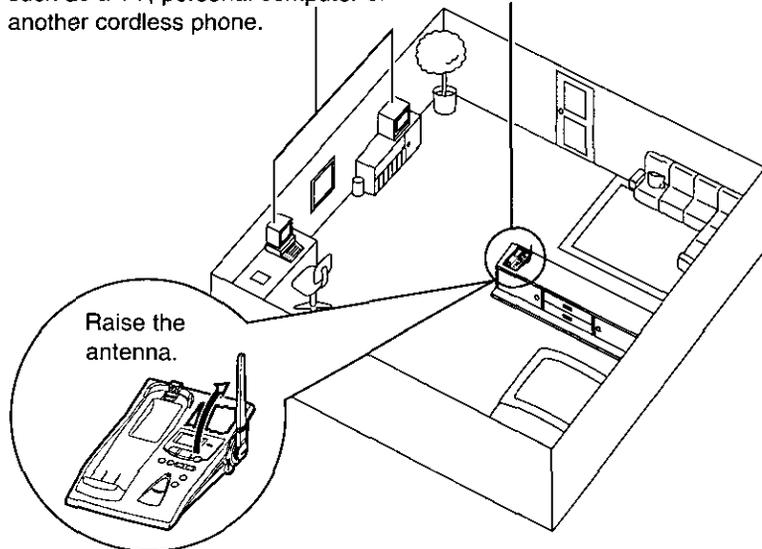


Base Unit Location/Noise

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. 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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Cordless Telephone

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Preparation

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Cordless Telephone

Useful Information

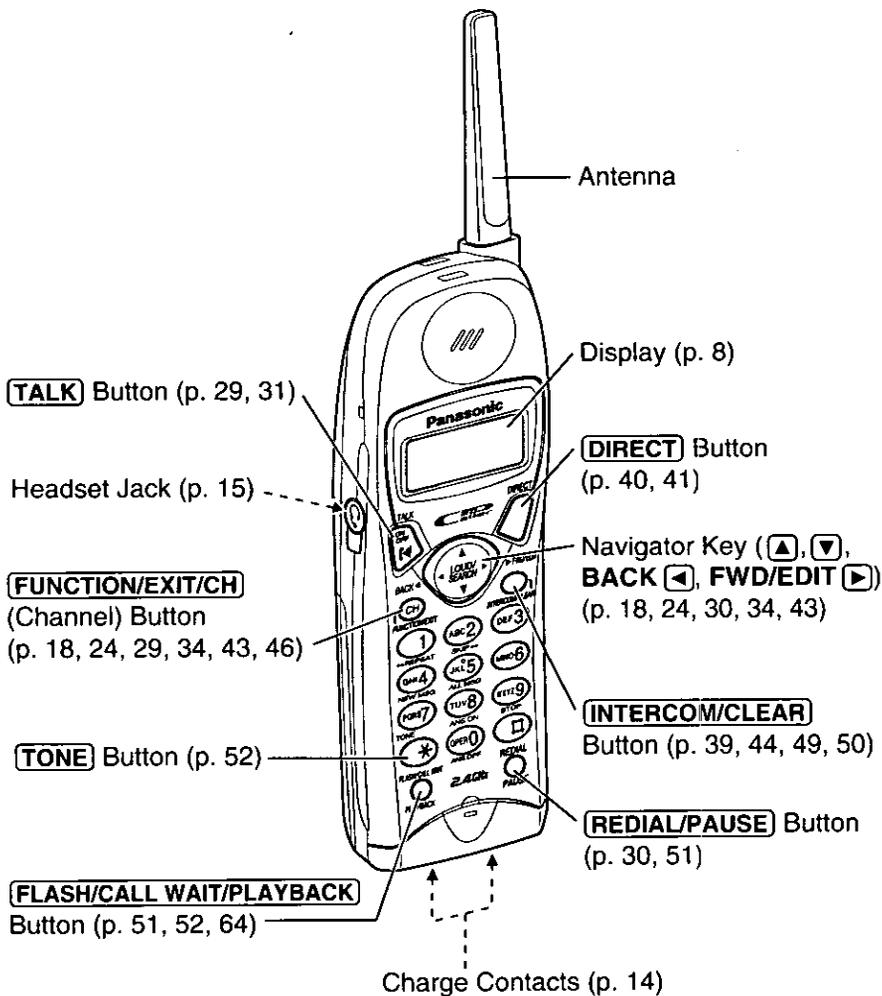
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Answering System

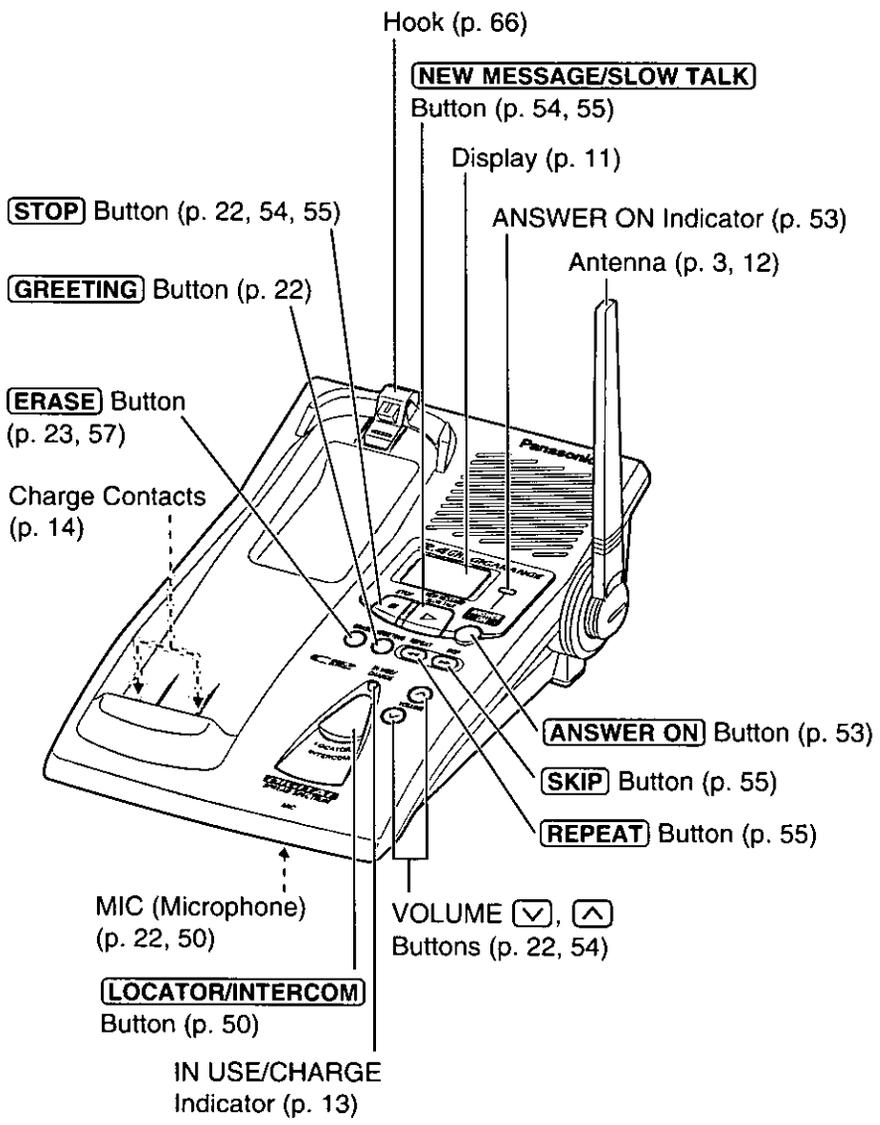
Useful Information

Location of Controls

Handset



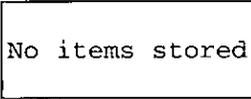
Base unit



Displays

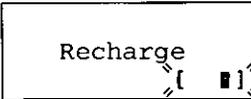
Both the handset and the base unit show you instructions and information on the displays. These display prompts are shown below.

Handset display



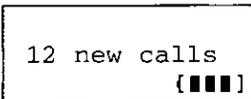
No items stored

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



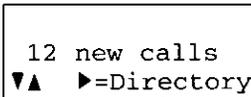
Recharge [[]]

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



12 new calls [[[[]]]]

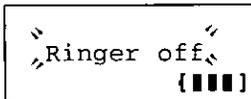
The display shows the number of new calls and the battery strength while the handset is on the base unit.



12 new calls
▼▲ ▶=Directory

This display shows the number of new calls when ▼ or ▲ is pressed while the handset is off the base unit.

To search from the most recent call, press ▼. To search from the oldest call, press ▲ (p. 34). To go to the directory list, press FWD/EDIT ▶ (Directory key).



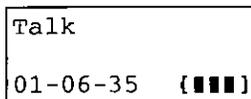
Ringer off [[[[]]]]

When the handset ringer volume is set to OFF (p. 20), "Ringer off" will flash for about 45 seconds before the handset returns to the standby mode (p. 14).



ROBINSON, TINA
1-000-222-3333

When a call is received, the display shows the caller's name and number after the first ring.



Talk
01-06-35 [[[[]]]]

During a conversation, the display shows the length of the call (ex. 1 hour, 6 minutes and 35 seconds). The battery strength is also displayed (p. 13).



No link to base
Place on cradle
and try again.

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

SMITH, JACK
1-222-333-4444
11:20A JAN10 X3

This is a name from the Caller List. The display shows:
— the caller's name,
— the caller's number,
— the time and date of the last call (ex. Jan. 10, 11:20 AM), and
— the number of times called (ex. 3 times).

Ann
1234567890

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

Paging
Press INTERCOM

The base unit is paging the handset (p. 50).

Intercom
00-00-07 [000]

The handset and the base unit are in the intercom mode (p. 50).

Intercom hold
00-01-12 [000]

An outside call has been put on hold by the handset user in the intercom mode. To release the hold, press **TALK**.

BROWN, NANCY
1-000-222-3333
----Waiting----

A second call is received during a conversation (p. 51).

➔ Displays

Please lift up
and try again.

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

Not available

While the base unit was not in the standby mode, ▼ or ▲ was pressed to search the Caller List/directory list, **FWD/EDIT** ▶ was pressed to select an option or **INTERCOM/CLEAR** was pressed.

Directory full

When trying to store an item or Caller List information in the directory, the directory memory is full (p. 38, 43).

Save error

While storing items in the directory, the handset has lost communication with the base unit. Move closer to the base unit and try again.

Answering
system setting.
See base unit.

The unit is in answering system programming mode (p. 24).

Remote
operation

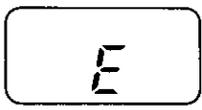
[■■■■]

The handset is operating the answering system remotely (p. 64).

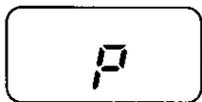
Base unit display



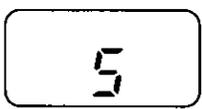
The clock needs adjusting (p. 25).



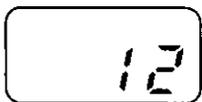
Your greeting message was not recorded correctly. Record it again (p. 22).



The unit is in the answering system programming mode.



The speaker volume level is set to "5". You can select 9 levels (0–8) while using the answering system (p. 22, 54) or the intercom (p. 50).



12 messages have been recorded.



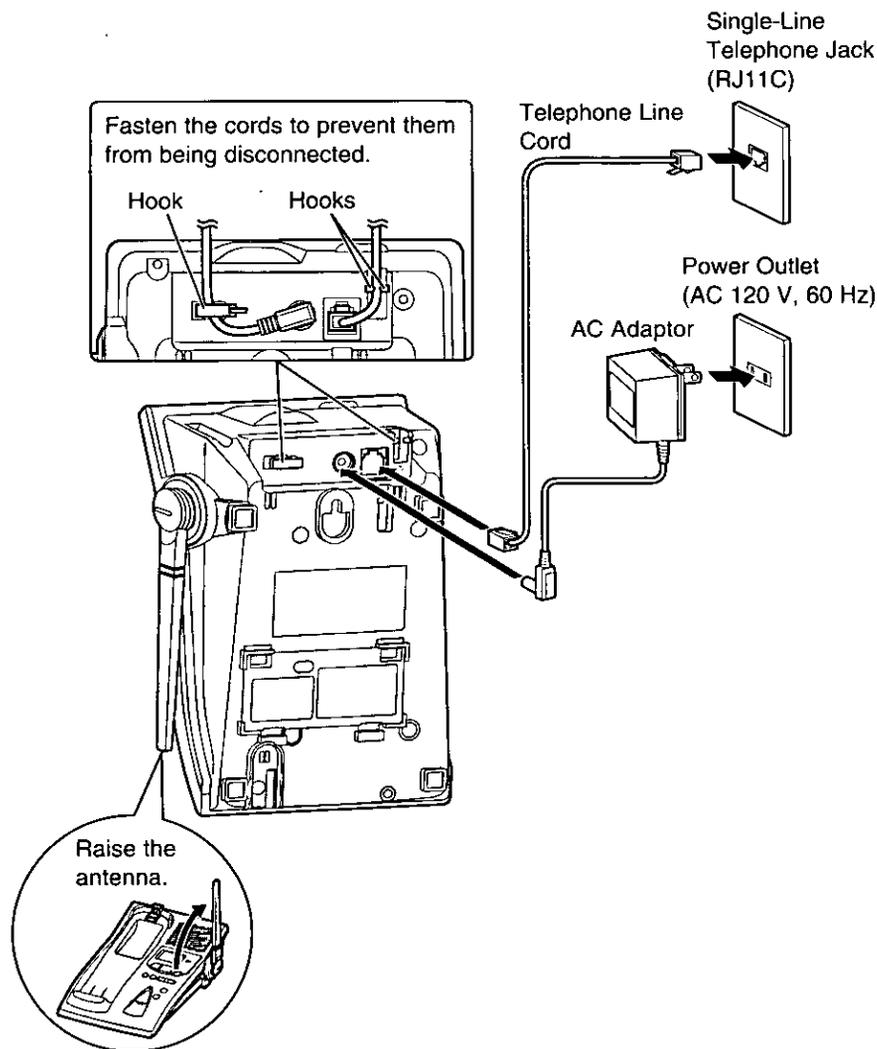
Memory is full. Erase some or all of the messages (p. 57).



The recording time is set to "Greeting only" (p. 27). (The display is blank.)

Settings

Connections



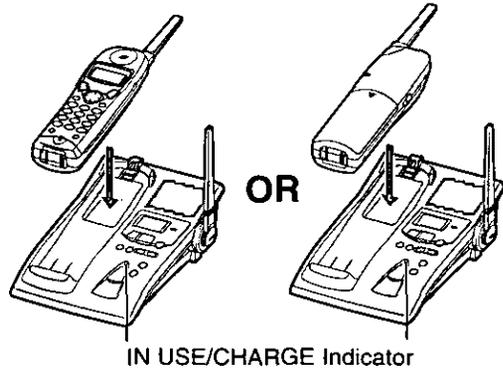
- USE ONLY WITH Panasonic AC ADAPTOR PQLV10 (Order No. PQLV10Z).
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- To connect a standard telephone on the same line, see page 69.
- If your unit is connected to a PBX which does not support Caller ID services, you cannot access those services.



Battery Charge

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

- The IN USE/CHARGE indicator lights and a beep sounds.



Preparation

Battery strength

You can check the battery strength on the handset display while the handset is on the base unit, while it is in use (making/answering a call etc.), or after viewing the Caller List or directory items, programming etc. The battery strength will remain for a few seconds after using the handset, then the display will return to the standby mode (p. 14).

The battery strength is as shown in the chart below.

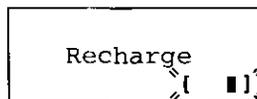
Display prompt	Battery strength
{ □□□ }	Fully charged
{ □□ }	Medium
{ □ }	Low
{ □ } (flashing)	Needs to be recharged.

➔ Settings

Recharge

Recharge the battery when:

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



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

Battery information

After your Panasonic battery is fully charged (p. 13):

Operation		Operating time
While in use (TALK)	near the base unit*	Up to 4.5 hours
	away from the base unit	Up to 3.5 hours
While not in use (Standby)		Up to 11 days

*Within about 10 feet (3 m)

- The battery operating time may be shortened depending on usage conditions, such as viewing the Caller ID Caller List or directory list, and ambient temperature.
- Clean the handset and the base unit charge contacts with a soft, dry cloth once a month. Clean more often if the unit is subject to grease, dust or high humidity.** Otherwise the battery may not charge properly.
- If the battery is fully charged, you do not have to place the handset on the base unit until “Recharge” is displayed and/or “[■]” flashes. This will maximize the battery life.
- The battery cannot be overcharged.

Standby Mode (While the handset is off the base unit)

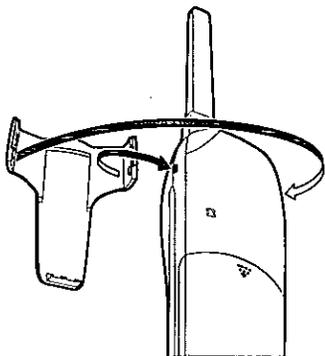
The handset goes into the standby mode after you finish using the handset (making/answering a call, viewing the Caller List or directory list etc.). The display is blank, but the handset can receive calls. The battery operating time is conserved in this mode.



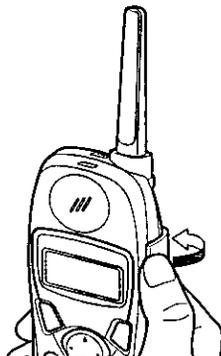
Using the Belt Clip

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

To attach the belt clip



To remove the belt clip

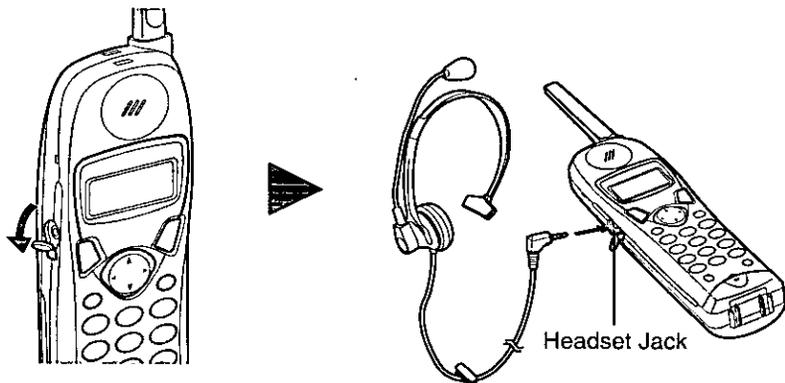


Using an Optional Headset

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 below.



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.

Selecting the Dialing Mode

You can program the dialing mode using the handset near the base unit.

If you have touch tone service, set to "Tone". If rotary or pulse service is used, set to "Pulse". Your phone comes from the factory set to "Tone".

Make sure the unit is in the standby mode initially.

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

▶Save directory
Ringer volume
▼▲ ▶=Yes
- 2 Press **▼** or **▲** repeatedly until the arrow points to "Program".

▶Program
LCD contrast
▼▲ ▶=Yes
- 3 Press **FWD/EDIT** **▶** (Yes key).

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

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

Dial mode
:Tone
▼▲ ▶=Save
- 6 Press **▼** or **▲** to select "Pulse" or "Tone".

Dial mode
:Pulse
▼▲ ▶=Save
- 7 Press **FWD/EDIT** **▶** (Save key).
 - A beep sounds.
 - To return to the standby mode, press **FUNCTION/EXIT/CH**.

Dial mode
:Pulse

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

•If the handset has lost communication with the base unit, 3 beeps sound and "No link to base Place on cradle and try again." is displayed.

Selecting the Line Mode

If the line is connected to a low voltage system such as a PBX, set to "B". Otherwise the Call Waiting Caller ID Feature may not be used (p. 51). Your phone comes from the factory set to "A".

Use the handset near the base unit.

Make sure the unit is in the standby mode initially.

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

▶ Save directory
 Ringer volume
 ▼▲ ▶=Yes
- 2 Press ▼ or ▲ repeatedly until the arrow points to "Program".

▶ Program
 LCD contrast
 ▼▲ ▶=Yes
- 3 Press **FWD/EDIT** ▶ (Yes key).

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

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

Line mode
 :A
 ▼▲ ▶=Save
- 6 Press ▼ or ▲ to select "B" or "A".

Line mode
 :B
 ▼▲ ▶=Save
- 7 Press **FWD/EDIT** ▶ (Save key).

Line mode
 :B

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

- You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.
- If the handset has lost communication with the base unit, 3 beeps sound and "No link to base Place on cradle and try again." is displayed.

Programmable Functions

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

Make sure the unit is in the standby mode initially.

Press **FUNCTION/EXIT/CH**.



<Function menu>*

▶ Save directory.....	To store an item in the directory (p. 43).
Ringer volume.....	To select the ringer volume (p. 20).
Program	
LCD contrast.....	To select the LCD contrast (p. 21).

Press **FWD/EDIT** .

Press **FWD/EDIT** .

<Function menu>*

▶ Save DIRECT#.....	To store a phone number in the DIRECT button (p. 40).
Set flash time.....	To select the flash time (p. 52).
Set line mode.....	To select the line mode (p. 17).
Set dial mode.....	To select the dial mode (p. 16).
Talk switching.....	To set the auto talk feature (p. 19).
TAD program.....	To program answering system functions (p. 24).

During programming:

- *To select a desired function item, press  or  repeatedly until the arrow points to the item. Then press **FWD/EDIT**  to go to the next step.
- You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.
- If you do not press any buttons for 60 seconds, the unit will return to the standby mode.
- If the handset has lost communication with the base unit, 3 beeps sound and "No link to base Place on cradle and try again." is displayed.



Setting the Auto Talk Feature

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

Make sure the unit is in the standby mode initially.

- 1 Press **FUNCTION/EXIT/CH**.
- 2 Press **▼** or **▲** repeatedly until the arrow points to "Program".

▶Program
 LCD contrast
 ▼▲ ▶=Yes
- 3 Press **FWD/EDIT** **▶** (Yes key).
- 4 Press **▼** or **▲** repeatedly until the arrow points to "Talk switching".

▶Talk switching
 TAD program
 ▼▲ ▶=Yes
- 5 Press **FWD/EDIT** **▶** (Yes key).

Auto talk
 :Off
 ▼▲ ▶=Save
- 6 Press **▼** or **▲** to select "On" or "Off".

Auto talk
 :On
 ▼▲ ▶=Save
- 7 Press **FWD/EDIT** **▶** (Save key).

Auto talk
 :On

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

- You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.
- In order to view Caller ID information before answering a call, leave the Auto Talk feature OFF.

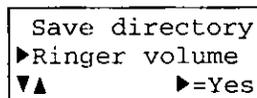
➔ Programmable Functions

Selecting the Ringer Volume

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

Make sure the unit is in the standby mode initially.

- 1 Press **FUNCTION/EXIT/CH**.
- 2 Press **▼** or **▲** repeatedly until the arrow points to "Ringer volume".

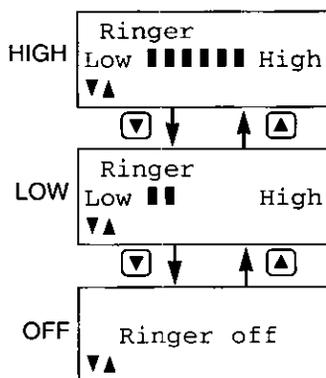


- 3 Press **FWD/EDIT** **▶** (Yes key).

- 4 Press **▼** or **▲** to select the desired volume.
 - The selected volume is displayed and rings.
 - To turn the ringer OFF, press and hold **▼** until 2 beeps sound.

To turn the ringer ON, press **▲** or **▼** in step 4.

- The ringer will sound at the LOW level.



- You can also select the ringer volume while a call is being received. Press **▼** or **▲** while the unit is ringing.
- When set to OFF, "Ringer off" will flash for about 45 seconds before the handset returns to the standby mode.
- When you replace the battery, the selected ringer volume setting will return to the factory set (HIGH). Reprogram if necessary.

Selecting the LCD Contrast

You can program the handset LCD contrast (5 levels). To make the handset display clearer, set to high level. Your phone comes from the factory set to level 3.

Make sure the unit is in the standby mode initially.

- 1 Press **FUNCTION/EXIT/CH**.
- 2 Press **▼** or **▲** repeatedly until the arrow points to "LCD contrast".
- 3 Press **FWD/EDIT** **▶** (Yes key).
- 4 Press **▼** or **▲** to select the desired contrast.
 - Each time you press **▼** or **▲**, the LCD contrast will change.
- 5 Press **FWD/EDIT** **▶** (Save key).
 - A beep sounds.
 - To return to the standby mode, press **FUNCTION/EXIT/CH**.

Program
▶LCD contrast
▼▲
▶=Yes

LCD contrast
Low ■■■ High
▼▲
▶=Save

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

Preparing the Answering System

Greeting Message

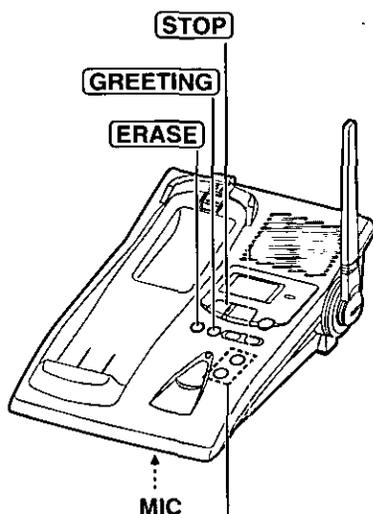
You can record a personal greeting message of **up to 2 minutes**. If a greeting message is not recorded, one of two pre-recorded greetings will be played when a call is received (p. 23).

All messages (greeting, incoming, etc.) are stored in digital memory (p. 23). The **total recording time is about 15 minutes**.

We recommend you record a **brief greeting message** (see sample below) in order to leave more time for recording new messages.

To record a greeting message

- 1 Press and hold **GREETING** until "Record greeting after the beep" is heard.
- 2 Talk 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 2 minutes, the unit will automatically stop recording.
- 3 When finished, press **STOP**.
 - To **check** the recorded greeting, press **GREETING** briefly.
 - To **change** the message, start again from step 1.



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

Greeting message sample

"Hello, this is (your name and/or number). Sorry I cannot take your call. Please leave a message after the beep. Thank you."



To erase the recorded greeting message

Press **[GREETING]** briefly ⇒ press **[ERASE]** while the message is being played

- The unit will answer a call with a pre-recorded greeting

Pre-recorded greeting message

If you do not record a greeting message (p 22), one of two messages will be played when a call is received, depending on the caller's recording time (p 27)

To check the pre-recorded greeting, press **[GREETING]** briefly

- A pre-recorded greeting will be played as follows

■ When the recording time is set to "1 minute" or "3 minutes"

"Hello, we are not available now Please leave your name and phone number after the beep We will return your call "

■ When the recording time is set to "Greeting only"

"Hello, we are not available now Please call again Thank you for your call "

Flash Memory Message Backup

Messages are stored on a "flash memory" IC chip and will not be affected by power failures All messages are saved until you erase them

➡ Preparing the Answering System

Programming Summary for the Answering System

You can program the following functions using the handset near the base unit. Make sure the unit is in the standby mode initially.

Press **FUNCTION/EXIT/CH**.

Press **▼** or **▲** to select "Program", and press **FWD/EDIT** **▶** (Yes key).

Press **▼** or **▲** to select "TAD program", and press **FWD/EDIT** **▶** (Yes key).

•"Answering system setting. See base unit." is displayed on the handset.

To adjust the time and day, press **0**. (page 25)

To set the remote code, press **1**. (page 59)

To select the number of rings, press **2**. (page 28)

To select the caller's recording time, press **5**. (page 27)

•The base unit display shows numbers related to the adjustment or settings.

Press **FWD/EDIT** **▶** (Save key).

- You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.
- If you do not press any buttons for 60 seconds, the unit will return to the standby mode.
- If 6 beeps sound on the base unit during programming, a wrong key was pressed. Enter the correct number.
- If the handset has lost communication with the base unit, 3 beeps sound and "No link to base Place on cradle and try again." is displayed on the handset.



Day and Time Adjustment

Preparation

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

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

▶Save directory
Ringer volume
▼▲ ▶=Yes

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

▶Program
LCD contrast
▼▲ ▶=Yes

3 Press **FWD/EDIT** **▶** (Yes key).

▶Save DIRECT#
Set flash time
▼▲ ▶=Yes

4 Press **▼** or **▲** repeatedly until the arrow points to "TAD program".

Talk switching
▶TAD program
▼▲ ▶=Yes

5 Press **FWD/EDIT** **▶** (Yes key).
•"P" is displayed on the base unit.

Answering
system setting.
See base unit.

6 Press **0**.
•"Set time" is announced.
If previously adjusted, the day/time will be heard.

7 Enter the time (hour and minute) using a 4-digit number.
(Ex. To set 9:30, enter "0930".)
•The last two digits of the entered number are displayed.

8 Press ***** to select "AM" or "PM".
Press **#** repeatedly to set the day.

9 Press **FWD/EDIT** **▶** (Save key).
•The unit announces the day/time. The clock starts working.
•If 6 beeps sound, the setting is not correct. Start again from step 5.
•To return to the standby mode, press **FUNCTION/EXIT/CH**.

➡ Preparing the Answering System

- In step 7, you cannot enter numbers greater than 12. **Do not use military time.** (To set 13:00 hours, enter "0100", and select "PM" by pressing **[*]**.)

If a power failure occurs, the time may be shifted. When "⌚" flashes on the base unit display, reprogram the current day/time.

To check the time/day

Repeat steps 1 to 6 on page 25.

- The current time/day is heard. When finished, press **[FUNCTION/EXIT/CH]**.

For Caller ID service users (p. 32)

- The Caller ID information will re-set the clock after the first ring if the adjusted time is incorrect. However, the day will not be re-set. Set the day following the procedures on pages 25.
- If the time has not previously been set, the Caller ID information will not adjust the clock.
- The Caller ID information will automatically adjust the clock for daylight saving time.



Selecting the Caller's Recording Time

You can select "1 minute", "3 minutes" or "Greeting only" for the caller's recording time. Your phone comes from the factory set to "3 minutes".

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

▶Save directory
Ringer volume
▼▲ ▶=Yes

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

▶Program
LCD contrast
▼▲ ▶=Yes

3 Press **FWD/EDIT** **▶** (Yes key).

▶Save DIRECT#
Set flash time
▼▲ ▶=Yes

4 Press **▼** or **▲** repeatedly until the arrow points to "TAD program".

Talk switching
▶TAD program
▼▲ ▶=Yes

5 Press **FWD/EDIT** **▶** (Yes key).
•"P" is displayed on the base unit.

Answering
system setting.
See base unit.

6 Press **5**.
•The current setting is displayed on the base unit.
1: 1 minute
2: 3 minutes
3: Greeting only

7 Press **1**, **2** or **3** to select the recording time.
•The setting is displayed on the base unit.

8 Press **FWD/EDIT** **▶** (Save key).
•A beep sounds.
•To return to the standby mode, press **FUNCTION/EXIT/CH**.

If you select "Greeting only", the unit will answer a call with the greeting message, and then hang up. The unit will not record any incoming messages.

➔ Preparing the Answering System

Selecting the Number of Rings

You can select the number of times the unit rings before the answering system answers a call, from "2" to "7" or "AUTO" (for Toll Saver*). Your phone comes from the factory set to "AUTO".

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

▶ Save directory
Ringer volume
▼▲ ▶=Yes

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

▶ Program
LCD contrast
▼▲ ▶=Yes

3 Press **FWD/EDIT** **▶** (Yes key).

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

4 Press ▼ or ▲ repeatedly until the arrow points to "TAD program".

Talk switching
▶ TAD program
▼▲ ▶=Yes

5 Press **FWD/EDIT** **▶** (Yes key).
• "P" is displayed on the base unit.

Answering
system setting.
See base unit.

6 Press **2**.
• The current setting is displayed on the base unit.

7 Press **0**, or **2** to **7** to set the number of rings.
0: Selects "AUTO". "A" is displayed.
2-7: The unit will answer after the selected number of rings.

8 Press **FWD/EDIT** **▶** (Save key).
• A beep sounds.
• To return to the standby mode, press **FUNCTION/EXIT/CH**.

*Toll saver (When set to "AUTO")

When you call the unit from a touch tone telephone:

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

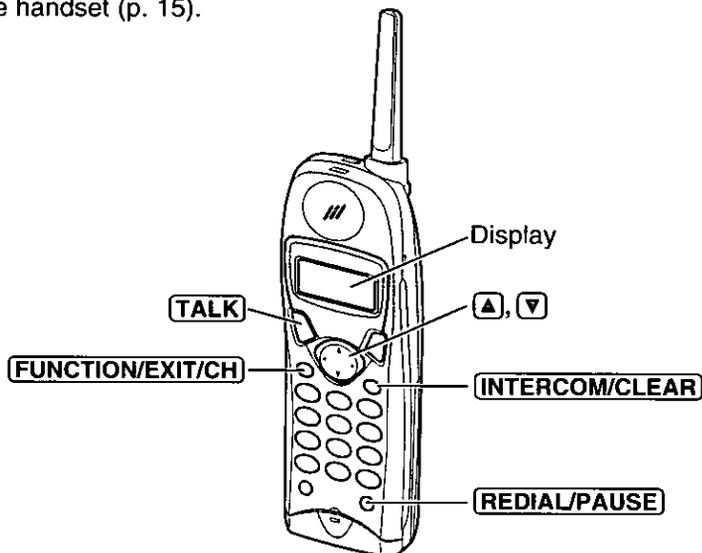
If the unit answers on the 4th ring, there are no new messages.

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

Making Calls



To have a hands-free phone conversation, connect the optional headset to the handset (p. 15).



Cordless Telephone

1 Press **TALK**.

Talk

2 Dial a phone number.

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

Talk
1112222

Talk
00-00-00 {■■■■}

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

Off
00-01-08 {■■■■}

•If the handset has lost communication with the base unit, 3 beeps sound and "No link to base Place on cradle and try again." is displayed.

If noise interferes with the conversation

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

To redial the last number dialed

Press **TALK** and press **REDIAL/PAUSE**.

For assistance, please call: 1-800-211-PANA(7262)

➔ Making Calls

To dial after confirming the entered number

- 1 Dial a phone number.
•If you misdial, press **INTERCOM/CLEAR** and dial again.

3334444

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

Talk
3334444

Talk
00-00-00 [■■■]

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

Off
00-01-08 [■■■]

To redial after confirming the last number dialed

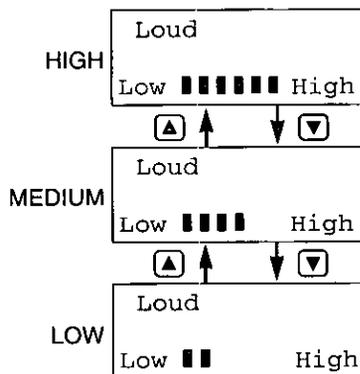
Press **REDIAL/PAUSE** and press **TALK**.

To adjust the receiver volume (HIGH, MEDIUM or LOW) while talking

To increase, press **▲**.

To decrease press **▼**.

- Each time you press **▼** or **▲**, the volume level will change.
- The display will return to the length of the call.



Answering Calls

When a call is received, the unit rings, "Incoming call" is displayed on the handset and the IN USE/CHARGE indicator on the base unit flashes quickly.

If you subscribe to a Caller ID service, the calling party information will be displayed after the first ring (p. 32). In order to view the Caller ID information, please wait until the second ring to answer a call.

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

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

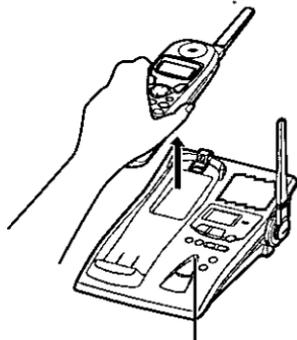


Cordless Telephone

Auto Talk

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

When the optional headset is connected (p. 15), make sure to use the headset to talk with the caller. If you want to have a normal cordless phone conversation, disconnect the headset.



IN USE/CHARGE Indicator

Lighted handset keypad

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

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

Backlit LCD display

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

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 after the first ring.

The unit can record information of up to 50 different callers, including the time and date received and the number of times called, 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 directory.

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 will be displayed (p. 51).

How caller information is displayed when a call is received

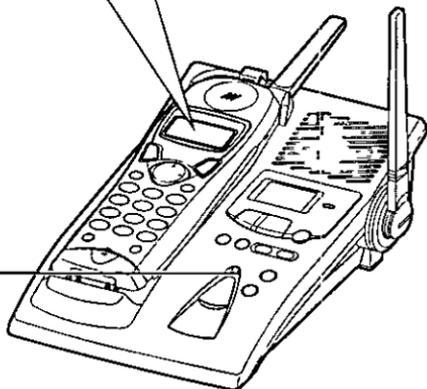
The handset display shows the caller's name and phone number after the first ring.

ROBINSON, TINA
1-000-222-3333

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

Talk
00-00-00 [■■■■]

The IN USE/CHARGE indicator light will flash quickly when a call is being received.



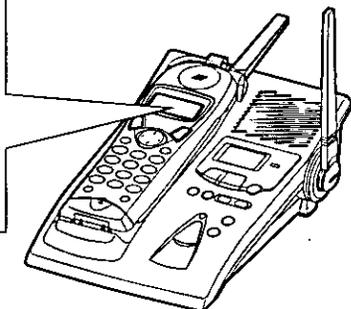
- Caller information cannot be displayed in the following cases:
 - If the caller dialed from an area which does not provide a Caller ID service, the display will show "Out of area".
 - If the caller has requested not to display his/her information, the display will show "Private caller".
- If your unit is connected to a PBX which does not support Caller ID services, you cannot access those services.
- The name display service may not be available in some areas. For further information, please contact your telephone company.

To check the number of new calls

While the handset is on the base unit:

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

10 new calls
{■■■■}



Cordless Telephone

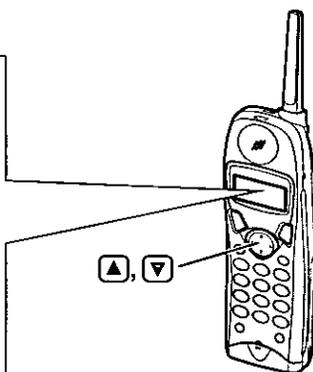
While the handset is off the base unit:

The unit must be in the standby mode.

Press  or  to turn the display on.

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

10 new calls
▼▲ ▶=Directory



- If "No items stored" is displayed, the Caller List is empty.

Using the Caller List

Viewing the Caller List

To check who has called, follow the steps below.

Make sure the unit is in the standby mode initially.

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

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

2 new calls
  =Directory

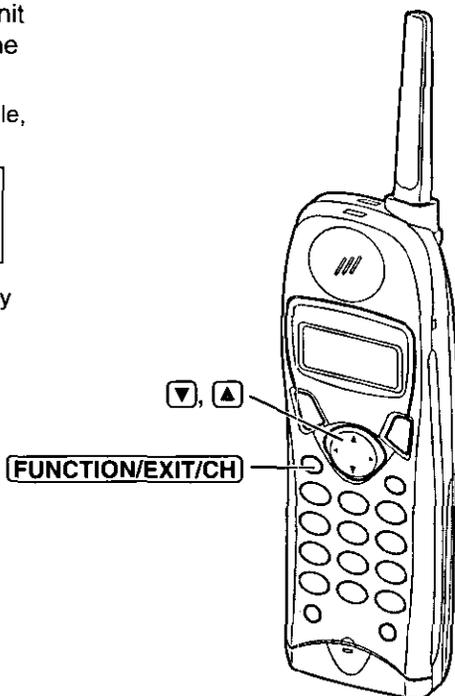
- You can go to the directory list by pressing **FWD/EDIT**  (p. 46).

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

- To scroll between callers, press  or .

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

- The handset will return to the standby mode.



- Once new calls have been checked, "✓" will be added.
- If "No items stored" is displayed, the Caller List is empty.
- If more than one call is received from the same caller, the date and time of the last call will be recorded. If the same caller calls again, the call entry with "✓" will be deleted.



Ex. When you search from the most recent call:

Lift the handset off the base unit and press **▼** or **▲**.

2 new calls
▼▲ ▶=Directory

Press **▼**.

SMITH, JACK
1-222-333-4444
3:10P JUN10

Press **▼**.

BROWN, NANCY
222-3333
1:54P JUN 9 X3

Press **▼**.

TURNER, CINDY
1-234-456-7890
10:38A JUN 9 ✓

Press **▼**.

0 new call
▼▲ ▶=Directory

Press **▼**.

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

To return to the previous caller, press **▲**.

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

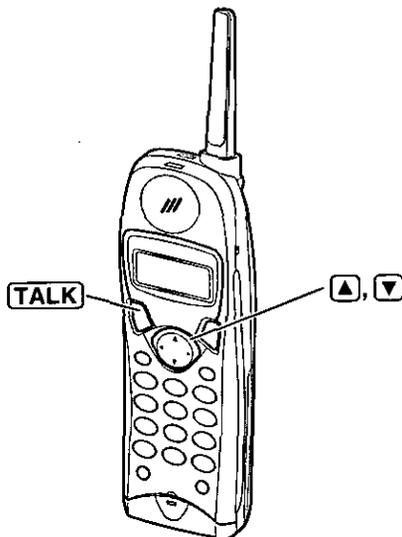
•The handset will return to the standby mode.

Display meaning:

- ✓ : You have checked this caller information, answered the call, called back the caller or played back the message.
- x2-x9 : The number of times the same caller called (up to 9).
After checking, "x2" – "x9" will be replaced with "✓".

➔ Using the Caller List

Calling Back from the Caller List



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

3 new calls
  =Directory

- 2 Press  or  repeatedly to find the desired caller.

TURNER, CINDY
1-234-456-7890
11:20A JAN12 X3

- 3 Press **TALK**.
•The displayed phone number is dialed automatically.

Talk
12344567890

Talk
00-00-00 {■■■■}

- In some cases, you may have to edit the number before dialing (p. 37). (Ex. You may have to delete "1" and the area code.)
- If a phone number is not displayed in the caller information, you cannot call back that caller.



Editing the Caller's Phone Number

You can edit a phone number into one of 4 patterns.
Make sure the unit is in the standby mode initially.

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

5 new calls
 =Directory

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

PARKER, FRED
1-234-321-5555
11:20A JAN12 ✓

Edit
Save directory
 =Yes

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

PARKER, FRED
1-234-321-5555
=Next =Edit

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

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

(a)

(a) 321-5555
=Next =Edit

(b) -

(b) 234-321-5555
=Next =Edit

(c) 1 -

(c) 1-321-5555
=Next =Edit

(d) 1 - -

(d) 1-234-321-5555
=Next =Edit

•The order in which patterns (a)–(d) are displayed depends on how the telephone number is displayed in step 2.

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

To call back, press **TALK** (p. 36).

To store the number in the directory, press (Next key), and press **FWD/EDIT** (Save key). (If the caller has no name information, see page 38, from step 3.)

PARKER, FRED
321-5555
=Edit =Save

Cordless Telephone

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

➔ Using the Caller List

Storing Caller List Information in the Directory

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

Make sure the unit is in the standby mode initially.

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

```
10 new calls
▼▲ ▶=Directory
```

2 Press **▼** or **▲** repeatedly to find the caller you want to store in the directory, and press **FWD/EDIT** **▶** (Yes key).

```
TURNER, CINDY
1-234-456-7890
11:20A JAN12 X3
```

•If the number requires editing, see page 37.

```
▶Edit
  Save directory
▼▲ ▶=Yes
```

3 Press **▼** or **▲** to select "Save directory", and press **FWD/EDIT** **▶** (Yes key).

```
Edit
▶Save directory
▼▲ ▶=Yes
```

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

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

```
Enter name
□
◀▶ ▼=Next
```

b) If a name is required, enter the name (p. 44). When finished, press **▼** (Next key) and press **FWD/EDIT** **▶** (Save key).

```
Enter name
TURNER, CINDY
◀▶ ▼=Next
```

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

```
TURNER, CINDY
12344567890
```

- You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**.
- If the display shows "Directory full" in step 3, press **FUNCTION/EXIT/CH** to exit the list. To erase other stored items from the directory, see page 49.
- After the maximum of 50 items has been stored, "Directory full" is also displayed.
- You cannot store caller information in the directory if a phone number is not displayed.
- If 3 beeps sound and the display shows "Save error" in step 3, move closer to the base unit and start again from step 2.

Erasing Caller List Information

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

To erase a specific caller from the Caller List

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

```
10 new calls
▼▲ ▶=Directory
```

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

```
REAGAN, TOM
1-888-777-6666
12:20A JAN12 ✓
```

- 3 Press **INTERCOM/CLEAR**.
- A beep sounds and the information is erased.
 - To erase other items, repeat from step 2.
 - To return to the standby mode, press **FUNCTION/EXIT/CH**.

```
Clear
```

To erase all entries in the Caller List

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

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

```
0 new call
▼▲ ▶=Directory
```

- 2 Press **INTERCOM/CLEAR**.

```
▶Exit
All clear
▼▲ ▶=Yes
```

- 3 Press **▼** or **▲** to select "All clear".

```
Exit
▶All clear
▼▲ ▶=Yes
```

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

```
All clear
```

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

Cordless Telephone

One-Touch Dialer

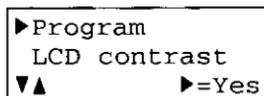
You can store one phone number in the **DIRECT** button of the handset
The stored number is dialed with a one-touch operation

Storing a Phone Number in the DIRECT Button

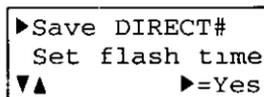
Make sure the unit is in the standby mode initially.

1 Press **FUNCTION/EXIT/CH**

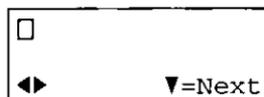
2 Press **▼** or **▲** repeatedly until the arrow points to "Program"



3 Press **FWD/EDIT** **▶** (Yes key)

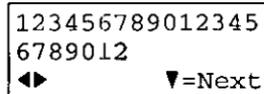


4 While the arrow points to "Save DIRECT#", press **FWD/EDIT** **▶** (Yes key)



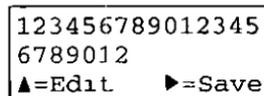
5 Enter a phone number, up to 22 digits

- if you misdial, press **INTERCOM/CLEAR**
Digits are erased from the right To erase all digits, press and hold **INTERCOM/CLEAR**
- To move the cursor, press **BACK** **◀** or **FWD/EDIT** **▶**



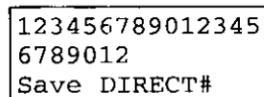
6 Press **▼** (Next key)

- If you want to edit the entered number, press **▲** (Edit key) and return to step 5



7 Press **FWD/EDIT** **▶** (Save key)

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



- You can exit the programming mode any time by pressing **FUNCTION/EXIT/CH**
- If a pause is required for dialing, **REDIAL/PAUSE** can be stored in a phone number in step 5 This counts as one digit (p. 51)

Dialing the Stored Number in the DIRECT Button

- 1 Press **DIRECT**.
•The stored number is displayed.

123456789012345 6789012

- 2 Press **TALK**.
•The number is dialed.

Talk 123456789012345 6789012

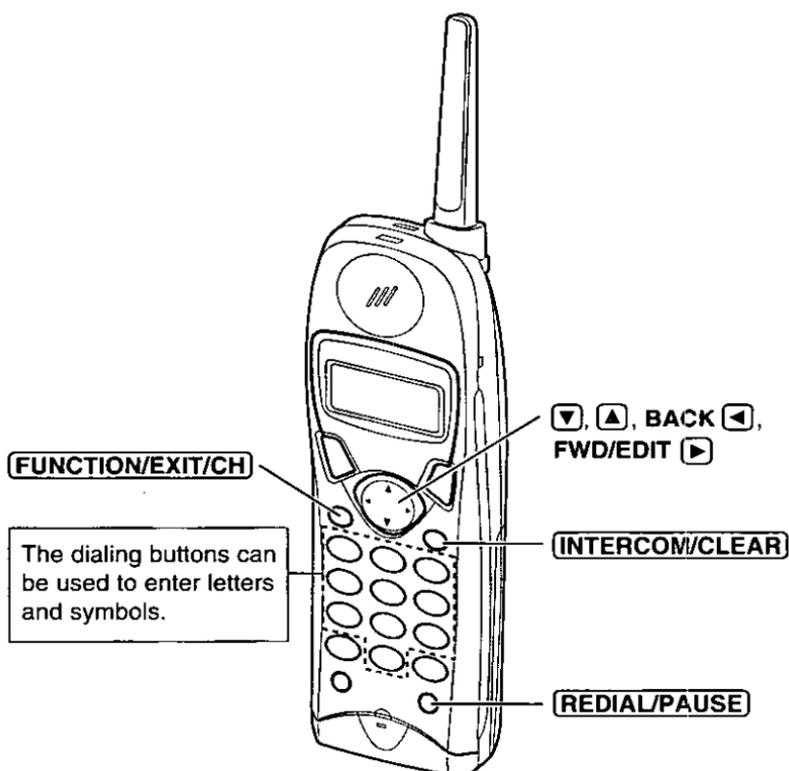
- You can also dial the stored number by pressing **TALK** then pressing **DIRECT**. (If your line has rotary or pulse service, any access numbers stored after pressing **TONE** will not be dialed.)

Using the Directory

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

Storing Names and Numbers in the Directory

Make sure the unit is in the standby mode initially.





1 Press **FUNCTION/EXIT/CH**

▶ Save directory
Ringer volume
▼▲ ▶=Yes

2 While the arrow points to "Save directory", press **FWD/EDIT** (▶) (Yes key)
•The display shows the number of stored items in the directory

Directory=
20 items

3 Enter a name, up to 15 characters using the dialing buttons (p 44)

- To move the cursor, press **BACK** (◀) or **FWD/EDIT** (▶)
- If a name is not required, press (▼) (Next key) and go to step 5

Enter name
□
◀▶ ▼=Next

Enter name
Tom Jones
◀▶ ▼=Next

4 Press (▼) (Next key)

Enter phone no

5 Enter a phone number, up to 22 digits
•If you misdial, press **INTERCOM/CLEAR**
Digits are erased from the right To erase all digits, press and hold **INTERCOM/CLEAR**

0987654321□
◀▶ ▼=Next

6 Press (▼) (Next key)
•If you want to change the storing name or number, press (▲) (Edit key) repeatedly to reach the desired display and change it

Tom Jones
0987654321
▲=Edit ▶=Save

7 Press **FWD/EDIT** (▶) (Save key)
•A beep sounds
•To continue storing other items, repeat from step 2
•To return to the standby mode, press **FUNCTION/EXIT/CH**

Tom Jones
0987654321

•If a pause is required for dialing, **REDIAL/PAUSE** can be stored in a phone number in step 5 This counts as one digit (p 51)

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

•If the display shows "Directory full" in step 2, press **FUNCTION/EXIT/CH**
To erase other stored items from the directory, see page 49

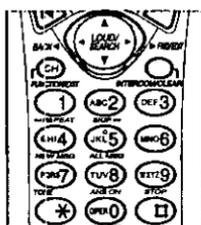
•After the maximum of 50 items has been stored, "Directory full" is also displayed

➔ Using the Directory

Selecting Characters to Enter Names

The handset dialing buttons (0 to 9), **BACK** ◀ and **FWD/EDIT** ▶ 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	6	7	8	9	10	11
1	#	&	'	()	*	,	-	.	/	1
2	A	B	C	a	b	c	2				
3	D	E	F	d	e	f	3				
4	G	H	I	g	h	i	4				
5	J	K	L	j	k	l	5				
6	M	N	O	m	n	o	6				
7	P	Q	R	S	p	q	r	s	7		
8	T	U	V	t	u	v	8				
9	W	X	Y	Z	w	x	y	z	9		
0	0	Blank									
BACK ◀	To move the cursor to the left										
FWD/EDIT ▶	To move the cursor to the right										

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

If you make a mistake while entering a name

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



For example, to enter "Tom Jones":

1 Press **FUNCTION/EXIT/CH**

```
▶Save directory
Ringer volume
▼▲ ▶=Yes
```

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

```
Directory=
20 items
```

```
Enter name
□
◀▶ ▼=Next
```

3 Press **8**

```
T
```

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

```
To□
```

5 Press **6** four times

```
Tom
```

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

```
Tom □
```

7 Press **5**

```
Tom J
```

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

```
Tom Jo□
```

9 Press **6** five times

```
Tom Jon
```

10 Press **3** five times

```
Tom Jonē
```

11 Press **7** eight times

```
Enter name
Tom Jones
◀▶ ▼=Next
```

12 When finished, press **▼** (Next key)
•To enter a phone number and continue storing, see page 43, from step 5

```
Enter phone no
```

Gordless Telephones

➔ Using the Directory

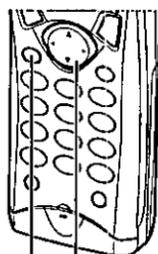
Finding Items in the Directory

You can search the directory using the handset.

Make sure the unit is in the standby mode initially.

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

```
Directory list
▼▲
▶=Caller's list
```



▼, ▲, **BACK** ◀,
FWD/EDIT ▶

FUNCTION/EXIT/CH

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

```
Ann
1234567890
```

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

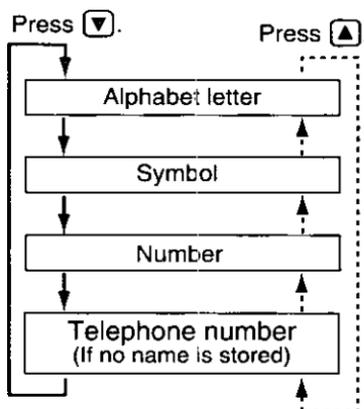
•All directory items are stored in the order shown on the right.

To search for a name by initial

- ① Press the dialing button for the first letter of the desired name until any name with the same initial is displayed (see the Index table on page 47).

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

- ② Press ▼ repeatedly until the name is displayed.



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

•If "No items stored" is displayed in step 2, the directory is empty.

•In step 1, you can go to the Caller List by pressing **FWD/EDIT** ▶ (p. 34).



Index table

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

Dialing from the Directory

Make sure the unit is in the standby mode initially.

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

Directory list
▼▲
▶=Caller's list

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

- 3 Press (▼) or (▲) repeatedly to find the directory item that you want to dial.
•To search for the item by initial, see page 46.
•To exit the directory, press **FUNCTION/EXIT/CH**.

Frank
4567890

- 4 Press **TALK**.
•The number is dialed automatically.

Talk
4567890

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

➔ Using the Directory

Editing an Item in the Directory

Make sure the unit is in the standby mode initially.

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

```
Directory list
▼▲
▶=Caller's list
```

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

```
Jane
1234567
```

3 Press (▼) or (▲) repeatedly to find the directory item you want to change, and press **FWD/EDIT** (▶).
•To search for the item by initial, see page 46.
•If you do not need to change the name, go to step 5.

```
Enter name
Jane
◀▶ ▼=Next
```

4 Edit the name using the dialing buttons, **BACK** (◀) or **FWD/EDIT** (▶) (p. 45), up to 15 characters.

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

5 Press (▼) (Next key).
•If you do not need to change the number, go to step 7.

```
1234567
◀▶ ▼=Next
```

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

```
0981234567
◀▶ ▼=Next
```

7 Press (▼) (Next key).
•If you want to change the storing name or number, press (▲) (Edit key) repeatedly to reach the desired display and change it.

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

8 Press **FWD/EDIT** (▶) (Save key).
•A beep sounds.
•To continue editing other items, repeat from step 3.
•To return to the standby mode, press **FUNCTION/EXIT/CH**.

```
Jane Walker
0981234567
```

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

Erasing an Item from the Directory

Make sure the unit is in the standby mode initially

- 1 Press **BACK**  or **FWD/EDIT**  to enter the directory list

Directory list
▼▲
▶=Caller's list

- 2 Press  or 
•The first item is displayed

- 3 Press  or  repeatedly to find the directory item you want to erase
•To search for the item by initial, see page 46

Helen
1234567890

- 4 Press **INTERCOM/CLEAR**
•To stop erasing, press **BACK**  (No key)

Clear?
◀=No ▶=Yes

- 5 Press **FWD/EDIT**  (Yes key) or **INTERCOM/CLEAR**
•A beep sounds and the item is erased
•To erase other items, repeat from step 3
•To return to the standby mode, press **FUNCTION/EXIT/CH**

Clear

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

Intercom

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

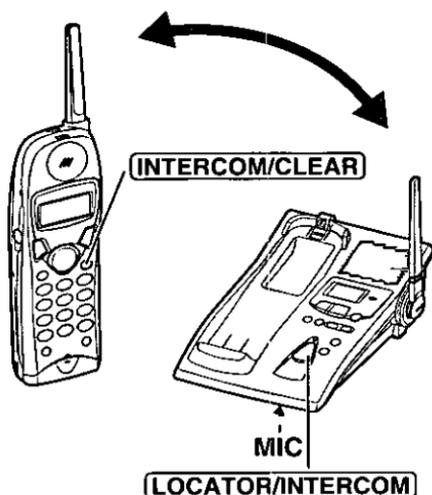
Paging the base unit from the handset

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

- “Intercom” is displayed.

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

- 3 Handset:
To end the intercom, press **INTERCOM/CLEAR**.



Paging the handset from the base unit (Handset locator)

Using this feature, you can locate a misplaced handset.

- 1 Base unit:
Press **LOCATOR/INTERCOM**.

- The handset beeps for 1 minute and “Paging Press INTERCOM” is displayed.
- To stop paging, press **LOCATOR/INTERCOM** again.

- 2 Handset:
Press **INTERCOM/CLEAR** to answer.

- “Intercom” is displayed.

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

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

During an intercom call:

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



Automatic Security Code Setting

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

For Call Waiting Service Users

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

- The first call is put on hold and you can answer the second call.
- To return to the first caller, press **FLASH/CALL WAIT/PLAYBACK** again.
- The call waiting service cannot be used when:
 - the answering system is recording someone's message, or
 - a parallel connected telephone is in use.
- If this function does not operate properly, consult your telephone company for details.

Cordless Telephone

Call Waiting Caller ID Feature

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

BROWN, NANCY 1-000-222-3333 ----Waiting----

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

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

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

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

9 → **REDIAL/PAUSE** → Phone number

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

Temporary Tone Dialing (For Rotary or Pulse Service Users)

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

- The dialing mode changes to tone. You can enter numbers to access an answering service, electronic banking service, etc. When you hang up, the mode will return to pulse.
- Access numbers entered after pressing **[TONE]** will not be included when redialing.

FLASH Button

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

Selecting the flash time

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

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

2 Press **[▼]** or **[▲]** repeatedly until the arrow points to "Program", and press **FWD/EDIT [▶]** (Yes key).

3 Press **[▼]** or **[▲]** repeatedly until the arrow points to "Set flash time", and press **FWD/EDIT [▶]** (Yes key).

Save DIRECT#
▶Set flash time
▼▲ ▶=Yes

Flash time
:700ms
▼▲ ▶=Save

4 Press **[▼]** or **[▲]** repeatedly until the desired time is displayed, and press **FWD/EDIT [▶]** (Yes key).

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

•You can exit the programming mode any time by pressing

[FUNCTION/EXIT/CH].

•If you are connected via a PBX, a longer flash time may be necessary to use PBX functions (transferring a call etc.). Consult your PBX supplier for the correct setting.

Automatic Answering Operation

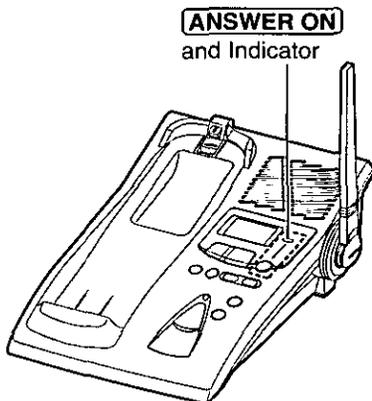
When the unit answers a call, a greeting message is played and the caller's message is recorded.

- The total recording time (including greeting message) is **about 15 minutes**. If messages are recorded in noisy rooms, the time may be shortened by up to 3 minutes.
- A maximum of 64 messages (including greeting message) can be recorded.

Setting the Unit to Answer Calls

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

- The indicator lights and "Answer set" is heard.
- The unit will announce the remaining recording time if it is less than 5 minutes.
- If you hear "Memory full", "**FULL**" is displayed on the base unit and the ANSWER ON indicator flashes rapidly, erase some, or all, of the messages (p. 57).



Answering System

- If you do not want the unit to answer calls, press **ANSWER ON** again to turn off the answering system. The indicator light goes out and "Answer off" is heard.
- You can also turn on the answering system remotely using any other phone (p. 63).

Monitoring incoming calls

While a call is being recorded, you can monitor it through the speaker. To answer the call with the handset, lift the handset off the base unit or press **TALK**. The unit stops recording.

Listening to Messages

You can see the total number of recorded messages on the base unit display. If the ANSWER ON indicator flashes, new messages have been recorded.

Listening to only new messages

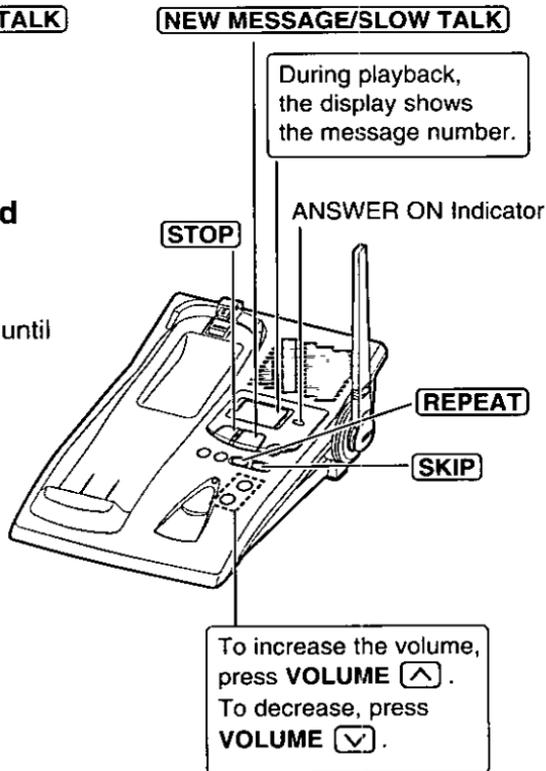
Press **NEW MESSAGE/SLOW TALK** briefly.

- The unit announces the number of new messages and plays them back.

Listening to all recorded messages

Press and hold **NEW MESSAGE/SLOW TALK** until playback starts.

- At the end of the last message, "End of final message" is heard. The unit will announce the remaining recording time if it is less than 5 minutes.



Slow Talk Message Playback

For easier listening of recorded messages, you can slow down the playback speed by pressing **NEW MESSAGE/SLOW TALK** during playback. Each time you press the button, the playback speed will change to slow/normal.

Press **NEW MESSAGE/SLOW TALK** during playback.

- The playback speed will slow down by 30%.
- To return to the normal speed, press **NEW MESSAGE/SLOW TALK** again during playback.
- The playback speed will return to normal after playing back all messages.



During playback

To repeat message	To repeat from the beginning of the message Press [REPEAT] . •If you press within 5 seconds of playback, the previous message will be played.
To skip message	To skip to the next message Press [SKIP] .
To stop operation	Press [STOP] . •To resume playback, press [NEW MESSAGE/SLOW TALK] . •If you do not press any button for 60 seconds or if you press [STOP] again, the unit will return to the standby mode.

For Caller ID service users (p. 32)

During playback, when the handset is on the base unit, the handset display will show the name and/or number of the caller whose message is being played.

To call back the displayed number:

During playback, lift the handset and press **[TALK]** within 10 seconds.

- The unit stops playback and automatically dials the displayed phone number.
- After listening to new incoming messages, “√” will be added to the call entries in the Caller ID Caller List (p. 35).

➔ Listening to Messages

From the Handset

If someone else is in the room and you want to listen to the recorded messages privately, you can use the handset

1 Handset

Press

FLASH/CALL WAIT/PLAYBACK

- The number of new messages is heard on the handset

2 Base unit

To listen to new messages, press

NEW MESSAGE/SLOW TALK

briefly To listen to all messages, press and hold

NEW MESSAGE/SLOW TALK

until playback starts

- The messages will be heard on the handset
- NEW MESSAGE/SLOW TALK**, **REPEAT**, **SKIP** and **STOP** can also be used during playback (p 54, 55)



3 When finished, press

FLASH/CALL WAIT/PLAYBACK

or place the handset on the base unit

- You can also listen to messages without using the base unit See page 64

Erasing Messages

The unit will announce the remaining recording time after playback, if it is less than 5 minutes. New messages cannot be recorded when:

- “Memory full” is heard.
- “**FULL**” is displayed on the base unit.
- the ANSWER ON indicator flashes rapidly.

Erase some, or all, of the messages. We recommend you erase unnecessary messages after each playback.

Erasing a specific message

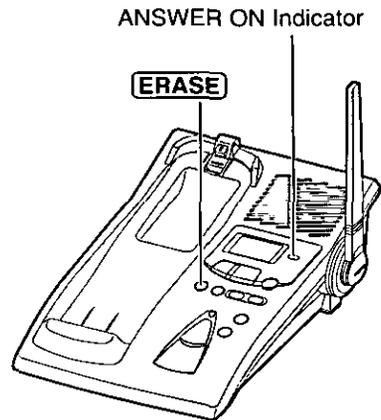
Press **ERASE** while the message you want to erase is being played.

- The unit erases the message.
- A short beep will sound and the unit will continue to play the next message.

Erasing all messages

All recorded messages, except the greeting message, can be erased at one time.

- 1 Press **ERASE**.
 - “Press ERASE again to erase all messages” is heard.
- 2 Within 5 seconds, press **ERASE** again.
 - A beep sounds and “No messages” is heard.
 - The base unit display shows “0”.

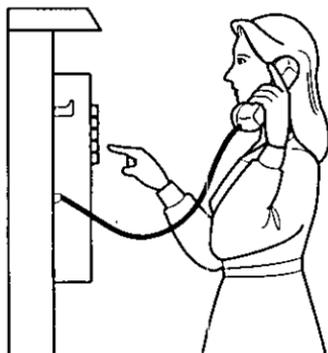


- The information in the Caller List will not be erased. To erase Caller List information, see page 39.

Remote Operation from a Touch Tone Phone

You can operate the answering system from any touch tone phone. A synthesized voice menu will guide you on how to operate the unit (p. 60).

- To skip the voice menu and operate the unit directly, see page 62.



Summary of remote operation

Call your unit from a touch tone phone.



Enter your remote code (p. 59) during or after the greeting message.
•The number of new messages is heard.



After 3 seconds, the voice menu will start (p. 60).
Follow the menu or enter the direct commands (p. 62).



To end remote operation, hang up.
•The messages are saved.

- The unit will announce the remaining recording time after playback, if it is less than 5 minutes.



Setting the Remote Code

The remote code prevents unauthorized people from accessing your unit and listening to your messages. Choose any **2-digit number (00–99)**.

The factory preset remote code is “11”. If you do not program your own remote code, you can use “11”.

Make sure the unit is in the standby mode initially.

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

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

▶Program
LCD contrast
▼▲ ▶=Yes

3 Press **FWD/EDIT** **▶** (Yes key).

▶Save DIRECT#
Set flash time
▼▲ ▶=Yes

4 Press **▼** or **▲** repeatedly until the arrow points to “TAD program”.

Talk switching
▶TAD program
▼▲ ▶=Yes

5 Press **FWD/EDIT** **▶** (Yes key).
•“P” is displayed on the base unit.

Answering
system setting.
See base unit.

6 Press **1**.
•The current remote code is displayed on the base unit.

7 Enter a remote code using a **2-digit number (00–99)**.

8 Press **FWD/EDIT** **▶** (Save key).
•A beep sounds.
•To return to the standby mode, press **FUNCTION/EXIT/CH**.

•If 6 beeps sound during programming, a wrong key was pressed. Enter the correct number.

To check the remote code

Repeat steps 1 to 6.

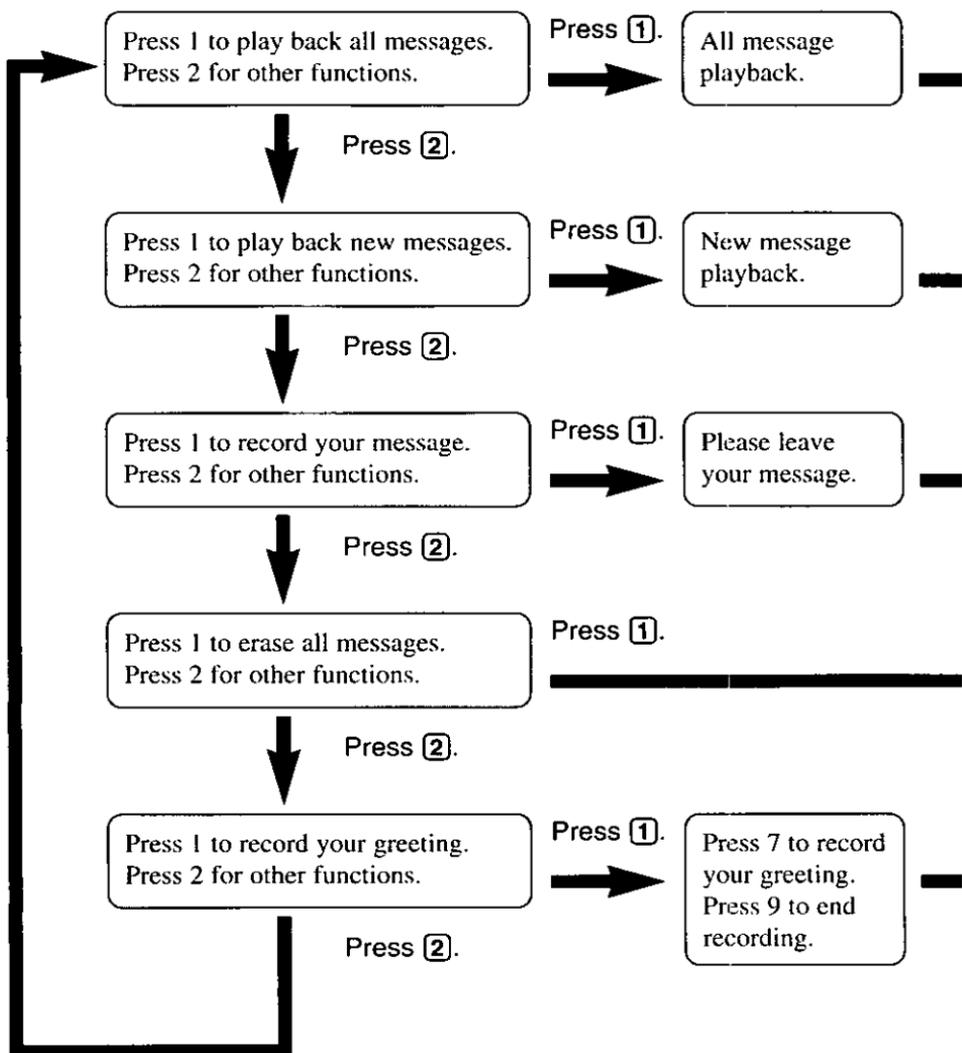
•The current remote code is displayed on the base unit. When finished, press **FUNCTION/EXIT/CH**.

Answering System

➔ Remote Operation from a Touch Tone Phone

Voice Menu

The shaded boxes are voice prompts.





All Message Playback

All recorded messages are played back. At the end of the last message, "End of final message" is heard. The unit will announce the remaining recording time if it is less than 5 minutes.

New Message Playback

Only new messages are played back. At the end of the last message, "End of final message" is heard. The unit will announce the remaining recording time if it is less than 5 minutes.

Recording a Memo Message

You can leave a personal message.

- 1 Talk after you hear "Please leave your message"
- 2 When you finish recording, hang up

Erasing All Messages

All recorded messages (except greeting message) are erased.

Recording a Greeting Message

You can re-record your greeting message.

- 1 Press **7**
You will hear a voice prompt followed by a long beep
- 2 After the beep, talk for up to 2 minutes
- 3 When you finish recording, press **9**
- 4 Your greeting will be played back for confirmation

- 3 seconds after playback, the voice menu will start again from the beginning
- If you hear "Memory full" after playback, erase some, or all, of the messages (p. 63)

➔ Remote Operation from a Touch Tone Phone

Direct Remote Operation

Once you have entered the remote code, you can also control your unit by direct commands instead of using the voice menu. To end the remote operation, hang up anytime.

Direct commands

NEW MESSAGE PLAYBACK	4	•Only new messages are played back.
ALL MESSAGE PLAYBACK	5	•All messages are played back.
REPEAT (During playback)	1	•The current message is repeated.
SKIP (During playback)	2	•The current message is skipped. The next message is played.
CHANGING PLAYBACK SPEED (During playback)	3	•Each time you press the button, the playback speed will change to slow/normal.
STOP	9	•Operation is stopped temporarily. •To resume operation, enter a direct command within 15 seconds, or the voice menu will start.
GREETING MESSAGE RECORDING	7	•A long beep sounds.
	↓	
	RECORD	•After the beep, talk immediately for up to 2 minutes.
	↓	
	9	•The recording is stopped. •The recorded message is played.

ERASING A
SPECIFIC
MESSAGE
(During playback)

***** **4**

- The current message is erased.
- A short beep will sound and the next message will be played.

ERASING ALL
MESSAGES

***** **5**

- All recorded messages are erased.
- A long beep sounds and "No messages" is heard.

ANSWERING
SYSTEM OFF

0

- The unit hangs up and will not answer calls until turned on again.
-

Turning on the answering system

Call your unit and wait for 15 rings.

- The unit will answer and the greeting message will be played.
- The answering system will turn on. Hang up or enter the remote code for other options.
- When turning on the answering system using a rotary or pulse service telephone, you cannot enter the remote code for other options.

Skipping the greeting message

After calling your unit, press ***** during the greeting message.

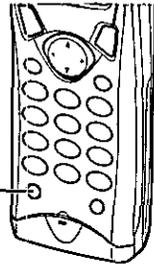
- The unit skips the rest of the greeting message and you can start recording your message after the long beep.

Remote Operation with the Handset

You can operate your answering system with the handset.

The announcements and recorded messages can only be heard with the handset.

FLASH/CALL WAIT/PLAYBACK



Summary of remote operation

Press **FLASH/CALL WAIT/PLAYBACK**.

- The number of new messages is heard.
- “Remote operation” is displayed on the handset.



Enter the desired direct commands (p. 65).

- If you do not enter a command, the voice menu will start (see below).
- After the voice menu, all message playback will start.



To end remote operation, press **FLASH/CALL WAIT/PLAYBACK**.

- The messages are saved.

- The unit will announce the remaining recording time after playback, if it is less than 5 minutes.
- If the unit starts to ring during the remote operation, press **TALK** to answer the call. The remote operation is ended.
- If you hear “Memory full” after playback, erase some, or all, of the messages (p. 65).

Voice menu

If no commands are entered after you press **FLASH/CALL WAIT/PLAYBACK**, the unit will start the following voice menu.

“Press 4 to play back new messages. Press 5 to play back all messages.”

- You can enter direct commands even if the voice menu has started.

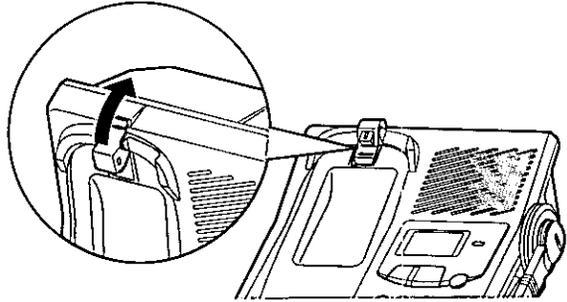
Direct commands

NEW MESSAGE PLAYBACK	4	<ul style="list-style-type: none"> •Only new messages are played back
ALL MESSAGE PLAYBACK	5	<ul style="list-style-type: none"> •All messages are played back
REPEAT (During playback)	1	<ul style="list-style-type: none"> •The current message is repeated •You can also press BACK [◀] to repeat a message
SKIP (During playback)	2	<ul style="list-style-type: none"> •The current message is skipped The next message is played •You can also press FWD/EDIT [▶] to skip a message
CHANGING PLAYBACK SPEED (During playback)	3	<ul style="list-style-type: none"> •Each time you press the button, the playback speed will change to slow/normal
STOP	9	<ul style="list-style-type: none"> •Operation is stopped temporarily •To resume operation, enter a direct command within 15 seconds, or the voice menu will start (p 64)
ERASING A SPECIFIC MESSAGE (During playback)	* 4	<ul style="list-style-type: none"> •The current message is erased •A short beep will sound and the next message will be played
ERASING ALL MESSAGES	* 5	<ul style="list-style-type: none"> •All recorded messages are erased •A long beep sounds and "No messages" is heard
ANSWERING SYSTEM OFF	0	<ul style="list-style-type: none"> •"Answer off" is heard and the answering system is turned off
ANSWERING SYSTEM ON	8	<ul style="list-style-type: none"> •"Answer set" is heard and the answering system is turned on

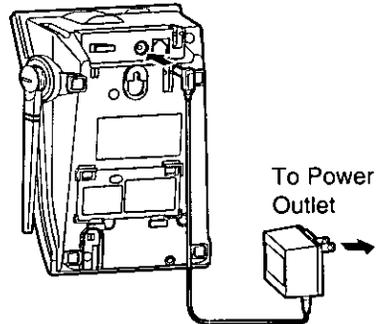
Wall Mounting

This unit can be mounted on a wall phone plate.

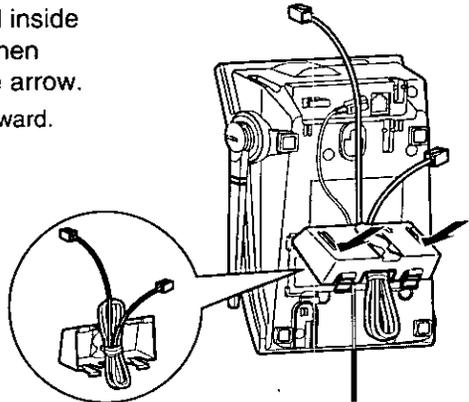
- 1 Push the hook and turn it around.
Turn the hook until a click is heard.



- 2 Connect the AC adaptor.

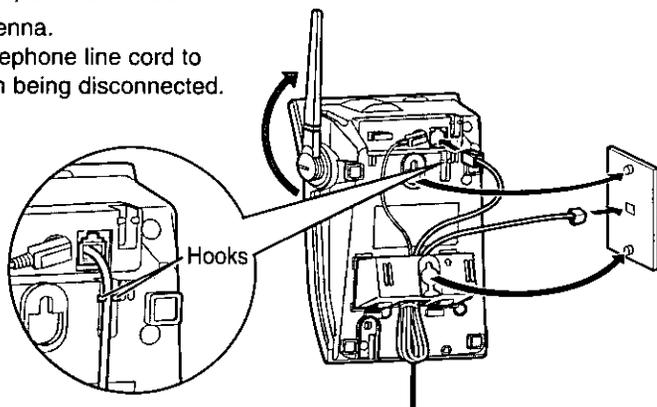


- 3 Tuck the telephone line cord inside the wall mounting adaptor, then push it in the direction of the arrow.
•The word "UP" should face upward.



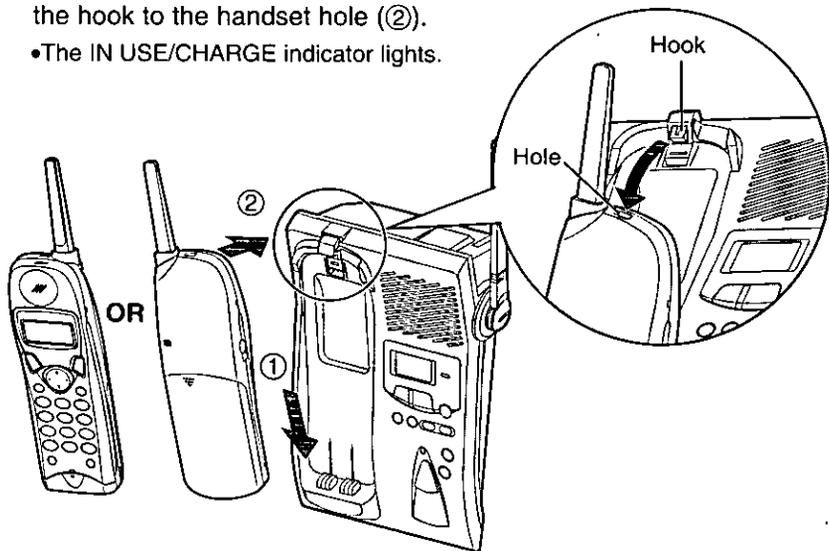
4 Connect the telephone line cord.
Mount the unit, then slide down.

- Raise the antenna.
- Fasten the telephone line cord to prevent it from being disconnected.



5 To charge the handset battery:
Fix the charge contacts (①) and insert the hook to the handset hole (②).

- The IN USE/CHARGE indicator lights.

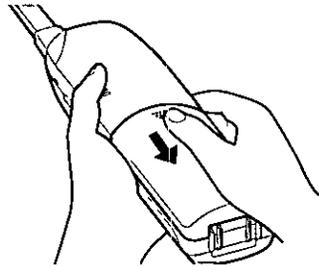


Useful Information

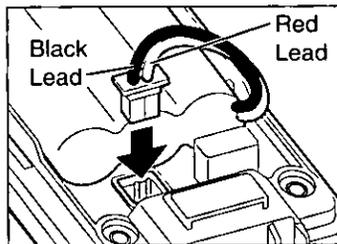
Battery Replacement

If "Recharge" is displayed and/or "{ ■}" flashes after being fully charged, replace the battery with a new Panasonic P-P510 (N4HKGMB00001) battery To order, call the accessories telephone number on page 2

- 1 Press the notch on the battery cover firmly and slide it as indicated by the arrow



- 2 Remove the old battery Then install the new one
 - Insert the battery plug into the connector as shown



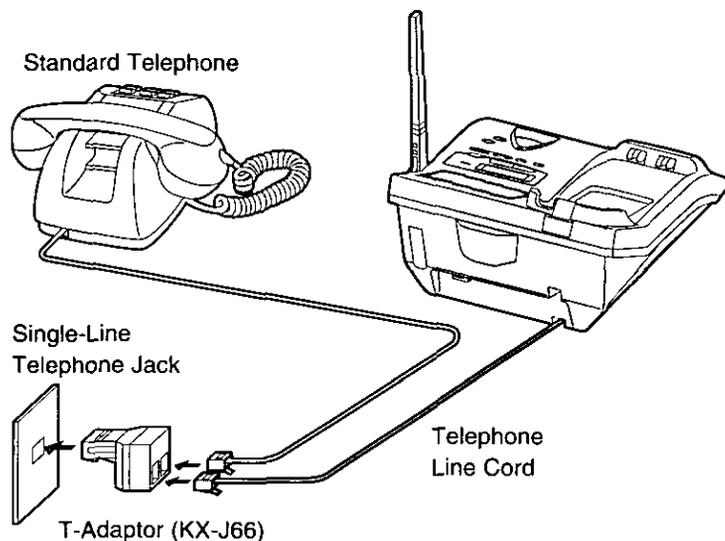
- 3 Close the cover Make sure you charge the new battery for about 6 hours in order to display the battery strength prompt correctly (p 13)

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



Adding Another Phone

This unit will not function during a power failure. To connect a standard telephone on the same line, use the Panasonic T-adaptor KX-J66. To order, call the accessories telephone number on page 2.



Before Requesting Help

Cordless Telephone

Problem	Remedy
"No link to base Place on cradle and try again " is displayed and an alarm tone sounds	<ul style="list-style-type: none">•You are too far from the base unit Move closer and try again•Place the handset on the base unit and try again•Plug in the AC adaptor•Raise the base unit antenna
Static, sound cuts in/out, fades Interference from other electrical units	<ul style="list-style-type: none">•Locate the handset and the base unit away from other electrical appliances (p 3)•Move closer to the base unit•Raise the base unit antenna•Press FUNCTION/EXIT/CH to select a clearer channel
The handset does not ring	<ul style="list-style-type: none">•The ringer volume is set to OFF Set to HIGH or LOW (p 20)
The handset display is blank	<ul style="list-style-type: none">•The handset is in the standby mode (p 14) Press ▼, ▲, BACK ◀ or FWD/EDIT ▶ to turn the display on
The handset display is still blank after pressing ▼ , ▲ , BACK ◀ or FWD/EDIT ▶	<ul style="list-style-type: none">•Charge the battery fully (p 13)
You cannot store a name and phone number in the directory	<ul style="list-style-type: none">•You cannot store an item in the directory while the unit is in the talk mode or intercom mode, or while the answering system is in use•Do not pause for over 60 seconds while storing
While programming or searching, the unit starts to ring and stops the program/ search	<ul style="list-style-type: none">•To answer the call, press TALK Start again from the beginning after hanging up



Problem	Remedy
The unit does not display the caller's name and/or phone number	<ul style="list-style-type: none">•You need to subscribe to a Caller ID service from a telephone company•Other telephone equipment may be interfering with your phone. Disconnect it and try again.•Other electrical appliances connected to the same outlet may be interfering with the Caller ID information.•Telephone line noise may be affecting the Caller ID information.
The handset display goes to the standby mode while viewing the Caller List	<ul style="list-style-type: none">•Do not pause for over 60 seconds while searching.
When a second call is received during a conversation, the unit does not display the new caller's name and/or phone number	<ul style="list-style-type: none">•The line mode selection is incorrect. See page 17.
LOCATOR/INTERCOM does not function	<ul style="list-style-type: none">•The handset is too far from the base unit.•The handset is engaged in an outside call, viewing the Caller List/directory list or listening to messages. Wait until the IN USE/CHARGE indicator light goes out.
You cannot redial by pressing REDIAL/PAUSE	<ul style="list-style-type: none">•If the last number dialed was more than 32 digits long, the number will not be redialed correctly.•Access numbers entered after pressing TONE will not be included when redialing.•The button has a double function as either redial or pause. It will redial the last number dialed if pressed at the outset of a call (p. 29). If another number has been dialed first, it will operate as a pause button (p. 51).

➔ Before Requesting Help

Problem	Remedy
You cannot have a conversation using the handset.	<ul style="list-style-type: none">•When the headset is connected (p. 15), you must use the headset to talk with the caller. To have a normal cordless phone conversation, disconnect the headset.
You cannot have a conversation using the headset.	<ul style="list-style-type: none">•Make sure that the headset is connected properly (p. 15).•Please use only the Panasonic KX-TCA88 headset. To order call the accessories telephone number on page 2.

Answering System

Problem	Remedy
The answering system is on, but incoming messages are not recorded.	<ul style="list-style-type: none">•The recording time is set to "Greeting only". Select "1 minute" or "3 minutes" (p. 27).•Memory is full. Erase some, or all, of the messages (p. 57).
You cannot listen to the recorded messages.	<ul style="list-style-type: none">•Make sure that the unit is in the standby mode.
" FULL " is displayed and the ANSWER ON indicator flashes rapidly, and no new messages are recorded.	<ul style="list-style-type: none">•Memory is full. Erase some, or all, of the messages (p. 57).
You cannot operate the answering system at the base unit.	<ul style="list-style-type: none">•The handset user is operating the answering system, or is engaged in an outside call. Wait until the IN USE/CHARGE indicator light goes out.
You cannot operate the answering system from a touch tone phone.	<ul style="list-style-type: none">•Make sure you enter the correct remote code.•The answering system may not respond if the tones are too short to activate the unit. Press each button firmly.•The answering system is off. Turn it on (p. 63).



Problem	Remedy
You cannot operate the answering system with the handset	<ul style="list-style-type: none">•Someone is operating the answering system•You are too far from the base unit Move closer to the base unit•The unit is recording a message To answer the call, press TALK
While recording a greeting message, the unit starts to ring and stops recording	<ul style="list-style-type: none">•To answer the call, lift the handset off the base unit or press TALK Start again from the beginning after hanging up
During playback, the unit starts to ring and stops playback	<ul style="list-style-type: none">•To answer the call, lift the handset off the base unit or press TALK To resume playback, press NEW MESSAGE/SLOW TALK after hanging up
The handset does not display the name and/or number of the caller whose message is being played	<ul style="list-style-type: none">•Place the handset on the base unit correctly (p 55)•If the caller is not stored in the Caller List, the handset will not display the caller's information

➔ Before Requesting Help

General

Problem	Remedy
The unit does not work.	<ul style="list-style-type: none">•Check the settings (p. 12–17).•Charge the battery fully (p. 13).•Clean the charge contacts and charge again (p. 14).•Install the battery properly (p. 68).•Place the handset on the base unit and unplug the AC adaptor to reset. Plug in, and try again.•Re-install the battery and place the handset on the base unit (p. 68). Try again.
You cannot program items, such as the dialing mode.	<ul style="list-style-type: none">•Programming is not possible while the unit is in the talk or speakerphone mode, when viewing the Caller List/directory list, or while the answering system is in use.•Do not pause for over 60 seconds while programming.•Move closer to the base unit.• , , BACK  or FWD/EDIT  may have been pressed when you picked up the handset. Press FUNCTION/EXIT/CH and try again.
Previously programmed information is erased.	<ul style="list-style-type: none">•If a power failure occurs, programmed information may be erased. Reprogram if necessary.
“Recharge” is displayed on the handset, “{ ■ }” flashes or the unit beeps intermittently.	<ul style="list-style-type: none">•Charge the battery fully (p. 13).
You charged the battery fully, but “Recharge” is still displayed and/or “{ ■ }” continues to flash.	<ul style="list-style-type: none">•Clean the charge contacts and charge again (p. 14).•Install a new battery (p. 68).

Problem	Remedy
The IN USE/CHARGE indicator light does not go out after the battery has been charged	<ul style="list-style-type: none">•This is normal
If you cannot solve your problem	<ul style="list-style-type: none">•Call our customer call center at 1-800-211-PANA(7262)•Panasonic's e-mail address for customer inquiries consumerproducts@panasonic.com for customers in the USA or Puerto Rico ONLY

Important Safety Instructions

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

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

SAVE THESE INSTRUCTIONS

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

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

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 and/or press the CH (Channel) button.

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 2472MHz, and the power output level can range from 0.001 watts to 0.10 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

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

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

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