

Panasonic

900MHz Cordless Phone

Model No. **KX-TCC912-B**

Pulse-or-tone dialing capability

Operating Instructions



**PLEASE READ BEFORE USE
AND SAVE.**

Caller ID Compatible

Charge the battery for about 15 hours before initial use.

Preparation

Basic Operation

Advanced Operation

Useful Information

Before Initial Use

Please read **IMPORTANT SAFETY INSTRUCTIONS** on pages 52-53 before use. Read and understand all instructions.

Thank you for purchasing the Panasonic cordless telephone.

Caller ID and Visual Call Waiting (Call Waiting ID), where available, are telephone company services. After subscribing to Caller ID, this phone will display the caller's name and phone number. An added service, Visual Call Waiting, will display the second caller's name and phone number during call waiting.

Attach your purchase receipt here.

For your future reference

Serial No.

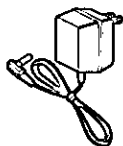
Date of purchase

(found on the bottom of the unit)

Name and address of dealer

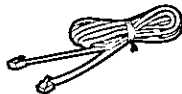
Accessories (To order accessories, call 1-800-332-5368.)

AC Adaptor (p. 12)



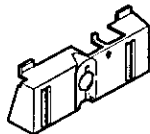
one

Telephone Line Cord (p. 12)



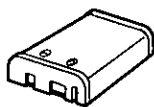
one

Wall Mounting Adaptor (p. 17)



one

Battery (p. 11)



one

Handset Cover (p. 11)



one

Cradle Cover (p. 11)

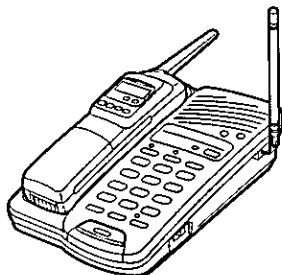


one

For Best Performance

Battery Charge

A rechargeable Ni-Cd battery powers the handset. Install the battery (p. 11) and charge it for about **15 hours** before initial use (p. 12).

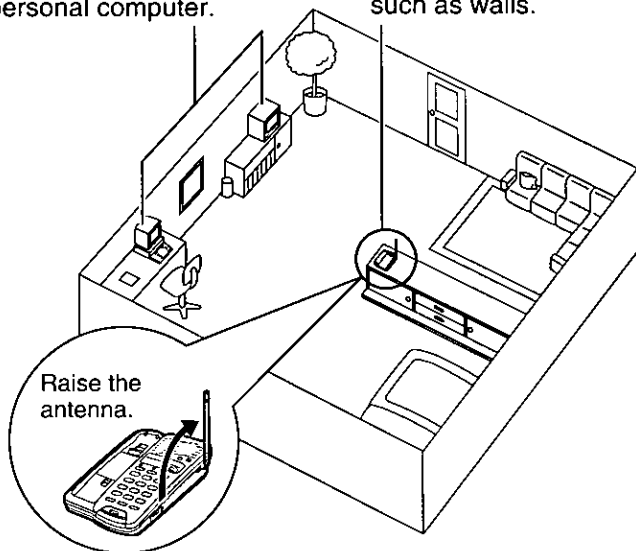


Operating Distance/Noise

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

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

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



Contents

Preparation

Location of Controls	6
Handset Display	9
Settings	11
Installing the Battery in the Handset	11
Installing the Cradle Cover on the Base Unit.....	11
Connections.....	12
Battery Charge	12
Selecting the Dialing Mode	14
Storing the Area Code	15
Setting the Auto Talk Feature	16
Wall Mounting	17

Basic Operation

Making/Answering Calls	18
Making Calls with the Handset	18
Answering Calls with the Handset	20
Making Calls with the Base Unit	22
Answering Calls with the Base Unit	24
Simultaneous Keypad Dialing.....	25
Automatic Dialing (Handset)	26
Storing Phone Numbers in Memory	26
Dialing a Stored Number	29
Automatic Dialing (Base Unit)	30
Storing Phone Numbers in Memory	30
Dialing a Stored Number	31

Advanced Operation

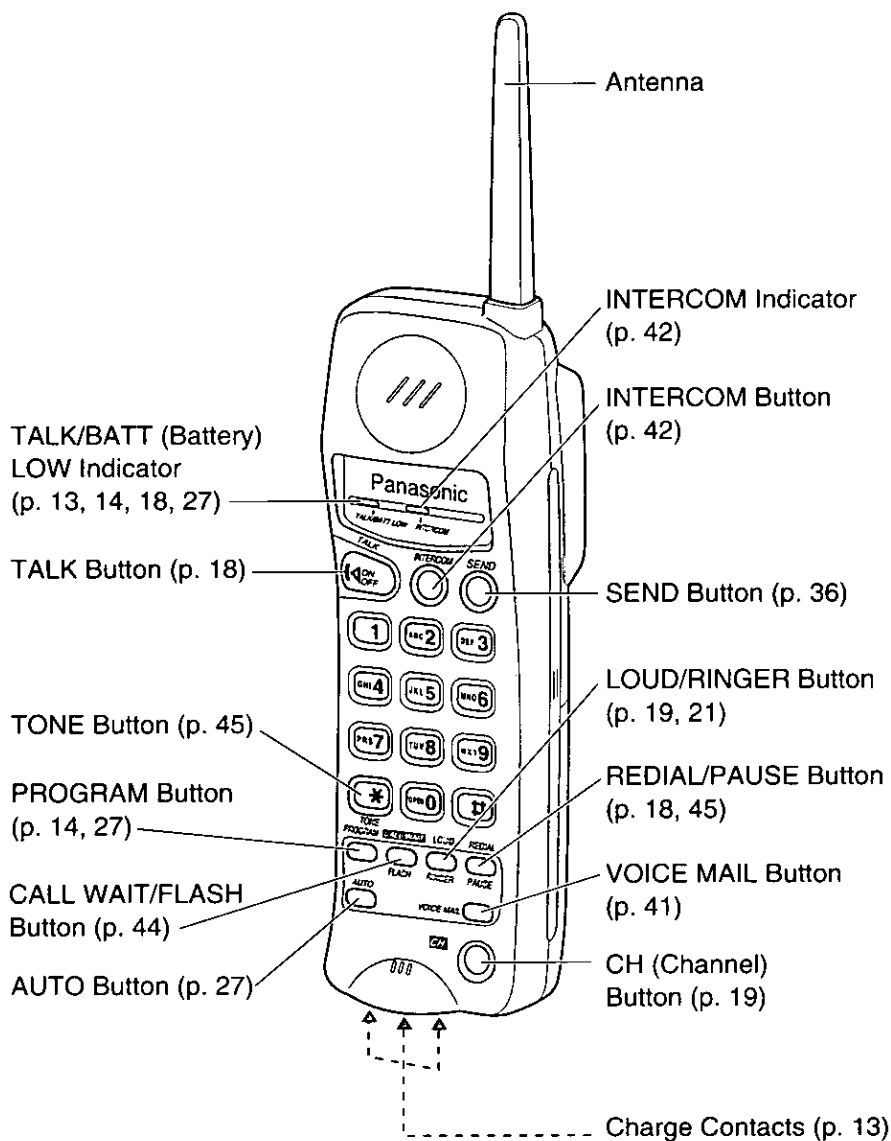
Caller ID Service	32
Using the Caller List	34
Viewing the Caller List	34
Calling Back from the Caller List	36
Editing the Caller's Phone Number	37
Storing the Caller List Information in the Handset's Automatic Dialing Memory	38
Erasing the Caller List Information	39
Voice Mail Service	40
Intercom	42
Transferring a Call Using the Intercom	43
Special Features	44
For Call Waiting Service Users	44
Automatic Security Code Setting	45
Temporary Tone Dialing (For Rotary Pulse Service Users)	45
If Your Unit is Connected to a PBX (Analog Only)	45

Useful Information

Optional Spare Battery	46
Before Requesting Help	48
Adding Another Phone	51
Important Safety Instructions	52
FCC and Other Information	54

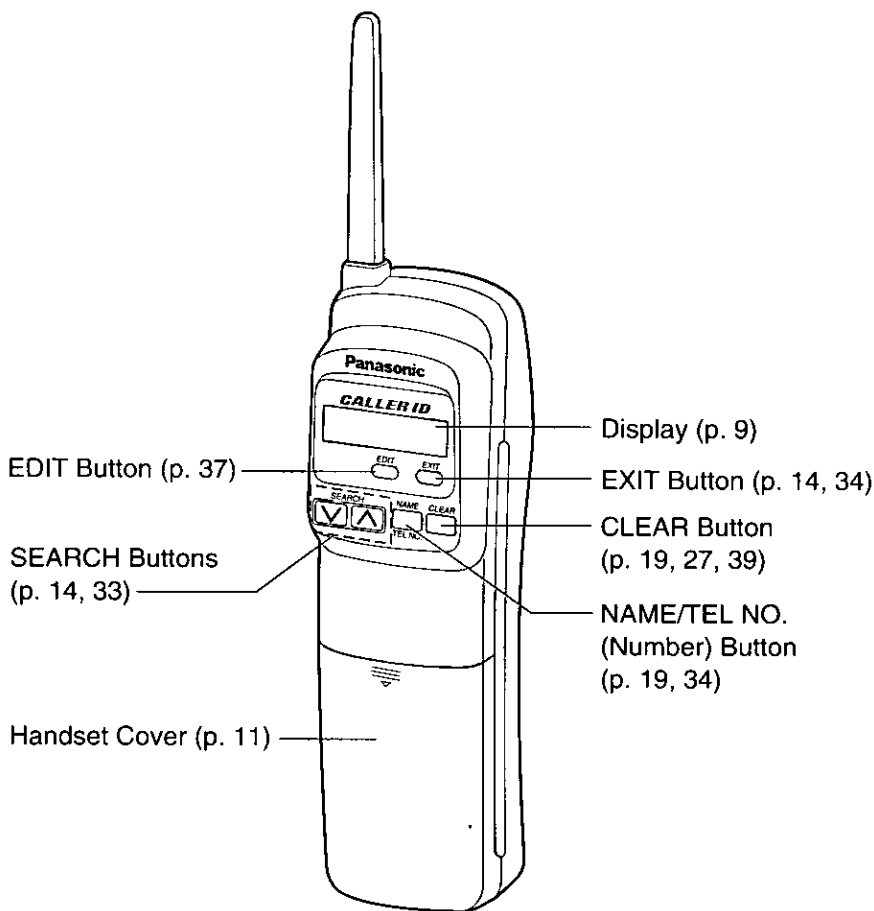
Location of Controls

Handset (Front side)





Handset (Back side)



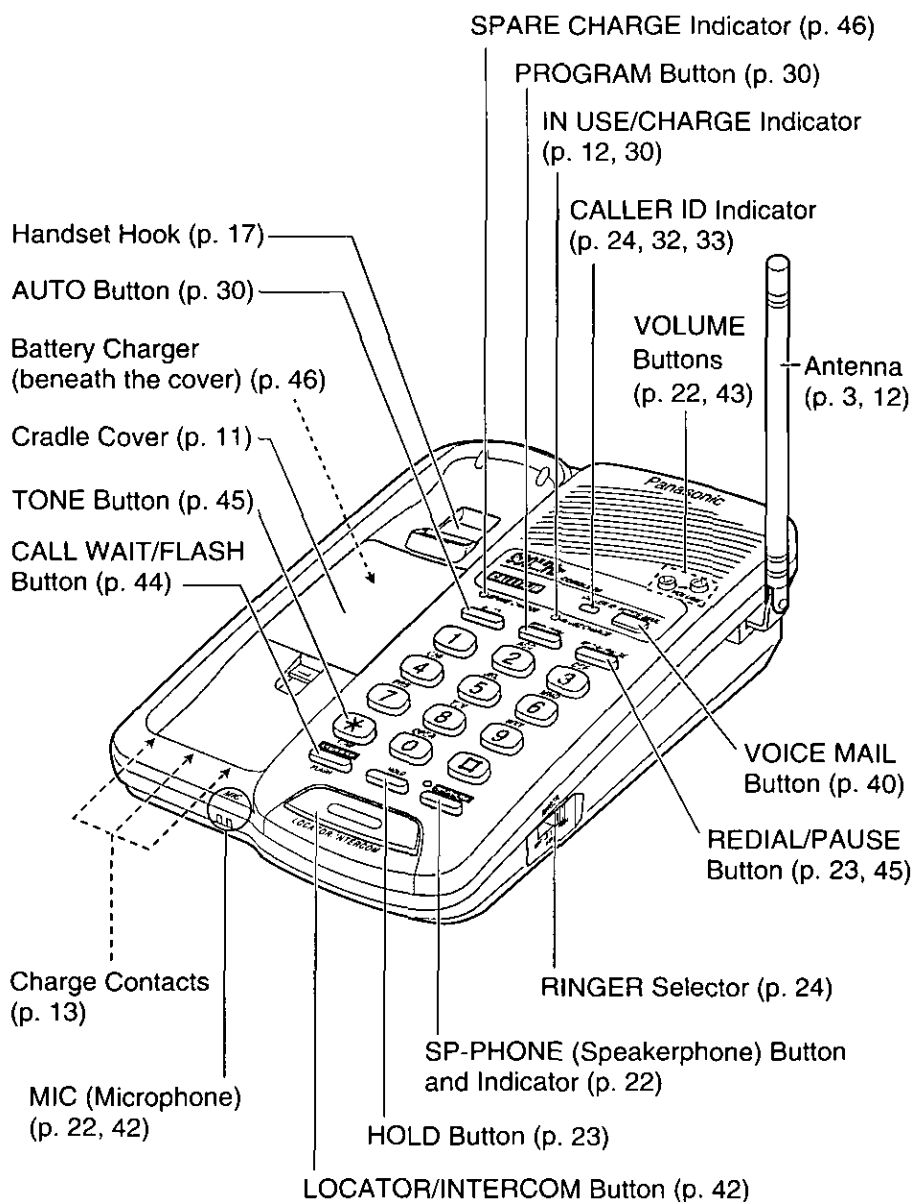
Illuminated Search Keys

The **SEARCH** (✓, ^) buttons use non-radioactive luminescent material which can absorb light energy of sunlight or lamps (incandescent, fluorescent, halogen, etc.), and release this absorbed light for darkened room operation.

- As the absorbed energy in the **SEARCH** (✓, ^) buttons decreases, the button brightness will fade naturally.
- Button brightness and duration depend on the amount of room lighting and exposure time.

➔ Location of Controls

Base unit



Handset Display



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

NO CALLERS

The Caller List is empty.

12 NEW CALLS

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

12 NEW CALLS

∨=NEW ^=OLD

This display will be shown when:

- you lift the handset off the base unit, or
- pressing **(SEARCH)** (∨ or ^) when the handset is off the base unit.

To search from the most recent call, press **(SEARCH)** ∨ (NEW key). To search from the oldest call, press **(SEARCH)** ^ (OLD key) (p. 34).

01-06-35 CH12

During a conversation, the display counts the length of the call (ex. 1 hour, 6 minutes and 35 seconds). The selected channel number is displayed.

OUT OF RANGE

The handset has lost communication with the base unit (p. 19).

SAVE ERROR

While programming, the handset lost communication with the base unit. Move closer to the base unit (p. 14, 40).

PAGING

The base unit is paging the handset (p. 42).

INTERCOM

00-00-07 CH22

The handset and the base unit are in the intercom mode (p. 42).

INTERCOM HOLD

00-01-12 CH10

An outside call has been put on hold by the handset user in the intercom mode. To release the hold, press **(TALK)** or **(SP-PHONE)** (p. 43).

➔ Handset Display

SUSAN HAMMER
----WAITING----

A second call is received during a conversation (p. 44).

SUSAN HAMMER
11:20A JAN12 ×3

This is a name from the Caller List. The time and date of the last call (ex. Jan. 12, 11:20 AM) and the number of times called (ex. 3 times) are displayed.

OUT OF AREA

The caller dialed from an area which does not provide the Caller ID service.

PRIVATE CALLER

The caller has requested not to display their information.

END OF NEW CALL

You finished viewing the NEW CALLS in the Caller List. To exit, press **EXIT**.

END OF OLD CALL

You finished viewing the OLD CALLS in the Caller List. To exit, press **EXIT**.

END

You are at the end of the Caller List. To exit, press **EXIT**.

PLEASE LIFT UP
AND TRY AGAIN

SEARCH (∨ or ∧) was pressed while the handset was on the base unit. Lift the handset and press **SEARCH** (∨ or ∧) again.

NOT AVAILABLE

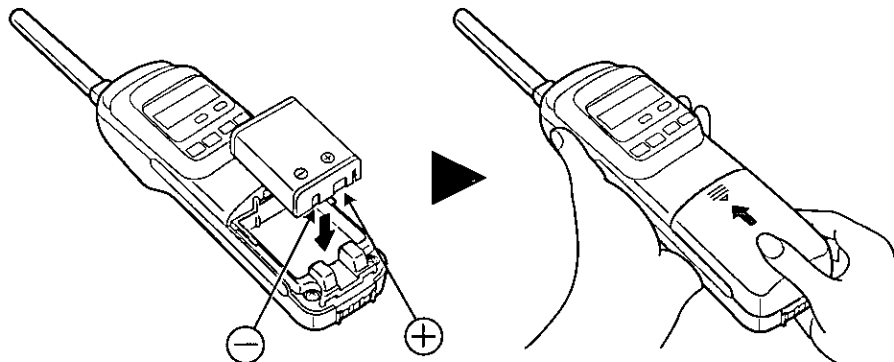
SEARCH (∨ or ∧) was pressed while the base unit was engaged in an outside call.

Settings



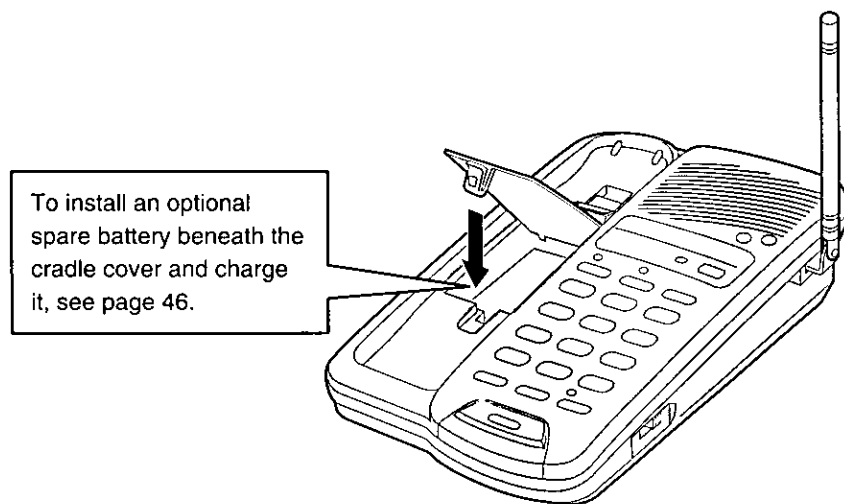
Installing the Battery in the Handset

Install the battery as shown observing the proper polarity. Then install the handset cover.



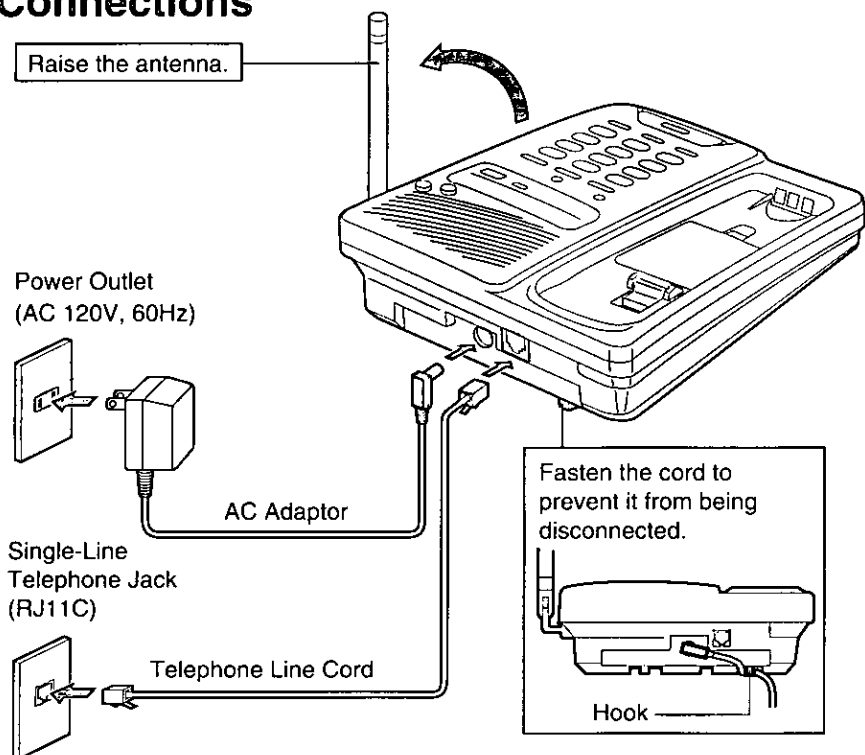
Installing the Cradle Cover on the Base Unit

Close the cradle cover as shown.



To install an optional spare battery beneath the cradle cover and charge it, see page 46.

Connections

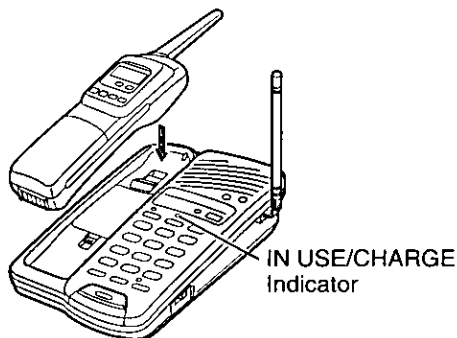


- USE ONLY Panasonic AC ADAPTOR KX-TCA1.
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- To connect a standard telephone on the same line, see page 51.
- When the unit is connected to a PBX system, you cannot receive caller information.

Battery Charge

Place the handset on the base unit and charge for about **15 hours** before initial use.

- The IN USE/CHARGE indicator lights.



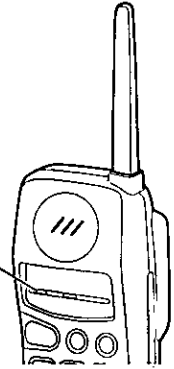


Recharge

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

- The TALK/BATT LOW indicator will continue to flash for at least 30 minutes once you begin recharging. This time will increase the more you use the handset while recharging.

TALK/BATT LOW Indicator



If you do not want to wait until the battery is fully recharged, we recommend you purchase an optional spare battery (page 46).

Battery information

If your Panasonic battery is fully charged;

While in use (TALK)	Up to about 4.5 hours
While not in use (Stand-By)	Up to about 14 days

- Battery life may be shortened depending on usage conditions, such as viewing the Caller ID Caller 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.** If not, the battery may not charge properly.
- A fully charged battery does not require the handset to be placed on the base unit until the TALK/BATT LOW indicator flashes slowly. This will maximize the battery life.
- The battery cannot be overcharged.

Stand-by mode (The handset is off the base unit.)

The handset goes into the stand-by mode a few seconds after you finish using the handset (making a call, viewing the caller list, etc.).

The display is blank, but the handset can receive calls.

The battery life is conserved in this mode.

Selecting the Dialing Mode

You can program the dialing mode **using the handset close to the base unit**. If you have touch tone service, set to TONE. If rotary pulse service is used, set to PULSE. The factory preset is TONE.

The TALK/BATT LOW and SP-PHONE indicator lights must be off before programming.

- 1 Press **PROGRAM**.
- The TALK/BATT LOW indicator flashes.

```
SAVE AUTO# ?
v=NEXT      ^=YES
```

- 2 Press **SEARCH** v (NEXT key) 3 times until "SET DIAL MODE ?" is displayed.

```
SET DIAL MODE ?
v=NEXT      ^=YES
```

- 3 Press **SEARCH** ^ (YES key).

```
DIAL MODE
v=TONE      ^=PULSE
```

- 4 To select PULSE, press **SEARCH** ^.
OR
To select TONE, press **SEARCH** v.

```
DIAL MODE
                PULSE
```

```
DIAL MODE
                TONE
```

- A confirmation tone sounds.*
- The selected mode is displayed.
- In a few seconds, the handset will return to the stand-by mode.

- To cancel, press **EXIT** or **PROGRAM**, then start from step 1.
- If the display shows "SAVE ERROR", move closer to the base unit and try again. If "SAVE ERROR" is still displayed, place the handset on the base unit. Restart from step 1.

*What the confirmation tone means

- 1 beep: The mode is different from a previously selected one.
2 beeps: The mode is the same as a previously selected one.

If a power failure occurs, the mode will return to the factory preset (TONE). Reprogram if necessary.



Storing the Area Code

You have to program your area code first before using the Caller ID feature (p. 32). Then incoming calls from the same area will be recorded in the Caller List without the code. You do not have to remove the area code before storing or calling back. Also, when incoming calls from a different area code are received, "1" will be added before the area code automatically.

The TALK/BATT LOW indicator light must be off before programming.

- 1 Press **PROGRAM**.
 - The TALK/BATT LOW indicator flashes.

SAVE AUTO# ?
 √=NEXT ^=YES

- 2 Press **SEARCH** ∨ (Next key) twice until "SAVE AREA CODE?" is displayed.

SAVE AREA CODE?
 √=NEXT ^=YES

- 3 Press **SEARCH** ^ (Yes key).
 - The current setting is displayed.
The factory preset is "----".

AREA CODE = ----
 ENTER AREA CODE

- 4 Enter your area code.
 - If you enter a wrong number, press **CLEAR**, then enter the correct number.

AREA CODE = 123
 PROGRAM=SAVE

- 5 When finished, press **PROGRAM**.
 - The stored number is displayed.
 - In a few seconds, the handset will return to the stand-by mode.

AREA CODE = 123

• To cancel, press **EXIT**, then start from step 1.

To erase the area code

1. Press **PROGRAM**.
2. Press **SEARCH** ∨ (Next key) twice.
3. Press **SEARCH** ^ (Yes key).
4. Press **CLEAR**.
5. Press **PROGRAM**.

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 view caller's information on the display after lifting the handset, turn this feature OFF by programming. The factory preset is ON.

The TALK/BATT LOW indicator light must be off before programming.

1 Press **PROGRAM**.

- The TALK/BATT LOW indicator flashes.

SAVE AUTO# ?
∇=NEXT ^=YES

2 Press **SEARCH** ∇ (NEXT key) 4 times until "TALK SWITCHING?" is displayed.

TALK SWITCHING?
∇=NEXT ^=YES

3 Press **SEARCH** ^ (YES key).

AUTO TALK
∇=ON ^=OFF

4 To select OFF, press **SEARCH** ^.
OR

To select ON, press **SEARCH** ∇.

- The selected mode is displayed.
- In a few seconds, the handset will return to the stand-by mode.

AUTO TALK
OFF

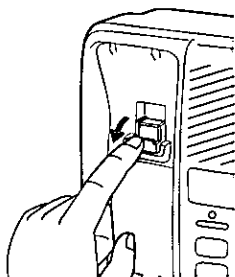
AUTO TALK
ON

- To cancel, press **EXIT** or **PROGRAM**, then start from step 1.
- To answer a call when the Auto Talk feature is OFF, lift the handset off the base unit, then press **TALK**.

Wall Mounting

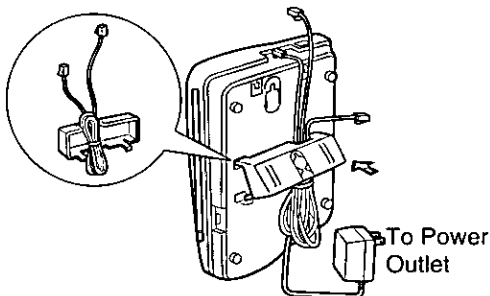
This unit can be mounted on a wall phone plate.

- 1 Pull down the handset hook until it locks so the tab holds the handset.



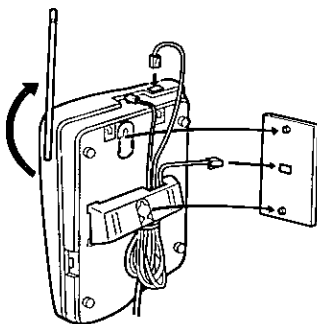
- 2 Connect the AC adaptor. Tuck the telephone line cord inside the wall mounting adaptor, then push it in the direction of the arrow.

- The word "UP" should face upward.



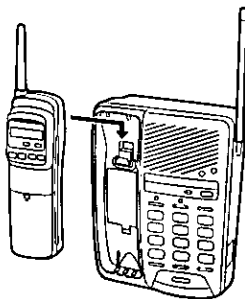
- 3 Connect the telephone line cord. Mount the unit, then slide down.

- Raise the antenna.



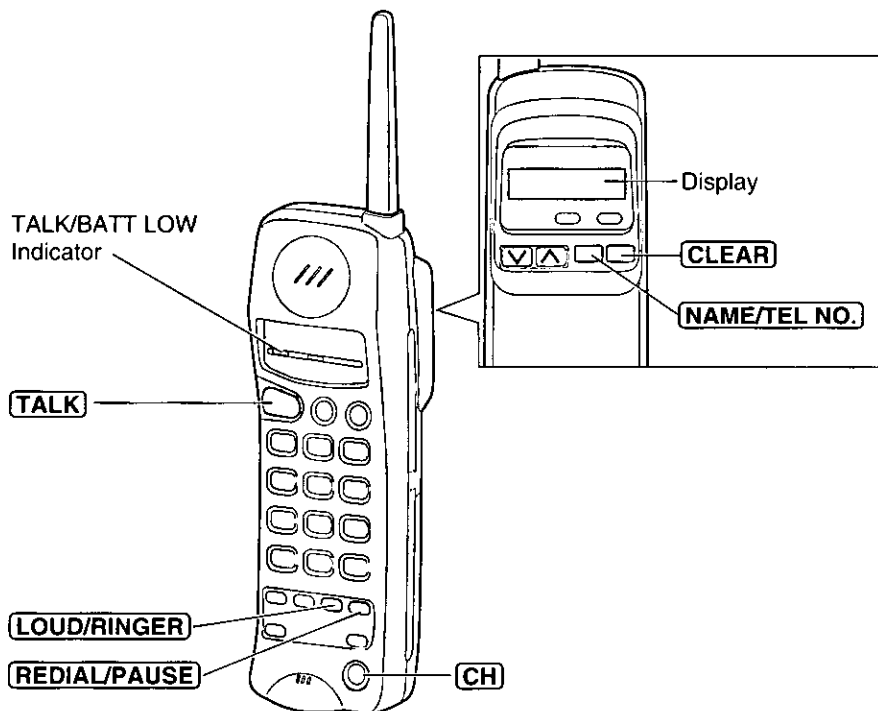
- 4 **To charge the handset battery:** Place the handset on the handset hook as shown.

- The IN USE/CHARGE indicator lights.



Making/Answering Calls

Making Calls with the Handset



1 Press **TALK**.

- The TALK/BATT LOW indicator lights.

TALK	CH10
------	------

2 Dial a phone number.

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

1112222	CH10
---------	------

00-00-00	CH10
----------	------

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

- The TALK/BATT LOW indicator light goes out.

To redial the last number dialed

Press **TALK** ⇔ **REDIAL/PAUSE**.

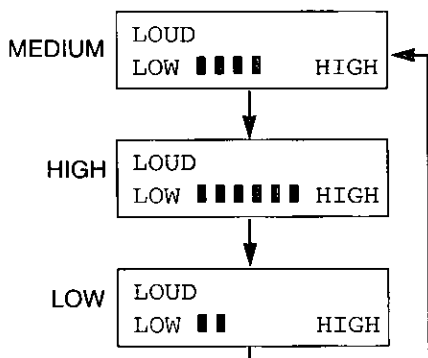


- If “OUT OF RANGE” is displayed and an alarm tone sounds after pressing **TALK** when making a call, move closer to the base unit or place the handset on the base unit. Then try again.
- To display the dialed number during a conversation, press **NAME/TEL NO.**. To return to the length of the call, press **CLEAR**.

To select the receiver volume

Press **LOUD/RINGER** while talking.

- Each time you press the button, the volume level will change from MEDIUM (preset) to HIGH to LOW.



If noise interferes with the conversation

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

- The selected channel number is displayed.

Lighted keypad

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

Lighted display

The display will light when the handset is in use (making/answering a call, viewing the caller list, etc.). The light will go out about 10 seconds after pressing a handset button or answering a call.

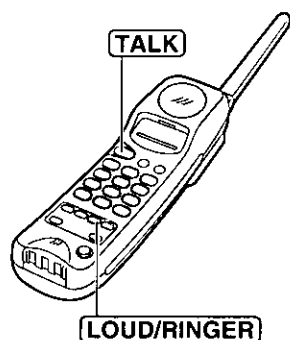
➔ Making/Answering Calls

Answering Calls with the Handset

If you subscribe to a Caller ID service, the calling party information will be displayed after the first ring (p. 32).

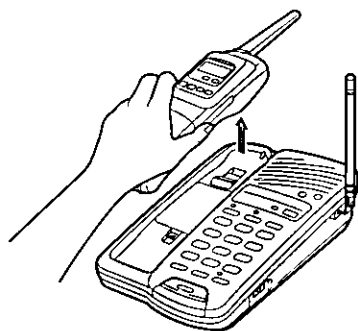
If the handset is off the base unit, press **TALK**.

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



OR

If on the base unit, just lift it up.
(This is not available when the Auto Talk feature is set to OFF. See page 16.)

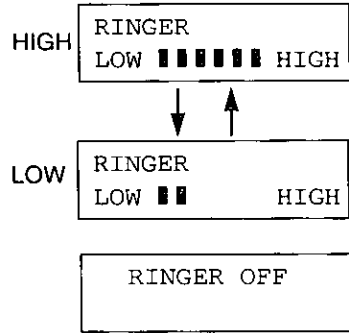




Adjusting the handset ringer volume

The TALK/BATT LOW indicator light must be off.

- To select **HIGH (preset) or LOW**, press **[LOUD/RINGER]** lightly. (Each time you press the button lightly, the ringer volume will change.)



- To turn the ringer **OFF**, press **[LOUD/RINGER]** until 2 beeps sound.

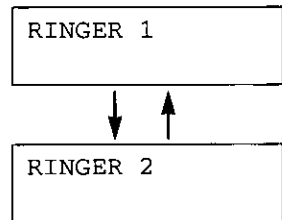
“RINGER OFF” will be displayed for about 1 minute before the handset returns to the stand-by mode.

- To turn the ringer **ON**, press **[LOUD/RINGER]** lightly. The ringer sounds at the HIGH level.

Selecting the ringer tone (2 types)

The TALK/BATT LOW indicator light must be off.

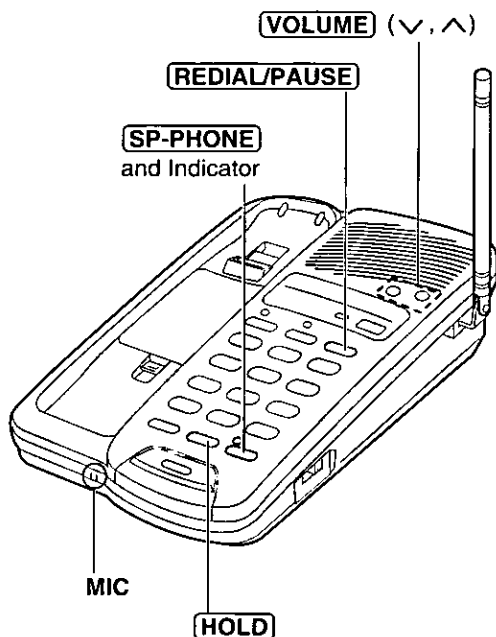
1. Press **[LOUD/RINGER]**.
2. Press **[*]** within 5 seconds.
 - The selected ringer tone sounds.
 - Each time you press **[*]** within 5 seconds, the ringer tone will change.



➔ Making/Answering Calls

Making Calls with the Base Unit

- 1 Press **SP-PHONE**.
 - The indicator lights.
- 2 Dial a phone number.
- 3 When the other party answers, speak into the **MIC** (microphone).
- 4 To hang up, press **SP-PHONE**.
 - The indicator light goes out.



- For best speakerphone performance, use in a quiet room and speak alternately with the caller.
- If the other party has difficulty hearing you, press **VOLUME** ∨ to decrease the speaker volume.
- While using the speakerphone, if the handset is on the base unit, you may switch to the handset by lifting it up.



To adjust the speaker volume (12 levels)

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

To redial the last number

Press **SP-PHONE** → **REDIAL/PAUSE**.

To put a call on hold

Press **HOLD**.

- The SP-PHONE indicator flashes.
- After 6 minutes, a warning tone will sound.
After a total of 10 minutes, the call will be disconnected.

To release the hold

For the base unit, press **SP-PHONE**.

For the handset, press **TALK** or lift the handset off the base unit.

- If another phone is connected on the same line (p. 51), you can also release the hold by lifting that handset.

➔ Making/Answering Calls

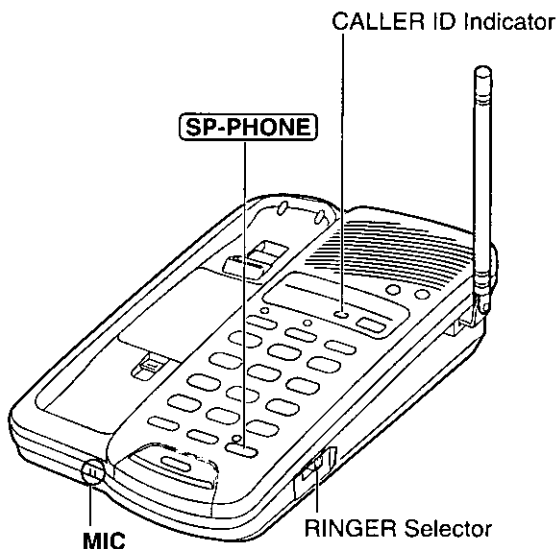
Answering Calls with the Base Unit

When a call is received, the unit rings and the CALLER ID indicator light flashes quickly.

1 Press **SP-PHONE**.

2 Speak into the **MIC**.

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



To select the base unit ringer volume

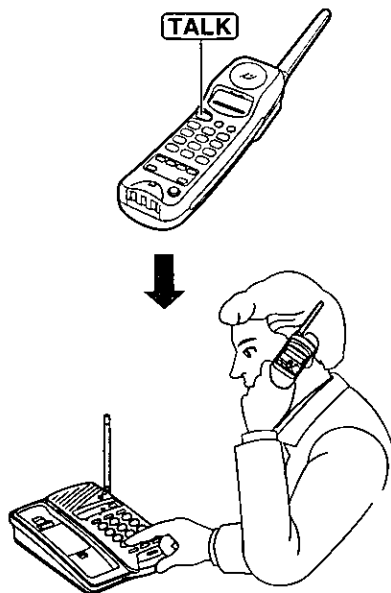
Set the RINGER selector to HIGH, LOW, or OFF.

- When set to OFF, the base unit will not ring.

Simultaneous Keypad Dialing

You can use the base unit like a standard telephone. After pressing **TALK** to make a call with the handset near the base unit, you can also dial using the base unit keypad.

- 1 Handset:
Press **TALK**.
- 2 Base unit:
Dial a telephone number while hearing a dial tone with the handset.
 - When the other party answers, talk using the handset.
- 3 Handset:
To hang up, press **TALK** or place the handset on the base unit.



Simultaneous Keypad Dialing is available only after pressing **TALK**.

Useful information

You can enter numbers using the base unit keypad during a call with the handset. For example, to access an answering service, electronic banking services, etc.

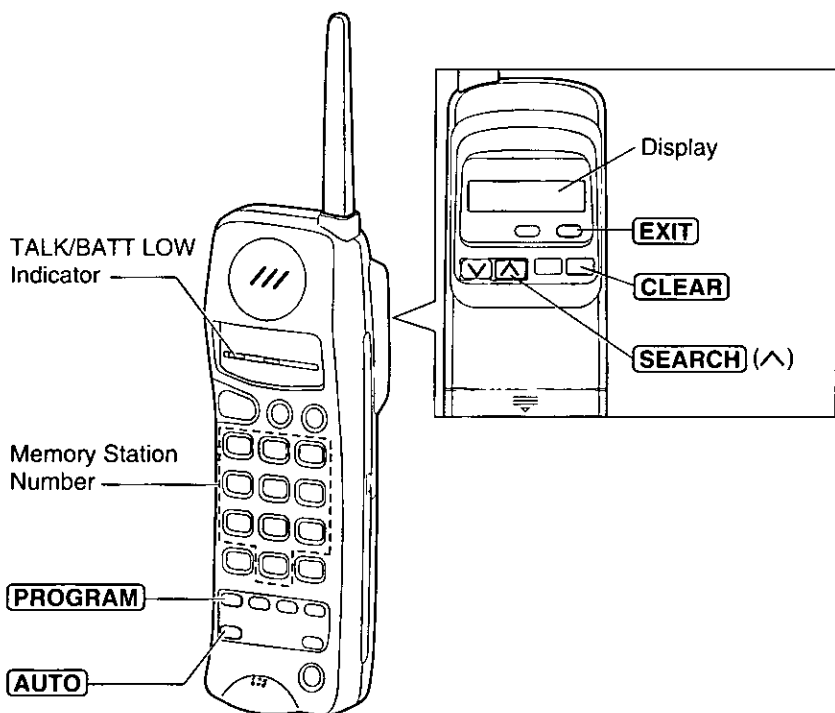
1. Handset:
Press **TALK**.
2. Handset:
Dial a telephone number.
 - You may also dial with the base unit keypad.
3. Base unit:
Enter the required numbers.
4. Handset:
To hang up, press **TALK** or place the handset on the base unit.

Automatic Dialing (Handset)

Storing Phone Numbers in Memory

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

The TALK/BATT LOW indicator light must be off before programming.





- 1 Press **PROGRAM**
 - The TALK/BATT LOW indicator flashes

SAVE AUTO# ?
v=NEXT ^=YES

- 2 Press **SEARCH** ^ (Yes key)

ENTER PHONE NO

- 3 Enter a phone number up to 16 digits
 - If you misdial, press **CLEAR**. Digits are corrected from the right

3334444
AUTO=SAVE

- 4 Press **AUTO**

SELECT 0-9
TO SAVE IN AUTO

- 5 Press a memory station number (0 to 9)
 - A confirmation tone sounds *
 - In a few seconds, the handset will return to the stand-by mode
 - To store other numbers, repeat steps 1 through 5

3334444
SAVE IN AUTO 1

- To cancel, press **PROGRAM** or **EXIT**, then start from step 1

*What the confirmation tone means

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

➔ Automatic Dialing (Handset)

Memory sticker

Use the included memory sticker as a name or phone number index for automatic dialing. Attach the sticker to the unit or in a convenient place.

10-STATION AUTOMATIC DIALER	
1	6
2	7
3	8
4	9
5	0
TEL NO.	

To erase a stored number

- 1 Press **PROGRAM**.
 - The TALK/BATT LOW indicator flashes.
- 2 Press **SEARCH** ^ (Yes key).
- 3 Press **CLEAR**.
- 4 Press **AUTO**.
- 5 Press the memory station number (0 to 9) of the phone number to be erased.

SAVE AUTO# ?
v=NEXT ^=YES

ENTER PHONE NO.

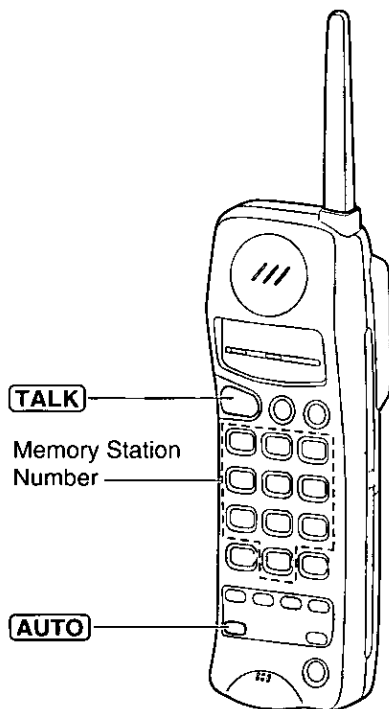
AUTO=CLEAR

SELECT 0-9 TO
CLEAR IN AUTO

CLEAR IN AUTO 1

Dialing a Stored Number

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



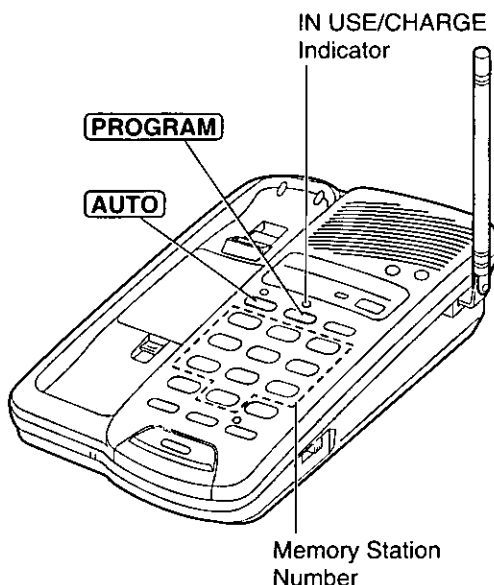
- Numbers stored in the handset can only be dialed by the handset.

Automatic Dialing (Base Unit)

Storing Phone Numbers in Memory

You can store up to 10 numbers in the base unit. The dialing buttons (0 to 9) function as memory stations. The SP-PHONE indicator light must be off.

- 1 Press **PROGRAM**.
 - The IN USE/CHARGE indicator flashes.
- 2 Enter a phone number up to 16 digits.
 - If you misdial, press **PROGRAM** to end storing. Then restart from step 1.
- 3 Press **AUTO**.
- 4 Press a memory station number (0 to 9).
 - A confirmation tone sounds.*
 - To store other numbers, repeat steps 1 through 4.



*What the confirmation tone means

1 beep: The new number is stored.

2 beeps: The number is the same as a previously stored one.

To erase a stored number

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

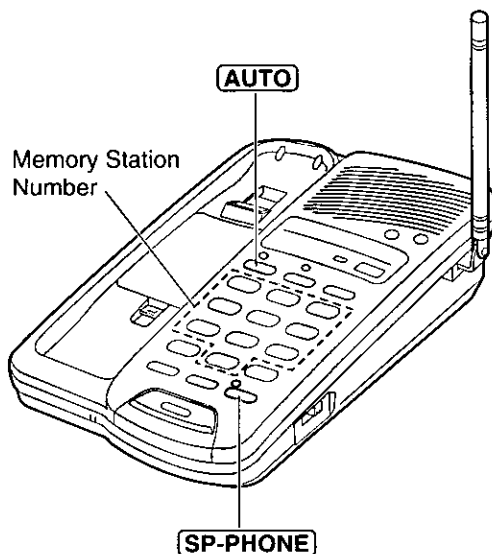
Memory sticker

Use the included memory sticker as a name or phone number index for automatic dialing. Attach the sticker to the unit or in a convenient place.

10-STATION AUTOMATIC DIALER	
1	6
2	7
3	8
4	9
5	0
TEL. NO.	

Dialing a Stored Number

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



- Numbers stored in the base unit can only be dialed by the base unit.

Caller ID Service

This unit is compatible with a Caller ID service offered by your telephone company.

After you subscribe to a Caller ID service, the calling party information will be displayed after the first ring.

The unit records information of up to 30 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 oldest call.

Using the list, you can automatically dial the caller. You can store the caller's numbers in the Caller List into the automatic dialing memory.

If you subscribe to a Visual Call Waiting (Call Waiting ID) service, when a second call is received, the new caller's name and phone number will be displayed (p. 44).

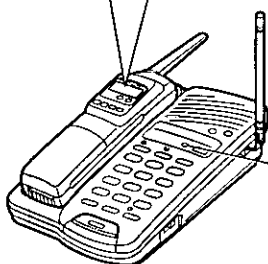
How caller information is displayed when a call is received

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

TINA ROBINSON
1-000-222-3333

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

00-00-00 CH10



The CALLER ID indicator light flashes quickly when a call is received.

- In some cases, caller information cannot be displayed. In these cases, the display will show as follows.

The caller dialed from an area which does not provide a Caller ID service.

OUT OF AREA

The caller has requested not to display their information.

PRIVATE CALLER

- When the unit is connected to a PBX system, you cannot receive caller information.
- In some calling areas, the name display service may not be available. For further information, please contact your telephone company.

To check the number of new calls

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

While the handset is on the base unit:

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

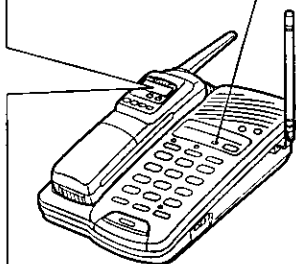
10 NEW CALLS

When you lift the handset, the display changes to the following.

10 NEW CALLS
 √=NEW ^=OLD

- After 10 seconds, the display changes to the stand-by mode (p. 13).

CALLER ID Indicator



Advanced Operation

While the handset is off the base unit:

Press **SEARCH** (√ or ^) to turn the display on. If you have received 10 new calls, the display will show the following.

10 NEW CALLS
 √=NEW ^=OLD

SEARCH



Using the Caller List

Viewing the Caller List

To confirm who has called you, follow the steps below.

- 1** Lift the handset off the base unit.
OR

When the handset is off the base unit, press **SEARCH** (∨ or ∧) to enter the list.

- The display will show the following.

1 NEW CALL
∨=NEW ∧=OLD

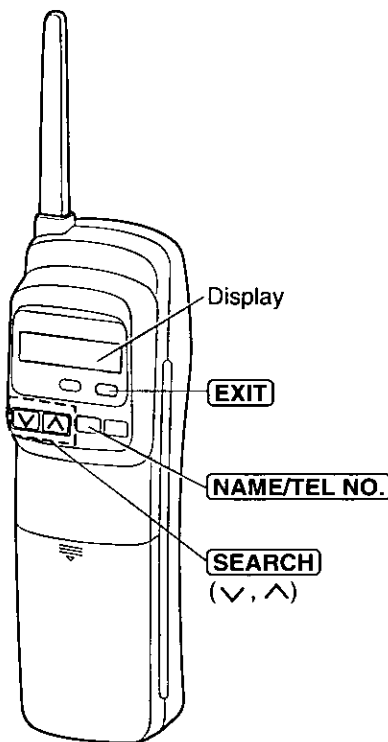
- 2** To search from the most recent call, press **SEARCH** ∨ (NEW key).

To search from the oldest call, press **SEARCH** ∧ (OLD key).

- To move between callers, press **SEARCH** (∨ or ∧).
- To alternate the display between the name and number, press **NAME/TEL NO.**

- 3** To exit the list, press **EXIT**.

- The handset will return to the stand-by mode.



- Once NEW calls have been checked, they will be listed as OLD. The number of NEW calls will be displayed as "0 NEW CALL" after all of the NEW calls have been checked.
 - When you answer a call or call back, the caller information will be listed as OLD.
 - If "NO CALLERS" is displayed in step 1, the Caller List is empty. Press **EXIT** to exit the list.
 - If more than one call is received from the same caller, the date and time of the last call will be recorded.
- Also, OLD call entries will be deleted when the same caller calls again.



Ex. When you search from the most recent call:

1 NEW CALL

Lift the handset off the base unit.

OR

[Empty box]

When the handset is off the base unit, press **SEARCH** √.

1 NEW CALL
√=NEW ^=OLD

Press **SEARCH** √.

JACK SMITH
11:20A JAN12 ×3

Press **NAME/TEL NO.**.

111-2222
11:20A JAN12 ×3

Press **SEARCH** √.

Press **SEARCH** √.

END OF NEW CALL

Press **SEARCH** √.

●NANCY BROWN
9:54A JAN10 ×2

Press **NAME/TEL NO.**.

●222-3333
9:54A JAN10 ×2

Press **SEARCH** √.

Press **SEARCH** √.

/KEVIN PARKER
8:35P JAN 9

Press **NAME/TEL NO.**.

/333-4444
8:35P JAN 9

Press **SEARCH** √.

Press **SEARCH** √.

END

*If the next caller does not have name information, the display will only show the phone number.

Press **SEARCH** √.

To exit the Caller List, press **EXIT**.

• The handset will return to the stand-by mode.

Display Symbols

● : You have viewed this caller information at least once or answered the call.

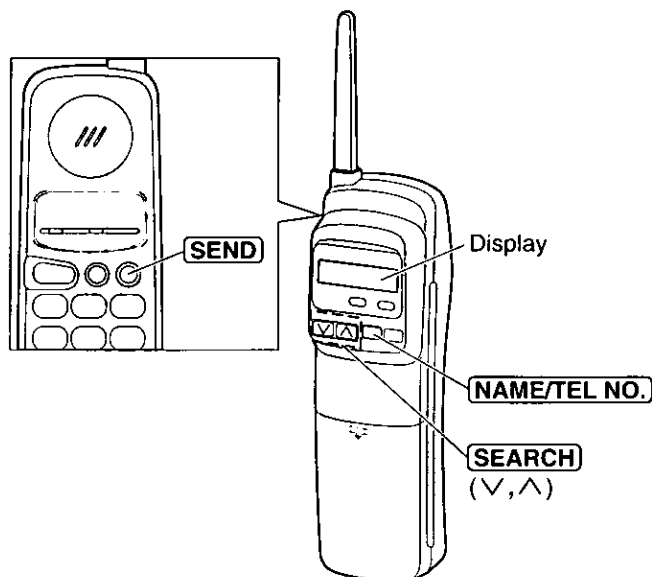
/ : You have called back the caller.

×2-×9 : The number of times they called (up to 9).

Advanced Operation

➔ Using the Caller List

Calling Back from the Caller List



- 1 Lift the handset off the base unit.
OR
When the handset is off the base unit,
press **SEARCH** (v or ^) to enter the list.

3 NEW CALLS
v=NEW ^=OLD

- 2 Press **SEARCH** (v or ^) repeatedly to
find the desired caller.
- To confirm the caller's phone number,
press **NAME/TEL NO.**

CINDY TURNER
11:20A JAN12 X3

- 3 Press **SEND**.
- The unit obtains a dial tone and
automatically dials the displayed phone
number.

1-234-456-7890
CH11

- In some cases you may have to edit the number before it is dialed (p. 37).
(Ex. You may have to add "1" for long distance calls.)
If the area code is not stored (p. 15), the edited number will not be saved
in the Caller List.
- If a phone number is not displayed in the caller information, you cannot
call back that caller.



Editing the Caller's Phone Number

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

- 1 Lift the handset off the base unit.
OR
When the handset is off the base unit,
press **SEARCH** (∨ or ^) to enter the list.

5 NEW CALLS
∨=NEW ^=OLD

- 2 Press **SEARCH** (∨ or ^) repeatedly to
find the desired caller.

FRED PARKER
11:20A JAN12 ×3

- 3 Press **NAME/TEL NO.** to display the
caller's phone number.

321-5555
11:20A JAN12 ×3

- 4 Press **EDIT** to select an edit pattern.
Each time you press **EDIT**, the number
is rearranged into one of 4 different
patterns.

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

- The cursor on the area code will flash.
You can change the area code by
entering the correct number using the
dialing buttons.

(a)

1-321-5555
11:20A JAN12 ×3

(b)

1-234-321-5555
11:20A JAN12 ×3

(c)

234-321-5555
11:20A JAN12 ×3

(d)

321-5555
11:20A JAN12 ×3

Advanced Operation

- 5 After you edit the number into the desired
pattern, you can continue with storing or
call back procedures.

To store the number in automatic dialing
memory, press **AUTO**. Then press a
memory station number (0 to 9) (p. 38).
To call back, press **SEND** (p. 36).

Storing the Caller List Information in the Handset's Automatic Dialing Memory

You can store numbers that are in the Caller List into the handset's automatic dialing memory.

The TALK/BATT LOW indicator light must be off.

- 1** Lift the handset off the base unit.
OR
When the handset is off the base unit, press **SEARCH** (∨ or ∧) to enter the list.

10 NEW CALLS
∨=NEW ∧=OLD

- 2** Press **SEARCH** (∨ or ∧) repeatedly to find the caller you want to store in memory.

CINDY TURNER
11:20A JAN12 ×3

- To check the phone number, press **NAME/TEL NO.**. If the number requires editing, see page 37.

- 3** Press **AUTO**.

SELECT 0-9
TO SAVE IN AUTO

- 4** Press a memory station number (0 to 9).
• A confirmation tone sounds (p. 27).

1-234-456-7890
SAVE IN AUTO 0

- You cannot store caller information in automatic dialing memory when a phone number is not displayed.

Erasing the Caller List Information

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

To erase a specific caller from the Caller List

- 1 Lift the handset off the base unit.
OR
When the handset is off the base unit,
press **SEARCH** (v or ^) to enter the list.

10 NEW CALLS
v=NEW ^=OLD

- 2 Press **SEARCH** (v or ^) repeatedly to
find the caller you want to erase from
memory.

TOM REAGAN
12:20A JAN12 X3

- 3 Press **CLEAR**.
- The information is erased.
 - In a few seconds, the display shows the
previous caller information.

CLEAR

To erase all of the entries in the Caller List

- 1 Lift the handset off the base unit.
OR
When the handset is off the base unit,
press **SEARCH** (v or ^) to enter the list.

Be sure this display is
shown.

0 NEW CALL
v=NEW ^=OLD

- 2 Press **CLEAR**.

PRESS CLEAR FOR
ALL CLEAR

- 3 Press **CLEAR** again.
- All of the entries are erased.
 - In a few seconds, the handset will
return to the stand-by mode.

ALL CLEAR

- You can also erase all of the entries by setting the display to "END OF NEW CALL", "END OF OLD CALL" or "END" using **SEARCH** (v or ^) in step 1.

Voice Mail Service

Voice mail service is an electronic on-line answering system offered by your telephone company. After you subscribe, the voice mail system can answer calls automatically when your line is busy or if calls are not answered. Callers can leave messages by following the pre-recorded instructions. When voice mail messages are recorded, you will hear a voice mail tone after pressing **TALK** or **SP-PHONE**. You can access the voice mail system quickly by pressing **VOICE MAIL**.

Store your access phone number first **using the handset close to the base unit. The TALK/BATT LOW and SP-PHONE indicator lights must be off before programming.**

To store an access number in your voice mail

- 1 Press **PROGRAM**.
• The TALK/BATT LOW indicator flashes.

SAVE AUTO# ?
∨=NEXT ^=YES
- 2 Press **SEARCH** ∨ (Next key) once.
Be sure that "SAVE MAILBOX# ?" is displayed.

SAVE MAILBOX# ?
∨=NEXT ^=YES
- 3 Press **SEARCH** ^ (Yes key).

ENTER MAILBOX#

- 4 Enter your access phone number up to 30 digits.
• If you enter a wrong number, press **CLEAR**. Digits are corrected from the right.

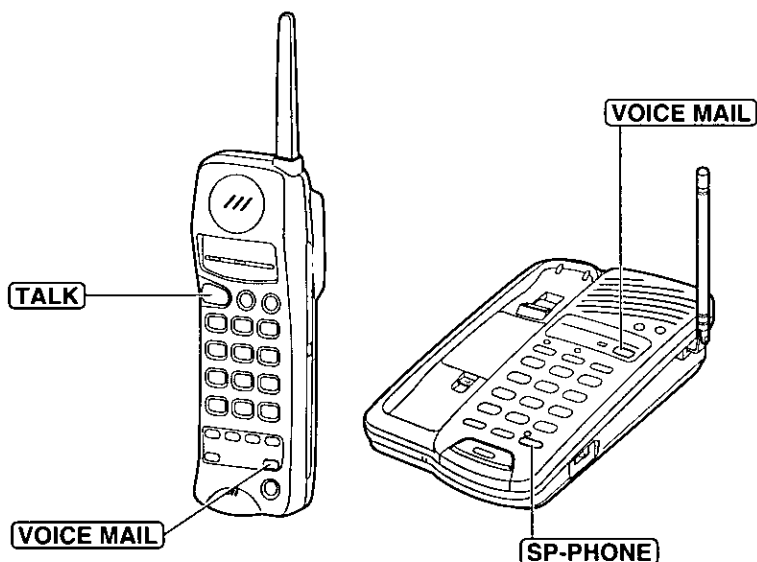
1234567890
VOICEMAIL=SAVE
- 5 Press **VOICE MAIL**.
• A confirmation tone sounds (p. 27).
• The stored number is displayed.
• In a few seconds, the handset will return to the stand-by mode.

1234567890
SAVE MAILBOX#

- To cancel, press **EXIT** or **PROGRAM**, then start from step 1.
- If the display shows "SAVE ERROR", move closer to the base unit and try again. If "SAVE ERROR" still remains, place the handset on the base unit. Restart from step 1.

To listen to voice mail message(s)

When you have received a voice mail message, you will hear a voice mail tone after pressing **TALK** or **SP-PHONE**. You can listen to the message from the handset or the base unit.



- 1 Press **VOICE MAIL**.
 - The unit obtains a dial tone and automatically dials the number.
- 2 Follow the pre-recorded instructions.
- 3 When finished, press **TALK** or **SP-PHONE**.

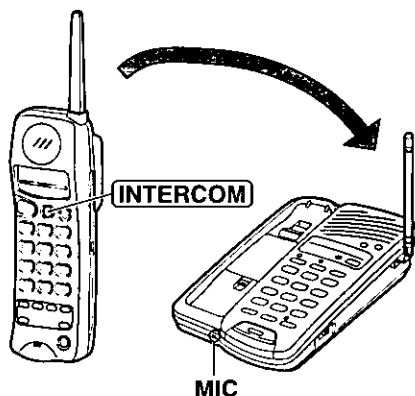
- Depending on your voice mail service provider, the **VOICE MAIL** button on the base unit will light. This indicates a message is waiting.
- When the **VOICE MAIL** button on the base unit still flashes even though you have listened to your voice mail messages, press **PROGRAM** and then **VOICE MAIL** firmly to turn off the button.

Intercom

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

Paging the base unit from the handset

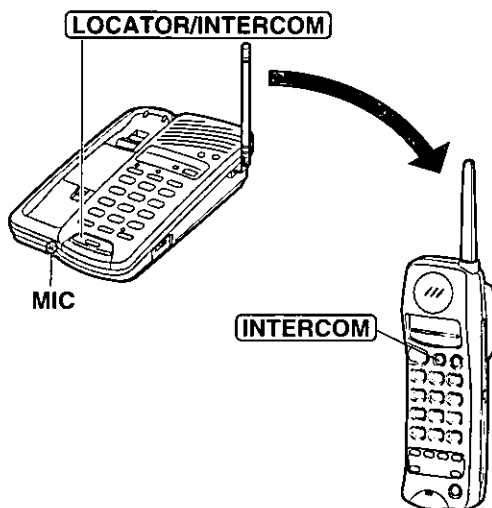
- 1 Handset:
Press **INTERCOM**, then speak.
 - The indicator lights and "INTERCOM" is displayed.
- 2 Base unit:
When the other party's voice is heard, answer using the **MIC**.
- 3 Handset:
To end the intercom, press **INTERCOM**.



Paging the handset from the base unit (Handset locator)

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

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



During the intercom:

- Intercom calls can only be ended by the handset.
- If the handset user has difficulty hearing the base unit user, decrease the speaker volume by pressing **VOLUME** ∨ .
- If two tones sound, an incoming call has been received. To answer, press **TALK** or **SP-PHONE**. The intercom is ended.

Transferring a Call Using the Intercom

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

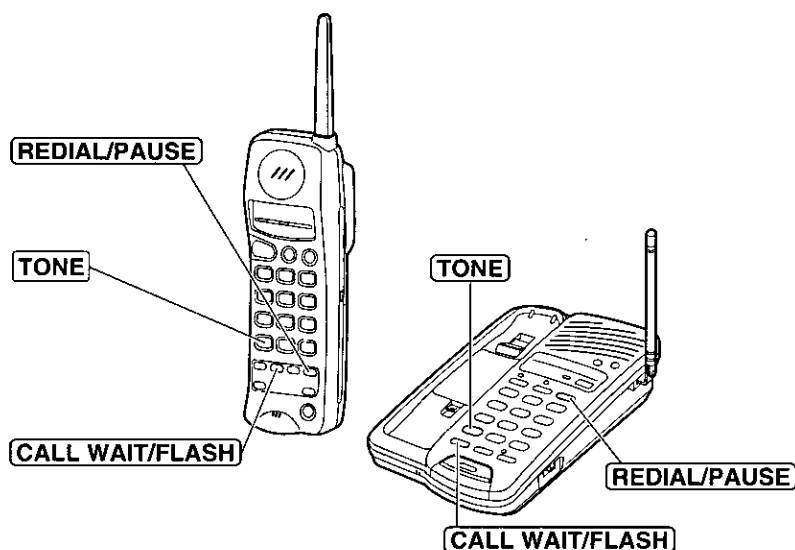
From the handset to the base unit

- 1 Handset:**
During a call, press **INTERCOM** then speak.
 - The call is put on hold and "INTERCOM HOLD" is displayed.
 - If the base unit is not answered, press **TALK**.
- 2 Base unit:**
When the paging party's voice is heard, answer using the **MIC**.
- 3 Base unit:**
To answer the call, press **SP-PHONE**.
 - The transfer is completed.
 - The handset user can join the conversation by pressing **TALK**.

From the base unit to the handset

- 1 Base unit:**
During a call, press **LOCATOR/INTERCOM**.
 - The call is put on hold.
 - If the handset is not answered, press **SP-PHONE**.
- 2 Handset:**
Press **INTERCOM** to answer the page.
- 3 Handset:**
To answer the call, press **TALK**.
 - The transfer is completed.
 - The base unit user can join the conversation by pressing **SP-PHONE**.

Special Features



For Call Waiting Service Users

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

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

Visual Call Waiting (Call Waiting ID) Service

Visual Call Waiting (Call Waiting ID) Service 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----" alternately.

- During a conversation with the base unit, the second caller's information will not be displayed when the handset is off the base unit.
- Please contact your telephone company for details and availability in your area.

Automatic Security Code Setting

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

Temporary Tone Dialing (For Rotary 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 services, etc. When you hang up, the mode returns to pulse.

If Your Unit is Connected to a PBX (Analog Only)

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

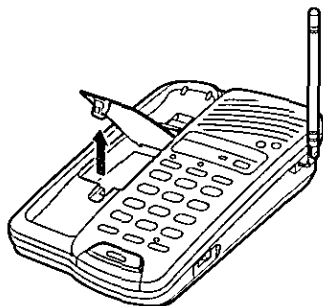
- Pressing **[REDIAL/PAUSE]** once creates a 3.5 second pause. This prevents misdialing when you redial or dial a stored number. (**[REDIAL/PAUSE]** counts as one digit.)

Optional Spare Battery

When the handset battery needs charging, you may replace it with a fully charged optional spare battery. This eliminates waiting for the handset battery to recharge. **Please purchase a Panasonic P-P592 (KX-A92) battery** and install it in the base unit to charge.

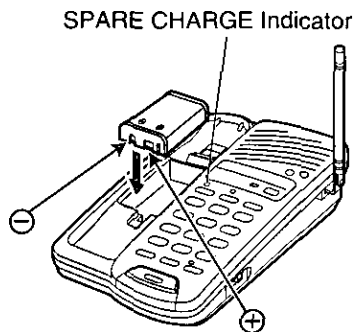
Installing a spare battery in the base unit

- 1 Open the cradle cover by pushing the tab and lifting the cover.



- 2 Install the spare battery as shown, observing the proper polarity. Then close the cradle cover.

- The SPARE CHARGE indicator lights.



The spare battery is always being charged in the base unit while the AC adaptor is connected. The battery cannot be overcharged.

Attention:

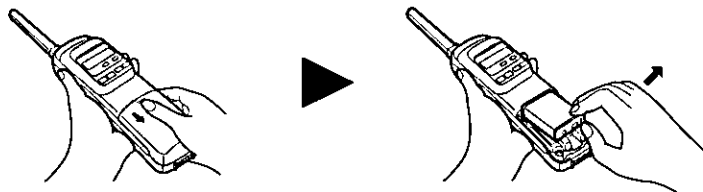
The product you have purchased is powered by a nickel cadmium battery which is recyclable. At the end of its useful life, under various state and local laws, it is illegal to dispose of this battery into your municipal waste stream. Please call 1-800-8-BATTERY for information on how to recycle this battery.



Replacing the handset battery with the spare battery

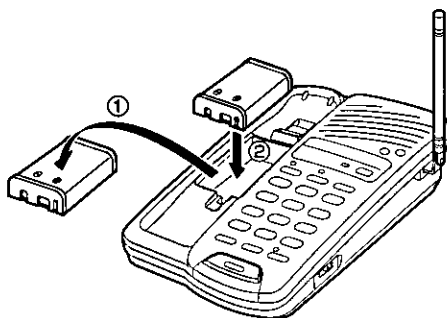
To prevent memory loss, replace the battery within 5 minutes.

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



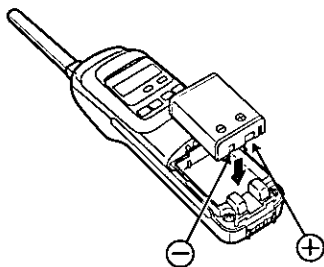
- 2 Replace the handset battery with the spare battery in the base unit.

- ① Remove the spare battery.
- ② Insert the handset battery in the base unit observing the proper polarity.



- 3 Install the spare battery in the handset, observing the proper polarity.

- When finished, close the handset cover.



- If the TALK/BATT LOW indicator flashes slowly even when the handset battery has been fully charged, it is time to replace the battery with a new one. Remember to charge the new battery completely after battery replacement.
- Please use only a Panasonic P-P592 (KX-A92) battery. To order, call 1-800-332-5368.

Before Requesting Help

Problem	Remedy
"OUT OF RANGE" is displayed and an alarm tone sounds when you press TALK or INTERCOM .	<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.
An alarm tone sounds continuously while using the handset.	<ul style="list-style-type: none">• Move closer to the base unit quickly, or the call will be terminated within 60 seconds.• Plug in the AC adaptor.
The unit does not work.	<ul style="list-style-type: none">• Check the settings (p. 11-16).• Charge the battery fully (p. 12).• Clean the charge contacts and charge again (p. 13).• Install the battery properly (p. 11).• Place the handset on the base unit and unplug the AC adaptor to reset. Plug in, then try again.• Re-install the handset battery within 5 minutes to avoid memory loss and try again.
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 CH to select a clearer channel.
The handset does not ring.	<ul style="list-style-type: none">• The ringer volume is set to OFF. Press LOUD/RINGER lightly while the TALK/BATT LOW indicator light is off (p. 21).
The base unit does not ring.	<ul style="list-style-type: none">• The RINGER selector is set to OFF. Set to HIGH or LOW (p. 24).



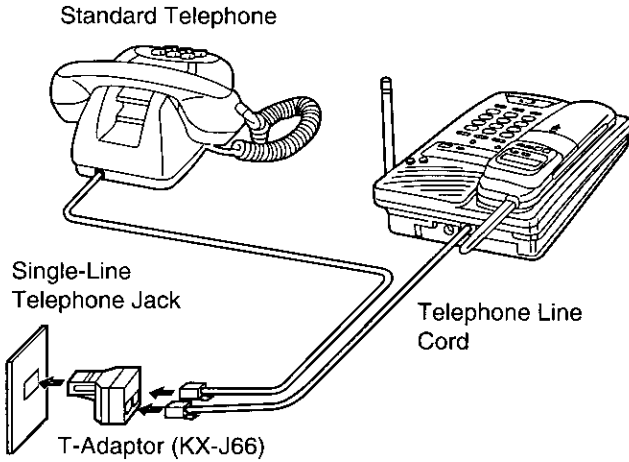
Problem	Remedy
The handset display is blank.	<ul style="list-style-type: none">• The handset is in the stand-by mode (p. 13). Press SEARCH (∨ or ∧) to turn the display on.
The handset display is still blank after pressing SEARCH (∨ or ∧).	<ul style="list-style-type: none">• Charge the battery fully (p. 12).
You cannot program items, such as the dialing mode.	<ul style="list-style-type: none">• Programming is not available while the unit is in the talk or speakerphone mode, or when viewing the caller information.
You cannot store a phone number in memory.	<ul style="list-style-type: none">• SEARCH (∨ or ∧) may have been pressed when you picked up the handset. Press EXIT, then try again.• You cannot store a number while the unit is in the talk, speakerphone or intercom mode.• Do not pause for over 30 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 or SP-PHONE. Start from the beginning after hanging up.
The unit does not display the name and/or phone number of callers.	<ul style="list-style-type: none">• Other telephone equipment may be interfering with your phone. Disconnect them and try again.• Other electrical appliances connected to the same outlet as the phone may be interfering with the Caller ID information. Telephone line noise may be affecting the Caller ID information.
The handset display becomes blank while searching.	<ul style="list-style-type: none">• Do not pause for over 60 seconds while searching.

Before Requesting Help

Problem	Remedy
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 or in the search mode. Wait until the IN USE/CHARGE indicator light goes out.
REDIAL/PAUSE does not function properly.	<ul style="list-style-type: none">• 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. 18, 23). If another number has been dialed first, it will operate as a pause button (p. 45).
The TALK/BATT LOW indicator flashes slowly or the unit beeps intermittently.	<ul style="list-style-type: none">• Charge the battery fully or replace with a fully charged optional spare battery (p. 12, 47).
You charged the battery fully, but the TALK/BATT LOW indicator flashes slowly.	<ul style="list-style-type: none">• Clean the charge contacts and charge again (p. 13).• Replace the battery. Please purchase a new battery (p. 46).
The IN USE/CHARGE indicator and/or the SPARE CHARGE indicator light never goes out while charging.	<ul style="list-style-type: none">• This is normal.
If you cannot solve your problem.	<ul style="list-style-type: none">• Call our customer satisfaction center at 1-800-922-0028.

Adding Another Phone

This unit will not function during a power failure. To connect a standard telephone on the same line, use a Panasonic T-adaptor KX-J66. (To order, call 1-800-332-5368.)



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.

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 Equivalence0.2B

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.

- **Environment** — do not place the unit in 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.
- **Routine care** — wipe the unit with a soft cloth. Do not use benzine, thinner, or any abrasive powder. When you left the unit unused for long time, unplug the AC adaptor from the outlet.
- **If there is any trouble** — disconnect the unit from the telephone line and connect a known working phone. If the known working phone operates properly, have your unit repaired by one of the authorized Panasonic Factory Service Centers. If the known working phone does not operate properly, consult with your telephone company.

For product service

- Panasonic Servicenters are listed in the servicenter directory.
- Call 1-800-545-2672 for the location of an authorized servicenter.

When you ship the product

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

Symptom

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

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

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

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