

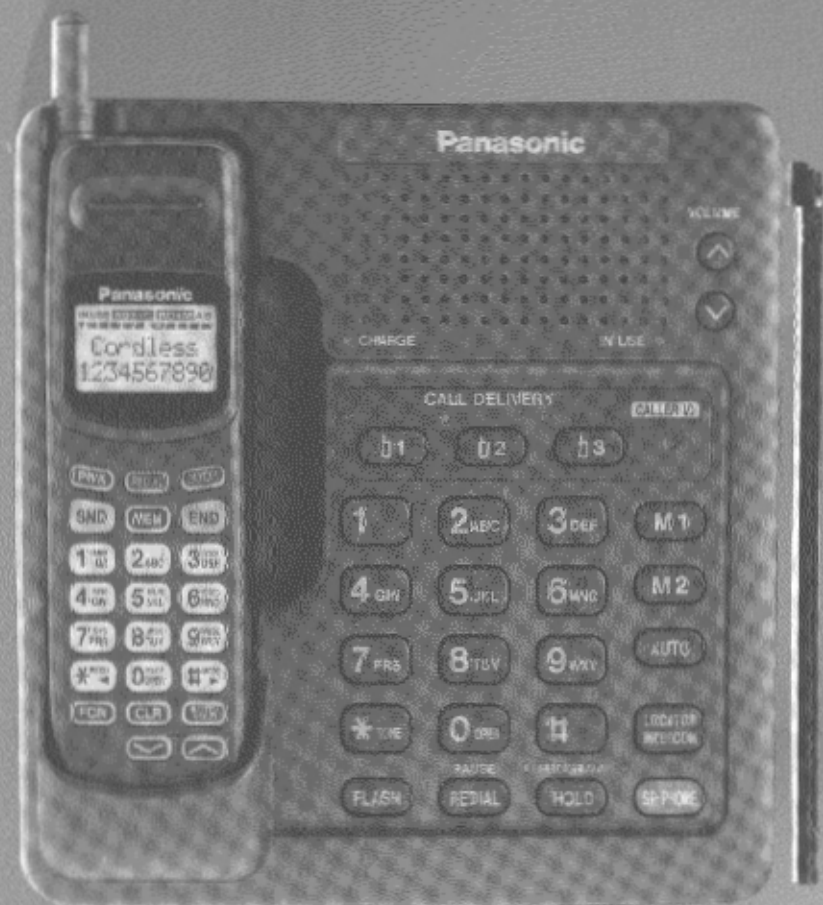
# Panasonic®

## Handset and Base Station Kit

### EB-P55S

#### Operating Instructions

# Telenium™



Before operating this set, please read these instructions completely.  
Charge battery before operation.

# Reference Information

Thank you for purchasing the Panasonic Handset and Base Station Kit. Before operating your phone:



- 1 Please read **IMPORTANT SAFETY INSTRUCTIONS** on pages 70-72 before use. Read and understand all instructions.
- 2 Read Precautions on page 67.
- 3 Fully charge battery. Refer to Battery Charging on page 14.
- 4 Fill out the following reference information and tape or staple your purchase receipt here.

Model Number: \_\_\_\_\_

ESN No. (*under battery on back of handset*):  
\_\_\_\_\_

Serial No. (*on the bottom of base station*):  
\_\_\_\_\_

Purchase Date: \_\_\_\_\_

Dealer Name: \_\_\_\_\_  
\_\_\_\_\_

Emergency Number: \_\_\_\_\_

Lock Code: \_\_\_\_\_

Own Phone Number 1: \_\_\_\_\_

Own Phone Number 2: \_\_\_\_\_

**Notice for Canadian Customers:** This cordless telephone uses radio communications between the handset and the base station, and may not ensure privacy of communication. Other devices, including other cordless telephones, may interfere with this cordless telephone or cause noise during operation.

Units not containing coded access may be accessed by other radio communication systems. Cordless telephones must not cause interference to any licensed radio service.

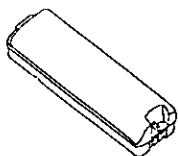
# Kit Composition



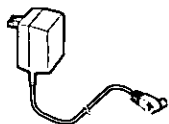
Base Station  
EB-PB55



Handset  
EB-PH55



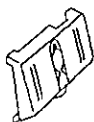
Battery (M)  
700 mAh NiCd  
EB-BM60



AC Adaptor  
KX-TCA3



Telephone Line Cord



Wall Mounting Adaptor  
PQL24Z0



*Handset and Base Station Kit  
Operating Instructions  
and  
Getting Started*



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# Introduction

## PHONE OPERATION OVERVIEW

The handset can be used as a cordless phone or a cellular phone. If your place of business is equipped with a wireless in-building telephone system, your handset can be used as a wireless extension to that system.



If you do not have a wireless in-building telephone system, disregard the sections in this guide that contain specific In-Building information.

Your handset scans for these systems in the following order:

1. Cordless
2. In-Building
3. Cellular

When a system is found, its operation mode is shown on the first line of the handset display. The current operation mode of the handset is displayed at all times.

You can select which systems you want your handset to scan for. You can switch between the systems you have selected. Your handset, however, does not switch systems during a call.

Calls to your cellular number can be forwarded to the base station if Call Delivery service is offered by your cellular service provider (see Initiating Call Delivery Service on page 45).

Your phone supports up to three handsets. Each handset can be registered as a separate cellular number, but within the range of cordless operation, all handsets operate under the same phone number or extension.

## SYMBOLS USED IN THIS GUIDE



Cordless:

Indicates features in the Cordless mode.



In-Bldg:

Indicates features in the In-Building mode.

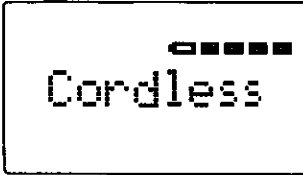


Cellular:

Indicates features in the Cellular mode.



### Cordless Phone (Cordless Mode)



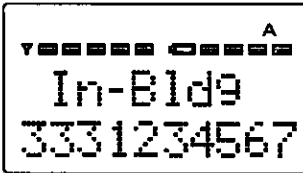
After the base station is connected, you can make and receive calls as long as the handset is within range of the base station. If your handset is beyond the range of the base station, your handset automatically scans for the other system(s). You can still make and receive calls at the base station by using the speaker phone.

When out of range of the base station during conversation, you will hear noise. In this case, move into range of the base station or end the call.

Your base station is capable of having up to two optional handsets in addition to the one in this kit.



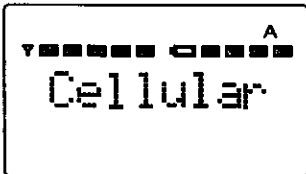
### Wireless In-Building Phone (In-Bldg Mode)



Your handset can operate on a Wireless In-Building system if your building is equipped for this. When you are in range of the In-Building system, your handset displays the mode and your in-building phone number, or extension number. You can use your handset as a wireless in-building phone.



### Cellular Phone (Cellular Mode)

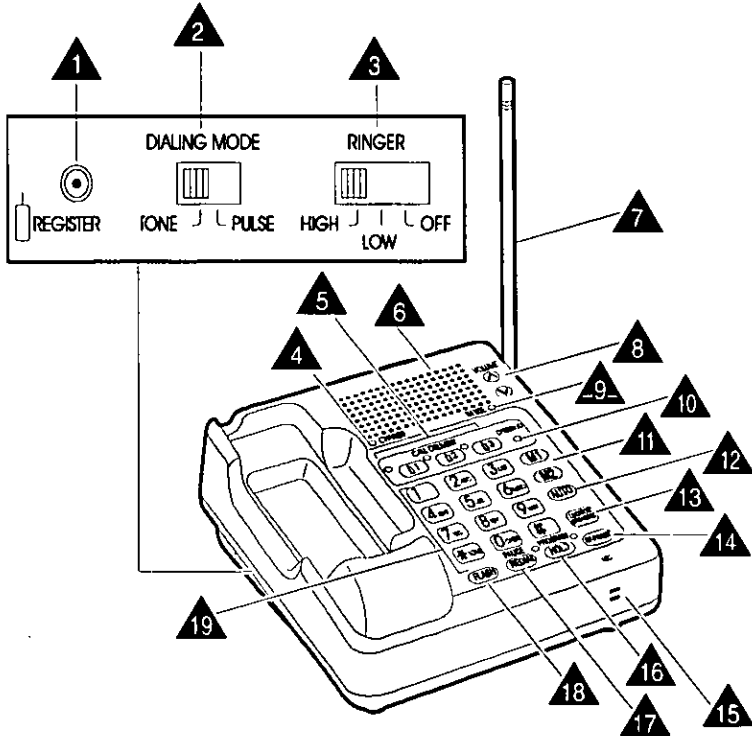


Your handset can operate on a Cellular system. When you are beyond the range of the Cordless and Wireless In-Building systems, your handset automatically scans for a Cellular system. After registering with the system, you can use your handset as a cellular phone.



# Getting Started

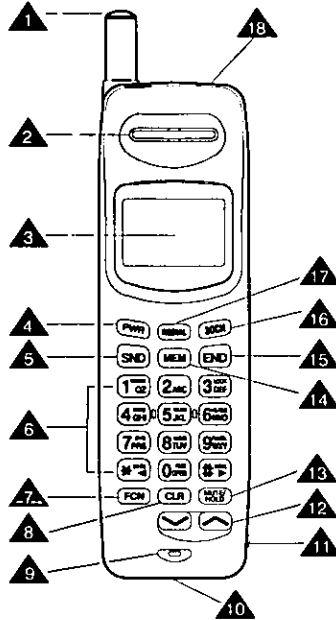
## BASE STATION OVERVIEW



- 1** **Handset registration button:** Used for registering additional handsets.
- 2** **Dialing mode selector:** Switches to Tone or Pulse mode.
- 3** **Ringer selector:** Switches ringer volume to High, Low, or Off.
- 4** **CHARGE indicator:** Lights red when the handset is in the base station.
- 5** **CALL DELIVERY keys (indicators):** Switches call delivery setting on or off; the indicator is lighted if Call Delivery setting is on or flashes if setting change has failed.

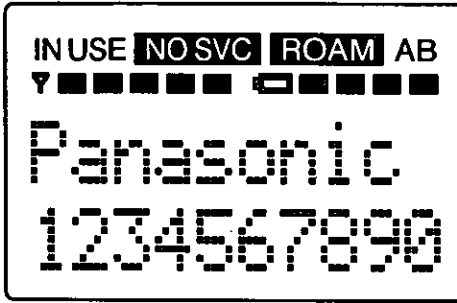
- ▲**6** **Speaker:** Used during speaker phone operation.
- ▲**7** **Antenna:** Used for Cordless mode.
- ▲**8** **Volume keys:** Adjusts speaker volume.
- ▲**9** **IN USE indicator:** Flashes if a call is received; lights steady if the handset is in use.
- ▲**10** **CALLER ID storage indicator:** Flashes if unread caller ID(s) are stored.
- ▲**11** **M1-M2 keys:** One-touch dial keys.
- ▲**12** **AUTO (Automatic dial) key:** Dials a phone number in base station memory; allows you to store a number in base station memory locations 0-9.
- ▲**13** **LOCATOR/INTERCOM key:** Makes or ends intercom calls; locates the handset if you misplace it.
- ▲**14** **SP-PHONE (Speaker phone) key (indicator):** Sounds dial tones to make calls; ends calls; retrieves a call on hold; the indicator lights if the key is pressed.
- ▲**15** **Microphone:** Allows you to converse during speaker phone operation.
- ▲**16** **HOLD/PROGRAM key (indicator):** Puts a call on hold; enters memory program mode when in standby; the indicator lights during program mode or flashes while a call is on hold.
- ▲**17** **REDIAL/PAUSE key:** Redials the last number; or pauses between numbers.
- ▲**18** **FLASH key:** Erases a phone number entered at the base station if pressed and held; accesses carrier services (such as call waiting) if pressed during a call.
- ▲**19** **Digit keys:** Numerals 0-9, \* (asterisk), and # (pound sign).

## HANDSET OVERVIEW



<b>1</b> Retractable antenna.	<b>10</b> External connector.
<b>2</b> Earpiece.	<b>11</b> Adaptor jack.
<b>3</b> Display.	<b>12</b> Volume and scrolling keys
<b>4</b> <b>Power key:</b> Turns power on and off.	<b>13</b> <b>Mute/Hold key:</b> Disables the mouthpiece; puts a call on hold.
<b>5</b> <b>Send key:</b> Makes calls; accesses carrier services (such as call waiting).	<b>14</b> <b>Memory key:</b> Stores, recalls, and edits memory locations. Stores function selections.
<b>6</b> <b>Digit keys:</b> Enter digits/characters; select functions.	<b>15</b> <b>End key:</b> Ends calls.
<b>7</b> <b>Function key:</b> Accesses functions.	<b>16</b> <b>30 channel scan key:</b> Switches up to 30 channels in Cordless mode.
<b>8</b> <b>Clear key:</b> Erases entries; exits functions.	<b>17</b> <b>Redial key:</b> Redials the last number dialed.
<b>9</b> <b>Mouthpiece.</b>	<b>18</b> <b>Private handsfree jack.</b>

## UNDERSTANDING THE DISPLAY



} Number entry/  
display area

**IN USE**      Appears while any call is in progress.

**NO SVC**      Appears when calls cannot be placed or received because the received signal strength is too weak or because you are outside of a service area.

**ROAM**      In Cellular mode, is displayed when you are outside of your home system area; flashes if using a system which is a different type (A or B) from your home system.

**A**      Is displayed when using the A system in Cellular or In-Building mode.

**B**      Is displayed when using the B system in Cellular or In-Building mode.



▼ = Antenna indicator.

Indicates received signal strength.  
In Cordless mode, lights only during communication with the base station.  
Five bars = highest signal strength.  
Zero bars = lowest signal strength.  
No indicator = no signal available.



☰ = Battery indicator.

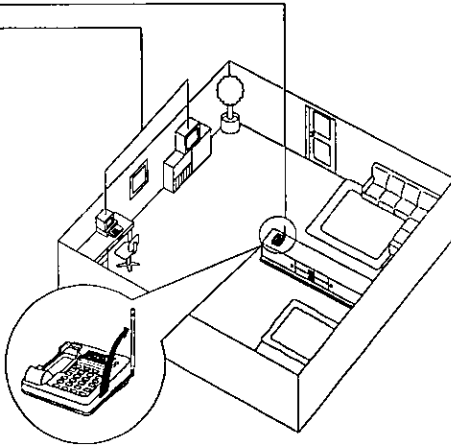
Indicates the battery charge level.  
Four bars = highest battery charge.  
Zero bars = lowest battery charge.

## SET-UP

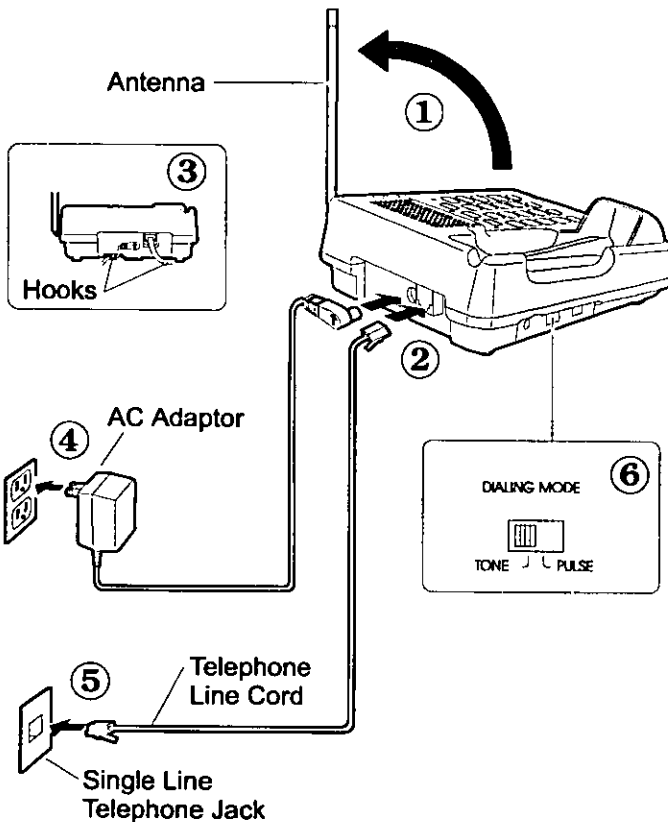
### Base Station Location

Calls are transmitted between the base station and the handset. For maximum distance and noise-free operation, the recommended base station placement is:

- Away from electrical appliances such as a TV, radio, personal computer.
- In a high and central location with no obstructions such as walls.



## Base Station Connection



- ① Raise the antenna.
- ② Plug the AC adaptor and telephone line cords into the base station.
- ③ Loop the cords into the hooks on the base station.
- ④ Plug the AC adaptor into an AC power outlet (AC 120 V, 60 Hz).
- ⑤ Plug the telephone line cord into a single-line telephone jack (RJ11C for USA, CA11A for Canada).
- ⑥ Set Dialing Mode to TONE or PULSE.  
If you cannot dial, set to PULSE.



**USE ONLY Panasonic AC ADAPTOR KX-TCA3.**

The AC Adaptor must remain connected at all times.

To connect another phone into the same telephone jack, use Panasonic T-adaptor KX-J66. (To order in the US, call 1-800-332-5368.)

When this kit is used, the base station and handset may interfere with each other. To prevent or reduce interference, leave ample space between the units.

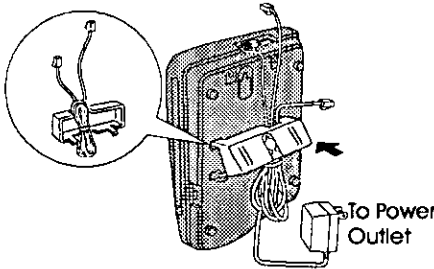
### Wall Mounting

Use the wall mounting adaptor in your kit to mount the base station on a wall. Follow these steps:

**1. Connect the AC Adaptor.**

Tuck the telephone line cord inside the Wall Mounting Adaptor, then push the adaptor in the direction of the arrow.

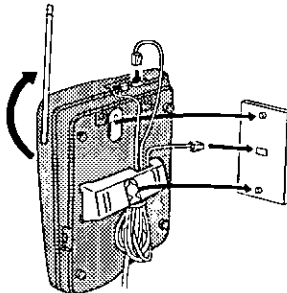
- The word "UP" should face upward.



**2. Connect the telephone line cord.**

Mount the base station, then slide down.

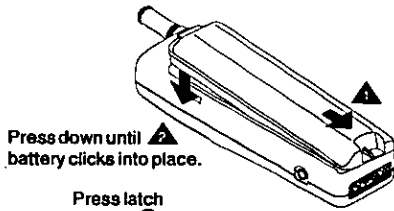
- Raise the antenna.



## BATTERY OVERVIEW

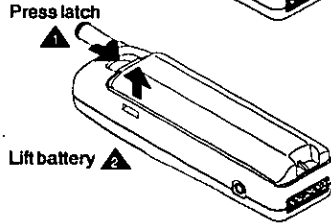
### Attaching/Removing Battery

#### Attaching battery



Press down until battery clicks into place.

#### Removing battery

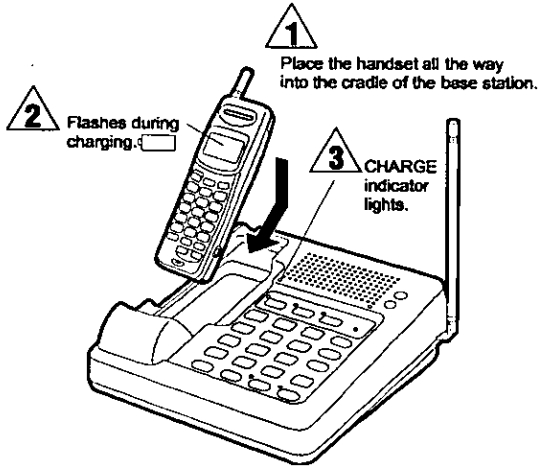



Press latch

Lift battery

### Battery Charging

Charge the battery fully, for 1 ½ to 3 hours, before initial use.



- When charging is complete,  stops flashing.
- The **CHARGE** indicator lights when the handset is in the cradle.
- If the display indicates a **Low Battery** and the handset beeps soon after being charged for the first time, repeat the above charge operation two or three times.
- The battery will charge with the handset power either on or off; however, charging time will be increased with the power on.



## Battery Charge Level

The battery charge level is displayed constantly.


- When the battery charge level is low, **Low Battery** is displayed and the handset beeps.
- Recharge the battery or replace it with a fully charged battery.

### APPROXIMATE CHARGE TIMES

- Battery (S) 500 mAh NiMH (Nickel-Metal Hydride):  
1 ½ - 2 ½ hours
- Battery (M) 700 mAh NiCd (Nickel-Cadmium):  
1 ½ - 2 ½ hours
- Battery (L) 1250 mAh NiMH (Nickel-Metal Hydride):  
3 - 4 hours



Charge batteries in a well-ventilated area between 41° F (5° C) and 95° F (35° C).

Charge the battery for the recommended charging time and/or until  stops flashing.

If the handset is turned on, the charge time will be increased.

To obtain greater battery capacity, use the handset until **Low Battery** is displayed and the handset beeps, then charge the battery fully.

The battery cannot be overcharged.

### IMPORTANT INFORMATION ABOUT YOUR NEW RECHARGEABLE BATTERY

Charge your new battery until the battery indicator stops flashing. Initial charge time for the EB-BS60 or EB-BM60 battery is 1½ to 3 hours; for the EB-BL60 battery, it is 3 to 5 hours. If the initial charge time is less than this, remove and reattach the battery and let it charge a second time. After this initial charge, follow the charging instructions in your Operating Instructions booklet.

**Note:** Under normal conditions, it may take 2 to 3 charge and discharge cycles before the battery reaches its full capacity.

**BATTERY SPECIFICATIONS**

Operation Mode	Battery Type	Approximate Battery Duration	
		Talk time	Standby time
Cordless	Battery (S) 500 mAh NiMH	140 minutes	10 to 12 hours
	Battery (M) 700 mAh NiCd	200 minutes	14 to 17 hours
	Battery (L) 1250 mAh NiMH	350 minutes	25 to 30 hours
In-Building	Battery (S) 500 mAh NiMH	140 minutes	9 hours
	Battery (M) 700 mAh NiCd	200 minutes	12 hours
	Battery (L) 1250 mAh NiMH	350 minutes	23 hours
Cellular	Battery (S) 500 mAh NiMH	60 minutes	9 hours
	Battery (M) 700 mAh NiCd	90 minutes	12 hours
	Battery (L) 1250 mAh NiMH	150 minutes	23 hours

- Standby time may vary depending on battery charging condition and/or radio interference.

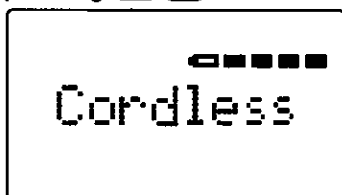
# Basic Operation

## CORDLESS MODE

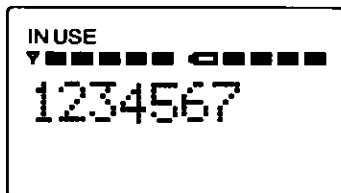
### MAKING A CALL

#### Using the Handset

1. Press and hold **(PWR)**.
  - Wake-up tone sounds and all indicators light.
  - The current scanning operation mode is displayed.
  - After accessing an available system, the mode is displayed (for example, Cordless).
  - If the base station is in use, wait until the base station user ends the call or switch to another system by pressing **(FCN)** **(#)**.



2. Fully extend the antenna.
3. Enter number (up to 32 digits).
  - Press **(CLR)** to erase a digit, or press and hold **(CLR)** to erase the entire entry.
  - To view entries longer than 16 digits, press **(FCN)** and then hold **(FCN)**.
4. Press **(SND)**.



- The **IN USE** indicator lights steady when the handset is in use.
- The signal strength indicator now appears.
- When the call is successfully sent, the display clears.

- It may take about four seconds till you hear a dial tone.
- You can press **(SND)** before entering a phone number. After pressing **(SND)**, you will hear a dial tone.

5. Press **(END)** to end the call.

or

Place the handset all the way into the cradle of the base station.

- The **IN USE** indicator turns off.

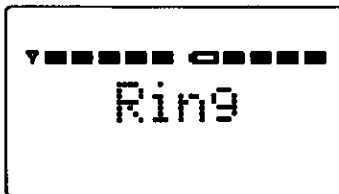
## Using the Base Station

1. Press **(SP-PHONE)**.
  - The **SP-PHONE** indicator lights.
2. Enter number.
  - If you make a mistake, press **(FLASH)** and re-enter the number.
3. When the other party answers, speak into the microphone.
  - When the handset is in the base station, you can lift the handset from the base station to continue the call.
4. Press **(SP-PHONE)** to end the call.
  - The **SP-PHONE** indicator turns off.

## ANSWERING A CALL

### Using the Handset

Make sure that the handset is turned on and the ring volume is adequate. When a call is received, **Ring** appears on the display:



1. Press any key to answer (except **(PWR)**, **(END)**, **(MUTE/HOLD)**, **(V)**, or **(M)**).  
or  
Lift the handset from the cradle.

- If you do not answer calls, a counter displays the number (up to 99) of unanswered calls.
2. Press **END** to end the call.

## Using the Base Station

Be sure to set the RINGER selector on the base station to HIGH, LOW, or OFF. When set to OFF, the base station will not ring. However, the handset will ring if a call is received.

1. Press **SP-PHONE**.
  - The SP-PHONE indicator lights.
2. Speak into the microphone.
  - To continue the call away from the base station, lift the handset from the cradle.
3. Press **SP-PHONE** to end the call.  
or

If you have picked up the handset, press **END** to end the call.

## ADJUSTING THE VOLUME

### Using the Handset

#### RING VOLUME

During ringing, press **▽** or **△**. Press **MUTE/HOLD** to temporarily turn the ring volume off.

or

Press **FCN** **4<sup>IND</sup> CH** **1<sup>IND</sup> OFF**, then **▽** or **△** to adjust. Press **MEM** to save.


- Pressing **MUTE/HOLD** temporarily turns off the ring volume, but has no effect on subsequent incoming calls.
- If you turn off the ring volume, the wake-up tone is also turned off.

#### EARPIECE VOLUME

During a call, press **▽** or **△**.

### KEYTONE VOLUME

When the handset is in standby, press  or .

To turn off the keytones, press and hold  until no bars are displayed.

## Using the Base Station

### RING VOLUME

Set the ringer to HIGH, LOW, or OFF.

### SPEAKER VOLUME


Press  or  during conversation.

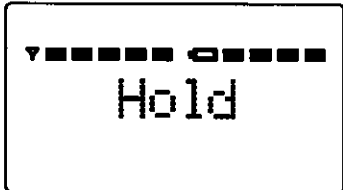
Adjust speaker volume to obtain best audio quality.

## OPERATION DURING A CALL



### Call Hold

#### USING THE HANDSET

1. Press .



- The call is on hold.

2. **Handset:** Press  or  to return to the held call.  
or

**Base Station:** Press .

## USING THE BASE STATION

1. Press **HOLD**.
  - The **PROGRAM** indicator flashes.
2. Press **SP. PHONE** to return to the call.
  - The handset does not display **Hold** if the call is put on hold by the base station.

If you put a call on hold for six minutes, a warning tone sounds. The held call is disconnected after ten minutes have elapsed.

## Channel Changing

Changing channels allows you to select a noise-free channel between the handset and the base station. Up to 30 channels are available for use.

If there is noise on the line during a conversation, press **SOCH** to change channels.

## Flash Function

This feature enables you to access another call by pressing **SND** during conversation. For details, see 3-Way Calling on page 44 or Call Waiting on page 47.

If you accidentally press **SND** during a normal call, the call is disconnected.

## LAST NUMBER REDIAL

### Using the Handset

To redial the last number called, press **REDIAL**.

### Using the Base Station

To redial the last number called, press **SP. PHONE** **REDIAL**.

- The first 32 digits of the phone number are dialed.

## *Basic Operation*



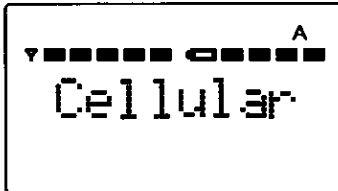


## CELLULAR MODE

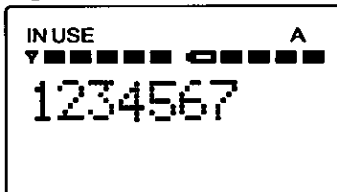
### MAKING A CALL

#### Using the Handset

1. Press and hold **(PWR)**.
  - Wake-up tone sounds and all indicators light.
  - The current scanning operation mode is displayed.
  - After accessing an available system, the mode is displayed (for example, Cellular).
  - If locked, the current lock mode is displayed.



2. Fully extend the antenna and verify that signal strength is sufficient. Typically, two bars or less is considered a weak signal.
3. Enter number (up to 32 digits).
  - Press **(CLR)** to erase a digit, or press and hold **(CLR)** to erase the entire entry.
  - To view entries longer than 16 digits, press **(FCN)** and then hold **(FCN)**.
4. Press **(SND)**.

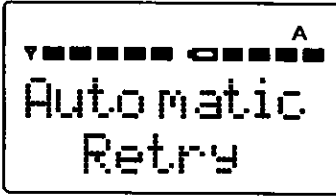


- The **IN USE** indicator lights steady when the handset is in use.
  - When the call is successfully sent, the display clears.
5. Press **(END)** to end the call.

## Automatic Retry

- ✓ Available only if the Automatic Retry feature is programmed by your dealer.

When the call cannot be completed by the cellular system, the handset automatically retries the call up to 15 times.

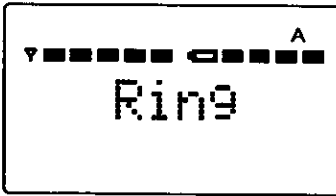


To stop automatic retry at any time, press **END**.

## ANSWERING A CALL

### Using the Handset

Make sure that the handset is turned on and the ring volume is adequate. When a call is received, **Ring** appears on the display:



1. Press any key to answer (except **PWR**, **END**, **MUTE/HOLD**, **☑**, or **☒**).
  - If you do not answer calls, a counter displays the number (up to 99) of unanswered calls.
2. Press **END** to end the call.







## ADJUSTING THE VOLUME


### Using the Handset

#### RING VOLUME

During ringing, press  or . Press  to temporarily turn the ring volume off.

or

Press   , then  or  to adjust. Press  to save.


- Pressing  temporarily turns off the ring volume, but has no effect on subsequent incoming calls.
- If you turn off the ring volume, the wake-up tone is also turned off.

#### EARPIECE VOLUME

During a call, press  or .

#### KEYTONE VOLUME

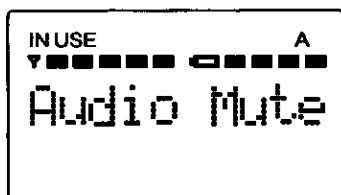
When the handset is in standby, press  or .


To turn off the keytones, press and hold  until no bar is displayed.

## OPERATION DURING A CALL

### Microphone Mute

1. Press .



- The microphone is muted.
2. Press  to un-mute the microphone.

## **Flash Function**

This feature enables you to access another call by pressing **(SND)** during conversation. For details, see Call Waiting on page 47.

If you accidentally press **(SND)** during a normal call, the call is disconnected.

## **LAST NUMBER REDIAL**

### **Using the Handset**

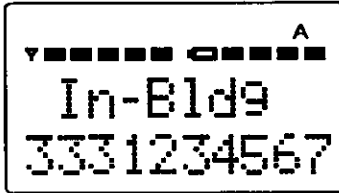
To redial the last number called, press **(REDIAL)**.

## IN-BUILDING MODE

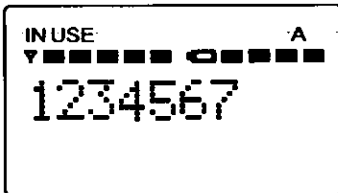
### MAKING A CALL

#### Using the Handset

1. Press and hold **(PWR)**.
  - Wake-up tone sounds and all indicators light.
  - The current scanning operation mode is displayed.
  - After accessing an available system, the mode is displayed (for example, In-Building).



2. Fully extend the antenna and verify that signal strength is sufficient. Typically, two bars or less is considered a weak signal.
3. Enter number (up to 32 digits).
  - Press **(CLR)** to erase a digit, or press and hold **(CLR)** to erase the entire entry.
  - To view entries longer than 16 digits, press **(FCN)** and then hold **(FCN)**.
4. Press **(SND)**.

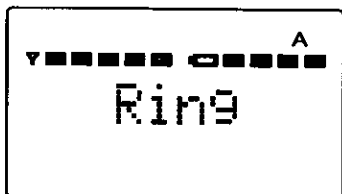


- The **IN USE** indicator lights steady when the handset is in use.
  - When the call is successfully sent, the display clears.
  - You can press **(SND)** before entering a phone number. After pressing **(SND)**, you will hear a dial tone.
5. Press **(END)** to end the call.

## ANSWERING A CALL

### Using the Handset

Make sure that the handset is turned on and the ring volume is adequate. When a call is received, **Ring** appears on the display:



1. Press any key to answer (except **PWR**, **END**, **MUTE/HOLD**, **☑**, or **☐**).
  - If you do not answer calls, a counter displays the number (up to 99) of unanswered calls.
2. Press **END** to end the call.

## ADJUSTING THE VOLUME

### Using the Handset

#### RING VOLUME

During ringing, press **☑** or **☐**. Press **MUTE/HOLD** to temporarily turn the ring volume off.

or

Press **FCN** **4 CH** **1 0Z**, then **☑** or **☐** to adjust. Press **MEM** to save.


- Pressing **MUTE/HOLD** temporarily turns off the ring volume, but has no effect on subsequent incoming calls.
- If you turn off the ring volume, the wake-up tone is also turned off.

#### EARPIECE VOLUME

During a call, press **☑** or **☐**.


## KEYTONE VOLUME

When the handset is in standby, press  or .


To turn off the keytones, press and hold  until no bar is displayed.

## OPERATION DURING A CALL


### Microphone Mute

1. Press .



- The microphone is muted.
2. Press  again to un-mute the microphone.

### Flash Function

This feature enables you to access another call by pressing  during conversation. For details, see Call Waiting on page 47.

If you accidentally press  during a normal call, the call is disconnected.

## LAST NUMBER REDIAL

### Using the Handset

To redial the last number called, press .





# Operation Modes

Your phone operates in three modes: Cordless, In-Building (if your building is equipped with a wireless in-building telephone system), and Cellular.

**Cordless:** When the base station is connected, you can make and receive calls in Cordless mode as long as the handset is within range of the base station. If your handset is beyond the range of the base station, your handset automatically scans for the other system(s).

**In-Building:** When you are in range of the In-Building system, you can use your handset as a wireless in-building phone.

**Cellular:** When you are beyond the range of the Cordless and wireless In-Building system, your handset scans for a Cellular system. If found, you can use your handset in Cellular mode.



## OPERATION MODE SELECTIONS

You can select which systems you want to scan. The following scanning priority cannot be changed:

1. Cordless
2. In-Building
3. Cellular

When a higher priority system is found, the handset switches to the system automatically and its operation mode is displayed on the first line of the display. The current operation mode of the handset is displayed at all times. It takes a while to switch systems and display the operation mode.

Scanning operation mode options vary depending on the systems with which you are registered. When cellular lock is enabled, the handset does not scan for Cellular systems.

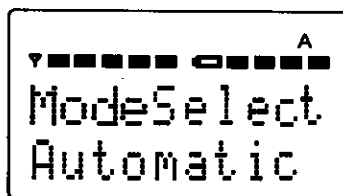
When you select this Scanning Operation Mode . . .	Your handset scans for and lets you make and receive calls in these modes. . .		
	Cordless	In-Building	Cellular
Automatic	X	X	X
CL only	X		
In-BI only		X	
Cell only			X
CL & In-BI	X	X	
CL & Cell	X		X
In-BI & Cell		X	X

- When In-Building mode is disabled, your handset does not display In-BI selections.

### Selecting Scanning Mode

To select the scanning operation mode:

1. When the handset is in standby, press **FCN** **7<sup>INT</sup> PRS** **2<sup>ABC</sup>**.
  - The current setting is displayed.



2. Press **☑** or **☒** to review options.
3. When the desired setting is displayed, press **MEM**.



The setting is retained after the handset is turned off. Check the mode when you turn on the handset.

To change to Cordless mode quickly, place the handset in the base station (provided the handset can scan for Cordless system).

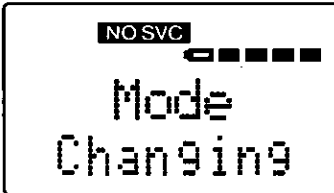


## QUICK MODE CHANGE

If you are in range of two or three systems you are registered with, you can temporarily change from one system to another.

To change modes:

When the handset is in standby, press **FCN** **#** **☰**.



- The handset scans for the next higher priority system. If another system is found, the handset switches to that system and its operation mode is displayed.
- The handset automatically switches to the next higher priority system, if found. To switch to the system you want to use, refer to Operation Mode Selections on page 31.
- If another system is not found, the handset switches back to the previous one.



This feature does not work during a call or if you have selected a scanning operation mode that looks for only one system (such as, Cordless only). Refer to Operation Mode Selections on page 31.



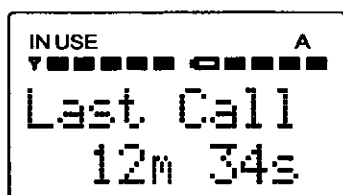
# Additional Features



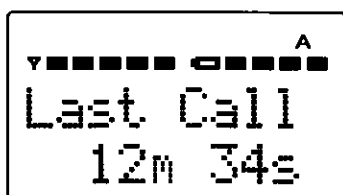
## Individual Call Timer

Press **FCN** **1<sup>ND</sup> 02**.

Current Call



Last Call



- The length of the current call or of the last call is displayed in minutes and seconds.
- When viewing the current call length, the timer is continuously updated as you continue the conversation.

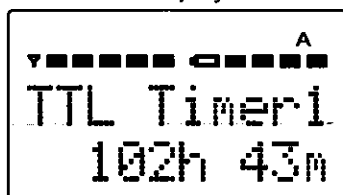


This timer does not count during intercom.

## Total Timer 1 (non-resettable)

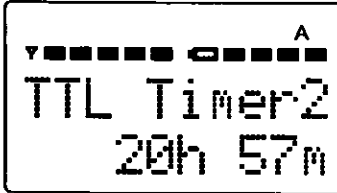
Press **FCN** **1<sup>ND</sup> 02** **↵**.

- The total accumulated call time for both cellular phone numbers is displayed in hours and minutes.

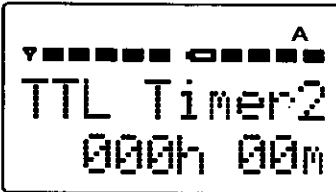


## Total Timer 2

1. Press **FCN** **1** **MEM**.
  - The accumulated call time for the active cellular phone number is displayed in hours and minutes.



2. To reset the timer, press **0** **MEM**.



## LOCK/UNLOCK

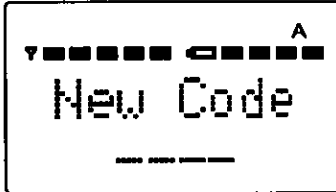
Your handset has many lock options to prevent unauthorized use in Cellular mode. Regardless of the lock setting, 911 can always be called.



911 is the preset emergency number. If desired, your cellular dealer can program an additional emergency number.

## Programming a Lock Code

1. Press **FCN** **3<sup>MEM</sup>** **4<sup>DEF</sup>**.
2. Enter the current lock code.

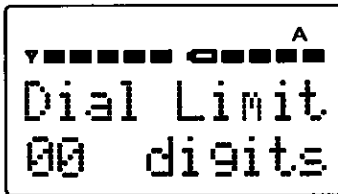


- The preset lock code is 0000.
3. Enter a new lock code (two to four digits).
  4. Press **MEM**.

## Dialed Digit Restriction

You can limit the length of phone numbers that can be dialed from your handset. For example, to allow only local calls, restrict digit length to seven digits.

1. Press **FCN** **3<sup>MEM</sup>** **2<sup>DEF</sup>**.
2. Enter your current lock code.



- The current dialed digit restriction is displayed.
3. Enter digit restriction (from 00 to 31).
    - Entering 00 means no restriction is set.
  4. Press **MEM**.

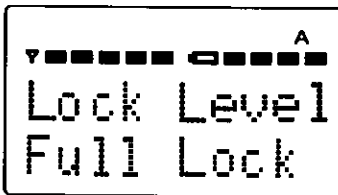
## Additional Lock Options

The following lock options are available:

- **Unlock:** Unrestricted use.
- **Dial Lock:** Calls can be made only to numbers stored in the handset's memory (and the emergency number). Calls can be received. The last dialed numbers are deleted from memory.
- **Send Lock:** Calls can be made only to the emergency number. Calls can be received.
- **Full Lock:** Calls can be made only to the emergency number. Calls cannot be received.

To switch to a different lock option:

1. Press **FCN** **3 DEF** **1 DEF**.
2. Enter your current lock code.



- The current lock level is displayed.
3. Press **OK** or **BACK** to review options.
  4. When the desired option is displayed, press **MEM**.



## Cellular Lock

The phone system manager can disable cellular use for handsets used with a wireless In-Building system. This feature requires a manager lock code.

1. Press **FCN** **3 DEF** **3 DEF**.
2. Enter the manager lock code.
  - The current lock setting is displayed.
3. Press **OK** or **BACK** to review options.
4. When the desired option is displayed, press **MEM**.

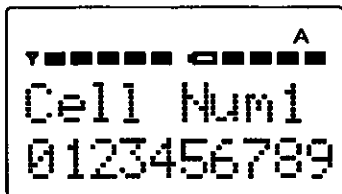




## PHONE NUMBER SELECTION

Your handset can have up to two cellular phone numbers (programmed by your cellular carrier). You can select either phone number for use in Cellular mode only. If cellular lock is enabled, only the first phone number is displayed. The phone numbers can be reviewed in any mode.

1. Press **FCN** **5** <sup>MEM</sup> <sub>OK</sub>.



- The current active phone number is displayed.
2. Press **☑** or **☒** to display the other phone number (if your handset has two numbers).
  3. When the desired number is displayed, press **MEM**.



## CELLULAR CARRIER SELECTION

When you sign up for In-Building and/or Cellular services, service is provided by either an A (non-wireline) or B (wireline) cellular service carrier. Your cellular service provider is referred to as your "home system." An A or B indicator is displayed to indicate the carrier that is providing your cellular service.

The setting is stored for the currently active phone number.



The **ROAM** indicator lights or flashes when your handset is accessing a system outside of your home system area (roam).

To change the setting:

1. When the handset is in standby, press **FCN** **7** <sup>MEM</sup> <sub>PRE</sub> **1** <sup>MEM</sup> <sub>OK</sub>.
  - The current setting is displayed.
2. Press **☑** or **☒** to review options.
3. When the desired setting is displayed, press **MEM**.

The available options are:




- **Normal:** Tries to complete calls using your home system. If your handset cannot access your home system (that is, you are out of range), your handset tries to complete calls using an available system (roam).
- **A Sys only:** Uses only the A system. (If you select this and your home system is B, you will not be able to make or receive calls using your home system.)
- **B Sys only:** Uses only the B system. (If you select this and your home system is A, you will not be able to make or receive calls using your home system.)
- **Home Sys:** Selects only your home system; the handset will not roam. (If you select this, you cannot make/receive calls outside of your home system.)

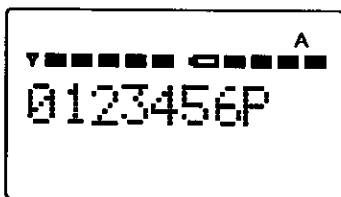


## MANUAL PAUSE DIALING

Some services (such as long distance and voice mail) require you to enter a pause between groups of digits. For example, if you want to access your personal voice mail when you are out of the office, you may have to dial your office number, enter your extension number, then enter your personal password or other code. You need to enter a pause between these groups of numbers.

A pause cannot be entered as the first digit and pauses cannot be entered consecutively. For convenience, store your entry (including pauses) in memory (refer to Memory Locations on page 51).

1. Enter a phone number.
2. Press    to enter a pause.



3. Continue entering numbers and pauses as needed.

4. Press **(SND)** to make the call.
  - The first group of numbers is dialed. The remaining digits are paused indefinitely.
5. When prompted, continue pressing **(SND)** to transmit additional groups of numbers.



## SHORT PAUSE DIALING/FLASH DIALING

Some PBXs require you to enter either a short pause or a hook flash after entering the outside line access code and before entering the phone number. A short pause produces a 3.6 second pause; a hook flash produces a 1 or 2 second pause.

If your base station is connected to a PBX and you want to make an outside call, check whether the PBX system in your office requires a short pause or a hook flash. For convenience, store your entry with the outside line access code and short pause (or flash) in memory (refer to Memory Locations on page 51).

### Using the Handset

1. Enter an outside line access code.
2. Press **(FCN) (9 EXT)**, then **(2 ARC)** for short pause or **(3 LOCK DEF)** for flash, depending on your PBX system.
  - A "-" or "F" is displayed.



3. Enter a phone number, then press **(SND)**.

### Using the Base Station

1. Press **(SP-PHONE)**.
2. Enter an outside line access code.
3. Press **(RETRIAL)** or **(FLASH)**, then enter a phone number.

 **INTERCOM**

You can use the handset and base station as a 2-way intercom.

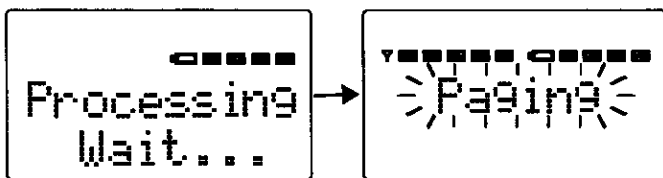





If the base station has optional handset(s), refer to the *Operating Instructions* for your optional handset (EB-PH55S), in conjunction with the following basic methods (between base station and single handset).

## Paging

### PAGING THE BASE STATION FROM THE HANDSET

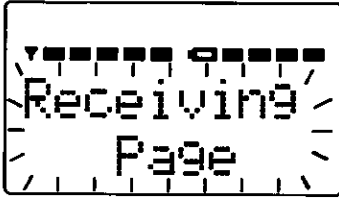
1. **Handset:** Press  .













- The base station beeps, then the intercom starts automatically.
  - It may take about four seconds to communicate with the base station.
  - To stop paging, press .
2. **Handset:** Speak into the handset.
  3. **Base Station:** Answer into the microphone.
  4. **Handset:** Press  to end the intercom.  
or  
**Base Station:** Press  to end the intercom.

## PAGING THE HANDSET FROM THE BASE STATION

1. **Base Station:** Press .





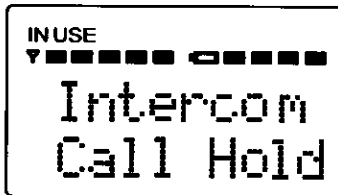
- The handset beeps for a minute.
  - To stop the paging, press  again.
2. **Handset:** Press any key to answer (except , , , , or ).
  3. **Base Station:** Speak into the microphone.
  4. **Base Station:** Press  to end the intercom.  
or  
**Handset:** Press  to end the intercom.



If you get an audible notification during intercom, it means an outside call is being received. To answer it, press  or . The intercom ends.

## Transferring Calls

### TRANSFERRING A CALL FROM THE HANDSET TO THE BASE STATION

1. **Handset:** Press  .
- The call is on hold.
  - Intercom starts.



2. **Handset:** Speak into the handset.
3. **Base Station:** Answer into the microphone.
  - To cancel the intercom, press  or .

The call is still on hold. To retrieve the call, refer to Call Hold on page 20.

4. **Base Station:** Press **SP-PHONE** to answer the call.

- The transfer is complete.

To return to the call without transferring it to the base station, press **SND** or **MUTE/HOLD**.

#### TRANSFERRING A CALL FROM THE BASE STATION TO THE HANDSET

1. **Base Station:** Press **LEGATOR INTERCOM**.

- The call is on hold.

2. **Handset:** Press any key to answer (except **PWR**, **END**,

**MUTE/HOLD**, , or ).

- Intercom starts.

3. **Base Station:** Speak into the microphone.

- To cancel the intercom, press **END** or **LEGATOR INTERCOM**.

The call is still on hold. To retrieve the call, refer to Call Hold on page 20.

4. **Handset:** Press **SND** or **MUTE/HOLD** to answer the call.

- The transfer is complete.

To return to the call without transfer, press **SP-PHONE**.

### 3-Way Calling

The 3-way calling feature allows conversation between the base station, a handset, and an outside call.

1. If the base station is being used for an outside call:

**Handset:** Press **SND** to join the conversation.

or

If the handset is being used for an outside call:

**Base Station:** Press **SP-PHONE** to join the conversation.

- To put the outside call on hold to start an intercom, press **MUTE/HOLD** on the handset or **HOLD** on the base station. During conversation if you press **SP-PHONE**, the base station is disconnected and the conversation between the handset and the outside call continues.

2. To end 3-way calling:

**Handset:** Press **END**.

or

**Base Station:** Press **SP-PHONE**.



If the handset ends the 3-way conversation, the base station is still connected to the outside call.

## CALL DELIVERY



Call Delivery service is only available if offered by your cellular service provider and programmed by your dealer. Contact your cellular service provider for details and your dealer for programming.

Call Delivery forwards calls for your cellular phone number to the base station (if the handset with power on operates in Cordless mode). Forwarded calls cannot be distinguished from normal calls.

### Initiating Call Delivery Service

This feature allows forwarding calls which access your cellular phone number to the base station if the handset is in range of the base station. To use this feature, you need to program the access number given when you purchased this kit or supplied by your service provider. If you move and your cellular phone number changes, you must initiate this service again. Contact your service provider for details.

1. Press **HOLD**.
  - The **PROGRAM** indicator lights.
2. Press **01**, enter Call Delivery service phone number.
3. Press **HOLD**.
  - The base station beeps and the **PROGRAM** indicator turns off when programming is complete. The **CALL DELIVERY** indicator lights.
  - If the base station is connected to a Private Branch Exchange (PBX), refer to Entering an Outside Line Access Code on page 46.
  - If the base station has optional handsets, two or three **CALL DELIVERY** indicators light. For example, the **CALL DELIVERY 2** indicator and button work with a handset assigned handset number 2.
  - Once you initiate this service, you do not need to program it each time an additional handset is registered with the base station.

If the **CALL DELIVERY** indicator flashes, please retry or turn the handset off and then on.

## Changing the Call Delivery Setting

You can change the setting from Off to On only when the handset is turned on in the range of the base station. You can change the setting from On to Off at any time.

If Call Delivery is enabled, the **CALL DELIVERY** indicator is on (steady red); if Call Delivery is disabled, the **CALL DELIVERY** indicator is off.

You can change the call delivery setting from On to Off and vice versa. To change the call delivery setting, use the base station.

Press **(01)**. The **CALL DELIVERY** indicator turns off or on.

If the base station has optional handset(s), press **(01)-(03)** for each handset for which you want to change the call delivery setting.

Call Delivery settings are retained when power is turned off and then on, or in the event of a power failure.

## Entering an Outside Line Access Code

If the base station is connected to a Private Branch Exchange (PBX), you must enter an outside line access code after initiating Call Delivery service.

1. Press **(HOLD)**.
  - The **PROGRAM** indicator lights.
2. Press **(03)**.
3. Enter an outside line access code.
4. Press **(HOLD)**.
  - The base station beeps and the **PROGRAM** indicator turns off.

## Changing the Phone Number to Which Calls are Forwarded

1. Press **(HOLD)**.
  - The **PROGRAM** indicator lights.
2. Press **(02)**.
3. Enter a phone number to which calls will be forwarded.
4. Press **(HOLD)**.
  - The base station beeps and the **PROGRAM** indicator turns off.



## Canceling Call Delivery Service

Press **Ⓜ** **1** **2** **3** **Ⓜ** to delete the base station, the Call Delivery Service, and the outside access phone numbers.

## CALL WAITING



Only available if offered by your service provider.

When a second call is received during a call, you get an audible notification.

### USING THE HANDSET

1. Press **Ⓜ** to answer the second call.
  - The first call is on hold.
2. Press **Ⓜ** to return to the first call.
  - The **Ⓜ** serves as a flash key.

### USING THE BASE STATION

1. Press **Ⓜ**.
  - The first call is on hold.
2. Press **Ⓜ** to return to the first call.

## SENDING DTMF KEYTONES

Some phone services, such as voice mail, require the phone to transmit tones when digit keys are pressed (DTMF tones). Even when keytones are turned off, DTMF tones are still transmitted.



If DIALING MODE has been set to PULSE, press **Ⓜ** before sending DTMF tones.

### USING THE HANDSET

Press keys during a call.

or

Recall a number from memory, then press **Ⓜ** **Ⓜ**.

- You can transmit tones automatically by recalling short pauses from memory then pressing **Ⓜ** **Ⓜ**. Refer to Short Pause Dialing/Flash Dialing on page 41.

### **USING THE BASE STATION**

Press keys during a call.

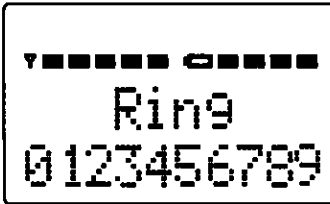


### **CALLER ID**



Only available if Caller ID (for Cordless system) is offered by your service provider. Contact your service provider for details.

When a caller ID is received, the information on the caller is displayed after the first ring and you can decide whether to answer the call or not. The caller ID is automatically stored even if you answer the call.



When this kit is connected to a Private Branch Exchange (PBX) system, you may not receive caller IDs. Contact your service provider.

The base station stores up to 30 caller IDs. Depending on your service provider, caller IDs may include name, number, time, and date of call. Contact your service provider for details.

Once 30 caller IDs have been stored, a new caller ID overwrites the oldest entry. If additional calls are received from the same caller, only the date and time are overwritten.

### CALLER ID REVIEW

When unread caller ID(s) are stored, the **CALLER ID** indicator on the base station flashes.

1. Press **FCN** **[\*#0]** to receive the caller IDs.
  - It may take about four seconds to communicate with the base station.
2. When the number of new caller IDs appears, press **[<]** to read.



3. Press **[>]** or **[<]** to review caller IDs.
  - When you have read all the unread caller IDs, **End of New** is displayed.
4. When the desired caller ID is displayed, press **[#\*]** to review the rest of the caller ID and continue pressing **[#\*]** until the entire caller ID is displayed.
5. To make the call to the chosen caller ID, press **[SND]**.

If No Caller's Name/Phone Number is displayed, it may be due to one of the following conditions:

**Private:** Shows that a caller did not want to indicate his/her name and/or phone number.

**No Data:** Shows that a caller was not in the Caller ID service area.

**Long Distance:** Shows that a caller made the call as a long distance call.

If a caller's ID is not displayed, the caller may not be a Caller ID service user.

### DELETING/STORING CALLER IDS

1. Recall the desired caller ID as described above.
2. Press **MEM**.
3. To delete an individual caller ID, press **0 Off**, then **MEM**.  
**or**  
To delete all the caller IDs, press **\*70**, then **MEM**.  
**or**  
To store the caller's number in location memory, press **MEM**, then edit and enter a location number (refer to Storing Entries on page 52).

### REGISTERING HANDSET

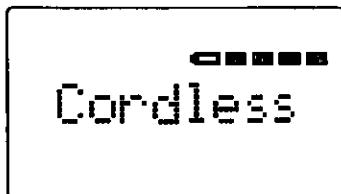
If you move and your cellular phone number changes, you must register it with the base station before use.

#### Registering

1. **Handset:** Turn on the handset with a fully charged battery and place the handset all the way into the cradle of the base station.
2. **Base Station:** Press the **Handset registration button** at the left side of the base station, using a fine pen or other pointed instrument.
3. Within 30 seconds of pressing the **Handset registration button**:

**Handset:** Press **FCN** **6 memo** **1 02**.

- When **Registered** appears on the display, registration is complete.



- If **Failed!** appears, please retry.

# Memory Features

## MEMORY LOCATIONS

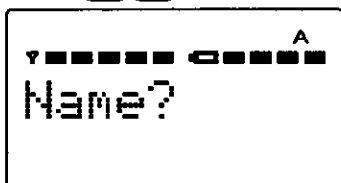
The handset can store up to 59 phone numbers and the base station can store up to 12 phone numbers.

For base station memory, see Using the Base Station Memory Locations on page 56.

## Using the Handset Memory Locations

### ENTERING A NAME AND PHONE NUMBER

1. Enter a number (up to 32 digits).
2. Press **MEM** **MEM**.



3. Enter a name (up to 15 characters).
  - If you do not want to enter a name, go to step 4.
  - Enter characters using the **0** to **9** keys. Press a key once to enter the first character on the key, press twice to enter the second character, and so on. When another key is pressed or no key is pressed for a while, the cursor moves forward. If the cursor is above a character and a key is pressed, the new character overwrites the old one.

Press this key ...	To enter these characters or perform these actions ...
1	Q Z (space) 1
2	A B C 2
3	D E F 3
4	G H I 4
5	J K L 5
6	M N O 6
7	P R S 7

Press this key . . .	To enter these characters or perform these actions . . .
8	T U V 8
9	W X Y 9
0	. - / 0
#	Moves the cursor forward.
*	Moves the cursor back.
CLR	Deletes characters.

- For example, to enter the name LEE:
  1. Press **5<sup>MEM</sup>** **5<sup>MEM</sup>** **5<sup>MEM</sup>** (L).
  2. Press **3<sup>DEF</sup>** **3<sup>DEF</sup>** (E).
  3. Wait a moment or press **#<sup>MEM</sup>**.
  4. Press **3<sup>DEF</sup>** **3<sup>DEF</sup>** (E).
- 4. To store your entry, refer to Storing Entries below.

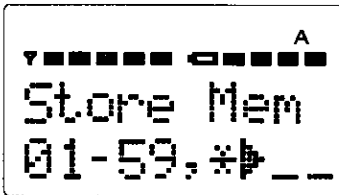
**STORING ENTRIES**

The handset is capable of storing up to 59 phone numbers. The two storage methods are:

- Memory Location Storage—Saves in a specified location (page 52).
- Automatic Storage—Saves in next available location (page 53).

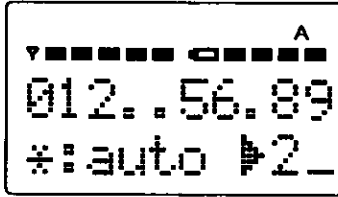
**Memory Location Storage**

1. With your entry displayed, press **MEM**.



2. Enter the first digit of a two-digit memory location.
  - Example: Press **2<sup>ABC</sup>** (for a two-digit memory location that begins with 2). The display below shows that locations 20, 21, 22, 25, 26, 28, and 29 are available.

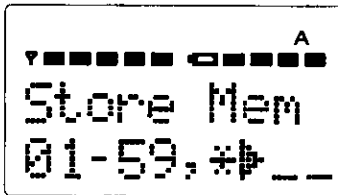
A "." means the memory location is occupied. (In this example, locations 23, 24, and 27 are occupied).\_\_\_\_\_



- If you enter (0<sup>MEM</sup>) as the first digit, only locations 01 to 09 are available; location 00 is reserved for the last number dialed memory.
3. Enter the second digit of the memory location.
    - If you enter an occupied location, the display flashes. Press (MEM) to overwrite or (CLR) to return to step 2.

#### Automatic Storage

1. With your entry displayed, press (MEM).

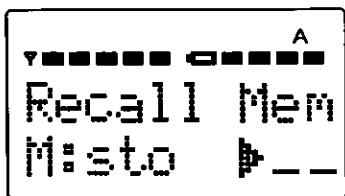


2. Press (\*<sup>MEM</sup>) to store in the next available location.
  - If you enter the first digit of a two-digit location and press (\*<sup>MEM</sup>), your entry is saved in the next available location that begins with the entered number.
  - If memory is full, **Memory Occupied** appears on the display.

## REVIEWING/SCROLLING

### By Memory Location

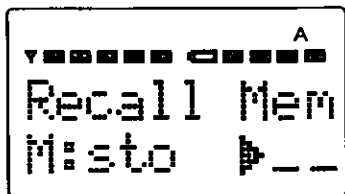
1. Press **MEM**.



2. Enter a two-digit memory location (00 to 59).
  - The display shows the location and name or the last 16 phone number digits.
3. To switch name and phone number, press **#>**.  
or  
To scroll through memory, press **⏪** or **⏩**.
  - If you entered **0<sup>MEM</sup>0<sup>MEM</sup>**, you scroll the last five dialed numbers.

### By Name

1. Press **MEM**.



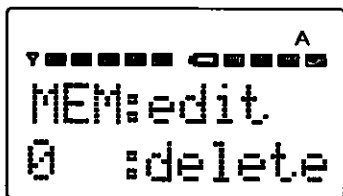
2. Press **⏪** or **⏩** to review names.
  - Names are reviewed alphabetically.
  - Press and hold **⏪** or **⏩** to display single letters. Release the key to view the next name that begins with the displayed letter.
  - Only locations 01 to 59 are scrolled.



**EDITING/DELETING STORED ENTRIES**

You can edit and/or clear any entry in memory.

1. Recall an entry (refer to Reviewing/Scrolling on page 54).
2. Press **(MEM)**.



3. To delete the entire entry from the location, press **(0 OFF)**  
**(MEM)**.  
or  
To edit the name, press **(MEM)**.
4. Enter a new name (refer to Entering a Name and Phone Number on page 51).
5. Once you edit the name, press **(MEM)**.
6. Enter a new number (up to 32 digits).
7. Once you edit the number, press **(MEM)**.
8. Press **(MEM) (MEM)** to save the edited entry in the displayed location.  
or  
Enter a new memory location.

**DIALING****One-Touch Dialing (Locations 1-9)**

Press and hold the desired location (**(1<sup>MEM</sup> 02)** to **(9<sup>MEM</sup> 999)**) until the **IN USE** indicator lights. The handset automatically makes the call.

**Super Speed Dialing (Locations 01-59)**

1. Enter the memory location
2. Press **(SND)**.
  - If the entered memory location is empty, a call is initiated to the number(s) on the display.

### Speed Dialing (All Locations)

1. Press **MEM**.
2. Enter any memory location (01-59).
3. Press **SND**.

### Last Number Memory

To view the last five phone numbers called:

1. Press **MEM** **0** **UPFR** **0** **UPFR**.
2. Press **✓** or **⏪** to display the desired number.
3. Press **SND** to place the call.

### Using the Base Station Memory Locations

The base station is capable of storing up to 12 phone numbers (Locations M1, M2, and 0 to 9).

#### STORING ENTRIES

1. Press **HOLD** when the phone is not in use.
  - The **PROGRAM** indicator lights.
2. Enter a number (up to 32 digits)
3. Press **M1** or **M2** to store the number.

or

Press **AUTO** and the desired memory location (**0** to **9**).

- The base station beeps once when the new number is stored.
- The base station beeps twice if the number you entered is already stored in that location.



If you answer a call received while storing numbers, your entries are canceled.

### DELETING AN ENTRY

1. Press **MEM**.
2. Press **M1** or **M2** to delete a previously stored number.  
or

Press **AUTO** and the desired memory location (**0** to **9**) to delete a previously stored number.

### DIALING

1. Press **SPND**.
2. Press **M1** or **M2** for one-touch dialing.  
or

Press **AUTO** and the desired memory location (**0** to **9**) for automatic dialing.



### SCRATCH PAD MEMORY

1. During a call, enter a number (up to 32 digits).
  - If the phone number you called remains on the display, clear it before entering a new number.
  - When the call ends, the number is automatically stored in the handset's scratch pad memory.
2. To review the number in scratch pad memory, press **MEM** **MEM**.
3. When the scratch pad entry appears, press **SND** to call the number.

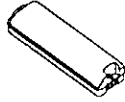


# Accessories

## Executive Value Kit (EB-VE60Z)



Dual Slot  
Rapid Charger  
EB-CR50



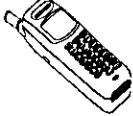
Battery (L)  
1250 mAh NiMH  
EB-BL60



Carry Case  
(Leather)  
EB-YK60

## Handset Kit (EB-PH55S)

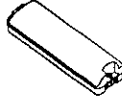
Your base station can have up to three handsets.



Handset  
EB-PH55S



AC Charging  
Adaptor  
EB-CA10

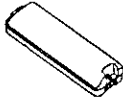


Battery (M)  
700 mAh NiCd  
EB-BM60

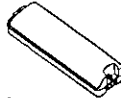
## Additional Accessories



Battery (S)  
500 mAh NiMH  
EB-BS60



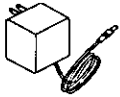
Battery (M)  
700 mAh NiCd  
EB-BM60



Battery (L)  
1250 mAh NiMH  
EB-BL60



Private Handsfree Kit<sup>1</sup>  
EB-M70006Z



AC Charging  
Adaptor  
EB-CA10



Carry Case  
(Leather)  
EB-YK60



Dual Slot  
Rapid Charger<sup>2</sup>  
EB-CR50Z

1. Allows talking without holding the handset.
2. Has two slots to charge or discharge batteries—handset slot for battery with handset and spare slot for battery only.

## ACCESSORY ORDERING

The accessory kits and parts listed here are shown on the preceding page. To order, visit your Panasonic dealer or, in the US, call Panasonic at 1-800-332-5368.

- If you are calling to place an order, please have the accessory number and your credit card number ready.
- Accessory information is subject to change without notice.
- Many accessories are available individually.

AC Charging Adaptor .....	EB-CA10
Battery (S) 500 mAh NiMH .....	EB-BS60
Battery (M) 700 mAh NiCd .....	EB-BM60
Battery (L) 1250 mAh NiMH .....	EB-BL60
Carry Case .....	EB-YK60
Dual Slot Rapid Charger .....	EB-CR50Z
Executive Value Kit .....	EB-VE60Z
Handset Kit .....	EB-PH55S
Private Handsfree Kit .....	EB-M70006Z

# Before Requesting Help

## ROUTINE CARE

Clean your phone with a damp cloth. Do not use petroleum-based chemicals.

## HELPFUL HINTS

Before calling for service, try these helpful hints...

### General

#### **If the base station and handset do not work...**

- Check Set-up (see page 11).
- Disconnect the base station 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.

#### **If the base station and handset stop working during operation...**

- Place the handset into the cradle of the base station and unplug the AC Adaptor to reset the unit. Plug in again and turn the handset on, then retry.

#### **If intercom does not work...**

- The handset is too far from the base station. Move the handset to within range of the base station.
- Plug in the AC Adaptor.

#### **If the CALL DELIVERY indicator lights but does not work...**

- Move to within range of the base station.

**If the CALL DELIVERY indicator flashes...**

- Turn the handset off and then on again.
- If your phone number was changed, contact your service provider, initiate Call Delivery service again (see page 45), and register the handset with the base station (see page 50).
- If you have canceled Call Delivery service, delete the Call Delivery service phone number (see page 47).

**If call delivery settings cannot be changed to On...**

- Check that the handset is turned on and operates in Cordless mode.

**If a handset or the base station cannot page another handset...**

- The handset is too far from the base station.
- Check if the handset displays its handset number on the second line. If it does not, register the handset with the base station again.

## **Handset**

**If your handset does not turn on...**

- Fully charge the battery (see page 14).

**If the **NO SVC** indicator lights...**

- Fully extend the antenna.
- Try "Normal" carrier system selection (see page 39).
- Check the current scanning operation mode (see page 31).

**If calls cannot be made or received in Cellular mode...**

- Your handset may be locked. To unlock, see page 36.

**If "Delivery Failed" is displayed...**

- Turn the handset off and then on again.



**If your handset does not switch to a system you are currently in range of...**

- Check the current scanning operation mode (see page 31).
- If it does not switch to Cordless mode, another handset may be in use. Wait until the call ends.
- If it does not switch to In-Building mode, you may be in a building which is not equipped with In-Building system. Contact the equipment supplier.

**If Off/On is displayed...**

- Turn the handset off and then on again. If the message reappears, contact your dealer.

**If "xxx-Key Corrupted" is displayed...**

- Contact your dealer.

**If the **ROAM** indicator lights in your home area...**

- Try "Home System Only" carrier system selection (see Cellular Carrier Selection on page 39). If the **ROAM** indicator remains on, contact your dealer or service provider.

**If you hear a fast busy tone when trying to make a call...**

- Your call cannot be accepted because the cellular system is busy or the handset is too far from the base station.
- Ensure the received signal strength is sufficient in In-Building or Cellular mode.
- Move to an area with better reception and try your call again.

**If you hear a rapid high/low tone when trying to make a call...**

- Your call was rejected by the cellular system because the number you were calling was invalid or the **NO SVC** indicator was on.

**If you can make but not receive calls while roaming...**

- Contact your carrier or the local cellular carrier about roaming information and forwarding your calls.

**If phone reception is not good...**

- Press **30CH** to switch channels, if in Cordless mode (see page 21).
- Raise the base station antenna and/or fully extend the handset antenna.
- Move the base station away from electrical appliances. Or move the handset from uneven terrain or large buildings.

**Base Station**

**If the base station does not ring...**

- Check the ring volume (see page 20).

**If a phone number cannot be stored in memory...**

- You cannot store a number during a call or intercom.
- Do not pause for over 30 seconds while storing.

**Additional Help (for US Customers)**

Call Panasonic's Customer Satisfaction Center at 1-800-414-4408.

If your base station and/or handset is malfunctioning, call Panasonic at 1-800-414-4408 to locate the nearest Panasonic Servicenter or Authorized Independent Servicer.

## **Technical Specifications**

### **Handset:**

#### Dimensions with

Battery (S) 500 mAh: 5.5" (H) x 1.7" (W) x 1.2" (D)  
140 x 43 x 31 (mm)

Battery (M) 700 mAh: 5.5" (H) x 1.7" (W) x 1.6" (D)  
140 x 43 x 41 (mm)

Battery (L) 1250 mAh: 5.5" (H) x 1.7" (W) x 1.6" (D)  
140 x 43 x 41 (mm)

#### Weight with:

Battery (S) 500 mAh: 5.5 oz. (156 g)

Battery (M) 700 mAh: 6.9 oz. (196 g)

Battery (L) 1250 mAh: 7.7 oz. (218 g)

#### External Connector Input Voltage

7 VDC

### **Base Station:**

#### Dimensions without antenna and feet

2.4" (H) x 6.5" (W) x 6.8" (D) 62 x 164 x 172 (mm)

#### Weight without handset

20.8 oz (590 g)

### **AC Adaptor:**

Input: 120 V, 60 Hz

Output: 12/9 VDC, 0.2/0.6 A

### **Battery:**

Voltage 4.8 VDC

(

# Precautions

## SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

### EXPOSURE TO RADIO FREQUENCY SIGNALS

Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals.

In August, 1996, the Federal Communications Commission (FCC) adopted RF exposure guidelines with safety levels for handheld wireless phones. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:

ANSI C95.1 (1992)\*

NCRP Report 86 (1986)\*

ICNIRP (1996)\*

These standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C95.1).

The design of your phone complies with the FCC guidelines (and those standards).

### ANTENNA CARE

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.

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\* American National Standards Institute; National Council on Radiation Protection and Measurements; International Commission on Non-Ionizing Radiation Protection.

### **PHONE OPERATION**

**NORMAL POSITION:** Hold the phone as you would any other telephone with the antenna pointed up and over your shoulder.

**TIPS ON EFFICIENT OPERATION:** For your phone to operate most efficiently:

- Extend your antenna fully.
- Do not touch the antenna unnecessarily when the phone is in use. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed.

### **DRIVING**

Check the laws and regulations on the use of wireless telephones in the areas where you drive. Always obey them.

- Give full attention to driving—driving safely is your first responsibility.
- Do not use a handheld telephone while driving a vehicle. If using a handheld telephone, park the vehicle before conversing.

### **ELECTRONIC DEVICES**

Most modern electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone.

#### **Pacemakers**

The Health Industry Manufacturers Association recommends that a minimum separation of six inches (6") [15 cm] be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker.

These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Persons with pacemakers:

- Should ALWAYS keep the phone more than six inches from their pacemaker when the phone is turned ON;
- Should not carry the phone in a breast pocket;

- Should use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, turn your phone OFF immediately.

### **Hearing Aids**

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider.

### **Other Medical Devices**

If you use any other personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Turn your phone OFF in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

### **Vehicles**

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

### **Posted Facilities**

Turn your phone OFF in any facility where posted notices so require.

### **AIRCRAFT**

FCC regulations prohibit using your phone while in the air.

Switch OFF your phone before boarding an aircraft.

### **BLASTING AREAS**

To avoid interfering with blasting operations, turn your phone OFF when in a "blasting area" or in areas posted: "Turn off two-way radio." Obey all signs and instructions.

### **POTENTIALLY EXPLOSIVE ATMOSPHERES**

Turn your phone OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include fueling areas such as gasoline stations; below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles, such as grain, dust or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.

#### **For Vehicles Equipped with an Air Bag**

An air bag inflates with great force. DO NOT place objects, including both installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

**For US customers:** Vehicles using liquefied petroleum gas (such as propane or butane) must comply with the National Fire Protection Standard (NFPA-58). For a copy of this standard, contact the National Fire Protection Association, One Batterymarch Park, Quincy, MA 02269, Attn.: Publication Sales Division.

### **IMPORTANT SAFETY INSTRUCTIONS**

#### **USE ONLY THE SPECIFIED HANDSET AND BASE STATION.**

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 bath tub, wash bowl, kitchen sink, or the like.



5. Place this unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
6. Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating. Never place the unit near radiators, or in a place where proper ventilation is not provided.
7. Use only the power source marked on the unit. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
8. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
9. Do not overload wall outlets and extension cords. This can result in the risk of fire or electric shock.
10. Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
11. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized servicenter when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
12. Unplug this unit from the wall outlet and refer servicing to an authorized servicenter when the following conditions occur.
  - a. When the power supply cord or plug is damaged or frayed.
  - b. If liquid has been spilled into the unit.
  - c. If the unit has been exposed to rain or water.
  - d. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorized servicenter.
  - e. If the unit has been dropped or physically damaged.
  - f. If the unit exhibits a distinct change in performance.
13. During thunderstorms, avoid using telephones except cordless types. There may be 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 over-heat 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.
6. Use only Panasonic charging accessories.

### Attention US Customers:

- 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.



**WARNING:** To prevent fire or shock hazard, do not expose this product to rain or any type of moisture.

## FCC INFORMATION (FOR US CUSTOMERS)

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

FCC Registration No. ....  
(found on the bottom of the unit)

Ringer Equivalence .....0.2B

The particular telephone 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). 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:

1. Promptly notify the customer.
2. Give the customer an opportunity to correct the problem with their equipment.
3. 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.

## Precautions

If such changes can be reasonably expected to render any customer terminal equipment incompatible with telephone company communications facilities, or required 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.

## **IMPORTANT INFORMATION (FOR CANADIAN CUSTOMERS)**

### **NOTICE:**

The Industry Canada label identifies certified equipment. This certification means that the equipment meets telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

### **Caution:**

Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

**NOTICE:**

The **Ringer Equivalence Number (REN)** assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5.

The Ringer Equivalence Number (REN) of This Unit: .....  
(found on the *bottom* of the unit)

**OTHER INFORMATION**

**Environment:**

Do not use the handset in extreme temperature or humidity.

Specified operating temperature range is:

Handset.....-22° F (-30° C) to 140° F (60° C)

Base station.....41° F (5° C) to 104° F (40° C)

**Handling:**

- Do not carry the unit by holding the antenna.
- When you leave the unit unused for a long time, unplug the AC Adaptor from the outlet.

**Panasonic Responsibility for Accessories:**

Do not use any accessories other than those designed for use with your series phone. Use of attachments not recommended or sold by Panasonic may result in fire, electrical shock or injury. Panasonic cannot be held responsible for damages caused by using non-Panasonic accessories.

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**POWER:**

**CALLS:** Make Calls: Enter digits, press

Receive Calls: Press any key except

End Calls: Press or

Hold Calls: Press

**CHANNEL SWITCHING:** Press during call.

**DIALING:** One-Touch: Press and hold -

Speed Dialing: Press , enter any memory location, press

Super Speed Dialing: Enter memory location, press

Last Number: Press

**MEMORY STORING:** Enter phone number, press

+ name + + memory location or

**VOLUME:**

Earpiece: Press or during call

Ring: Press or during ringing

OR to turn ring volume off

Keytone: Press or when handset is not in use

**MISE HORS/SOUS TENSION :**

**APPELS :** Pour faire un appel : Entrer les chiffres, appuyer sur

Réception d'un appel : Toute touche sauf

ou

Pour terminer un appel : Appuyer sur

Garde: Appuyer sur

**CHANGEMENT DE CANAL :** Appuyer sur pendant un appel.

**COMPOSITION :** Composition automatique: Appuyer sur

Composition abrégée: Appuyer sur , entrer une adresse mémoire, appuyer sur

Composition abrégée rapide :  
Entrer l'adresse mémoire, appuyer sur

Dernier numéro : Appuyer sur

**MISE EN MÉMOIRE :**

Entrer n° de tél., appuyer sur + nom + +  
adresse mémoire ou

**VOLUME:**

Écouteur: Appuyer sur ou pendant un appel.

Sonnerie: Appuyer sur ou lorsque l'appareil sonne ou sur pour désactiver la sonnerie.

Tonalité des touches: Appuyer sur ou lorsque le combiné n'est pas utilisé.

**ENCENDIDO:**

**LLAMADAS:**

Para hacer llamadas: Introduzca los dígitos, Pulse

Para recibir llamadas: Pulse cualquier tecla excepto .

o

Para terminar las llamada: Pulse

Para retener la llamada: Pulse

**CAMBIO DE CANAL:** Pulse durante la llamada.

**DISCADO:** Discado de un toque: Pulse y mantenga pulsada

Discado rápido: Pulse ,

introduzca una localidad de memoria y pulse

Discado super rápido: Introduzca la localidad de memoria y pulse

Ultimo número: Pulse

**ALMACENAMIENTO:** introduzca el número telefónico, Pulse

+ el nombre + + la localidad de memoria o

**VOLUMEN:**

Auricular: Pulse o durante la llamada.

Señal de llamada: Pulse o durante la señal de llamada o para desactivar la señal de llamada.

Tono de tecla: Pulse o cuando no se esté usando el teléfono.

**FONCTIONS:**

Pulse or para desplazarse hacia arriba o hacia abajo.

- Cronómetros: FCN
- Bloqueos: FCN
- Límite de discado: FCN
- Volumen de la señal de llamada: FCN
- Número telefónico propio del teléfono celular: FCN
- Selector de modo de scanning: FCN
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**FONCTIONS:**

Appuyer sur ou pour le défilement vers le haut ou le bas.

- Compteurs: FCN
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- Limitation à la composition: FCN
- Volumen de la sonnerie: FCN
- Número de téléphone du cellulaire: FCN
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