

Operating Instructions

**Panasonic**<sup>®</sup>

EB-H65/EB-H655 Series

Personal Cellular Phone



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

# Reference Information



For future reference, please complete the information on this page. Also, you may want to tape or staple your purchase receipt here.

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

ESN No. (*under battery on back of phone*):

\_\_\_\_\_

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

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

\_\_\_\_\_

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

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

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

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

# Before Using Your Phone . . .



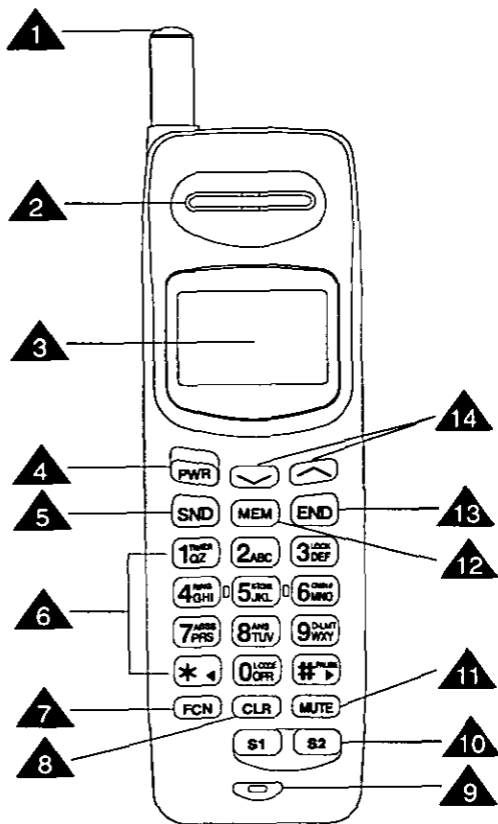
Completely charge the battery before using your phone. Refer to **Battery Charging**, pages 6-7

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PHONE OVERVIEW:



- 1** Retractable antenna
- 2** Earpiece
- 3** Display
- 4** Power key
- 5** Send key:  
Initiate calls; access carrier services  
(call waiting...)
- 6** Keypad:  
Enter digits/characters; select functions
- 7** Function key:  
Access functions
- 8** Clear key:  
Erase entries; exit functions
- 9** Mouthpiece
- 10** S1, S2 keys:  
One-touch dialing keys
- 11** Mute key:  
Disable the mouthpiece during a call
- 12** Memory key:  
Recall memory locations; edit and store  
functions
- 13** End key:  
End calls
- 14** Volume and scrolling keys

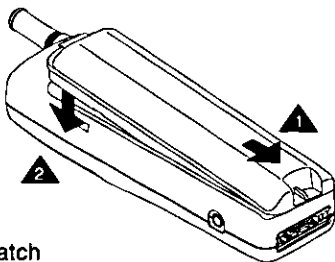
## DISPLAY OVERVIEW\*



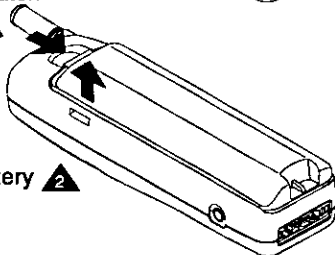
- IN USE** Displays while a call is in progress
- NOSVC** Displays when calls cannot be placed/received because the received signal strength is too weak or because the phone is outside of a service area
- ROAM** Displays when you are outside of your home system area, flashes if using a system which is a different type (A or B) from your home system
- A** Displays when using the A system
- B** Displays when using the B system
- ▾ ■ ■ ■ ■ ■**  
Indicates received signal strength  
Five bars = highest signal strength  
Zero bars = lowest signal strength  
No indicator = no signal available
- ▢ ■ ■ ■ ■**  
Indicates the battery charge level  
Four bars = highest battery charge  
Zero bars = lowest battery charge

Panasonic  
1234567890

Number entry/display area

**ATTACHING & REMOVING BATTERY:**

Press latch



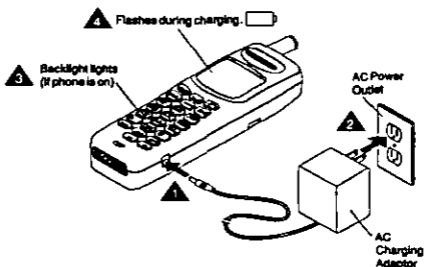
Lift battery

**BATTERY CHARGE LEVEL:**

1. The battery charge level displays constantly.
2. When the battery charge level is low, **Low Battery** displays and the phone beeps.



3. Recharge the battery or replace it with a fully charged battery.

**BATTERY CHARGING:****Approximate Charging Times:****500 mAh Nickel-Metal Hydride (NiMH) Battery**

- 1½ to two (2) hours

**700 mAh Nickel-Cadmium (NiCd) Battery**

- 1½ to two (2) hours

**1250 mAh NiMH Battery**

- Three (3) to four (4) hours

**Notes:**

- Recharge batteries in a well-ventilated area between 41°F (5°C) and 104°F (40°C).
- Do not recharge battery until **Low Battery** displays and the phone beeps. Fully charge the battery for the recommended charging time and/or until the battery indicator stops flashing. If you partially charge the battery (i.e., five to 50 minutes), the battery charge indicator may briefly indicate a full charge even though the battery is not completely charged. Once the battery is fully charged, unplug the AC Charging Adaptor from



the phone, then unplug the AC Charging Adaptor from the outlet.

- You may use the phone during charging, but the charging time will be longer. If the phone is on during charging, the backlight remains lighted.
- During charging, it is normal for the AC Charging Adaptor and battery to become warm.

### **BATTERY SPECIFICATIONS:**

<b>Battery Type</b>	<b>Approximate Battery Duration</b>
500 mAh NiMH	60 minutes talk time OR 10 hours standby time <sup>†</sup>
700 mAh NiCd	90 minutes talk time OR 13 hours standby time <sup>†</sup>
1250 mAh NiMH	150 minutes talk time OR 22 hours standby time <sup>†</sup>

<sup>†</sup> Based on a fully charged battery at room temperature.

## TECHNICAL SPECIFICATIONS:

### Phone:

#### Phone dimensions with...

- 500 mAh battery: 5.5 x 1.7 x 1.2"  
140 x 43 x 30 mm
- 700 mAh battery: 5.5 x 1.7 x 1.5"  
140 x 43 x 38 mm
- 1250 mAh battery: 5.5 x 1.7 x 1.5"  
140 x 43 x 38 mm

#### Phone weight with...

- 500 mAh battery: 5.1 oz. (145 g)
- 700 mAh battery: 6.6 oz. (188 g)
- 1250 mAh battery: 7.3 oz. (207 g)

### Battery:

- Voltage: 4.8 VDC

### Adaptor Jack Input Voltage:

- 7 VDC

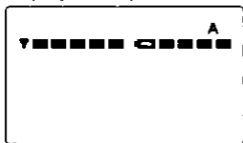
### AC Charging Adaptor (EB-CA10 specified):

- Input: 120 VAC, 60 Hz, 10 W
- Output: 7 VDC, 600 mA
- Consumes 4.5 watts when connected to 120V outlet, even when not connected to phone.

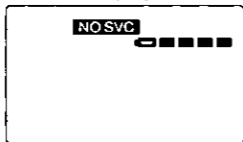
# Using Your Phone . . .

## POWER ON/OFF:

1. Attach a charged battery.
2. Press **PWR**.
  - Wake-up tone sounds; all indicators, phone number, and backlight light briefly; battery charge level displays.
  - Signal strength indicator and battery charge level display when phone is ready for operation.



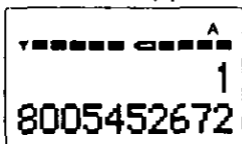
- If signal strength is too weak, the **NO SVC** indicator displays.



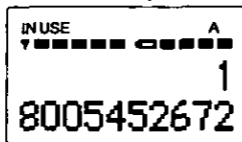
- Backlighting goes out approximately ten (10) seconds after phone is turned on.
  - If locked, the current lock mode displays.
3. To turn off, press **PWR**.

## MAKING A CALL:

1. Fully extend antenna, turn on phone and verify signal strength is sufficient.
2. Enter number (up to 32 digits).



- Press **(CLR)** briefly to erase a digit, or press and hold to erase the entire entry.
  - To view entries longer than 20 digits, press **(FCN)** **(FCN)**.
3. Press **(SND)** to place the call.



During a call, you may...

- View the call length by pressing **(FCN)** **(12)**.
  - Disable mouthpiece by pressing **(MUTE)**. **Audio Mute** displays. Press **(MUTE)** again to enable mouthpiece.
  - Press **(V)** or **(^)** to adjust earpiece volume.
  - Press **(SND)** to send a flash signal (call waiting).
  - Send DTMF tones by pressing keys. Or, recall a number from memory, then press **(FCN)** **(SND)**.
  - Use the phone as a scratch pad to enter a number.
4. Press **(END)** to end the call.
    - If you entered a scratch pad number, it displays.

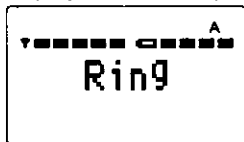
## LAST NUMBER REDIAL:

If the display is clear, press **[SND]** to automatically display and dial the last phone number sent.

To review the last five numbers dialed, press **[MEM]** **[0:OFF]** **[0:OFF]**, then **[V]** or **[^]**.

## ANSWERING A CALL:

1. Press **[PWR]** to turn on the phone.
2. When a call is received, the phone rings, **Ring** displays, and the display and backlight flash.



- To adjust or mute ring volume, refer to **Volume**, page 12.
3. Fully extend antenna.
  4. Press any key to answer (except **[PWR]**, **[END]**, **[V]** or **[^]**). The **IN USE** indicator lights.
  5. Press **[END]** to end the call.

## Notes:



- Depending on the lock setting, you may have to unlock the phone. Refer to **Lock/Unlock**, pages 23-26.
- If you do not answer a call, a counter displays the number of unanswered calls. For example, if you have two unanswered calls, the display shows **Received 2 Calls**.

## VOLUME:

### Ring Volume:

Press  or  during ringing

#### OR

When the phone is not in use, press **FCN** **400**, then  or  to adjust between five (5) ring volume levels. Press **MEM** to save. (If you turn off ring volume, a flashing display and **Ring** message alert you of incoming calls.)

### Wake-Up Tone Volume:



The ring volume level setting determines the wake-up tone volume:

- Ring Volume 1, 2, or 3 = Wake-Up Tone On-Medium
- Ring Volume 4 or 5 = Wake-Up Tone On-High

### Earpiece Volume:



During a call, press  or .

### Keytone Volume:

Press  or  when the phone is not in use.

#### OR

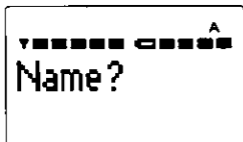
To turn off the keytones, press **FCN** **500**.

- Press  or  to select between **Key Tone - Silent Key Off** and **Key Tone - Silent Key On**. When the desired setting displays, press **MEM**.
- To transmit DTMF tones during a call when **Key Tone - Silent Key On** is set, enter the desired digits and press **FCN** **SND**.

# Memory Features

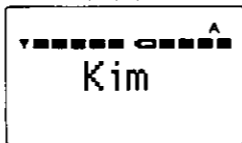
## NAME & NUMBER ENTRY:

1. Press **MEM** **MEM** to begin your entry:

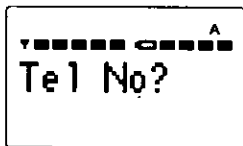


2. Enter a name (up to seven characters).

- If you do not want to enter a name, go to step 3.
- Enter character(s) using the **0<sup>MEM</sup>** to **9<sup>MEM</sup>** keys. Press key once to enter first character on key, press twice to enter second character, etc....
- Press **0<sup>MEM</sup>** to enter a period, hyphen, or slash. Press **1<sup>MEM</sup>** to enter Q, Z, or a space.
- Press **#<sup>MEM</sup>** to move forward or **\*<sup>MEM</sup>** to move back.
- Press **CLR** to delete characters.
- For example: **KIM**
  - Press **5<sup>MEM</sup>** **5<sup>MEM</sup>** (K), then **#<sup>MEM</sup>** (to move forward one space).
  - Press **4<sup>MEM</sup>** **4<sup>MEM</sup>** **4<sup>MEM</sup>** (i), then **#<sup>MEM</sup>** (to move forward one space)
  - Press **6<sup>MEM</sup>** (m).



3. Press **MEM** to save the name and enter a number.



4. Enter a number (up to 32 digits).
  - Press **CLR** to edit entries.
  - Press **FCN** **#7** to program a pause (refer to *Pause Dialing*, page 26).
  - To view all digits (for entries longer than 20 digits), press **FCN** **FCN**.
5. To save, press **MEM** and enter a two-digit memory location (for memory location storage).

OR

Press **MEM** **\*4** (for auto storage).

OR

Press **MEM** **S1** or **MEM** **S2** (for one-touch dial storage).

**Note:**

For more information about storing numbers, refer to *Storing Entries*.

**STORING ENTRIES:**

You may store up to 101 phone numbers in memory (locations 01 to 99, S1 and S2). Locations S1 and S2 are one-touch dialing locations which should be used to store your most-frequently dialed numbers. The three (3) storage methods are:

- Memory Location Storage (page 15)
- Automatic Storage (page 16)
- One-Touch Dial Storage (page 16)



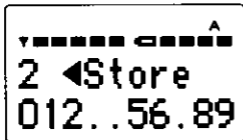
**Memory Location Storage:**

1. With your entry displayed, press **MEM** until the display shows:



2. Enter the first digit of a two-digit memory location.

- **Example:** Press **2MC** (for a two-digit memory location which begins with 2). The following display 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 **0MC** 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 1.

**Automatic Storage:**

1. With your entry displayed, press **MEM** until the display shows:



2. Press **\*4** to store in next available location.
  - If you enter the first digit of a two-digit location and press **\*4**, your entry is saved in the next location which begins with the entered number.
  - If memory is full, **Memory Occupied** displays and then returns to step 1.

**One-Touch Dial Storage:**

1. With your entry displayed, press **FCN** **MEM**; the display shows:



2. Enter a location number from 01 to 09, **S1** or **S2**.
  - Example: Press **S2**.



**REVIEWING/SCROLLING:****By Memory Location:**

1. Press **MEM**.



2. Enter a two-digit memory location, **S1** or **S2**.
  - The display shows the location, name (if any) and last ten (10) phone number digits. To view all digits of longer entries, press **FCN** **FCN**.
3. To scroll memory, press **▼** or **▲**.
  - If you entered a two-digit location number, you scroll locations 01 to 99.
  - If you pressed **S1** or **S2**, you scroll S1 and S2.
  - If you entered **0OPR** **0OPR**, you scroll the last five (5) dialed numbers.

**By Name:**

1. Press **MEM**.



2. Press **▼** or **▲** to review names.
  - Press and hold **▼** or **▲** to display single letters. Release the key to view the next name which begins with the displayed letter.
  - Names are reviewed alphabetically.

- Entries without a name display in the order they were saved. Entries beginning with a space, hyphen or slash are shown last alphabetically.
- Only locations 01-99 are scrolled.

## EDITING STORED ENTRIES:

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

1. Recall an entry so it displays (refer to *Reviewing/Scrolling*, pages 17-18).
2. Press **FCN** **MEM** to enter name edit mode.
  - If your entry has no name, **NAME?** displays.
  - If your entry has a name, the name displays.
3. Add/edit/clear name (refer to *Name & Number Entry*, pages 13-14).
4. Once you edit the name, press **MEM** to enter number edit mode.
  - A hidden cursor is located at the end of the phone number.
5. Edit/clear number (refer to *Name & Number Entry*, pages 13-14).
6. Once you edit the number, press **MEM** to enter memory storage mode.
  - The current memory location displays.
7. Press **MEM** to store the edited entry in the displayed location.

OR

Enter a new memory location.

- Any time during the editing process, press **CLR** **CLR** to exit without making changes.

**DIALING:****One-Touch Dialing (Locations S1, S2 and 1-9):**

Press **S1** or **S2**.

- The entry displays and the phone automatically places the call.

**OR**

Press and hold desired location (**S1** to **S999**) until the entry displays and **IN USE** lights; the phone automatically places the call.

**Super Speed Dialing (Locations 01-99):**

Enter memory location and press **SND** to dial.

- If the entered memory location is empty, a call is initiated to the number(s) on the display.

**Speed Dialing (Locations S1, S2 and 01-99):**

Press **MEM**. Enter any memory location, **S1** or **S2**. Press **SND** to dial.

**SCRATCH PAD MEMORY:**

1. Enter a number during conversation.
2. If the number displays when **END** is pressed, the number is automatically stored in the phone's scratch pad memory.
3. To review the number in scratch pad memory, press **MEM** **\*4**.

Once the scratch pad entry displays:

- Press **SND** to call.

**OR**

- Save the entry as described under **Storing Entries**, pages 14-16.

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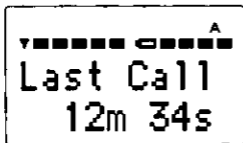
# Additional Features

## TIMERS:

### Individual Call Timer:

Press **FCN** **1<sup>st</sup>**.

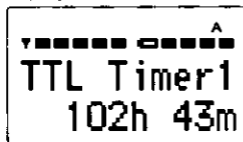
- The current call or last call length displays in minutes and seconds. For example:



### Total Timer 1 (non-resettable):

Press **FCN** **1<sup>st</sup>** **<**.

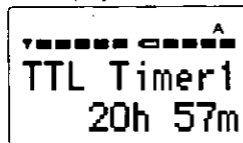
- The total call activity for both phone numbers displays in hours and minutes. For example:



### Timer 2:

- Press **FCN** **1<sup>st</sup>** **<** **<**.

- The active phone number's accumulated call time displays in hours and minutes. For example:



- Press **0<sup>off</sup>** **MEM** to reset the timer.

## OWN PHONE NUMBER(S):

Your phone may have up to two (2) phone numbers (programmed by your cellular carrier). You may select either phone number for use at any time.

1. Press **FCN** **6** .
  - The currently active phone number displays.
2. Press **↙** or **↘** to display the other phone number (if your phone has two numbers).
3. Press **MEM** when the desired number displays.

## SELECTING A CARRIER:

When you sign-up for cellular service, 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 displays to indicate the carrier which is providing your cellular service.

1. Press **FCN** **7** when phone is not in use.
  - The current setting displays (for the currently active phone number).
2. Press **↙** or **↘** to review options:
  - **A/B Select Normal:** Your phone tries to complete calls using your home system. If your phone cannot access your home system (i.e., you are out of range), your phone tries to complete calls using an available system (roam).
  - **A/B Select A Sys Only:** Your phone uses only the A system. (If you select this and your home system is B, you will not be able to place or receive calls using your home system.)
  - **A/B Select B Sys Only:** Your phone uses only the B system. (If you select this and your home



system is **A**, you will not be able to place or receive calls using your home system.)

- **A/B Select Home Sys:** Your phone selects only your home system; the phone will not roam. (If you select this, you cannot place/receive calls outside of your home system.)

3. When the desired setting displays, press **MEM**.

- The setting is stored for the currently active phone number.
- **ROAM** displays or flashes when your phone is accessing a system outside of your home system area.
- The **A** and **B** indicators display to alert you which system your phone is accessing.

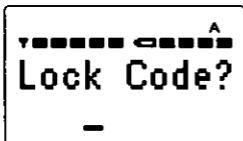
## LOCK/UNLOCK:

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

- 911 is the preset emergency number. If desired, your cellular dealer can reprogram the emergency number.

## Programming A Lock Code:

1. Press **FCN** **Down**.

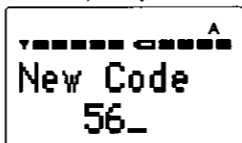


2. Enter the current lock code.

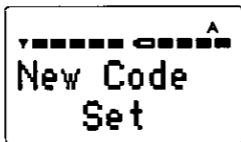
- The preset lock code is the last four (4) digits of your cellular phone number.

3. Enter a new lock code.

- The lock code may be two to four digits (using the **0** to **9**, **\*** and **#** keys).
- For example, if you enter 56 as a lock code:



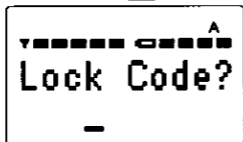
4. Press **MEM** to save.



**Dialed Digit Restriction:**

You may limit the length of phone numbers which can be dialed from your phone. For example, to allow only local calls, restrict digit length to seven (7) digits.

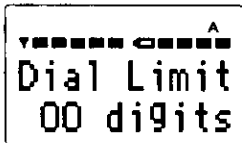
1. Press **FCN** **9**.



2. Enter your current lock code.



- Once the correct code is entered, the current dialed digit restriction displays.

- **Example:** No restriction is set.



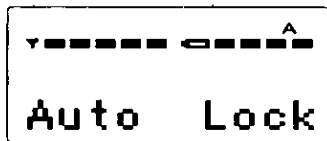
3. Enter digit restriction (from 00 to 31).
  - Entering 0 or 00 means no restriction is set.
4. Press **MEM** to save.
  - Your setting remains in effect until you change the digit restriction.

### Additional Lock Options:

1. Press **FCN** **357**.
2. Enter your current lock code.
  - Once the correct code is entered, the current lock level displays.
3. Press  or  to review options:
  - **Unlock:** Unrestricted use.
  - **Dial Lock:** Calls can be made only to numbers stored in the phone's memory (and the emergency number). Calls can be received.
  - **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 (the phone will not ring). Phone features cannot be accessed.
4. When the desired option displays, press **MEM**.
  - Your setting remains in effect until you change the lock option.
  - Dial lock deletes the last dialed numbers.

### Automatic Lock:

Your dealer can program your phone to automatically lock when turned on. For example:



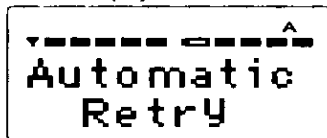
Enter your current lock code to unlock the phone.

- If Dial Lock, Send Lock or Full Lock was set before the phone was turned off, the phone turns on in the preset lock mode.
- If none of the Lock options was set before the phone was turned off, the phone turns on in Full Lock mode (Full Lock restrictions are described on page 25).

### AUTOMATIC RETRY:

Your dealer can program your phone to automatically retry a call.

- If your call cannot be completed by the cellular system, the display will show:



Do not press **END**. Your phone will automatically retry the call up to 15 times every two (2) seconds.

- If the call is successful, you will hear the auto-answer tone.
- If the call cannot be completed after 15 retries, the phone stops the retry process and you will hear the intercept tone. To stop Automatic Retry at any time, press **END**.

## PAUSE DIALING:

Some services (long distance access, voice mail, etc...) require you to dial groups of numbers with short pauses between each group of numbers.

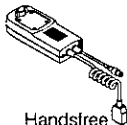
1. Enter a phone number.
2. Press **FCN** **#P** to enter a pause.
  - A "P" displays to indicate the pause.
  - A pause cannot be entered as the first digit; pauses cannot be entered consecutively.
3. Continue entering numbers and pauses as needed.
  - When completed, you may store your entry in memory; refer to **Storing Entries**, pages 14-16.
4. Press **SND** to initiate a call.
  - The first group of numbers is dialed. The remaining digits are paused indefinitely.
5. Continue pressing **SND** to transmit additional groups of numbers.

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S

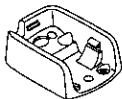
# Standard Kit & Accessories

A standard kit includes the phone, a battery and an AC charging adaptor. Accessories are as follows:

## Handsfree Car Mount Kit:



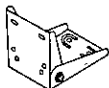
Handsfree  
Cradle



Handset  
Holder



Microphone



Adjustable  
Angle Bracket

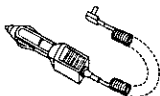


Power Supply  
Cable

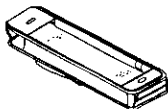
## Accessory Value Kit:



1250 mAh  
NiMH Battery



DC Charging  
Adaptor



Carry Case  
(Leather)

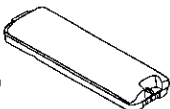
## Additional Accessories:



500 mAh  
NiMH Battery



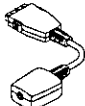
700 mAh  
NiCd Battery



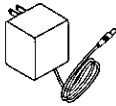
1250 mAh  
NiMH Battery



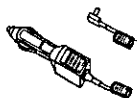
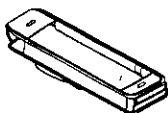
Private  
Handsfree



Private Handsfree  
Adaptor



AC Charging  
Adaptor

DC Charging  
AdaptorHandset  
HolderCarry Case  
(Leather)

## ACCESSORY ORDERING

Visit your Panasonic dealer or call Panasonic at  
1-800-332-5368

- If you are calling to order, please have the accessory number and your credit card number ready
- Accessory information may change without notice

Accessory Value Kit	EB-SA60Z <sup>1</sup> EB-SA60E <sup>2</sup>
AC Charging Adaptor	EB-CA10 <sup>1</sup>
Battery, 500 mAh NiMH	EB-BS60 <sup>1</sup> EB-BS60E <sup>2</sup>
Battery, 700 mAh NiCd	EB-BM60 <sup>1</sup> EB-BM60E <sup>2</sup>
Battery, 1250 mAh NiMH	EB-BL60 <sup>1</sup> EB-BL60E <sup>2</sup>
Carry Case (Leather)	EB-YK60
DC Charging Adaptor	EB-CD10
Handset Holder	EB-KA60
Handsfree Car Mount Kit	EB-HF60Z
Private Handsfree	EB-M70005
Private Handsfree Adaptor	EB-DA60

1 Order for use ONLY in USA, Canada, or Mexico

2 Order for use in all countries EXCEPT in USA, Canada, or Mexico





# Service Information

## CLEANING:

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

## TROUBLESHOOTING:



Before calling for service, try these troubleshooting tips...

If your phone does not turn on...

- Fully charge the battery.
- When using the AC or DC Charging Adaptors, attach a battery.

If the **NO SVC** indicator displays...

- Fully extend the antenna.
- Try "Normal" carrier system selection (refer to **Selecting A Carrier**, pages 22-23).

If a "Lock" message displays...

- The phone may not work if locked (except emergency dialing). Refer to **Lock/Unlock**, pages 23-26.

If **Off-On** followed by a three-digit code displays...

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

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

- Try "A/B Select Home Sys" carrier system selection (refer to **Selecting A Carrier**, pages 22-23). If the **ROAM** indicator remains on, contact your dealer or service provider.

If you hear a slow busy tone when making a call...

- Move to an area with better reception (signal strength) and try your call again.

If you hear a fast busy tone when making a call...

- Your call cannot be accepted because the cellular system is busy.
- Verify the signal strength is sufficient.
- Move to an area with better reception (signal strength) and try your call again.

If you hear a rapid high/low tone when making a call...

- Your call was rejected by the cellular system because the number you were calling was invalid, the **NO SVC** indicator was on, etc.... End your call and try again.
- If authentication is offered in your service area, your phone may need an authentication code before it is able to operate. Contact your cellular service provider for more information.

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 any other problems occur, try removing, then replacing the battery.

### **ADDITIONAL HELP:**

Call Panasonic's Customer Satisfaction Center at 201-348-9090.

If your cellular phone is malfunctioning, call Panasonic at 1-800-545-2672 to locate the nearest Panasonic Servicer or Authorized Independent Servicer.



# Precautions

## IMPORTANT:

**READ THIS INFORMATION BEFORE USING YOUR  
HANDHELD PORTABLE CELLULAR TELEPHONE**

**For the safe and efficient operation of your phone, observe these guidelines:**

Your cellular telephone is a radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) energy. The phone operates in the frequency range of 824 MHz to 894 MHz and employs commonly used frequency modulation (FM) techniques. When you use your phone, the cellular system handling your call controls the power level at which your phone transmits. The power level can range from 0.006 of a watt to 0.6 of a watt.

### **Exposure to Radio Frequency Energy:**

In 1991, the Institute of Electrical and Electronics Engineers (IEEE), and in 1992 the American National Standards Institute (ANSI) updated the 1982 ANSI Standard for safety levels with respect to human exposure to RF energy. Over 120 scientists, engineers and physicians from universities, government health agencies, and industry, after reviewing the available body of research, developed this updated Standard. In March, 1993, the U.S. Federal Communications Commission (FCC) proposed the adoption of this updated Standard.

**The design of your phone complies with this updated Standard.** Of course, if you want to limit RF exposure even further than the updated ANSI Standard, you may choose to control the duration of your calls and operate your phone in the most power efficient manner.

### **Efficient Phone Operation:**

For your phone to operate at the lowest power level, consistent with satisfactory call quality, please observe the following guidelines:

- If your phone has an extendable antenna, extend it fully. Some models allow you to place a call with the antenna retracted. However, your phone operates more efficiently with the antenna fully extended.

- Hold the phone as you would any other telephone. While speaking directly into the mouthpiece, position the antenna up and over your shoulder.
- Do not hold the antenna when the phone is "IN USE". Holding the antenna affects call quality and may cause the phone to operate at a higher power level than needed.

### **Antenna Care & Replacement:**

Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Replace a damaged antenna immediately. Consult your manual to see if you may change the antenna yourself. If so, use only a manufacturer-approved antenna. Otherwise, take your phone to a qualified service center for repair.

Use only the supplied or approved antenna. Non-approved antennas, modifications, or attachments could impair call quality, damage the phone, and violate FCC regulations.

### **Driving:**

Check the laws and regulations on the use of cellular telephones in the areas where you drive. Always obey them. Also, when using your phone while driving, please:

- give full attention to driving
- use handsfree operation, if available, and
- pull off the road and park before making or answering a call if driving conditions so require.

### **Electronic Devices:**

Most modern electronic equipment is shielded from RF energy. However, RF energy from cellular telephones may affect inadequately shielded electronic equipment.

RF energy may affect improperly installed or inadequately shielded electronic operating and entertainment systems in motor vehicles. Check with the manufacturer or its representative to determine if these systems are adequately shielded from external RF energy. You should also check with the manufacturer of any equipment that has been added to your vehicle.

Consult the manufacturer of any personal medical devices (such as pacemakers, hearing aids, etc...) to determine if they are adequately shielded from external RF energy.

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

**Aircraft:**

**TURN YOUR PHONE OFF BEFORE BOARDING ANY AIRCRAFT.**

- Use it on the ground only with crew permission.
- Do not use it in the air.

To prevent possible interference with aircraft systems, U.S. Federal Aviation Administration (FAA) regulations require you to have permission from a crew member to use your phone while the plane is on the ground. To prevent interference with cellular systems, FCC regulations prohibit using your phone while the plane is in the air.

**Children:**

Do not allow children to play with your phone. It is not a toy. Children could hurt themselves or others (by poking themselves in the eye with the antenna, for example). Children also could damage the phone, or make calls that increase your telephone bills.

**Blasting Areas:**

To avoid interfering with blasting operations, turn your unit OFF when in a "blasting area" or in areas posted: "Turn off two-way radio". Construction crews often use remote control RF devices to set off explosives.

**Potentially Explosive Atmospheres:**

Turn your phone OFF when in any area with a potentially explosive atmosphere. It is rare, but your phone or its accessories could generate sparks. Sparks in such area 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 gas stations; below deck on boats; fuel or chemical transfer or storage facilities; 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.

Do not transport or store flammable gas, liquid, or explosives in the compartment of your vehicle which contains your phone or accessories

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

### Battery

- Use only Panasonic charging accessories
- Fully recharge the battery at least once a month
- Do not charge the battery for more than 24 hours at a time Overcharging may shorten the life expectancy of the battery
- Do not dispose of the battery in fire
- Do not drop the battery
- Do not short the battery contacts together
- Do not store or carry the battery together with any metallic items
- This product may use a battery that can be recycled Under some state and local laws, it is illegal to discard the battery into the municipal waste stream Check with your local solid waste officials for recycling or disposal information



### General

- Do not use the phone in extreme temperature or humidity The specified operating temperature range is -22°F (-30°C) to 140°F (60°C)
- Do not attempt to disassemble the phone There are no user-serviceable parts inside
- Do not expose the phone to rain or spill liquids on it
- Do not carry the phone by holding the antenna
- 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



# Limited Warranty

## **Cellular Mobile Telephone Products:**

If the materials or workmanship of this product are defective, Matsushita Consumer Electronics Company or Panasonic Sales Company (Panasonic) will replace or repair this product with new or refurbished products or parts, at Panasonic's option, free of charge, in the USA or Puerto Rico for the following period:

## **Personal Cellular Telephone:**

Except as listed below, for one (1) year from the date of original purchase.

## **Accessories:**

Accessories, except batteries, whether or not purchased separately, for one (1) year from the date of original purchase unless otherwise specified within this warranty.

## **Batteries:**

Defective rechargeable batteries will be replaced with new rechargeable batteries for ninety (90) days from the date of original purchase. Non-rechargeable batteries are not warranted.

## **Carry-in Or Mail-in Service:**

In the USA, service can be obtained during the warranty period from a carry-in or mail-in service Matsushita Services Company (MSC) Factory Servicenter listed in the Servicenter Directory. Or call 1-800-545-2672, toll free, to locate an authorized MSC Servicenter.

## **Warranty Extended Only To Original Purchaser:**

This warranty extends only to the original purchaser. A purchase receipt or other proof of date of original purchase will be required before warranty service is rendered.

This warranty only covers failures due to material or workmanship defects that occur during normal use. THIS WARRANTY DOES NOT COVER damage that occurs in shipment, failures caused by products not supplied by Panasonic, damage attributable to acts of God, or failures resulting from accident, misuse, abuse, neglect, mishandling, misapplication, faulty installation, set-up adjustments, improper maintenance, alteration, improper

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antenna, inadequate signal pick-up, maladjustment of consumer controls, line power surge, lightning damage, modification or service by anyone other than an MSC Factory Servicenter or authorized MSC Servicenter.

This Warranty does not cover removal and reinstallation costs, nor does it cover products with a missing, altered, or illegible serial number.

This Warranty is voided in full if the phone's electronic serial number (ESN) is modified/changed/tampered with in any way, including, but not limited to, modification of the ESN to add an additional phone number or number(s) to the phone.

**Limits And Exclusions:**

There are no express warranties except as listed above.

PANASONIC SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts. Therefore, the above exclusions or limitations may not apply to you.

This warranty gives you specific legal rights. You may also have other rights, which vary from state to state.

If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Consumer Affairs Division at the company address indicated below:

**MATSUSHITA CONSUMER ELECTRONICS COMPANY,**  
Division of Matsushita Electric Corporation of America  
One Panasonic Way, Secaucus, New Jersey 07094  
Tel. (201) 348-7000

**PANASONIC SALES COMPANY,**  
Division of Matsushita Electric of Puerto Rico Inc. (PSC)  
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park  
Carolina, Puerto Rico 00985  
Tel. (809) 750-4300 Fax. (809) 768-2910





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# EB-M65/EB-M655 Series

## QuickReference

**POWER:** **PWR**

### CALLS:

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

**Receive Calls:**  
Press any key except **PWR**, **END**,  
 or

**End Calls:** Press **END**

### DIALING:

**One-Touch:**  
Press and hold one-digit memory location ( **1OZ** - **9TWY**), **S1** or **S2**

**Super Speed Dialing:**  
Enter memory location, press **SND**

**Last Number:** Press **SND**

### STORING:

Press **MEM** OR **FCN** **MEM**

Enter name (if desired), press **MEM**

Enter phone number, press **MEM**

Enter memory location OR  
enter **\*** (for auto storage) OR  
enter **S1** or **S2**  
(for one-touch dial storage).

### REVIEWING:

Memory: **MEM**, enter location,

or to scroll

Long Numbers: **FCN** **FCN**

### VOLUME:

**Earpiece:**  
Press or during call

**Ring:**  
Press or during ringing

**Keystone:**  
Press or when phone is not in use

### FUNCTIONS:

or to scroll; **MEM** to save)

**Timers:** **FCN** **1OZ**

**Lock options:** **FCN** **3LOC DEF**

**Ring Volume:** **FCN** **4RNG QHT**

**Silent Keypad:** **FCN** **5TMR JKL**

**Own Phone Number(s):** **FCN** **6OWN\* JKL**

**System Carrier Selection:** **FCN** **7SYS PRS**

**Restrict Dialing:** **FCN** **9DRT WXY**

**Program Lock Code:** **FCN** **0LOCK OPT**

**Pause Dial:** **FCN** **#**

**Send DTMF from Memory:** **FCN** **SND**

### VOLUME:

**Earpiece:**  
Press or during call

**Ring:**  
Press or during ringing

**Keystone:**  
Press or when phone is not in use

### FUNCTIONS:

or to scroll; **MEM** to save)

**Timers:** **FCN** **1OZ**

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**Restrict Dialing:** **FCN** **9DRT WXY**

**Program Lock Code:** **FCN** **0LOCK OPT**


**Pause Dial:** **FCN** **#**



**Send DTMF from Memory:** **FCN** **SND**

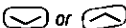
# EB-H65/EB-H655 Series Quick Reference


## POWER

### CALLS





Make Calls  
Enter digits, press 

Receive Calls  
Press any key except , ,




End Calls Press 

### DIALING

One-Touch  
Press and hold one-digit memory  
location (  - ,  or  )

Super Speed Dialing  
Enter memory location press 



Last Number Press 



### STORING

Press   OR  

Enter name (if desired), press 

Enter phone number, press 

Enter memory location OR  
enter   (for auto storage) OR

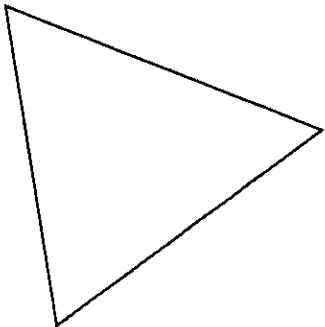
enter  or   
(for one-touch dial storage)

### REVIEWING

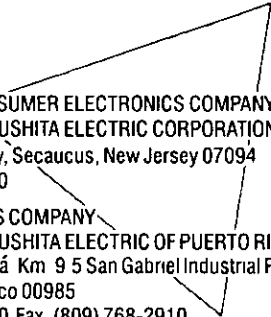
Memory , enter location,

 or  to scroll

Long Numbers  



MATSUSHITA CONSUMER ELECTRONICS COMPANY  
DIVISION OF MATSUSHITA ELECTRIC CORPORATION OF AMERICA  
One Panasonic Way, Secaucus, New Jersey 07094  
Tel (201) 348-7000



PANASONIC SALES COMPANY  
DIVISION OF MATSUSHITA ELECTRIC OF PUERTO RICO INC (PSC)  
Ave 65 de Infantería Km 9 5 San Gabriel Industrial Park,  
Carolina, Puerto Rico 00985  
Tel (809) 750-4300 Fax (809) 768-2910

# Panasonic