

Panasonic®

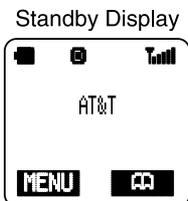
EB-TX320

Digital Multi-Network Phone Operating Instructions



Before operating this phone, please read these instructions completely and save this manual for future use. **Charge battery before operation.**

Press shortcut keys shown to get to desired function.



1 Phonebook 1

- 1 Favorite Number 1 1
- 2 Search 1 2 ABC
- 3 Create 1 3 DEF
- 4 Super Dial 1 4 GHI
- 5 Search Method 1 5 JKL
- 6 Own Number 1 6 MNO
- 7 Delete All 1 7 PQRS

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2 Messages 2 ABC

- 1 Text Message 2 ABC 1
- 2 Voice Mail 2 ABC 2 ABC

Chapter 7

3 Call History 3 DEF

- 1 Dialed 3 DEF 1
- 2 Missed 3 DEF 2 ABC
- 3 Received 3 DEF 3 DEF
- 4 Call Timers 3 DEF 4 GHI

Chapter 6

4 Tone Settings 4 GHI

- 1 Ring Volume 4 GHI 1
- 2 Key Volume 4 GHI 2 ABC
- 3 Ring Alert 4 GHI 3 DEF
- 4 Message Alert 4 GHI 4 GHI
- 5 Vibration 4 GHI 5 JKL
- 6 Warning Tone 4 GHI 6 MNO

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- 2 NAM Selection 7 PQRS 2 ABC
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Chapter 8

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Introduction

Congratulations on your purchase of one of the world's most technologically advanced mobile communications systems! Your new Panasonic phone combines the advantages of digital and analog coverage with a variety of time-saving and easy-to-use features. The result: a phone that offers real convenience, dependability, and mobility—in digital *and* analog service areas.

About This Manual

This manual contains comprehensive instructions for each of your phone's features. From making a call to troubleshooting a problem, the answers to most of your questions are here.

Chapter 1: *Safety First*

Chapter 1 includes important safety and battery information. Whether you are a novice or an experienced cellular user, be sure to read this section *before* operating your phone.

Chapter 2: *Getting Started*

Chapter 2 describes the basics of setting up and operating your phone. From connecting and charging your battery, describing the phone's keys and display icons, moving through the feature menu, and using the Private Handsfree Headset, this is the place to turn when you are ready to get started.

Chapter 3: *Everyday Operations*

Chapter 3 covers those features you'll use on a daily basis — placing and ending calls, answering calls, and so on.

Chapter 4: *Text Entry Operations*

Chapter 4 covers the two modes of text entry: letter-by-letter entry and the new WORD T9[®] entry — designed to give you rapid text entry when sending text messages.

Chapter 5: *Phonebook Features*

Chapter 5 covers how to save names, numbers, and additional information in your phone's memory.

Chapter 6: *Additional Operations*

Chapter 6 describes those features that allow you to customize your phone's settings. You can set alarms to remind you of important events, switch your phone to another language, or secure your phone from unauthorized use.

Chapter 7: *Service Provider Features*

Chapter 7 describes how to use features that may be offered by your wireless service provider, such as Caller ID, Call Waiting, Three-Way Calling, Text Messaging, Voice Mail, and so on. Check with your wireless service provider for complete information on available services.

Chapter 8: System Settings

Chapter 8 contains information about the features on the System Setting menu. This information is provided primarily for technically knowledgeable users.

Reference Information:

Appendix A: *Before Requesting Help*

As you begin to take advantage of your phone's features, you may experience minor problems. However, you can easily fix most of these problems. This chapter contains a detailed list of solutions to some of the problems you may encounter.

Appendix B: *Phone Accessories*

Many accessories are available for your phone. Appendix B lists and illustrates each of these accessories. Please contact your wireless service provider to purchase Genuine Panasonic accessories.

Appendix C: *Consumer Update*

Appendix C contains a recent report published by the U.S. Food and Drug Administration about the safety of mobile phones.

Index

If you are looking for a specific topic and it is not listed in the Contents, the Index may point you in the right direction.

Icons Used in This Manual

The following icons indicate critical and time-saving information found throughout this manual. Please take special notice of information included with these icons.



Caution: Information that could prevent you from damaging your phone or putting your own safety at risk. Please be sure to read this information.



Note: Information that could have direct impact on how a particular feature or function will operate.



Tip: Helpful advice and time-saving shortcuts. Memorizing these tips can save you valuable time.

Safety First

1

Your new phone is a convenient and effective communications tool, but it can be hazardous when used improperly. To avoid harming yourself or anyone else, please review the following information before using your phone.

Batteries

Batteries can cause property damage, injury, or burns if the terminals are touched with a conductive material (for example, metal jewelry, keys, and so on). Therefore, use caution when handling a charged battery. Additional precautions and notes are listed below:

- Never throw a battery into a fire; it may explode.
- Fully recharge the battery if the battery is low or as soon as the low-battery alert beeps.
- Do not drop the battery.
- Do not bridge battery contacts together with metallic objects.
- Do not remove the battery from the phone while the phone is powered on. Settings you have changed may revert to their previous settings.



A recyclable lithium ion/polymer battery powers your phone. Please call 1-800-8-BATTERY for information on how to recycle the battery.

Charging Devices

- Use only Genuine Panasonic charging accessories. Use of attachments not recommended by Panasonic or your wireless service provider may result in fire, electrical shock, or injury. Panasonic is not responsible for damage caused by using non-Panasonic accessories.
- Do not expose charging adapters to moisture, water, or the weather.
- Do not use an adapter with a damaged cord.
- When using a DC adapter in an automobile, a small amount of electricity flows through the adapter, even if the phone is turned off. Remove the plug from the cigarette lighter whenever the phone will be left in the vehicle for long periods of time.



Caution: The cigarette lighter must have a 12V negative ground socket.
Do not use the adapter in a vehicle that has a positive ground system.

General

- Do not use the phone in extreme temperature or humidity. The specified operating temperature range is -4°F to +140°F (-20°C to +60°C).
- Do not expose the phone (particularly the display) to direct sunlight for extended periods of time.
- 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 phone.
- Use of attachments not recommended or sold by your wireless service provider may result in fire, electrical shock, or injury.
- Panasonic cannot be held responsible for damages caused by using non-Panasonic accessories.

Availability of Service

This phone, like any wireless phone, operates using radio signals, wireless and landline networks, and user-programmed functions. Because of this, connection in all conditions cannot be guaranteed. Therefore, you should never rely solely on any wireless phone for essential communications (for example, medical emergencies). When operating in analog mode, the service area where you can place and receive calls will be smaller than with other phones.

Emergency (911) Service

If you need to make an emergency (911) call, power the phone on, dial 911, and press . Emergency calls can be made regardless of lock setting.



Note: When you purchase your phone, the  key is programmed as a Super Dial key to call the emergency number 911. However, you have to enable this key assignment before you can use it. See “Emergency Call” on page 47.

Remember, to make or receive any call, the phone must be switched on and in a service area that has adequate signal strength. Emergency calls might not be possible on all wireless phone networks or when certain network service and/or phone features are in use.

Safety Tips

Following the suggestions in this section will help ensure safe and efficient operation of your Panasonic phone.

This Model Phone Meets The Government's Requirements For Exposure To Radio Waves.

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg.* Tests for SAR are conducted using standard operating positions specified by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone when

* In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

tested for use at the ear is 1.500W/kg and when worn on the body, as described in this user guide, is 0.747W/kg. (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF emission guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on FCC ID NWJ10A007A.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) web-site at <http://www.wow-com.com>.



Caution: All Panasonic branded accessories are tested and comply with FCC RF exposure requirements. Non-Panasonic accessories may not comply.

Body-worn operation

To maintain compliance with FCC RF exposure guidelines, if you wear your wireless phone on your body while on a voice or data call, always place the phone in a Panasonic supplied or approved carry accessory. Use of non-Panasonic approved accessories may exceed FCC RF exposure guidelines.

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.

Phone Operation

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

FOR EFFICIENT OPERATION: For your phone to operate most efficiently, 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



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

- Give full attention to driving—driving safely is your first responsibility;
- Use handsfree operation, if available;
- 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 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 6 inches (6") or 15 centimeters (15 cm) be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with independent research 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 it is 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 unless otherwise advised by airline personnel.

Blasting Areas

To avoid interfering with blasting operations, turn your phone OFF when in a "blasting area" or in other 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 gas 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 U.S. 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,

PO Box 9101, Quincy, MA 02269.

E-mail address: Custserv@NFPA.org.

Web site: www.nfpa.org.

Refer to Appendix C for the FDA Consumer Update on Mobile Phones published by the U.S. Food and Drug Administration.

Getting Started

2

This chapter gets you started using your phone and learning its basic features and functions.



Note: Do not modify or disassemble the handset. Do not pull or twist the antenna as doing so may loosen the connection and/or damage the antenna.

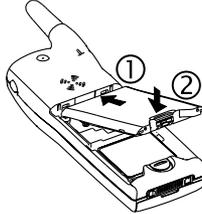
Battery Use



Note: The battery must be fully charged before using your phone for the first time. Your handset's new battery will achieve maximum performance after two or three charges.

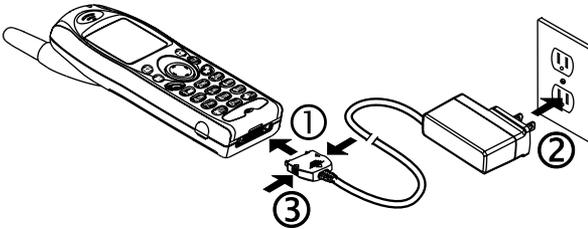
Attach and charge the battery as described in this section.

Attaching the Battery



- 1 Insert the top edge of the battery along the top edge of the phone's battery compartment.
- 2 Push the bottom of the battery toward the phone until it clicks into place.

Charging the Battery



- 1 With the directional arrows facing up, attach the AC adapter to the phone.
- 2 Insert the plug into an AC power outlet. The indicator light turns red. If the phone is on during charging, the charging time will be extended. When the battery is charged, the indicator light turns off and (if the phone is on) the battery icon (■) is filled.
- 3 To remove the AC Adapter from the phone, *press in both side tabs on the connector and pull gently.*

Recharging Tips

- Recharge batteries in a well-ventilated area between 41°F (5°C) and 95°F (35°C). Temperature may slightly affect charging time. In extreme temperature conditions, the battery will stop charging and the indicator light and battery charging icon will turn off. If this happens, remove the charger, return the phone to an acceptable temperature level, and connect the charger to restart charging.
- It is normal for your battery to become warm to the touch while it is being recharged.
- Fully charge the battery for the recommended time.
- You can use the phone during charging, but doing so will extend the charging time.

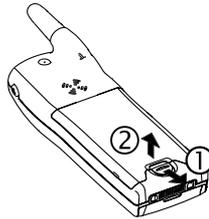
Battery Specifications

Mode	Battery Type (Lithium-Ion)	Talk Time	Standby Time	Charge Time
Analog	EB-BS320	Up to	Approx.	Approx.
	Standard 740 mAh	80 min.	5.5 hrs.	180 min.
Digital	EB-BS320	Up to	Up to	Approx.
	Standard 740 mAh	140 min.	200 hrs.	180 min.



Note: Times shown for standby, talk, and battery charge are approximate and may vary from actual times, depending on network configuration, signal strength, features selected, and customer usage patterns. Charge time reflects using the EB-CA340 400mA AC Adapter.

Removing the Battery



- 1 Slide latch down toward the bottom end of the phone.
- 2 Lift and remove battery.



Caution: Always turn the phone off before removing the battery. If you remove the battery while the phone is on, any changes you have recently made to the settings may return to their previous values.

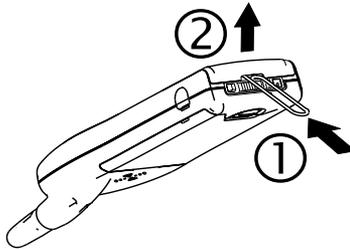
Low-Battery Warning

The phone periodically beeps when the battery is low. The battery icon () flashes and the **Low Battery** message is displayed.

If your phone is at standby (idle) when the **Low Battery** message appears, you will not be able to place or receive calls until the battery has been recharged, or until shortly after you attach an AC or DC adapter. If you are in a call when you hear the beep and the message appears, quickly end your call or attach an AC or DC adapter.

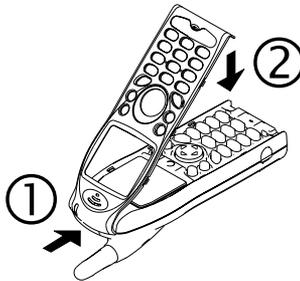
Changing Your Phone's Faceplate

Your phone comes with an extra faceplate that you can easily attach. Follow these steps to remove the attached faceplate:



- 1 Hold the phone with the antenna pointed downward. Insert the end of a large paperclip into the slot above the accessory connector on the bottom end of the phone.
- 2 Push upward with the paperclip to pop off the faceplate.

Follow these steps to attach the extra faceplate that came with your phone:



- 1 Align the top of the faceplate with the top of the phone.
- 2 Snap the rest of the faceplate into place down the length of the phone.

Phone Description



You can enter up to 32 characters by pressing the number keys. The keypad is also used to enter text as described in *Chapter 4, "Text Entry Operations"*.

Phone Specifications

Size (with standard battery)	4.6" x 1.7" x .8" (119 mm x 44.5 mm x 19.6 mm)
Weight (with standard battery)	3.1 oz. (89 g)
Maximum RF Output	600 mW

Function Keys

The following table describes how each function key works.

Key	Function
	Left Softkey/Key Lock: Press to use the function displayed above the key. From standby mode, press and hold to turn on Key Lock.
	Right Softkey: Press to use the function displayed above the key.
	Navigation Key: Press the appropriate area of this key to scroll in the required direction. Use this key to scroll through menus, text, and the Phonebook.
	Message Key: Press and hold to retrieve voice mail messages. Press to enter the text message menu.
	Clear Key: Press to delete the previous character or to return to the previous display. Press and hold to clear the display or to return to standby.
	Send Key: Press to dial the phone number on the display. Press and hold for voice command recognition.
	PWR/End Key: Press and hold to power the phone on/off. Press to end a call and return to standby, or to return to standby from any menu.
 through 	1 through 9 Digit Keys: Press to enter numbers. Press and hold one key for Super Dial. See <i>“Super Dial”</i> on page 18. In text entry mode, press to enter text, numbers, and/or symbols. (Note: The  key is used to enter spaces.) See <i>Chapter 4, “Text Entry Operations”</i> .
	Home Key: Press and hold to return “home” to standby (idle) from any menu. In text entry mode, press to switch between uppercase and lowercase letters.
	Pause Key: Press and hold to enter a pause or wait time. See <i>“Programming Pauses or Waits”</i> on page 33. When in the first position of a phone number, pressing and holding  will toggle between 0 and + (the international dialing prefix).
	Speakerphone/Quiet Mode Key: During conversation, press and hold to turn speakerphone on/off. From standby, press and hold to turn Quiet mode on/off.
	Favorite Number Key: Press to connect to AT&T Wireless #121 service for up-to-date information on weather, sports, entertainment, and much more. You can assign this key to your own favorite number (see <i>“Assigning Your Own Favorite Number”</i> on page 29).

Display Icons

Icons that appear on the display depend on what features you are using and the options you have selected.

Master Display and Icons



Icon	Indicates
	Charged battery.
	Low battery (flashes).
	New text message received. When icon is darkened, indicates that text message storage is full.
	New voice mail message received.
	Digital service available.
	Active call is in operation. When blinking, the original call has been put on hold.
	Voice privacy feature is on.
	Quiet Mode is on.
	Ring volume is set to 0.
	Vibration alert is on.
	Incoming signal strength (varies by the number of bars shown beside the signal icon): Five bars indicate a strong signal. No bars indicate a weak or no signal.
ABCDEFGHIJ 1234567890	Display area (shows numbers, text, and symbols).
	Softkey functions. From standby, press to enter the Main Menu. The function changes depending on the features or modes you are using.
	Phonebook. From standby, press to access the Phonebook. Also changes to softkey functions.

Icon	Indicates
	Press the Navigation key to move in the directions indicated by the displayed arrows.
	<ul style="list-style-type: none"> The up arrow indicates that you can scroll up through a menu selection list.
	<ul style="list-style-type: none"> The down arrow indicates that you can scroll down through a menu selection list.
	<ul style="list-style-type: none"> The solid right arrow indicates that you can move forward through a lengthy text display.
	<ul style="list-style-type: none"> The solid left arrow indicates that you can scroll back to the start of a lengthy text display.
	<ul style="list-style-type: none"> The hollow right arrow indicates that you can move forward to the next screen.
	<ul style="list-style-type: none"> The hollow left arrow indicates that you can move back to the previous screen.
	In menu displays, an asterisk next to a menu item indicates the current setting.

Phonebook Icons

The following icons appear next to Phonebook entries to indicate whether a phone number is a work number, home number, cell phone number, etc.

Icon	Indicates	Icon	Indicates
	Home phone number.		E-mail address.
	Work phone number.		Special ring.
	Cell phone number.		Backlight.
	Other phone number.		Birthday (reminder).
	Speed dial.		Location # in memory where phone number is stored.

Powering Phone On and Off

Powering ON

Press and hold until a tone sounds and the backlight lights.

- The battery indicator and signal icon are displayed.
- If your Welcome Screen is turned on, the message briefly appears.
- Your wireless service provider's name is displayed if you are within the coverage area.

Powering OFF

Press and hold to power off your phone.

Standby Display

The standby display appears when your phone is on and in an “idle” state. You can return to the standby display at any time (except during a call) by pressing  or by pressing and holding . The backlight turns on automatically for 15 seconds when you power up the phone or when you press any key.



Note: The backlight remains on when the phone is plugged into a DC Adapter.

Moving through the Menu

You access the Main Menu from the standby display:



MENU is displayed on the bottom left side of the display. To access the Main Menu, press the corresponding softkey () on the keypad just below where **MENU** is displayed. After entering the Main Menu, press either softkey ( or ) to select the options displayed above them.

Within the menu, the selected feature or function is indicated by an arrow (). Use the navigation key scroll areas as described in the table on *page 11*.

When an option is selected using the softkeys, the display changes to offer another level of softkey options. This process continues until you have responded to all display prompts and options for a particular softkey.

Shortcut Keys

You can quickly access many of the phone's features by pressing shortcut keys instead of scrolling through the numbered options on the display. For a complete list of the shortcut keys, refer to the Menu Map on the inside of the front cover. For example, you can select Key Volume by pressing  (MENU), then press  (Tone Settings) and  (Key Volume).

Setting Date and Time

The standby display shows the current date and time, as well as the day of the week. You can adjust these settings if necessary.



Note: You have the option of turning the Date/Time display **On** or **Off**. See “Date/Time Display” on page 43 for information.

Adjusting Date and Time Settings

- 1 From standby, press (MENU) to enter the Main Menu.
- 2 Scroll to **Phone Settings**. Press (OK).
- 3 Scroll to **Time Settings**. Press (OK).
- 4 Press (OK) to select **Date/Time**.
 - The currently set date and time are displayed with the cursor over the first digit of the month.
 - You can change the date/time by using and to switch between date and time and and to scroll across the digits.
- 5 When the cursor is over a digit you want to change, press the digit key for the number you want in its place.
 - You can switch from AM to PM by pressing when your cursor is on AM or PM on the display.
 - If you enter an invalid date or time, the display prompts you to enter another date/time.
- 6 When you are satisfied with the date/time setting, press (OK).

Changing the Date Format

- 1 From standby, press (MENU) to enter the Main Menu.
- 2 Scroll to **Phone Settings** and press (OK).
- 3 Scroll to **Time Settings** and press (OK).
- 4 Scroll to **Date Format** and press (OK).



- The display lists **MM/DD/YYYY** (American date format) and **DD/MM/YYYY** (European date format).
- You can press the left arrow to go back to the previous screen.

- 5 Scroll to the format you prefer and press (OK).

Selecting 24-hour or 12-hour Mode

- 1 From standby, press (MENU) to enter the Main Menu.
- 2 Scroll to **Phone Settings** and press (OK).
- 3 Scroll to **Time Settings** and press (OK).
- 4 Scroll to **24/12 Mode** and press (OK).
 - The 24/12 Mode menu is displayed
- 5 To change the current mode, scroll to the other option and press (OK).

Setting Ring Volume

You can adjust the volume of your phone's ring. (See "Alert Mode" on page 44 for more information about using your phone in special situations such as meetings and theaters.)

- 1 From standby, press  (MENU) to enter the Main Menu.
- 2 Scroll to **Tone Settings** and press  (OK).
- 3 Press  (OK) to select **Ring Volume**.
 - The display shows the current ring volume setting.
- 4 Press  to increase ring volume, or  to decrease volume.
 - A sample of the current ring tone is emitted and the display indicates the current ring volume setting.
 - If you select the lowest setting, the ring volume is muted (silent).
- 5 When you reach an acceptable ring volume, press  (OK).



Note: When the volume is set to muted (silent), the  icon is displayed.

Selecting a Ring Alert

You have the option of selecting from several different ring alerts.

- 1 From standby, press  (MENU) to enter the Main Menu.
- 2 Scroll to **Tone Settings** and press  (OK).
- 3 Scroll to **Ring Alert** and press  (OK).
- 4 Scroll to the ring alert type you want to select and press  (OK).
 - If you select **General Rings**, you can choose from six different rings. As you scroll through the rings, you can hear the ring associated with each ring number. When you hear the ring you want, press  (OK).
 - If you select **Preset Melody**, you can choose from ten melodies. As you scroll through the list, the melodies are played. When you hear the melody you want, press  (OK).



Note: When selecting a new ring alert, you will not be able to hear the sample ring or melody if ring volume has been muted or if you are in a conversation.

Vibration Alert

In addition to alerting you with a ring, your phone can alert you to incoming calls by vibrating. This feature is useful for when you are in a meeting, at the movies, or at a concert, when an audible ring might be disturbing to others.



To ensure that you do not disturb anyone, you should also mute the ring volume of your phone (see "Setting Ring Volume" on page 14).

- 1 From standby, press  (MENU) to enter the Main Menu.
- 2 Scroll to **Tone Settings** and press  (OK).

- 3 Scroll to **Vibration** and press  (OK).



- If selected, the vibration alert icon () appears on the display.

- 4 To change the setting, scroll to the other option and press  (OK).

Using the Private Handsfree Headset

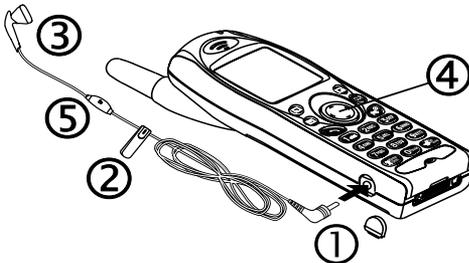
When the Private Handsfree Headset is plugged into the phone, you can have a phone conversation without holding the phone to your ear. The other person's voice is heard through the Private Handsfree Headset's earpiece. When you speak, your voice is picked up by the Private Handsfree Headset's microphone.



Note: Before attaching the Private Handsfree Headset, remove the plug from the headset/TTY connector at the bottom left side of your phone. Store the plug in a safe place so you will be able to cover the connector when necessary.

Attach the Private Handsfree Headset to your phone as shown.

- 1 Securely plug the Private Handsfree Headset jack in the side of the phone. This will automatically disable the speaker and microphone in the phone.
- 2 Attach the Private Handsfree Headset clip to your clothes.
- 3 Insert the earpiece into your ear.
- 4 During conversation, increase or decrease volume to a comfortable level by pressing  or  on the phone's center navigation key.
- 5 The microphone picks up your voice from its hanging position.



Note: Once the Private Handsfree Headset is connected, you can customize the ring volume, key volume, and voice volume settings for handsfree use. Ring volume and key volume can be changed in the Tone Settings menu. Voice volume can be customized during conversation as indicated above. When you disconnect the Private Handsfree Headset, your phone will go back to the settings programmed for standard handheld use.



Caution: The use of an ear insert device while driving may violate the laws of some states/provinces. Be sure to check applicable state/provincial laws before using this device.

Everyday Operations

3

Your phone comes with a variety of features. In most cases, however, you will use only some of these features on a daily basis. This chapter will familiarize you with most of those “everyday” operations. Descriptions of more advanced features are covered in additional chapters.

Placing Calls

To place a call, power on your phone and confirm that you have a strong signal indication. If you are in a digital service area, the  icon appears.

Dialing from the Keypad

- 1 From standby, enter the phone number (up to 32 digits).
- 2 Press  to place the call.



Caution: During a call, if you press and hold , the speakerphone feature is activated. Do not hold the phone next to your ear when the speakerphone is activated.



Note: You cannot switch to the Speakerphone if any digits or letters are on the display. Clear the display before trying to activate the Speakerphone.

- If the outgoing phone number matches an entry in the Phonebook, the corresponding name is also displayed with the number.
- 3 When the call connects, **Voice Call** is displayed.



- The call timer is displayed if the **Current Call** timer is on. (See “*Call Timers*” on page 40 for more information.)

- 4 Press  to end the call.

Dialing from the Phonebook

To use Super Dial and Speed Dial, you must first program entries into the Phonebook. See *Chapter 5, “Phonebook Features”*.

- 1 From standby, press  or  to scroll through the Phonebook entries.



- Depending on your phone’s search method setting, the display shows entries alphabetically by first or last name, or by memory location number. To change, see “*Selecting a Phonebook Search Method*” on page 34.
- To “jump” to a specific section of the alphabet, press the number key that has the corresponding letter on it.

- 2 When the arrow points to the entry you want, press  (VIEW) to view the Phonebook entry.
- 3 Press  or  to scroll to the appropriate phone number and press  to place the call.

Dialing a Phonebook Entry from the Menu

- 1 From standby, press  () to enter the Phonebook.
- 2 Scroll to **Search** and press  (OK).
 - Depending on your phone's search method setting, the display prompts you to enter **First Name**, **Last Name**, or **Location #**. (To change the search method setting, see "Selecting a Phonebook Search Method" on page 34.)
- 3 Enter the name, a portion of the name, or the memory location number and press  (FIND or OK).



Note: If you do not enter anything for the first or last name, the display goes to the first letter of the alphabet for which you have a Phonebook entry.

- 4 If needed, press  or  to scroll to the number you want to call.
 - When the list of names appears, the following indicates there is no name entry for a number saved in the Phonebook: "----,----".
- 5 When the arrow points to the entry of your choice, press  (VIEW) to view the Phonebook entry.
- 6 Press  or  to scroll to the phone number you want to call, and press  to place the call.

Super Dial

Super Dial lets you quickly dial a phone number by pressing and holding a digit key on your keypad. Before you can use Super Dial, you must create entries in your Phonebook and then assign them to Super Dial keys. See "Creating a Super Dial Entry" on page 32.



Note: When you purchase your phone, the  key is programmed as a Super Dial key to call the emergency number 911. However, you have to enable this key assignment before you can use it. See "Emergency Call" on page 47. When Emergency Call is disabled (set to Off), you can assign  as a Super Dial key for a number in your Phonebook. **You should always be aware of whether Emergency Call is set to On or Off.**

- 1 From standby, press and **hold** the key ( - ) you have assigned to a number in your Phonebook.
 - The number is dialed and the name is displayed as it is listed in your Phonebook entry.
 - If there is no phone number assigned to the digit key, **Super Dial Not Assigned** is displayed.

Speed Dial

To call a Speed Dial number directly from standby (without going to a menu), enter the memory location number that contains the phone number you want to call, and press .



Note: If Emergency Call is set to On (see “Emergency Call” on page 47) and you press  and , the emergency number 911 will be called.

To view a Speed Dial number before placing the call, follow these steps:

- 1 From standby, enter the memory location number that contains the phone number you want to call, then press . (For example, to dial a number stored in location 25, press   .)



- If the entered memory location is empty, the display shows the entered digits and the # sign. Press  briefly to return to standby.

- 2 Scroll to the Speed Dial number (or to another number in that location) and press  to place the call.

Answering Calls

The phone must be on to receive calls. It will not ring or vibrate when powered off.

When a call is received, the phone rings and/or vibrates.



- If you have Caller ID, the caller's phone number is displayed under **Incoming Call**.
- If the caller's phone number matches an entry in the Phonebook, the corresponding name appears and the backlight changes color (unless the call was placed through a PBX).

- 1 To answer, press  or any key except . (See “Answer Key Options” on page 22.)
 - Quickly pressing  will stop the ringing and/or vibration alert, but not answer the call.
- 2 When you are ready to end the call, press .

In-Call Features

While you are in a call, several useful features are available:

- Adjusting Voice Volume (see *page 20*)
- Viewing Your Own Phone Number During a Call (see *page 20*)
- Muting the Mouthpiece (see *page 20*)
- Using the Display as a Scratchpad (see *page 21*)
- Turning the Speakerphone On and Off (see *page 21*)

Adjusting Voice Volume

- 1 During a call, press  to increase the volume of the other person's voice, or press  to decrease the volume of the other person's voice.



- The volume level is displayed.

- 2 Release the key when a satisfactory volume is reached.

Viewing Your Own Phone Number During a Call

During a call, you can view your own phone number.

- 1 During a call, press  (MENU) to enter the Main Menu.
- 2 Scroll to **Phonebook** and press  (OK).
- 3 Scroll to **Own Number** and press  (OK) to view your phone number.



- 4 Press  (OK) and the display returns to standby.



Note: If your phone is programmed with more than one phone number, only the number currently being used is displayed.

If you would like to have a second phone number programmed for your phone, contact your wireless service provider.

Muting the Mouthpiece

- 1 During a call, press  (MUTE) to mute the mouthpiece (microphone).
 - The display indicates when the mouthpiece is muted.
 - When the mouthpiece is muted, you can still hear the person you are talking with, but they cannot hear you.
- 2 Press  (UNMUTE) to unmute and resume conversation.

Using the Display as a Scratchpad

This feature allows you to enter a phone number on your phone's display during a call. You can enter up to 32 digits. After ending the call, you can dial the number on the display or save the entry in the Phonebook.

- 1 During a call, enter numbers by pressing the keys on your keypad.



- 2 After the call ends, the phone number remains on the display.
- 3 Press to call the number on the display.
OR
Press (SAVE) to save the number in the Phonebook. (See "Saving a Displayed Phone Number" on page 33 for more information.)

Turning the Speakerphone On and Off

You can talk on your phone without having to hold the phone to your ear.



Caution: Do not hold the phone next to your ear when the Speakerphone is activated.

- 1 During a call, press (MENU) to enter the Main Menu. Press (OK) to select **Speakerphone**.

OR

During a call, press and hold to turn on Speakerphone.

- The display indicates **Speakerphone Set to On**.



Note: When dialing a Speed Dial number with Pauses or Waits embedded, the Speakerphone will not turn on until the Pause or Wait commands have completed.

- 2 To turn off the Speakerphone during a call, press (MENU) to enter the Main Menu and press (OK).

OR

Press and hold .

Ending the call also turns off the Speakerphone.



Note: Do not use the Speakerphone as a substitute for the Handsfree Car Kit (EB-HF300EZ) or when in environments with high ambient noise.

Missed Calls

If an incoming call is not answered, **Missed Call** is displayed.



- 1 Press  (VIEW) to view the phone number and the time of the missed call.
 - If the caller's phone number matches an entry in the Phonebook, the corresponding name is also displayed (unless the call was placed through a PBX).
- 2 Press  or  to scroll through the phone numbers of the last 10 missed calls.
- 3 Press  to call the selected phone number.



Note: You can view the last 10 missed calls at any time, by selecting Call History from the Main Menu. You can also press  from the standby screen and scroll to the right or left to view your missed calls. Phone numbers of missed calls are displayed only if you have subscribed to Caller ID through your wireless service provider.

Answer Key Options

You can answer your phone by doing either of the following:

- By pressing any key except  (this is the default).
- OR**
- Only by pressing .
- 1 From standby, press  (MENU) to enter the Main Menu.
 - 2 Scroll to **Phone Settings** and press  (OK).
 - 3 Scroll to **Answer Key** and press  (OK).
 - You can choose **Any Key** or **SEND Key**.
 - 4 To change the setting, scroll to the other option and press  (OK) to select.



Note: Call Waiting can be answered *only* by pressing  or  (ACCEPT), regardless of the **Answer Key** setting.

Voice Mail



Note: You must subscribe to voice mail through your wireless service provider before you can retrieve voice mail messages. To check if voice mail has been programmed, press and hold . If the display indicates that the Voice Mailbox number is empty, voice mail has not been programmed. Contact your wireless service provider for programming instructions. (Refer to *Chapter 7, "Service Provider Features"* for information about additional service provider features.)

Listening to New Voice Mail

- 1 When a new voice mail message is received, an alert sounds and  appears on the top of the display.



- The display indicates the number of new voice mail messages.
-  remains on the display until you have listened to all your voice messages.

- 2 Press  (LISTEN) to automatically dial your voice mail number.
OR

From the standby display, press and hold  until it calls your voice mailbox.



Note: If the display indicates that your voice mailbox is empty or the number is not valid, contact your wireless service provider.

- 3 Follow the recorded instructions for your voice mail.
- 4 Press  to return to standby when you are finished retrieving your voice mail messages.

Redialing Numbers

You can easily redial any of the last 10 numbers dialed from your phone. Or, when a system busy signal occurs, your phone can automatically redial the number you are attempting to call.

Redialing One of the Last 10 Numbers Dialed

- 1 From standby, press  to view the last 10 dialed phone numbers.



- If a dialed number matches an entry in the Phonebook, the corresponding name is also displayed.
- Press  to view received messages and  to view missed messages.

- 2 Press  or  to scroll through the numbers.
- 3 Press  to place the call.

Automatic Redial

If a call cannot be completed because of a system busy error (or other system problem), your phone can automatically redial the number for you.

- 1 If your call cannot be completed because of a system error, wait until **Automatic Redial?** is displayed.



Note: Automatic Redial? is displayed only when your call cannot be completed because of a system busy error or some other system problem. **Automatic Redial?** is not displayed if the called number is busy because the person you are calling is using the phone.

When your phone is connected to the Private Handsfree Headset or an optional Handsfree Car Kit, the phone will automatically redial without prompting for an answer to **Automatic Redial?**

- 2 Press (YES) to automatically redial the number.
 - The phone automatically redials the number up to 15 times or until the call connects.
 - An alert tone sounds when the call connects.
 - You can press at any time to cancel the automatic redial.

OR

Press (NO) to return to standby.

Key Lock

This feature lets you lock the keypad to prevent your phone's keys from being pressed accidentally. You can still receive calls by pressing any key except or by pressing , if you have selected this as your answer key (see "Answer Key Options" on page 22). You can place emergency (911) calls even when the key lock is on.

Turning On Key Lock

- 1 From standby, press and hold (MENU).
 - The display indicates that the key lock is set to On.
- 2 Press any key or wait 3 seconds to return to standby.

Turning Off Key Lock

- 1 From standby, press (UNLOCK).
- 2 When the display asks whether you would like to **Unlock Keypad?**, press (YES).
 - The keypad is unlocked.

Text Entry Operations

4

Whenever you store an entry in your Phonebook, compose or reply to a message, or create reminders, you use the phone's keypad to enter the text. There are two methods for entering text:

- Letter Entry (ABC)
- Word Entry (Word T9®)



Note: To change your text entry mode, press when **ABC**, **abc**, **NUM**, **SYM**, **WordT9**, **wordT9**, or **WORDT9** is displayed.

Letter Entry

Letter Entry (ABC) mode is the traditional method of entering text in mobile phones. This method is best for names of people or places.

Using Letter Entry (ABC) Mode

You are in Letter Entry mode when **ABC** or **abc** is displayed in the bottom right corner. The default for Letter Entry is uppercase (**ABC**). To switch between uppercase and lowercase, press .

When using Letter Entry mode, press a key once to enter the first letter on the key, press the key twice to enter the second letter on the key, and so on. For example, press once for the letter "D", press twice for the letter "E", and so on.



- Press once to delete the last-entered character. Press and hold to delete the entire entry.
- Press or to scroll across characters, to move to the next character space, or to add a blank space.

For a complete list of characters, see the *Key Entry Table on page 27*.

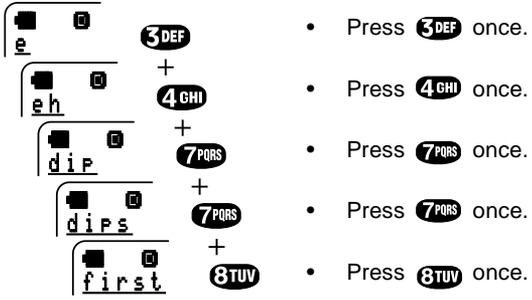
Word Entry (Word T9) Mode

Word Entry (Word T9) mode allows you to quickly type text with the aid of a built-in dictionary. When you press the key that corresponds to the character needed just once, the built-in dictionary suggests probable word choices.

Using Word Entry (Word T9) Mode

You are in Word Entry (Word T9) mode when **WordT9**, **wordT9**, or **WORDT9** is displayed in the bottom right corner. To select one of the Word Entry modes, press **[Mode]** until the appropriate mode is displayed. Once in Word Entry mode, you can switch between initial capitals, uppercase, and lowercase by pressing **[Shift]**.

For example, to enter the word “first” in Word Entry mode:



The word “first” should appear on the screen.

Keep in mind...

- As letters are entered, the dictionary displays probable words. Several different words can appear on the display during the entering process. Don't be distracted by the words displayed—they may not resemble your intended word. Just keep typing until you see the word you want.
- If the word displayed when you have finished entering the letters does not match your intended word, press **[Left Arrow]** to scroll through other words with the same key sequence.
- Press **[OK]** to select the word; press **1 [Left Arrow]**, or **[Right Arrow]** to move to the next word.
- Press **[OK]** a second time to return to the Compose menu.
- Press **CLR** once to delete the last-entered character. Press and hold **CLR** to delete the entire entry.
- The **1 [Left Arrow]** key enters a space only.



Note: If you have changed your phone's language option, the Word Entry dictionary changes to agree with the selected language.

Numbers (NUM) Mode

You are in Numbers mode when **NUM** is displayed in the bottom right corner. Use Numbers mode to insert numbers in a text entry. To select Numbers mode, press  until **NUM** appears. Then key in the required number.

Symbols (SYM) Mode

You are in Symbols mode when **SYM** is displayed in the bottom right corner. To select Symbols mode, press  until **SYM** appears.

Each number key is associated with several symbols. To select a specific symbol, enter the corresponding number on the keypad. To scroll through additional screens of symbols, press , , or . The following table shows the letters, numbers, and symbols associated with each keypad key.

Key Entry Table

Key	Mode						
	Letter entry ABC	Letter entry abc	NUM	SYM			
				Screen 1	Screen 2	Screen 3	Screen 4
	␣(space)1*		1	.	*	=	~
	ABC2	abc2	2	,	-	%	^
	DEF3ÉÈ	def3èè	3	;	_	\$	^
	GHI4	ghi4	4	:	(<	
	JKL5	jkl5	5	?)	>	\
	MNO6	mno6	6	!	'	{	
	PQRS7	pqrs7	7	@	"	}	
	TUV8	tuv8	8	/	&	[
	WXYZ9	wxyz9	9	#	+]	
	0	0	0	N/A			
	Switches between uppercase and lowercase		N/A	Moves to next Symbol display			
	.,'&()@/:?	.,'&()@/:?		N/A			

* Press  to enter a space or press  twice to enter a "1".

Phonebook Features

5

The Phonebook has 100 memory locations. In each location you can store a first and last name, up to four associated phone numbers, an email address, and a distinctive ring tone. You can also associate a backlight color with the entry. If a caller's phone number matches an entry in the Phonebook, the corresponding name is displayed and the backlight changes color (if you have specified a different color than the standby color in that caller's Phonebook entry.)

This chapter contains information about creating, saving, searching, and accessing your Phonebook entries. For an overview of how to move through the menus and use the shortcut keys, see *Chapter 2, "Getting Started"*.



Note: You can also create Phonebook entries on a PC, using a synchronization software application, and then transfer the entries to your phone via the data cable (see "*EB-TX320 Accessories*" on page 69). For a list of compatible phonebook synchronization software suppliers, visit our website at: <http://www.panasonic-club.com>.

Assigning Your Own Favorite Number

Your EB-TX320 phone comes with a favorite number key, located at the top right-hand side of your phone. AT&T Wireless #121 service has been pre-programmed as your favorite number—you can request and hear directions, stock quotes, movie reviews, sports, weather, and news over your Panasonic wireless phone. With AT&T Wireless #121 service, you can keep up-to-date on the latest information when you're on the go.

If you want, you can change the Favorite Number key to call your own favorite number.

1 Press  ().

OR

Press  (MENU) and  (OK).

- The Phonebook menu is displayed.

2 Press  to select **Favorite Num.**

- The Favorite Number screen shows the name of the currently assigned Favorite Number.

3 Press and hold  to erase the name, then enter your new name and press  (OK).

4 Press and hold  to erase the number, then enter the phone number you want to assign to the Favorite Number key and press  (OK).

- Your new name and number replace the previous assignment.

Creating a Phonebook Entry

- 1 From standby, press  () to enter the Phonebook.
- 2 Scroll to **Create** and press  (OK).
 - For each entry, you can enter any or all of the following information:

First: (name)	Enter the first name here.
Last: (name)	Enter the last name here.
 : Home Phone	Enter the home number here.
 : Work Phone	Enter the work phone number here.
 : Cell Phone	Enter the cell phone number here.
 : Other #	Enter an alternate phone number here.
 : Speed Dial	Select the source to be used as the speed dialing number. See <i>"Speed Dial" on page 19</i> .
 : Email Address	Enter the Email address here. See <i>"Text Messaging" on page 54</i> .
 : Special Ring	Select one of the Ring Alerts for when this person calls you. See <i>"Selecting a Ring Alert" on page 14</i> .
 : Backlight	Select one of the backlight colors to flash when this person calls. See <i>"Backlight" on page 42</i> .
 : Birthday	Enter the person's birthday, or any other special day, here. You can also set an alarm to remind you of the birthday (or other special occasion).
 : Location #	The location in memory where this entry is stored. Used for Speed Dialing.
 - If all memory locations are full, **Phonebook Full** is displayed. You must delete an entry before adding another one. See *"Editing/Deleting a Phonebook Entry" on page 33* for more information.
 - If the special ring tone is set to **Current**, the phone will ring as set in the Ring Alert menu (see *"Selecting a Ring Alert" on page 14*).



- 3 Scroll to the appropriate item and press  (SELECT).
- 4 Enter the required information.
 - To enter text or symbols, refer to *Chapter 4, "Text Entry Operations"*.
 - To delete an entered character, press  briefly.
 - To delete an entire line, press and hold .
 - "----,----" indicates that you did not enter a name for that phone number.

- When entering numbers in the Phonebook, do not try to enter dashes or parentheses as generally shown in listings of phone numbers. Enter only the digits.
- 5 Press  (OK) when you complete the information.
 - 6 If you need to add more information, repeat steps 3 through 5 until the entry is complete.
 - 7 To save the entry in memory, press  to scroll to #: [] and press  (SELECT).



- 8 Press  (ANY) to save the entry in the first available location.
OR
 Enter a number between 1 and 100 to save the entry at a specific location number.
 - To determine which location numbers are available, press  (MAP). A period "." indicates that the location is already being used. For example, in the following display, locations 1, 3, 9, 12, 13, 14, and 25 are being used. The remaining location numbers are available. Press  (BACK) to enter the preferred memory location number. After entering a number, press  (OK).



- 9 When you are finished, press  (FINISH).
 - The display asks if you want to save the entry.
- 10 Press  (YES) to save.
 - If you have not entered a memory location number, the phone automatically assigns the first available location and displays it for you.
 - If you entered a location number that is already being used, the display asks if you want to overwrite the previously saved entry. For example, the display shows, **Overwrite John Smith?**
 Press  (NO) to enter a different location number. Or, press  (YES) to overwrite (delete) the information that was previously saved in that location.

OR

Press  (NO) to delete your entry and return to standby.

Creating a Super Dial Entry

Super Dial quickly dials a phone number when you press and hold a digit key that you have assigned to a number saved in your Phonebook. You can create nine Super Dial entries, one for each of the digit keys (1 – 9WXYZ) on your keypad.

- 1 From standby, press  () to enter the Phonebook.
- 2 Scroll to **Super Dial** and press  (OK).
 - The key assignment list is displayed. The first time you do this, the keys  through  are listed as Not Assigned.



Note: To assign the  key as the emergency call number 911, you have to enable **Emergency Call**. See “*Emergency Call*” on page 47 for instructions on how to do this.

- 3 Scroll to the digit key you want to assign and press  (ASSIGN).
 - A list of the names in your Phonebook is displayed.
- 4 Scroll to the name you want to create a Super Dial entry for and press  (OK).
 - A list of the phone numbers for that name is displayed: ( Home phone,  Work phone,  Cell phone, and so on).
- 5 Scroll to the number you want to use for the Super Dial entry and press  (OK).
 - The key assignment list is displayed showing the name and digit key assignment you created.
- 6 To create another Super Dial entry, repeat steps 3 through 5.

OR

To return to the Phonebook menu, press  (BACK).

Changing or Deleting a Super Dial Entry

- 1 From standby, press  () to enter the Phonebook.
- 2 Scroll to **Super Dial** and press  (OK).
 - The key assignment list is displayed.
- 3 Scroll to the entry you want to change or delete and press  (ASSIGN).
- 4 To change the entry, press  (OK).
 - The Phonebook is displayed and you can select another phone number for the key.

OR

To delete the entry, scroll to **Delete** and press  (OK).

Confirm the deletion by pressing  (YES), or cancel it by pressing  (NO).

Programming Pauses or Waits

This feature is useful when you are placing a call that requires entry of additional digits once the call connects (for example, you may have to enter a password or PIN to access your voice mail).

- 1 Enter the phone number.
- 2 To enter a Pause or Wait time, press and hold  until a **P** or a **W** appears after the entered phone number.
 - If you program a Pause (**P**), the digits following it are automatically transmitted during a call after a two-second delay.
 - To program more than a two-second Pause, enter multiple **Ps**.
 - If you program a Wait (**W**), the digits following it are not transmitted during a call until you press  or  (SEND).
- 3 Continue to enter digits, Pauses, and Waits as needed.



- In this sample display, the first seven digits are the phone number to dial. The **W** (Wait) indicates that the phone will wait until you press  to transmit the digits "901". The **P** (Pause) indicates that the phone will then automatically transmit "3456" two seconds after "901" is transmitted.

- 4 Press  to place the call.

OR

Press  (SAVE) to save the entry into the Phonebook. (See the following section, "Saving a Displayed Phone Number", for more information.)

Saving a Displayed Phone Number

- 1 When a phone number is displayed, press  (SAVE).
 - You can save the number as:  **Home #**,  **Work #**,  **Cell #**, or  **Other #**.
- 2 Scroll to the applicable phone number type and press  (OK) to store the phone number.
- 3 To enter additional information and to save your phone number, continue with step 3 in "Creating a Phonebook Entry" on page 30.

Editing/Deleting a Phonebook Entry

- 1 From standby, press  () to enter the Phonebook.
- 2 Scroll to **Search** and press  (OK).
 - Depending on your phone's search method setting, the display prompts you to enter **First Name**, **Last Name**, or **Location #**. (To change the search method setting, see "Selecting a Phonebook Search Method" on page 34.)
- 3 Enter the name, a portion of the name, or the memory location number and press  (FIND or OK).



Note: If you do not enter anything for the first or last name, the display goes to the first letter of the alphabet for which you have a Phonebook entry.

- 4 Press or to scroll to the entry you want to edit or delete.
- 5 Press (OPTION).



- You have the option to **Edit** the entry, delete all of the information in that memory location (**Delete Entry**), or **Exit** and return to standby.

- 6 Scroll to the action you want to perform, and press (OK).
 - If you select **Edit**, all stored information for the entry is displayed. Scroll to the information you want to edit, press (SELECT), and enter the change. Press (OK). Repeat until all necessary changes have been made.
 - If you select **Delete Entry**, the display asks if you want to delete the displayed entry. Press (YES) to delete or press (NO) to cancel the deletion.
 - If you select **Exit**, the display returns to standby.
- 7 Press (FINISH).
- 8 Press (YES) to save the change.
 - The display asks if you want to overwrite the previously stored information. Press (YES) again to overwrite the information and return to standby. Or, press (NO), select a new location number, and press (OK) to return to standby.

OR

Press (NO) to return to standby without saving changes.

Selecting a Phonebook Search Method

Setting the **Search Method** allows you to determine how your phone searches for information stored in the Phonebook. You can set your phone to search for entries by first name, last name, or memory location number.

- 1 From standby, press () to enter the Phonebook.
- 2 Press to scroll to **Search Method** and press (OK).



- You have the option of setting your phone to search for an entry by **First Name**, **Last Name**, or memory **Location #**.

- 3 Press or to scroll to the appropriate setting.
- 4 Press (OK) to save.

Displaying Your Own Number

Your phone can have up to two cellular phone numbers (programmed by your wireless service provider). You can select either phone number to make or receive a call.

- 1 From standby, press  () to enter the Phonebook.
- 2 Press  to scroll to **Own Number** and press  (OK).



- Your current cellular phone number is displayed. (NAM stands for Number Assignment Module. This number is programmed into your phone by your wireless service provider.)



Note: If your phone is programmed with more than one cellular phone number, only the number currently being used is displayed. See “*Selecting Your Phone Number (NAM)*” on page 63 for information on selecting your other phone number.

Deleting All Phonebook Entries



Caution: Think carefully before using this feature! If you delete all your Phonebook entries, it could be very time-consuming to re-create them.

- 1 From standby, press  () to enter the Phonebook.
- 2 Press  to scroll to **Delete All** and press  (OK).
 - The display prompts you to confirm.
- 3 Press  (YES) to delete all Phonebook entries.

OR

 Press  (NO) to cancel the deletion.



Additional Operations

6

Many features and settings are accessible only through the phone's Menu. This chapter will show you how to use your phone's Menu to get the most from these advanced features.

For an overview of how to move through the Menu and how to use the shortcut keys, see "Moving through the Menu" in *Chapter 2* and the Menu Map inside the front cover.

Call History

From the Call History menu you can view and delete information related to calls you have received and placed. You can also reset the timer that monitors the time you spend in conversation on the phone.

Dialed Calls

- 1 From standby, press  (MENU) to enter the Main Menu.
- 2 Scroll to **Call History** and press  (OK).
- 3 Press  (OK) to select **Dialed**.



- The last dialed number is displayed.
- If you place a phone call to a number that is already in your dialed numbers list, the newer call record will replace the older one.
- **Missed** or **Received** calls can be checked by pressing  or .

- 4 Press  or  to scroll through the last 10 dialed numbers.
 - 5 When the number you want to call is displayed, press .
- OR**

Press  (OPTION) to add a prefix, to delete a number, to save a number, or to delete all entries in the list. See "Call History Options" on page 38 for instructions.

Missed Calls

- 1 From standby, press  (MENU) to enter the Main Menu.
- 2 Scroll to **Call History** and press  (OK).
- 3 Scroll to **Missed** and press  (OK).



- The last missed (unanswered) number is displayed (unless the call was from a private or unlisted number).
- If the caller's phone number matches an entry in the Phonebook, the corresponding name appears.
- **Dialed** or **Received** calls can be checked by pressing  or .
- A call from a number that has blocked caller ID is displayed as Private.

- 4 Press  or  to scroll through the last 10 missed calls.
- 5 When the number you want to call is displayed, press .

OR

Press  (OPTION) to add a prefix, to delete a number, to save a number, or to delete all entries in the list. See “Call History Options” on page 38 for instructions.

Received Calls

- 1 From standby, press  (MENU) to enter the Main Menu.
- 2 Scroll to **Call History** and press  (OK).
- 3 Scroll to **Received** and press  (OK).



- The last received (answered) number is displayed.
- If the caller’s phone number matches an entry in the Phonebook, the corresponding name appears.
- If you receive a phone call from a number that is already in your received numbers list, the newer record will replace the older one.
- **Dialed** or **Missed** calls can be checked by pressing  or .

- 4 Press  or  to scroll through the last 10 received calls.
- 5 When the number you want to call is displayed, press .

OR

Press  (OPTION) to add a prefix, to delete a number, to save a number, or to delete all entries in the list. See “Call History Options” on page 38 for instructions.

Call History Options

Adding a Prefix

This feature is useful if you call a local number and then travel to another location (with a different area code) and want to call the same number. You have the option of adding an area code.



Note: If the phone number was originally stored with its area code, the **1** is automatically inserted in front of it. If only the local (7-digit) phone number was stored, you have to add the area code and then the **1** is automatically inserted.

- 1 From standby, press  (MENU) to enter the Main Menu.
- 2 Scroll to **Call History** and press  (OK).
- 3 Scroll to **Dialed**, **Missed**, or **Received** and press  (OK).
- 4 Scroll until the phone number you want to add a prefix to is displayed. Then press  (OPTION).
- 5 Press  (OK) to select **Prefix**.
- 6 Scroll to **Edit Number** and press  (OK).



- 7 Press  repeatedly to position the cursor in front of the phone number and then enter the 3-digit area code.
- 8 Press  (OK) to place the call.

Saving a Number

- 1 From standby, press  (MENU) to enter the Main Menu.
- 2 Scroll to **Call History** and press  (OK).
- 3 Scroll to **Dialed, Missed, or Received** and press  (OK).
- 4 Scroll to the number you want to save and press  (OPTION).
- 5 Scroll to **Save** and press  (OK).
- 6 Scroll to  **Home #**,  **Work #**,  **Cell #**, or  **Other #** and press  (OK).
- 7 To enter additional information, scroll to an item and press  (SELECT).
- 8 Follow the prompts to enter the name and email address. See *Chapter 4, "Text Entry Operations"* for information on entering text.
- 9 After entering the information for one item, press  (OK).
- 10 When you have entered all the information, press  (FINISH).
- 11 When prompted to save the information, press  (YES).

Deleting a Number

- 1 From standby, press  (MENU) to enter the Main Menu.
- 2 Scroll to **Call History** and press  (OK).
- 3 Scroll to **Dialed, Missed, or Received** and press  (OK).
- 4 Scroll to the phone number you want to delete and press  (OPTION).
- 5 Scroll to **Delete Entry** and press  (OK).
- 6 When prompted to confirm, press  (YES) to delete the entry.
OR
 Press  (NO) to cancel the deletion.

Deleting All Entries in a List

- 1 From standby, press  (MENU) to enter the Main Menu.
- 2 Scroll to **Call History** and press  (OK).
- 3 Scroll to **Dialed, Missed, or Received** and press  (OK).
- 4 Press  (OPTION).
- 5 Scroll to **Delete All** and press  (OK).



- The display prompts you to confirm the deletion of all entries.

- 6 Press  (YES) to delete all entries or  (NO) to cancel the deletion.

Call Timers

The **Last Call** and **All Calls** options allow you to see how much time you have spent connected on calls. The **Custom** call option allows you to reset the timer. The **Current Call** option allows you to select whether or not the timer is displayed during a call.

- 1 From standby, press **MENU** (MENU) to enter the Main Menu.
- 2 Scroll to **Call History** and press **OK** (OK).
- 3 Scroll to **Call Timers** and press **OK** (OK).
 - Four options are shown: **Last Call**, **All Calls**, **Custom**, and **Current Call**.
- 4 To view the time you have spent on the **Last Call** or **All Calls**, scroll to your choice and press **OK** (OK) to select.

OR

To view your phone's call timer after the last reset, scroll to **Custom** and press **OK** (OK). After viewing, press **OK** (OK) to return to standby. Or, press **RESET** (RESET), then **YES** (YES) to reset the custom timer.

OR

To determine whether the call timer will be displayed during conversation, scroll to **Current Call** and press **OK** (OK) to select.

- The current setting is displayed with an asterisk (*).

To change the setting, scroll to the other option and press **OK** (OK).

When you select **On**, the timer is displayed whenever you are in a call:



Note: The timers are displayed as hours:minutes:seconds.

When **All Calls** or **Custom** exceeds 999:59:59, the total timer will be reset automatically.



Note: The actual time invoiced for calls by your service provider will vary from the time represented on your call timer. The invoiced time is affected by the number of network features selected, when billing begins and ends, and rounding for billing.

Tone Settings

The Tone Settings menu lets you customize your phone for use in special surroundings, or set the volume and tone of the phone's ring. It also allows you to select a specific alert for the text messages you receive.



Note: When the Private Handsfree Headset is connected, you can customize the ring volume, key volume, and voice volume settings for handsfree use. When you disconnect the Private Handsfree Headset, your phone will go back to the settings programmed for standard handheld use.

Ring Volume

See "Setting Ring Volume" on page 14.

Key Volume

- 1 From standby, press (MENU) to enter the Main Menu.
- 2 Scroll to **Tone Settings** and press (OK).
- 3 Scroll to **Key Volume** and press (OK).
 - The display indicates the current key volume setting.
 - If you select the lowest setting, the key volume is muted (silent); however, DTMF tones are still sent.
- 4 Press to increase key volume. Press to decrease key volume.
- 5 When an acceptable volume is reached, press (OK) to select.

Ring Alert

See "Selecting a Ring Alert" on page 14 for information on how to set your ring alert.

Message Alert

For your message alert you can choose **General Rings** or **Preset Melody** and then select from six general rings or ten melodies. Or, you can choose **None** if you do not want an audible alert when you receive a message.

Selecting a Message Alert

- 1 From standby, press (MENU) to enter the Main Menu.
- 2 Scroll to **Tone Settings** and press (OK).
- 3 Scroll to **Message Alert** and press (OK).
- 4 Scroll to the message alert type you want to select and press (OK).
 - If you select **General Rings**, you can choose from six different rings. As you scroll through the rings, you can hear the ring associated with each ring number. When you hear the ring you want for your message alert, press (OK).
 - If you select **Preset Melody**, you can choose from ten melodies. As you scroll through the list, the melodies are played. When you hear the melody you want for your message alert, press (OK).
 - If you select **None**, you are prompted to confirm that you want no message alert to sound when you receive text messages. Press to confirm.



Note: When selecting a new message alert type, you cannot hear the sample alert if ring volume is muted (silent).

Vibration

See “*Vibration Alert*” on page 14 for information on how to set your ring alert to vibration.

Warning Tone

A warning tone is emitted when the battery charge is low, when attempting to automatically redial a number, and when powering on the phone. The **Warning Tone** setting allows you to turn some warning tones on and off.

You cannot disable or adjust the low battery warning tone. The low battery warning tone sounds even if you are using the phone.

- 1 From standby, press (MENU) to enter the Main Menu.
- 2 Scroll to **Tone Settings** and press (OK).
- 3 Scroll to **Warning Tone** and press (OK).
- 4 To change the setting, scroll to the other option and press (OK) to select.



Note: The low battery warning sounds regardless of **Warning Tone** settings.

If your call cannot be completed because of a wireless system error, you will hear one of the following warning tones:

Warning Tone	Description
Dropped call tone	A slow busy tone sounds when your call drops because of low signal strength or if the other person hangs up.
Reorder tone	A fast busy tone sounds when the cellular system is too busy to complete the call.
Intercept tone	A rapid high/low tone sounds when a call is attempted before service has been established. Before placing a call, confirm that you are within a wireless service provider's coverage area.

Phone Settings

The Phone Settings menu allows you to set specific features according to your own preferences.

Display Settings

Backlight

The backlight color can be set to **Amber, Yellow, Green, Blue, Purple, or Teal.**

- 1 From standby, press (MENU) to enter the Main Menu.
- 2 Press to scroll to **Phone Settings**. Press (OK).
- 3 Press (OK) to select **Display**.

- 4 Press **OK** (OK) to select **Backlight**.



- 5 To change the setting, scroll to another color and press **OK** (OK) to select it.

Display Contrast

The contrast level of the phone's display can be adjusted.

- 1 From standby, press **MENU** (MENU) to enter the Main Menu.
- 2 Press **DOWN** to scroll to **Phone Settings**. Press **OK** (OK).
- 3 Press **OK** (OK) to select **Display**.
- 4 Press **DOWN** to scroll to **Contrast**. Press **OK** (OK).
 - The display indicates the current contrast setting.
- 5 Press **RIGHT** to increase the contrast. Press **LEFT** to decrease the contrast.
- 6 When you see the contrast you want, press **OK** (OK).

Date/Time Display

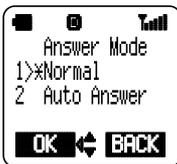
If you prefer, you can turn off the Date/Time display on your standby screen.

- 1 From standby, press **MENU** (MENU) to enter the Main Menu.
- 2 Press **DOWN** to scroll to **Phone Settings**. Press **OK** (OK).
- 3 Press **OK** (OK) to select **Display**.
- 4 Press **DOWN** to scroll to **Date/Time**. Press **OK** (OK).
- 5 Select **On** or **Off** to display or hide the date and time. Press **OK** (OK).

Answer Mode

You can choose how your phone will be answered when you receive a call.

- 1 From standby, press **MENU** (MENU) to enter the Main Menu.
- 2 Press **DOWN** to scroll to **Phone Settings**. Press **OK** (OK).
- 3 Press **DOWN** to scroll to **Answer Mode**. Press **OK** (OK).



- **Normal:** You answer calls by pressing the key you selected on the Answer Key menu. See "Answer Key Options" on page 22.
- **Auto Answer:** Auto Answer functions **only** when the phone is used with the Private Handsfree Headset or with the optional Handsfree Car Kit.

- When Auto Answer is activated, the phone automatically answers an incoming call after 6 seconds.

- 4 To change the setting, scroll to the other option and press **OK** (OK).

Alert Mode

Your phone has two customizable Alert Modes for use in different environments: **Normal** mode for typical environments and **Quiet** mode for use in meetings, restaurants, movies, and so on, where a loud, audible alert would be disturbing. After selecting **Normal** or **Quiet**, you can then individually customize the following settings within each mode from the Tone Settings menu:

In either mode, you can mute all of your phone’s audible features except for low battery tone—the low battery warning sounds, regardless of the settings. Also, the low battery warning tone is not adjustable.



Note: When you purchase your phone, Quiet mode has the following settings: ring and key volume are muted; vibration alert is on; ring and message alerts are set to General ring 1; and warning tones are turned off.

Because you can modify the settings in both Normal mode and Quiet mode, you could change the ring and key volume settings in Quiet mode to maximum volume; change the ring and message alerts to a melody; or turn on warning tones. However,  would still appear on your display. You could also mute ring and key volumes in Normal mode. **Be sure you know which Alert mode you are in when you customize the tone settings.**

You can quickly restore the default settings in both modes to their original values by selecting **Reset Defaults** in the Miscellaneous menu. See “Reset Defaults” on page 48.

To select either **Normal** or **Quiet** mode from standby, press and hold .

OR

- 1 From standby, press  (MENU) to enter the Main Menu.
- 2 Press  to scroll to **Phone Settings**. Press  (OK).
- 3 Press  to scroll to **Alert Mode**. Press  (OK).
- 4 To change the setting, scroll to the other option (**Normal Mode** or **Quiet Mode**) and press  (OK).



• If Quiet Mode is selected,  is displayed.



Note: If you press and hold  during a call, the phone switches to Speakerphone.

Time Settings

Setting Date and Time

See “Setting Date and Time” on page 13.

Setting the Alarm

You can set two types of alarms: a scheduled, one-time alarm or a daily alarm. You can program your phone for up to 10 alarms, each with its own specific message display. Even if your phone is turned off at the time set for an alarm, the phone turns itself on and the alarm is activated. This allows you to reduce battery usage and also use your phone as an alarm clock.



Caution: De-activate any alarms that would sound during the time you are in a place where cellular phone use is prohibited—for example, on an aircraft or in a hospital.



Caution: Do not leave the phone without an attached battery during the time set for an alarm. Doing so could harm the phone’s internal battery.

- 1 From standby, press (MENU) to enter the Main Menu.
- 2 Scroll to **Phone Settings** and press (OK).
- 3 Scroll to **Time Settings** and press (OK).
- 4 Scroll to **Alarm Settings** and press (OK).
 - Alarm 1 is displayed.
- 5 Press or to scroll to a different alarm (10 alarms). When the alarm you want to set is displayed, press (SELECT).
 - The display indicates if the current alarm is set on or off.
- 6 Scroll to the setting you want and press (OK).
 - If you select **On**, the Alarm Type menu is displayed. If you select **Off**, the display returns to standby.
- 7 If you selected **On**, press or to select the alarm type (**Daily** or **One Time**). Press (OK).
- 8 If you selected **Daily**, enter the time in your chosen format (see “Selecting 24-hour or 12-hour Mode” on page 13).

OR

If you selected **One Time**, enter the required alarm date in your chosen format (see “Changing the Date Format” on page 13). Then press and enter the time.

- 9 If necessary, press to move to the AM/PM setting and press (AM/PM) to switch between AM and PM.
- 10 When you have set the time and date, press (OK).
- 11 Press or to select **Preset** or **Custom** from the Alarm Memo display and press (OK).
 - If you selected **Preset**, press or to select one of the following preset messages to be displayed when the alarm goes off:

Wake-up Call	Meeting	Pick Up
Reminder	Make Call	Special Day
Appointment	Take Medicine	Meal Time

- If you selected **Custom**, enter the message (16 characters or less) to be displayed when the alarm goes off. See *Chapter 4, "Text Entry Operations"* for details about entering text.
- 12 Once you have selected or entered the message to be displayed with the alarm, press **OK** (OK).
- The alarm icon is displayed.



Note: If the phone is turned off at the time set for the alarm, the phone turns on and the alarm is activated. The phone remains on until you turn it off.

The alarm alert lasts for 40 seconds. To stop the alarm, press any key. To clear the message from the display, press **OK** (OK). (Pressing **SEND** or **CLR** does not clear the message from the display.)

Answer Key

Choosing which key to use for answering your phone is described in "Answer Key Options" on page 22.

Creating a Welcome Screen

You can create a personalized message (up to 64 characters, including spaces) to be displayed briefly whenever you turn your phone on.

- 1 From standby, press **MENU** (MENU) to enter the Main Menu.
- 2 Scroll to **Phone Settings** and press **OK** (OK).
- 3 Scroll to **Welcome Screen** and press **OK** (OK).
- 4 Scroll to **On** and press **OK** (OK).
- 5 To delete the current message, if any, press and hold **CLR**.
- 6 Enter a new Welcome Screen message. See *Chapter 4, "Text Entry Operations"* for details about entering text.
- 7 When the message is complete, press **OK** (OK).

Selecting Another Language

You have the option of setting your phone so that the displayed language is English, Spanish, or French.

- 1 From standby, press **MENU** (MENU) to enter the Main Menu.
- 2 Scroll to **Phone Settings** and press **OK** (OK).
- 3 Scroll to **Language** and press **OK** (OK).



- 4 To select another language, scroll to the language of your choice and press **OK** (OK).



- The display confirms the new language setting then returns to standby in the language you selected.
- All menu options and displayed words appear in the selected language.
- The phone's internal dictionary (used in WORD T9 Mode — see *Chapter 4* for information on WORD T9) also changes to the selected language.

Miscellaneous Menu

Model Type

To find out which model type your phone is, follow these steps:

- 1 From standby, press (MENU) to enter the Main Menu.
- 2 Scroll to **Phone Settings** and press (OK).
- 3 Scroll to **Miscellaneous** and press (OK).
- 4 To select **Model Type**, press (OK).
- 5 Press (OK) to return to standby.

Emergency Call



Note: When you purchase your phone, the Emergency Call feature that lets you call 911 by simply pressing and holding is disabled. You have to enable this key assignment before you can use it.

To enable the key emergency number assignment, follow these steps:

- 1 From standby, press (MENU) to enter the Main Menu.
- 2 Scroll to **Phone Settings** and press (OK).
- 3 Scroll to **Miscellaneous** and press (OK).
- 4 Scroll to **Emergency Call** and press (OK).



- The display shows that the Emergency Call key assignment is **Off**.

- 5 Press to scroll to **On** and press (OK).
 - The display confirms the change and you can now call the emergency number 911 by pressing and holding .

TTY Mode

TTY Mode allows a hearing-impaired person to use the phone by connecting a TTY device.

When TTY Mode is set to **On**, *any* accessory that is connected through the headset/TTY connector on the lower left-hand side of the phone is treated as a TTY device.

When TTY Mode is set to **Off**, any accessory that is connected through the headset/TTY connector is treated as a headset (handsfree device).

- 1 From standby, press  (MENU) to enter the Main Menu.
- 2 Scroll to **Phone Settings** and press  (OK).
- 3 Scroll to **Miscellaneous** and press  (OK).
- 4 Scroll to **TTY Mode** and press  (OK).
- 5 To change the TTY Mode, scroll to the other option and press  (OK).

DTMF Duration

The tone you hear when you press a key on your keypad is called a “DTMF” tone. Most phone services and answering machines require the phone to transmit this tone when a digit key is pressed. This menu setting allows you to shorten or lengthen the time the tone is emitted. DTMF tones are transmitted even when key tones are turned off.

- 1 From standby, press  (MENU) to enter the Main Menu.
- 2 Scroll to **Phone Settings** and press  (OK).
- 3 Scroll to **Miscellaneous** and press  (OK).
- 4 Scroll to **DTMF Duration** and press  (OK).



- 5 To change the DTMF setting, scroll to the other option and press  (OK).

Reset Defaults

When you select **Reset Defaults** on the Miscellaneous menu, any of your phone's settings that you have modified are restored to their original values (that is, to the settings that were in effect when you purchased your phone).



Note: None of your Phonebook entries are changed.

- 1 From standby, press  (MENU) to enter the Main Menu.
- 2 Scroll to **Phone Settings** and press  (OK).
- 3 Scroll to **Miscellaneous** and press  (OK).
- 4 Scroll to **Reset Defaults** and press  (OK).
- 5 When prompted, enter your lock code and press  (OK).
- 6 Press  (YES) to confirm the reset.

The following table lists the default values for your phone. The tone settings reflect the default settings for handheld and handsfree use.

Note: Depending on your wireless service provider, some of your default settings may be different from those shown in the table.

Phonebook	Default Setting		See ...
Search Method	By Last Name		<i>page 34</i>
Default Setting			
Tone Settings	Normal Mode	Quiet Mode	See ...
Audio (Voice) Volume	Level 3	Level 3	<i>page 20</i>
Ring Volume	Level 3	Level 0	<i>page 14</i>
Key Volume	Level 3	Level 0	<i>page 41</i>
Ring Alert	General ring 1	General ring 1	<i>page 14</i>
Message Alert	General ring 1	General ring 1	<i>page 41</i>
Vibration	Off	On	<i>page 14</i>
Warning Tone	On	Off	<i>page 42</i>
Phone Settings	Default Setting		See ...
Display			
Backlight	Green		<i>page 42</i>
Contrast	Level 3		<i>page 43</i>
Standby Screen	Date/time set to On		<i>page 43</i>
Answer Mode	Normal		<i>page 43</i>
Alert Mode	Normal		<i>page 44</i>
Time Settings			
24/12 Mode	12 hour		<i>page 13</i>
Date Format	MM/DD/YYYY (American date format)		<i>page 13</i>
Answer Key	Any key (except )		<i>page 22</i>
Welcome Screen	On		<i>page 46</i>
Language	English		<i>page 46</i>
Miscellaneous			
Emergency Call	Off (pressing and holding  will not call 911)		<i>page 47</i>
TTY Mode	Off		<i>page 47</i>
DTMF Duration	Long		<i>page 48</i>
Security	Default Setting		See ...
Call Lock			
Incoming Calls	Unlock		<i>page 51</i>
Outgoing Calls	Unlock		<i>page 51</i>
Power-On Lock	Off		<i>page 52</i>
System Settings	Default Setting		See ...
Network			
Voice Privacy	Off		<i>page 63</i>
NAM Selection	NAM1		<i>page 63</i>
Search	Normal		<i>page 64</i>
SVC Priority	Default		<i>page 64</i>

Security Options

The Security Options menu allows you to place restrictions on several of your phone's functions. Options include locking specific features, limiting the types of calls that can be placed and received, and setting your phone so that it automatically locks whenever powered off. A lock code is necessary to activate these features. Panasonic recommends changing the preset lock code, which is in effect when you purchase your phone, to a code of your own.



If you ever misplace or forget your lock code — and your phone is locked — contact your wireless service provider.



Remember that emergency (911) calls can be placed from your phone even when security features are selected and activated.

Changing Lock Code

- 1 From standby, press (MENU) to enter the Main Menu.
- 2 Press to scroll to **Security** and press (OK).
- 3 Press (OK) to select **Lock Code**.



- 4 Enter the four-digit lock code (enter **1234** if you have never changed your lock code) and press (OK).
- 5 When prompted, enter a new four-digit lock code and press (OK).
- 6 To confirm your new code, re-enter the number and press (OK). If you make a mistake, press briefly to erase the last digit entered.



Tip: Write down your new lock code on the inside back cover, then try to memorize it. This number must be entered every time you reset a security feature.

Call Lock

Call Lock allows you to determine what types of incoming or outgoing calls you want to lock or restrict.

- 1 From standby, press (MENU) to enter the Main Menu.
- 2 Scroll to **Security** and press (OK).
- 3 Scroll to **Call Lock** and press (OK).
- 4 Choose **Incoming Calls** or **Outgoing Calls**, and press (OK).

Locking Incoming Calls

- 1 From the Call Lock menu, press  (OK) to select **Incoming Calls**.



- You have the option of unlocking or locking all incoming calls.

- 2 To change the setting, scroll to the other option and press  (OK).
- 3 When prompted, enter the lock code, and press  (OK).



Note: Call Waiting (see *page 53*) will not function when Incoming Lock is On.

If you have subscribed to Voice Mail (see “*Voice Mail*” on *page 61*) and have locked all incoming calls, your calls are directed to your Voice Mailbox.

Locking Outgoing Calls

You can lock and unlock all outgoing calls, or you can prevent calls from being placed except from the Phonebook. This feature also lets you limit the number of digits that can be dialed from your phone (to prevent long-distance or international calls being made).

- 1 From the Call Lock menu, scroll to **Outgoing Calls** and press  (OK).
 - You can select from **Unlock**, **All Calls**, **Phonebook**, or **Digit Limit**.
- 2 To change the setting, scroll to the desired option and press  (OK).
- 3 Enter the lock code and press  (OK).
- 4 If you selected **Unlock**, **All Calls**, or **Phonebook**, the display confirms the new setting.

Limiting the Number of Digits Dialed

You can limit the number of digits that can be dialed from your phone. For example, to allow only local calls, set the digit limit to 7.

- 1 From the Outgoing Lock menu, scroll to **Digit Limit** and press  (OK).
- 2 Enter the lock code and press  (OK).



- 3 Press  to increase the digit limit. Press  to decrease the digit limit. The maximum digit limit is 31.
- 4 When the digit limit you prefer is displayed, press  (OK).

Power-On Lock

When Power-On Lock is activated, the phone locks automatically whenever powered off and restricts unauthorized use. When the phone is powered on again, you are required to enter the lock code. To temporarily deactivate this feature, see “*Deactivating the Power-On Lock from Standby*”. To disable this feature completely, see “*Disabling the Power-On Lock*”.

Activating the Power-On Lock

- 1 From standby, press  (MENU) to enter the Main Menu.
- 2 Scroll to **Security** and press  (OK).
- 3 Scroll to **Power-On Lock** and press  (OK).
- 4 To change the setting, scroll to the other setting and press  (OK).
- 5 If you select **On**, enter the lock code and press  (OK).

Deactivating the Power-On Lock from Standby

Once Power-On Lock is activated, turning the phone off/on does not turn this feature off. You can turn off Power-On Lock temporarily by following these instructions.

- 1 When the standby display indicates that Power-On Lock is activated, press  (UNLOCK).
- 2 Enter the lock code, and press  (OK).
 - **Power-On Lock** is temporarily deactivated (until you turn your phone off/on again).

Disabling the Power-On Lock

- 1 From standby, press  (MENU) to enter the Main Menu.
- 2 Scroll to **Security** and press  (OK).
- 3 Scroll to **Power-On Lock** and press  (OK).
- 4 Scroll to select **Off** and press  (OK).
- 5 Enter the lock code and press  (OK).

Service Provider Features

7

Several features on your phone are available only if you sign up for them with your wireless service provider. If you do not have one of the services listed below, contact your wireless service provider for more information.

Caller ID

This feature displays the phone number of the person calling you. If the caller's phone number matches an entry in the Phonebook, the backlight changes color and the corresponding name is displayed. The ring tone and backlight color depend on the settings you selected in the Phonebook. Caller ID may not work under some conditions, such as being in an analog service area.

Call Waiting

- 1 An alert sounds when you receive an incoming call during a conversation.



- The display indicates that a call is waiting.
- If the caller's phone number matches an entry in the Phonebook, the backlight changes color and the corresponding name is displayed.

- 2 Press  (ACCEPT) to connect with the incoming call and place the first call on hold.
OR
Press  (IGNORE) to silence the ring and continue your current call.
- 3 Press  to switch between the two calls.
- 4 Press  to end the current call.

Three-Way Calling

This feature lets you dial a third person while you are in a call. You can continue your conversation with one person when the other one hangs up.

- 1 While in a call, enter a phone number or recall it from the Phonebook.
- 2 Press .
 - The phone call you are in is temporarily placed on hold.
- 3 When the third person answers, press  again to connect all three parties.
- 4 Press  to end all calls.



Note: This feature may not be available in all areas. Contact your wireless service provider for more information.

Text Messaging

Composing a Text Message

You can type a text message (up to 160 characters including the e-mail address).



Note: If you receive an incoming call while composing a text message or if you accidentally press  before you complete the message, the message is stored in the Outbox and you can complete it later.

Entering the Send To Information

- 1 From standby, press . Go to step 3.

OR

From standby, press  (MENU), scroll to **Messages**, and press  (OK)

- 2 Press  (OK) to select **Text Message**.
- 3 Scroll to **Compose** and press  (OK).
- 4 Press  (SELECT) to select **Send To**.
- 5 From the Send To screen, select **From Phonebook**, **Phone#**, or **E-mail Address**. Follow the display prompts or enter characters. (See *Chapter 4, "Text Entry Operations"*.) Press  (OK).

OR

If you have created a group list, you can send the message to several people at once, by selecting **Group Lists** and pressing  (OK). Select an entry from your group lists and press  (OK). (See *"Creating a Group List" on page 59* for information on how to set up group lists.)

- The Compose menu is displayed with a check mark next to **Send To**, indicating that this field has been completed.
- 6 If you decide to change the phone number, e-mail address, or group list you entered, reselect the check-marked **Send To:** entry, and press  (CHANGE). Repeat step 5.

Entering the Text of Your Message

- 7 Scroll to **Message** and press  (SELECT).
- 8 Enter the text of your message and press  (OK). (See *Chapter 4, "Text Entry Operations"*.)
 - The Compose menu is displayed with a check mark next to **Send To** and **Message**, indicating that both these fields have been completed.

Message Options

- 9 Do one of the following:
 - To send the message, press  (OK).
 - To store the message in the outbox before sending it, scroll to **Save Message** and press  (OK).
 - The outbox holds up to 20 unsent messages. When the outbox is full, a warning is displayed if you try to compose a message. You must delete or send an outbox message before you can compose a new message.
 - To delete the message and return to the Text Message menu, scroll to **Exit** and press  (OK).

Accessing Text Messages



To quickly access text messages in your Inbox at any time, press  twice. If you are in the Text Message menu, press  once.

- 1 From standby, press . Go to step 3.

OR

From standby, press  (MENU), scroll to **Messages**, and press  (OK)

- 2 Press  (OK) to select **Text Message**.



- 3 Do one of the following:
 - To look at messages in the **Inbox**, press  (OK). See “Reading New Text Messages” below.
 - To compose a message, scroll to **Compose** and press  (OK). See “Composing a Text Message” on page 54.
 - To create a group list so that you can send a message to several people at once, scroll to **Group Lists** and press  (OK). See “Creating a Group List” on page 59.
 - To delete all messages in the Inbox or Outbox, scroll to **Delete All** and press  (OK). See “Deleting All Inbox or Outbox Messages” on page 58.
 - To look at messages in the Outbox, scroll to **Outbox** and press  (OK). See “Viewing Outbox Messages” on page 58.

Reading New Text Messages

When a new text message is received an alert sounds, unless you have selected **None** from the Message Alert menu (see “Selecting a Message Alert” on page 41).  appears on the top of the display.

- If you have received 30 messages, the oldest (unlocked) read message will be overwritten when you receive a new message.
- If the envelope icon is dark () , you have 30 unread (including locked) messages waiting and the inbox is full. See “Deleting a Text Message” on page 57 and delete a message.
- The display indicates how many new text messages you have received.



- 1 Press  (VIEW) to view the inbox message list.
 - The display icons indicate the message status:
 -  :Unread message
 -  :Locked message
 -  :Read message
 - The urgency level of the received message is also displayed:
 -  :Very urgent message
 -  :Urgent message
 -  :Normal message
 -  :Bulk message
- 2 If you have one new message, press  (OPEN) to read it. Then press  to scroll through the reception time, sender, and message.

OR

If you have more than one message, scroll through the list of messages. When the arrow points to the message you want to read, press  (OPEN) and press  to scroll through the reception time, sender, and message.

- 3 Once you read a message, you can press  (CLOSE) to close the message.

OR

Press  (OPTION).

- To reply to the message, see “*Replying to a Text Message (Inbox Only)*” on page 56.
- To forward the message, see “*Forwarding a Text Message*” on page 57.
- To lock the message, see “*Locking a Text Message*” on page 57.
- To delete the message, see “*Deleting a Text Message*” on page 57.
- To call a number shown in the message, see “*Calling Back a Text Message*” on page 57.
- To add the sender of the message to your Phonebook, see “*Adding the Sender to your Phonebook*” on page 57.
- To exit without doing any of the above, scroll to Exit and press  (OK).

Replying to a Text Message (Inbox Only)

- 1 With a message displayed, press  (OPTION).
 - The OPTIONS menu is displayed.
- 2 Press  (OK) to select **Reply**.
 - The Compose screen appears with a check mark next to **Send To**, indicating that this field is already completed.
- 3 Scroll to **Message** and press  (SELECT).
- 4 Enter the text of your message in the Message screen and press  (OK).
 - The Compose screen is displayed with a check mark next to **Send To** and **Message**.

Forwarding a Text Message

- 1 With the message selected or displayed, press  (OPTION).
- 2 Scroll to **Forward** and press  (OK).
 - The Compose screen appears with a check mark next to **Message**, indicating that the message field is completed.
- 3 Press  (SELECT).
- 4 Go to step 5 in “*Entering the Send To Information*” on page 54.

Locking a Text Message

You can lock a message so that it will not be overwritten by another incoming message when your inbox is full.

- 1 With the message selected or displayed, press  (OPTION).
- 2 Scroll to **Lock/Unlock** and press  (OK).
 - **Message Locked** is shown on the display and the  icon appears next to the message in the Inbox list.

Deleting a Text Message



Note: To delete a locked message in the Inbox, you must use the following steps. Locked messages will not be deleted by selecting **Delete All** from the Text Message menu.

- 1 With the message selected or displayed, press  (OPTION).
- 2 Scroll to **Delete**, and press  (OK).
- 3 Press  (YES) to delete the message.

Calling Back a Text Message

When the text of a message contains a telephone number, you can call that number without having to press the keys yourself.

- 1 With the message displayed, press  (OPTION).
- 2 Scroll to **Call Back**, and press  (OK).
 - Any numbers contained in the message are listed.
- 3 Scroll to the phone number you want to call back.
- 4 Press  (OPTION) and then select **Prefix** to add a prefix to the phone number, or select **Save** to save the number in the Phonebook as a home, work, cell, or other phone number.

OR

Press  (SEND) to place the call.

Adding the Sender to your Phonebook

- 1 With the message displayed, press  (OPTION).
- 2 Scroll to **Add Sender** and press  (OK).
 - A blank Phonebook listing is displayed. If an email address is included in the message, it is automatically inserted in the listing.
- 3 Add or edit additional Phonebook fields as described in “*Creating a Phonebook Entry*” on page 30.
- 4 When you are finished, press  (FINISH).



Note: If a phone number is displayed after **From:** in an Inbox message, pressing  calls the displayed number.

Viewing Outbox Messages

- 1 From the Text Message menu, scroll to **Outbox** and press  (OK).
- 2 Press  or  to scroll to the message of your choice, then  to scroll through the time, destination, and the message.
- 3 After reading through a message, press .
- 4 From the Options menu, do one of the following:
 - To edit the destination or the text of a message, press  (OK) to select **Edit**.
 - The Compose screen is displayed. See “*Composing a Text Message*” on page 54 for instructions on editing a message.
 - To forward the message, scroll to **Forward** and press  (OK).
 - The Compose screen is displayed. See “*Forwarding a Text Message*” on page 57.
 - To lock or unlock the message, scroll to **Lock/Unlock** and press  (OK). See “*Locking a Text Message*” on page 57.
 - To delete the message, scroll to **Delete** and press  (OK). See “*Deleting a Text Message*” on page 57.
 - To send the message, scroll to **Send** and press  (OK).
 - The message is sent.
 - To exit without saving or sending the message, scroll to **Exit** and press  (OK).

Deleting All Inbox or Outbox Messages

- 1 From the Text Message menu, scroll to **Delete All** and press  (OK).
 - 2 Do one of the following:
 - Press  (OK) to delete all messages in the **Inbox**.
 - If you press  (OK), the display asks you to confirm that you want to delete all messages in your Inbox.
 - If you press  (NO), you are returned to the Delete All menu. Press  (YES).
 - All unlocked messages are deleted.
- OR**
- Scroll to **Outbox** and press  (OK).
 - If you press  (OK), the display asks you to confirm that you want to delete all messages in your Outbox.
 - If you press  (NO), you are returned to the Delete All menu. Press  (YES).
 - All messages (locked and unlocked) are deleted.

Group Lists

A group list is a convenient way to send a message to several people at once. Usually, group lists consist of people with some common element, such as members of a team at work, family members, or friends with similar interests. Each group list can have up to five members and you can have a total of five group lists. You have to assign a name to your group list first and then add members from your Phonebook entries.

Remember, that you must create your Phonebook entries *before* you can select them for a group list. Once you have created a group list, you can add or delete members, delete the entire group list, and send a message to a group.



Note: When you send a message to a group list, the message is sent individually to each name in the group list, even though it appears to you that only one message is being sent.

Creating a Group List

- 1 From the Text Message menu, scroll to **Group Lists** and press (OK).
- 2 Press (OK) to select **Create**.



- The display prompts for a name for your group list.

- 3 Press and hold to delete **Untitled** and then enter a name for your group list.
 - Enter a name (up to 16 characters) that will remind you who is in the list. For example, Book Club, Project Team, and so on. (See *Chapter 4, "Text Entry Operations"* for information on entering text on your display.)
- 4 Press (OK).
 - The display shows the name you entered for the Group List, and prompts for names of people to include.
- 5 You can add names in any order. Scroll to **1st:**, **2nd:**, **3rd:**, **4th:**, or **5th:** and press (SELECT).
 - The names in your Phonebook are displayed.
- 6 Scroll to the name you want to add to the group list and press (SELECT).
 - All phone numbers for that person (and an e-mail address, if present) are displayed.
- 7 Scroll to the phone number or e-mail address you want to use and press (SELECT).
 - The person's name is added to the group list. An icon next to the name indicates which phone number (or e-mail address) will be used:
 - (home number), (work number), (cell phone number), (other number), or @ (e-mail address).

- 8 When you have entered all the names (up to five) to be included in this group list, press **END** (FINISH).
 - The display asks if you want to save the entry.
- 9 Press **YES** (YES) to save the entry or **NO** (NO) to cancel it.

Viewing Your Group Lists

You can view your group lists, edit them, and delete them.

- 1 From the Text Message menu, scroll to **Group Lists** and press **OK** (OK).
- 2 On the Group List menu, scroll to **View** and press **OK** (OK).
- 3 Scroll to the group list you want to view and press **VIEW** (VIEW).
- 4 Press **OPTION** (OPTION).
- 5 From the View Options menu, do one of the following:
 - To edit a group list, press **OK** (OK) and follow the instructions from step 4 in *“Editing a Group List”*.
 - To delete an entire group list, scroll to **Delete** and press **OK** (OK). When asked to confirm the deletion, press **YES** (YES).
 - To send a message to the people in the selected group list, scroll to **Send To** and press **OK** (OK). Follow the instructions in *“Composing a Text Message”* on page 54.

Editing a Group List

- 1 From the Text Message menu, scroll to **Group Lists** and press **OK** (OK).
- 2 Scroll to **Edit** and press **OK** (OK).



- The names of your group lists are displayed.

- 3 Scroll to the one you want to edit and press **EDIT** (EDIT).
- 4 To change or delete an entry, scroll to the entry and press **SELECT** (SELECT).
- 5 To change the entry, press **CHANGE** (CHANGE).

Scroll through the names in your Phonebook, and press **SELECT** (SELECT) when the name you want to enter is displayed.

Scroll through the phone numbers and e-mail address for the selected name, and press **SELECT** (SELECT) when the arrow points to the number (or e-mail address) you want.

OR

To delete the entry, press **DELETE** (DELETE).
- 6 To change or delete another entry, press **SELECT** (SELECT).

OR

To return to the Group List menu, press **FINISH** (FINISH).

- 7 To save your change(s), press  (YES).

OR

To cancel your changes and return to the Group List menu, press  (NO).

Voice Mail



Note: You must subscribe to voice mail through your wireless service provider before you can retrieve voice mail messages. To check if voice mail has been programmed, press and hold . If the display indicates that the Voice Mailbox number is empty, voice mail has not been programmed. Contact your wireless service provider for programming instructions.

Listening to New Voice Mail

- 1 When a new voice mail message is received, an alert sounds and  appears on the top of the display.
 - 2 Press  (LISTEN) to automatically dial your voice mail number.
- OR**
- 3 From the standby display, press and hold  until it calls your voice mailbox.
 - 3 Follow the recorded instructions for your voice mail.
 - 4 Press  to end your call and return to standby.

Saving and Deleting Voice Mail

Saving and deleting voice mail is a function of your wireless service provider. Once you call your voice mailbox, follow the instructions given by your wireless service provider.

Resetting the Voice Mailbox Number



Caution: Do not reset your voice mailbox number if it is preprogrammed by your wireless service provider. Your voice mail will be inaccessible if an incorrect number is entered. Check with your wireless service provider for specific information.

- 1 From standby, press  (MENU) to enter the Main Menu.
- 2 Press  to scroll to **Messages** and press  (OK).
- 3 Scroll to **Voice Mail** and press  (OK).



- Your voice mailbox phone number is displayed.
- If a voice mailbox number has not been programmed, **(Empty)** is displayed.

- 4 Press  (EDIT) and enter a new voice mailbox phone number.
 - You can also program Pause and Wait times for your password or PIN. See "Programming Pauses or Waits" on page 33.
- 5 Press  (OK) to save the new phone number.

International Calls

If allowed by your wireless service provider, you can place international calls from your phone. When you press and hold  in the first position of a phone number, it toggles between **0** and **+** (the international dialing prefix).

Check with your wireless service provider for the availability of placing international calls.

System Settings

8

This chapter contains information about settings in the System Settings menu. You should not have to change these settings. The procedures in this chapter are provided for technically knowledgeable users.



Caution: Before making *any* changes to these settings, contact your wireless service provider. Random changes to these settings could negatively affect your phone's performance.

Voice Privacy Mode

When this feature is on, conversations and messages are encrypted with a special code that can be interpreted only by your wireless service provider. Voice privacy is available *only* if offered by your wireless service provider. Contact your wireless service provider for additional information.

- 1 From standby, press (MENU) to enter the Main Menu.
- 2 Press to scroll to **System Setting** and press (OK).
- 3 Press (OK) again to select **Network**.
- 4 Press (OK) again to select **Voice Privacy**.
- 5 To change the setting, scroll to the other option and press (OK).
 - If you selected **On**, the encryption icon () is displayed during calls (if you have subscribed to voice privacy with your service provider).

Selecting Your Phone Number (NAM)

Your phone can have up to two phone numbers (programmed by your wireless service provider). You can select either phone number to make a call. These phone numbers are referred to as NAM1 and NAM2. NAM stands for Number Assignment Module.

Your wireless service provider must program a NAM into your handset in order for it to operate correctly on their network. This can be done by a sales representative, or optionally, it can be programmed into your phone over the airwaves.

- 1 From standby, press (MENU) to enter the Main Menu.
- 2 Press to scroll to **System Setting** and press (OK).
- 3 Press to scroll to **NAM Selection** and press (OK).
 - The display shows your current phone number setting.
- 4 If you have a second phone number (NAM2), view it by pressing or .
- 5 To select the other phone number (other than the one you are currently using), make sure that phone number (NAM) is displayed and press (OK).
 - If you changed the NAM setting, a network search occurs.



Note: If you would like to have a second phone number programmed for your phone, contact your wireless service provider.

Searching for Available Systems

Your phone's search default is set to **Normal**, which means it automatically searches for available network systems, and then selects the appropriate one. It will default to this setting every time you turn on your phone, even when you have changed the search setting. To search for a particular network, select **Manual**. Up to 16 network names may be displayed. When **New Search** is selected, your phone begins a new search for available systems and asks if you use the network.

- 1 From standby, press  (MENU) to enter the Main Menu.
- 2 Press  to scroll to **System Setting** and press  (OK).
- 3 Press  to scroll to **Search** and press  (OK).
- 4 Scroll to your preferred search setting and press  (OK).
- 5 Do one of the following:
 - If you selected **Normal**, press any key or wait 3 seconds to return to standby.
 - If you selected **Manual**, press  to scroll to a network you use and press  (OK) to select it. Then, press any key or wait 3 seconds to return to standby.
 - If you selected **New Search**, an available network name is displayed. Press  (YES) to select it or  (NO) to have the phone search for another available network. After you select a network, press any key or wait 3 seconds to return to standby.

Service Priority

Your phone automatically searches for available networks when powered on. To change the service priority order, follow this procedure. If you are not sure which service you have, contact your wireless service provider.

- 1 From standby, press  (MENU) to enter the Main Menu.
- 2 Scroll to **System Setting** and press  (OK).
- 3 Scroll to **SVC Priority** and press  (OK).
- 4 Scroll to **Custom** and press  (OK).



- This display shows the default search order:
 - Residential:** When turned on, the phone first searches for its home base station.
 - Private:** The phone then searches for an in-building system.
 - Public:** The phone searches for any available networks.

- 5 Press  or  to change the **SVC Priority** order.
- 6 When your preferred order is displayed, press  (OK).

Before Requesting Help



As you learn how to use all of your phone's features, you may occasionally experience minor problems. Fortunately, you can fix most of these problems yourself. Listed below are some of the problems you might encounter, as well as procedures that may help you arrive at a solution. If your problem persists, please contact your wireless service provider or visit Panasonic's website at www.panasonic.com. (In Canada, visit www.panasonic.ca.)

Problems and Solutions

Problem	Possible Cause(s)	Solution(s)
Phone will not turn on	Battery is too low or not charged. Battery contacts need to be cleaned.  was not pressed long enough.	Recharge the battery. Or, connect the AC or DC adapter. Wipe the battery contacts and phone contacts with a dry cloth. Try pressing and holding  for at least three seconds.
"Initialization Error xxxx" or "Run Time Error xxxx" is displayed	Your phone has detected a programming error.	Contact your wireless service provider.
Phone turns off inadvertently	Battery is too low or will not hold a charge.	Connect an AC or DC adapter and confirm that the battery icon is displayed. If the battery icon is not displayed, contact your wireless service provider.
Keys do not work when pressed	Keypad may be locked. (The display shows Key Lock On .) Phone may not be on.	If Key Lock On is displayed, press  (UNLOCK) and then  (YES) to unlock. Verify that phone is on.
Unable to store entries into Phonebook	The Phonebook is full.	Delete an entry from the Phonebook. (See "Editing/Deleting a Phonebook Entry" on page 33 for details.)

Problems and Solutions

Problem	Possible Cause(s)	Solution(s)
<p>Battery will not recharge</p>	<p>The ambient air temperature exceeds 104°F (40°C) or is less than 32°F (0°C).</p> <p>Contact between your battery and recharger is incomplete.</p> <p>The battery has not been charged for a long time and has been deeply discharged.</p> <p>The battery is defective.</p>	<p>Lower or raise the air temperature; allow the phone to cool off or warm up before recharging.</p> <p>Disconnect your charger from the phone and then try reconnecting it.</p> <p>Attempt to recharge the battery. It may take a few minutes for recharging to begin. If the battery will not recharge, replace it.</p> <p>Replace the battery. Note: It's normal for a battery to slowly lose its ability to hold a charge.</p>
<p>No Service is displayed</p>	<p>Signal is too weak.</p>	<p>Move to another location, or wait a few minutes if you are traveling in an automobile.</p> <p>If you are in a building, move near a window or go outside to send or receive calls.</p> <p>Note: If you know you are in a cellular service area and the phone continues to indicate No Service, contact your wireless service provider.</p>
<p>Unable to receive calls</p>	<p>Phone is off.</p> <p>Security features may be set so that the phone will not receive calls.</p> <p>Answer Options setting is set to use  to answer a call.</p> <p>Service is not activated.</p>	<p>Turn on phone.</p> <p>Check Security Options settings. (See “<i>Call Lock</i>” on page 50 for more information.)</p> <p>Press  to answer a call or change the Answer Key setting to Any Key. (See “<i>Answer Key Options</i>” on page 22.)</p> <p>Contact your wireless service provider.</p>

Problems and Solutions

Problem	Possible Cause(s)	Solution(s)
Missing incoming calls	<p>Ring volume may be set to silent.</p> <p>Phone was not programmed correctly by dealer or carrier.</p>	<p>Set ring volume on.</p> <p>Contact your wireless service provider.</p>
Calls dropped/ disconnected inadvertently	<p>You are outside of a cellular service area.</p> <p>Phone automatically disconnects calls when the battery level is low.</p>	<p>Check your wireless service provider's coverage map (including roaming areas) and try to move to a location within the coverage area. If problems persist, contact your wireless service provider.</p> <p>Recharge the battery.</p>
Unable to enter text as intended when pressing keys	Phone may be in WORD T9 (WORD/T) mode instead of Letter (ABC) mode.	If WORD/T shows above the right softkey (☐), press the right softkey (☐) until ABC appears above it. (See <i>Chapter 4, "Text Entry Operations"</i> .)
Lost or forgot lock code		<p>Try entering 1234 as the lock code.</p> <p>Check inside back cover for new lock code.</p> <p>Contact your wireless service provider.</p>
Unable to place calls	<p>Phone is off.</p> <p>Security features may be set so that the phone cannot place calls.</p> <p>You are outside of a cellular service area.</p> <p>An error was made dialing the number.</p> <p>Service is not activated.</p>	<p>Confirm phone is on.</p> <p>Check Security Options settings. (See <i>"Call Lock" on page 50</i> for more information.)</p> <p>Check your wireless service provider's coverage map (including roaming areas) and try to move to a location within the coverage area.</p> <p>Confirm the number is correct.</p> <p>Contact your wireless service provider.</p>

Problems and Solutions

Problem	Possible Cause(s)	Solution(s)
Unable to access Voice Mailbox	<p>Voice Mail phone number is not programmed into phone.</p> <p>DTMF tones may be set to short instead of long.</p> <p>Voice Mail service is not activated.</p>	<p>Program Voice Mail phone number. Refer to additional information from your wireless service provider.</p> <p>Set DTMF tones to long. (See “DTMF Duration” on page 48 for details.)</p> <p>Contact your wireless service provider.</p>
Unable to set a subscriber feature	The feature you are trying to set is not offered by your wireless service provider.	Contact your wireless service provider for more information.
It is difficult to hear the other party	Your phone’s earpiece volume is set too low.	Press  during conversation.
You can hear the other party, but the other party can’t hear you	Your microphone may be muted.	If the display shows Muted , press  (UNMUTE).
Handsfree headset does not work when plugged into phone	TTY Mode is set to On .	Select TTY Mode in the Miscellaneous menu and set it to Off .
TTY device does not work when plugged into phone	TTY Mode is set to Off .	Select TTY Mode in the Miscellaneous menu and set it to On .

Phone Accessories

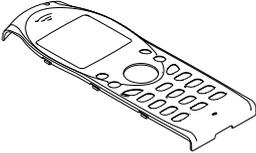
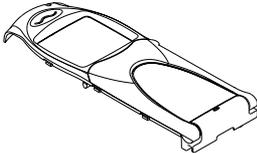
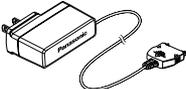
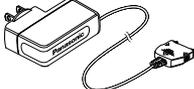


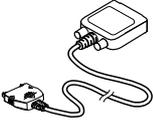
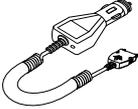
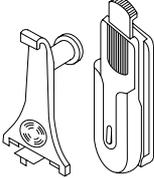
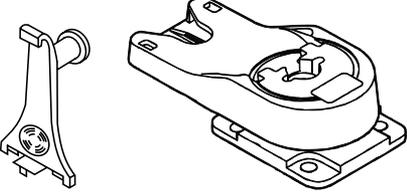
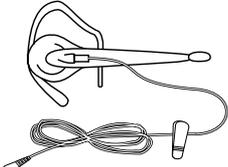
A variety of accessories are available for your Panasonic phone. Contact your local wireless service provider to purchase Genuine Panasonic accessories.



Note: Replacement antennas are available from Panasonic. In the U.S., call 1 (800) 833-9626. In Canada, contact your cellular dealer.

Using non-Panasonic accessories or accessories not recommended by your wireless service provider may result in poor performance of your phone, or even cause an electrical hazard.

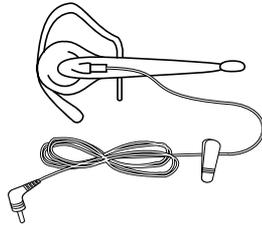
EB-TX320 Accessories	
 <p>Battery (Li-Ion 740 mAh) EB-BS320</p>	 <p>Private Handsfree Headset EB-EM300</p>
 <p>Faceplate EB-FP320 Series (available in several colors and graphics)</p>	 <p>Flip Faceplate EB-FF320 Series (available in several colors)</p>
 <p>AC Adapter (400mA) EB-CA340</p>	 <p>Rapid Charger (700mA) EB-CA370</p>

EB-TX320 Accessories (cont.)	
 <p>Data Cable EB-RS300</p>	 <p>DC Adapter EB-CD300</p>
 <p>TTY Cable EB-WA300</p>	 <p>Belt Clip EB-YK300</p>
 <p>Car Holder EB-KA300</p>	 <p>Private Handsfree Headset EB-EM310</p>

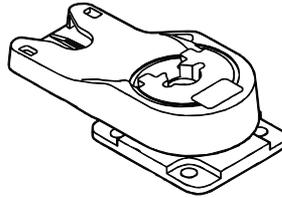
EB-HF300EZ Handsfree Car Kit



**DC Adapter
EB-CD300**



**Private Handsfree Headset
EB-EM310**



**Car Holder
EB-KA300**



Consumer Update



Consumer Update on Mobile Phones

(Published by U.S. Food and Drug Administration, Center for Devices and Radiological Health, October 20, 1999.)

FDA has been receiving inquiries about the safety of mobile phones, including cellular phones and PCS phones. The following summarizes what is known--and what remains unknown--about whether these products can pose a hazard to health, and what can be done to minimize any potential risk. This information may be used to respond to questions.

Why the concern?

Mobile phones emit low levels of radiofrequency energy (i.e., radiofrequency radiation) in the microwave range while being used. They also emit very low levels of radiofrequency energy (RF), considered non-significant, when in the stand-by mode. It is well known that high levels of RF can produce biological damage through heating effects (this is how your microwave oven is able to cook food). However, it is not known whether, to what extent, or through what mechanism, lower levels of RF might cause adverse health effects as well. Although some research has been done to address these questions, no clear picture of the biological effects of this type of radiation has emerged to date. Thus, the available science does not allow us to conclude that mobile phones are absolutely safe, or that they are unsafe. However, the available scientific evidence does not demonstrate any adverse health effects associated with the use of mobile phones.

What kind of phones are in question?

Questions have been raised about hand-held mobile phones, the kind that have a built-in antenna that is positioned close to the user's head during normal telephone conversation. These types of mobile phones are of concern because of the short distance between the phone's antenna — the primary source of the RF — and the person's head. The exposure to RF from mobile phones in which the antenna is located at greater distances from the user (on the outside of a car, for example) is drastically lower than that from hand-held phones, because a person's RF exposure decreases rapidly with distance from the source. The safety of so-called "cordless phones", which have a base unit connected to the telephone wiring in a house and which operate at far lower power levels and frequencies, has not been questioned.

How much evidence is there that hand-held mobile phones might be harmful?

Briefly, there is not enough evidence to know for sure, either way; however, research efforts are on-going. The existing scientific evidence is conflicting and many of the studies that have been done to date have suffered from flaws in their research methods. Animal experiments investigating the effects of RF exposures characteristic of mobile phones have yielded conflicting results. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. In one study, mice genetically altered to be predisposed to developing one type of cancer developed more than twice as many such cancers when they were exposed to RF energy compared to controls. There is much uncertainty among scientists about whether results obtained from animal studies apply to the use of mobile phones. First, it is uncertain how to apply the results obtained in rats and mice to humans. Second, many of the studies that showed increased tumor development used animals that had already been treated with cancer-causing chemicals, and other studies exposed the animals to the RF virtually continuously — up to 22 hours per day.

For the past five years in the United States, the mobile phone industry has supported research into the safety of mobile phones. This research has resulted in two findings in particular that merit additional study:

Appendix C

- 1 In a hospital-based, case-control study, researchers looked for an association between mobile phone use and either glioma (a type of brain cancer) or acoustic neuroma (a benign tumor of the nerve sheath). No statistically significant association was found between mobile phone use and acoustic neuroma. There was also no association between mobile phone use and gliomas when all types of gliomas were considered together. It should be noted that the average length of mobile phone exposure in this study was less than three years.

When 20 types of glioma were considered separately, however, an association was found between mobile phone use and one rare type of glioma, neuroepitheliomatous tumors. It is possible with multiple comparisons of the same sample that this association occurred by chance. Moreover, the risk did not increase with how often the mobile phone was used, or the length of the calls. In fact, the risk actually decreased with cumulative hours of mobile phone use. Most cancer causing agents increase risk with increased exposure. An ongoing study of brain cancers by the National Cancer Institute is expected to bear on the accuracy and repeatability of these results.¹

- 2 Researchers conducted a large battery of laboratory tests to assess the effect of exposure to mobile phone RF on genetic material. These included tests for several kinds of abnormalities, including mutations, chromosomal aberrations, DNA strand breaks, and structural changes in the genetic material of blood cells called lymphocytes. None of the tests showed any effect from the RF except for the micronucleus assay, which detects structural effects on the genetic material. The cells in this assay showed changes after exposure to simulated cell phone radiation, but only after 24 hours of exposure. It is possible that exposing the test cells to radiation for this long resulted in heating. Since this assay is known to be sensitive to heating, heat alone could have caused the abnormalities to occur. The data already in the literature on the response of the micronucleus assay to RF are conflicting. Thus, follow-up research is necessary.²

FDA is currently working with government, industry, and academic groups to ensure the proper follow-up to these industry-funded research findings. Collaboration with the Cellular Telecommunications Industry Association (CTIA) in particular is expected to lead to FDA providing research recommendations and scientific oversight of new CTIA-funded research based on such recommendations.

Two other studies of interest have been reported recently in the literature:

- 1 Two groups of 18 people were exposed to simulated mobile phone signals under laboratory conditions while they performed cognitive function test. There were no changes in the subjects' ability to recall words, numbers, or pictures, or in their spatial memory, but they were able to make choices more quickly in one visual test when they were exposed to simulated mobile phone signals. This was the only change noted among more than 20 variables compared.³
- 2 In study of 209 brain tumor cases and 425 matched controls, there was no increased risk of brain tumors associated with mobile phone use. When tumors did exist in certain locations, however, they were more likely to be on the side of the head where the mobile phone was used. Because this occurred in only a small number of cases, the increased likelihood was too small to be statistically significant.⁴

In summary, we do not have enough information at this point to assure the public that there are, or are not, any low incident health problems associated with use of mobile phones. FDA continues to work with all parties, including other federal agencies and industry, to assure that research is undertaken to provide the necessary answers to the outstanding questions about the safety of mobile phones.

What is known about cases of human cancer that have been reported in users of handheld mobile phones?

Some people who have used mobile phones have been diagnosed with brain cancer. But it is important to understand that this type of cancer also occurs among people who have not used mobile phones. In fact, brain cancer occurs in the U.S. population at a rate of about 6 new cases per 100,000 people each year. At that rate, assuming 80 million users of mobile phones (a number increasing at a rate of about 1 million per month), about 4800 cases of brain cancer would be expected each year among those 80 million people, whether or not they used their phones. Thus it is not possible to tell whether any

individual's cancer arose because of the phone, or whether it would have happened anyway. A key question is whether the risk of getting a particular form of cancer is greater among people who use mobile phones than among the rest of the population. One way to answer that question is to compare the usage of mobile phones among people with brain cancer with the use of mobile phones among appropriately matched people without brain cancer. This is called a case-control study. The current case-control study of brain cancers by the National Cancer Institute, as well as the follow-up research to be sponsored by industry, will begin to generate this type of information.

What is FDA's role concerning the safety of mobile phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as mobile phones before marketing, as it does with new drugs or medical devices. However, the agency has authority to take action if mobile phones are shown to emit radiation at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of mobile phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions at this time, FDA has urged the mobile phone industry to take a number of steps to assure public safety.

The agency has recommended that the industry:

- support needed research into possible biological effects of RF of the type emitted by mobile phones;
- design mobile phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- cooperate in providing mobile phone users with the best possible information on what is known about possible effects of mobile phone use on human health.

At the same time, FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of mobile phone safety to ensure a coordinated effort at the federal level. These agencies are:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Commission
- Occupational Health and Safety Administration
- National Telecommunications and Information Administration

The National Institutes of Health also participates in this group.

In the absence of conclusive information about any possible risk, what can concerned individuals do?

If there is a risk from these products — and at this point we do not know that there is — it is probably very small. But if people are concerned about avoiding even potential risks, there are simple steps they can take to do so. For example, time is a key factor in how much exposure a person receives. Those persons who spend long periods of time on their hand-held mobile phones could consider holding lengthy conversations on conventional phones and reserving the hand-held models for shorter conversations or for situations when other types of phones are not available.

People who must conduct extended conversations in their cars every day could switch to a type of mobile phone that places more distance between their bodies and the source of the RF, since the exposure level drops off dramatically with distance. For example, they could switch to

- a mobile phone in which the antenna is located outside the vehicle,
- a hand-held phone with a built-in antenna connected to a different antenna mounted on the outside of the car or built into a separate package, or
- a headset with a remote antenna to a mobile phone carried at the waist.

Again, the scientific data do not demonstrate that mobile phones are harmful. But if people are concerned about the radiofrequency energy from these products, taking the simple precautions outlined above can reduce any possible risk.

Appendix C

Where can I find additional information?

For additional information, see the following websites:

- Federal Communications Commission (FCC) RF Safety Program (select "Information on Human Exposure to RF Fields from Cellular and PCD Radio Transmitters"):
<http://www.fcc.gov/oet/rfsafety>
- World Health Organization (WHO) International Commission on Non-Ionizing Radiation Protection (select Qs & As):
<http://www.who.int/peh-emf>
- United Kingdom, National Radiological Protection Board:
<http://www.nrpb.org.uk>
- Cellular Telecommunications Industry Association (CTIA):
<http://www.wow-com.com>
- U.S. Food and Drug Administration (FDA) Center for Devices and Radiological Health:
<http://www.fda.gov/cdrh/consumer/>

-
- 1 Muscat et al. "Epidemiological Study of Cellular Telephone Use and Malignant Brain Tumors". In: State of the Science Symposium; 1999 June 20; Long Beach, California.

 - 2 Tice et al. "Tests of mobile phone signals for activity in genotoxicity and other laboratory assays". In: Annual Meeting of the Environmental Mutagen Society. March 29, 1999, Washington, D.C. and personal communication, unpublished results.

 - 3 Preece, AW, Iwi, G, Davies-Smith, A, Wesnes, K, Butler, S, Lim, E, and Varey, A. "Effect of a 915-MHz simulated mobile phone signal on cognitive function in man". *Int. J. Radiat. Biol.*, April 8, 1999.

 - 4 Hardell, L, Nasman, A, Pahlson, A, Hallquist, A and Mild, KH. "Use of cellular telephones and the risk for brain tumors: a case-control study". *Int. J. Oncol.*, 15: 113-116, 1999.

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To order this manual in Spanish
(part number 7LC424A), call our toll free number
1(800)833-9626.

Si desea hacer su pedido de la versión en español
(No. catálogo 7LC424A) de este manual, llame sin
costo al **1(800)833-9626.**

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 Number (under battery on back of phone):

Purchase Date: _____

Dealer's Name: _____

Dealer's Address: _____

Dealer's Phone Number: _____

Emergency Number: _____

Lock Code: _____

Primary Phone Number: _____

Secondary Phone Number (Optional): _____

This product is licensed under one or more of the following U.S. Patents:
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5,119,375, 5,121,391, 5,159,705, 5,657,358, 5,687,194, 5,734,678

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T9 is covered by U.S. Pat. 5,818,437, U.S. Pat. 5,953,541,
U.S. Pat. 6,011,554 and other patents pending.

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