# Important Safety Precautions

Read these instructions. Breaking the rules may be dangerous or illegal. Further detailed information is given in this user guide.

WARNING! Violation of the instructions may cause serious injury or death.



 Never use an unapproved battery since this could damage the phone and/or battery and could cause the battery to explode.



- Never place your phone in a microwave oven as it will cause the battery to explode.
- 3. Never store your phone in temperatures less than -4°F or greater than 122°F.
- 4. Do not dispose of your battery by fire or with hazardous or flammable materials.



5. When riding in a car, do not leave your phone or set up the hands-free kit near to the air bag. If wireless equipment is improperly installed and the air bag is deployed, you may be seriously injured.



- 6. Do not use a hand-held phone while driving.
- 7. Do not use the phone in areas where its use is prohibited. (For example: aircraft)
- 8. Do not use your device for long periods of time while a part of your body is making direct contact with it. The temperature of the product may increase during normal operation and this may result in harming or burning your skin.

## Important Safety Precautions



 Do not expose the battery charger or adapter to direct sunlight or use it in places with high humidity, such as a bathroom.



Do not use harsh chemicals (such as alcohol, benzene, thinners, etc.) or detergents to clean your phone. This could cause a fire.



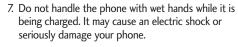
- Do not drop, strike, or shake your phone severely. It may harm the internal circuit boards of the phone.
- 4. Do not use your phone in high explosive areas as the phone may generate sparks.



5. Do not damage the power cord by bending, twisting, pulling, or heating. Do not use the plug if it is loose as it may cause a fire or electric shock.



Do not place any heavy items on the power cord. Do not allow the power cord to be crimped as it may cause electric shock or fire.





8. Do not disassemble the phone.



- Do not place or answer calls while charging the phone as it may short-circuit the phone and/or cause electric shock or fire.
- Do not hold or let the antenna come in contact with your body during a call.



- Make sure that no sharp-edged items such as animal's teeth or nails, come into contact with the battery. This could cause a fire.
- 4. Store the battery out of reach of children.



 Be careful that children do not swallow any parts (such as rubber plugs, earphone, connection parts of the phone, etc.)
 This could cause asphyxiation or suffocation resulting in serious injury or death.



- Unplug the power cord and charger during lightning storms to avoid electric shock or fire.
- Only use the batteries and chargers provided by LG. The warranty will not be applied to products provided by other suppliers.



 Only authorized personnel should service the phone and its accessories. Faulty installation or service may result in accidents and consequently invalidate the warranty.



9. Your service provider programs one or more emergency phone numbers, such as 911, that you can call under any circumstances, even when your phone is locked. Your phone's preprogrammed emergency number(s) may not work in all locations, and sometimes an emergency call cannot be placed due to network, environmental, or interference issues.

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## Welcome

Thank you for choosing the AN160 cellular phone, designed to operate with the latest digital mobile communication technology, Code Division Multiple Access (CDMA). Along with the many advanced features of the CDMA system, this compact phone offers:

- Significantly enhanced voice clarity.
- Slim and sleek design with internal antenna.
- Large, easy-to-read, backlit LCD with status icons.
- Messaging, voicemail, and caller ID capabilities.
- 23-key keypad.
- Speakerphone feature.
- Menu-driven interface with

- prompts for easy operation and configuration.
- Any key answer, auto answer, auto retry, one-touch and speed dialing with 99 memory locations.
- Bilingual (English and Spanish) capabilities.
- Bluetooth® wireless technology.

#### Note

The Bluetooth® word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by LG Electronics is under license. Other trademarks and trade names are those of their respective owners.

## **Technical Details**

#### Important Information

This user's guide provides important information on the use and operation of your phone. Please read all the information carefully prior to using the phone for the best performance and to prevent any damage to or misuse of the phone. Any unapproved changes or modifications will void your warranty.

#### **Technical Details**

The AN160 is a trimode phone that operates on among (Code Division Multiple Access CDMA) frequencies: cellular services at 800 MHz, (Personal Communication Services PCS) at 1.9 GHz.

CDMA technology uses a feature called DSSS (Direct Sequence Spread Spectrum) that enables the phone to keep communication from being crossed and to use one frequency channel by multiple users in the same specific area. This results in a 10-fold capacity increase when compared with analog mode. In addition, features such as soft / softer handoff, hard handoff, and

dynamic RF power control technologies combine to reduce call interruptions.

The Cellular and PCS CDMA networks consist of MSO (Mobile Switching Office), BSC (Base

CDMA Standard	Designator	Description
Basic Air Interface	TIA/EIA-95A TSB-74 ANSI J-STD-008 TIA/EIA-IS2000 ANSI TIA/EIA 553A	CDMA Dual Mode Air Interface 14.4kbps radio link protocol and inter- band operations IS-95 adapted for PCS frequency band cdma2000 1xRTT AirInterface
Network	TIA/EIA/IS-634 TIA/EIA/IS/651 TIA/EIA/IS-41-C TIA/EIA/IS-124	MAS-BS PCSC-RS Intersystem operations Non-signaling data comm.
Service	TIA/EIA/IS-96-B TIA/EIA/IS-637 TIA/EIA/IS-657 IS-801 TIA/EIA/IS-707-A	Speech CODEC Short message service Packet Data Position Determination Service (gpsOne) High Speed Packet Data
Performance	TIA/EIA/IS-97 TIA/EIA/IS-98 ANSI J-STD-018 ANSI J-STD-019 TIA/EIA/IS-125	Cellular base station Cellular mobile station PCS personal station PCS base station Speech CODEC

## **Technical Details**

Station Controller), BTS (Base Station Transmission System), , MS (Mobile Station).

\* TSB-74: Protocol between an IS-95A system and ANSI J-STD-008

1xRTT system receives twice as many subscribers in the wireless section as IS-95. Its battery life is twice as long as IS-95. Highspeed data transmission is also possible.

The table on the previous page lists some major CDMA standards.

### FCC RF Exposure Information

WARNING! Read this information before operating the phone.

In August 1996, the Federal Communications Commission (FCC) of the United States, with its action in Report and Order FCC 96-326, adopted an updated safety standard for human exposure to Radio Frequency (RF) electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards.

# **Bodily Contact During Operation**

This device was tested for typical use with the back of the phone kept **0.59 inches (1.5 cm)** from the body. To comply with FCC RF exposure requirements, a minimum separation distance of

**0.59 inches (1.5 cm)** must be maintained between the user's body and the back of the phone,

including the antenna, whether extended or retracted. Third-party belt-clips, holsters, and similar accessories containing metallic components should not be used. Avoid the use of accessories that cannot maintain **0.59 inches (1.5 cm)** distance between the user's body and the back of the phone and have not been tested for compliance with FCC RF exposure limits.

Any changes or modifications not expressly approved in this user guide could void your warranty for this equipment. Use only the supplied antenna. Use of unauthorized antennas (or modifications to the antenna) could impair call quality, damage the phone, void your warranty and/or violate FCC regulations.

## Technical Details

Don't use the phone with a damaged antenna. A damaged antenna could cause a minor skin burn. Contact your local dealer for a replacement antenna.

#### Caution

Use only the supplied and approved antenna. Use of unauthorized antennas or modifications could impair call quality, damage the phone, void your warranty and/or result in violation of FCC regulations. Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin a minor burn may result. Contact your local dealer for a replacement antenna.

#### Part 15.19 statement

This device complies with part 15 of FCC rules.
Operation is subject to the following two conditions:

# (1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

#### Part 15.21 statement

Change or Modifications that are not expressly approved by the manufacturer could void the user's authority to operate the equipment.

#### Part 15.105 statement

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and,

if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. if this equipment does cause harmful interference or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### HAC

This phone has been tested and rated for use with hearing aids for some of the wireless technologies that it uses.

However, there may be some newer wireless technologies used in this phone that have not been tested yet for use with hearing aids.

It is important to try the different features of this phone thoroughly and in different locations, using your hearing aid or cochlear implant, to determine if you hear any interfering noise.

Consult your service provider or the manufacturer of this phone for information on hearing aid compatibility.

If you have questions about return or exchange policies, consult your service provider or phone retailer.

## Phone Overview



- 1. Earpiece Lets you hear the caller.
- LCD Screen Displays messages and status icons. When the phone is turned on, Power Save mode automatically dims the screen and then darkens it if no keys are pressed.
- Left Soft Key Use to access the Messaging menu from the home screen, or the function immediately above it.
- 4. Speakerphone Key Use to turn Speaker On or Off.
- 5. SEND Key Use to place or answer calls.
- Alphanumeric Keypad Use to enter numbers and characters and select menu items.
- Vibrate Mode Key Use to set the vibration mode from the home screen (press and hold for about 2 seconds).
- Navigation Key Use to navigate through menus and options. When on the home screen, use for quick access to Favorites ,easyedge, Calendar and My Menu.
- Right Soft Key Use to access the Contact List from the home screen, or the function immediately above it.
- Menu/OK Key Lets you access the phone's main Menu and also selects the highlighted choice when navigating through a menu or function.
- 11. CLR/ Voice Command Key Deletes single spaces or characters with a quick press, but press and hold to delete the text entered in a text field. Will also back you out of menus, one level at a time. Also you are allowed to access Voice Command by pressing CLR Key from the home screen.
- PWR/END Key Use to turn the power on/off and to end a call. Also, use to exit from any function and return to the home screen.
- 13. Lock Mode Key Use to lock the phone from standby mode, press and hold for about 2 seconds.





- Earphone Jack Allows the use of a headset to hear caller's voice.
- Volume Keys Use to adjust the ringer volume from the home screen and the earpiece volume during a call.
- **3. Charger/Accessory Port** Connects the phone to the battery charger or other available accessories.

#### Charging with PC USB

You can use your computer to charge your phone. Connect one end of a USB cable to the charger/ accessory port on your phone and the other end to a high-power USB port on your PC (commonly located on the front panel of the computer).

- **4. Camera Key** Use for quick access to Camera function.
- 5. Camera Lens Lets you take pictures.

## Menus Overview

#### Menu Access

While in the home screen, press 
Menu to access the phone's main menu. There are two methods of accessing menus and submenus:

- Press the number key on the keypad that to activate the corresponding menu/option.

#### Contacts

- 1. New Contact
- 2. Contact List
- 3. Favorites
- 4. Groups
- 5. Speed Dials
- 6. My vCard

## Messaging

- 1. New Text Message
- 2. New Picture Message
- 3. Inbox
- 4. Outbox
- 5. Drafts
- 6. Voicemail

- 7. Templates8. Settings
  - 1. All Messages
  - 2. Text Message
  - 3. Picture Message
  - 4. Edit Voicemail Number
- 9. Delete All
  - 2. Delete Outbox
  - 3. Delete Drafts
  - 4. Delete All
  - Messages

## Call History

1. Missed Calls

- 2. Received Calls
- Dialed Calls
- 4. All Calls
- 5. Call Timer
  6. Data Counter

### Multimedia

- 1. Take Photo
- 2. Record Voice
- 3. Images
  - 1. My Images
  - 2. Default
- 4. Sounds
  - 1. My Sounds
  - 2. Default

## easvedge

1. easydge Apps

## My Schedule

- 1. Alarm Clock
- 2. Calendar
- 3. Notepad

#### **Browser**

1. Start Browser

#### Tools

- 1. Voice Command
  - 1. Start Command
  - 2. Command Mode
  - 3. Announce Alert
  - 4. Train Word
  - 5. Best Match
- 2. Calculator
- 3. My Menu

- 4. Ez Tip Calculator
- 5. World Clock
- 6. Stopwatch
- 7. Unit Converter
  - 1. Currency
  - 2. Area
  - 3. Length
  - 4. Mass
  - 5. Temperature
  - 6. Volume
  - 7. Velocity

## Settings

- 1. Sound
- 1. Ringtones
  - 1. All Calls
    - 2. Caller ID
  - 3. No Caller ID 4. Restricted
  - Calls
  - 2. Volume & Vihrate
    - 1. Master Volume

- Keypad
- 3. Earpiece
- 4. Speaker
- 5. Vibrate Level 3. Message Alerts
- 1. Text Message
  - Picture Message
  - 3. Voicemail
  - 4. All Messages
  - Message Reminder
- 4. Alert Type Service Alerts
  - 1. Minute Beep
    - 2. Call Connect
    - 3. Back to Top
- 4. Low Battery Power On/Off
- Tone 7. Flip Tone
- 2. Display
  - 1. Wallpaper
  - 2. Banner

## Menus Overview

- 3. Backlight
  - 1. Display Timer
- Keypad Timer
  - Brightness
- 4. Menu Style
  - 5. Languages (Idiomas)
- 6. Clocks & Calendar
- 7. Font Settings
  - 1. Font Type
  - Dial Font Style
    - 3. Dial Font Size
- 8. Word Prediction
- Name Match for Dialing
- Security
  - Lock Phone
  - 2. Restrictions
  - 3. Emergency Numbers
  - Change Lock Code
  - 5. Master Reset

- 4. Call Settings
  - 1. Answer Options
  - 2. Auto Retry
    - 3. One Touch Dial
  - 4. Voice Privacy
  - 5. Airplane Mode
  - 6. TTY Mode
- Bluetooth
  - 1. Paired Devices
  - 2. Power
  - 3. My Visibility
  - 4. My Bluetooth Info
- 6. System
  - Network
    - System Select
    - 2. Set NAM
    - 3. Auto NAM
    - 4. Serving System
  - 2. Location
- 7. Web Access Prompt
- 8. Memory

- Reserved Memory
- 2. Multimedia
- 9. Phone Info
  - 1. My Number
  - 2. Current Battery Level
  - 3. ESN/MEID
  - 4. Icon Glossary
  - Version
  - Software Update

#### Tone Room Deluxe

## My Contacts Backup

## PAC-MAN

# Getting Started with Your Phone

## The Battery

#### Note

It is important to fully charge the battery before initial use of the phone.

The phone comes with a rechargeable battery. The battery charge level is shown at the top right corner of the LCD screen.

### Installing the Battery

- Remove the battery cover by pressing down above the LG logo and sliding the cover up.
- Align the battery contacts with the terminals near the top of the battery compartment, then press down on the battery until it clicks into place.
- Align the battery cover over the battery compartment and slide it downward until it clicks into place.



### Removing the Battery

- Turn the phone off and remove the battery cover by pressing down above the LG logo and sliding the cover up.
- Use the fingertip opening near the bottom of the battery compartment to lift the battery out.



## Getting Started with Your Phone

## Charging the Battery

Use the charger provided with your phone:

Warning! Use only the charger provided with the phone. Using any charger other than the one included with the AN160 may damage your phone or battery.



#### **Notice**

Please make sure that the 'B' side faces up before inserting a charger or USB cable into the charger/accessory port of your phone.

 Plug one end of the charging adapter into the phone's charger/accessory port and the other end into an electrical outlet. The charge time varies depending upon the battery level.

## **Battery Charge Level**

The battery charge level is shown at the top right corner of the LCD screen. When the battery charge level becomes low, the low battery sensor alerts you in up to three ways: sounding an audible tone, blinking the battery icon, and displaying a warning message. If the battery charge level becomes exceedingly low, the phone automatically switches off and any function in progress is not saved.

# Turning the Phone On and Off

### Turning the Phone On

- Install a charged battery or connect the phone to an external power source if the battery level is low.
- 2. Press for about 2 seconds until the LCD screen lights up.

#### Turning the Phone Off

Press and hold the until the LCD screen turns off.

## Signal Strength

Call quality depends on the signal strength in your area. The signal strength is indicated on the screen as the number of bars next to the signal strength icon — the more bars, the better the signal strength. If the signal quality is poor, move to an open area. If you are in a building, the reception may be better near a window.

#### Note

The call quality may also be affected by the places where you are and weather/ambient conditions.

## Getting Started with Your Phone

#### Screen Icons

To see the icon glossary, go to Menu -> Settings -> Phone Info -> Icon Glossary on your phone.

## Making Calls

- 1. With the phone turned on, open the flip.
- Enter the phone number (include the area code if needed).
- 3. Press SEND.

#### Note

If outgoing calls are restricted, you can only dial phone numbers saved in the Emergency Numbers To change your Emergency Numbers, do the following:

Menu -> ☐ Settings -> ☐ Security -> Lock Code -> ☐ Security -> Lock Code -> ☐ Calls ->

4. Press to end the call.

## **Correcting Dialing Mistakes**

If you make a mistake while dialing a number, press once to erase the last digit entered, or hold down for at least 2 seconds to erase all the digits you've entered and return to your home screen.

## **Redialing Calls**

 Press twice to redial the last number you dialed. The last 150 calls (50 missed, 50 received and 50 dialed) are stored in the call history list and you can also select any of these to redial.

## Receiving Calls

 When the phone rings and/or vibrates, press to answer, or open the flip (depending on your Answer Options).

### Tip

To change your answer options:

Menu -> 9 wwx Settings -> 4 call

Settings -> 1 a Answer Options.

Choose from the following options: Flip Open/ SEND Key Only/ Any Key/ Auto with Handsfree

#### Note

If you press (FINE OF . (the volume keys), while the phone is ringing, the ringing and/or vibration is muted for that call.

2. Press to end the call.

## Quick Access to Convenient Features

#### Lock Mode

Sets your phone to require a 4digit lock code in order to use the phone.

#### Note

Until you change it, the default lock code is the last 4 digits of your phone number.

To quickly lock your phone press for three seconds and enter your lock code. To unlock, press the Right Soft Key Unlock and enter your lock code.

#### **Mute Function**

The Mute Function is used during a phone call. To quickly activate Mute, press the Left Soft Key Mute. To cancel, press the Left Soft Key Mute.

## **Quick Volume Adjustments**

Use the volume keys to adjust the ringer volume while in the home screen and the earpiece volume during a phone call. The upper volume key increases the volume and the lower volume key decreases the volume.

#### Note

Keypad Volume is adjusted through the Volume & Vibrate submenu of the Sound menu:

Menu -> [3ww] Settings -> [1 & ]

Sound -> [2\*\* Volume & Vibrate -> [2\*\* Keypad -> Use [3\*\* to adjust volume and press [3\*\* ox ].

## Call Waiting

Your cellular service may offer call waiting. While a call is in progress, a beep indicates another incoming call. When call waiting is enabled, you may put the active call on hold while you answer the other

incoming call. Check with your cellular service provider for information about this function.

- 1. Press to answer a waiting call.
- 2. Press again to switch between calls.

### Caller ID

Caller ID displays the phone number or name of the incoming call. If the caller's identity is stored in Contacts, the name will appear along with the phone number. Check with your service provider to ensure they offer this feature.

## **Speed Dialing**

Speed dialing is a convenient feature that allows you to make phone calls quickly. A number key can be assigned to a specific phone number. By pressing and holding down a number key, your phone will recall the associated

phone number from the Contact List and dial it for you. Speed Dial Number 1 is set to Voicemail by default and is unchangeable.

# Dialing Single Digit Speed Dials (from 2 to 9)

Press and hold the Speed Dial number.

OR

Enter the Speed Dial number and press ...

# Dialing Double Digit Speed Dials (from 10 to 99)

Press the first digit and then press and hold the key of the second digit.

OR

Enter the first and second digits and press (SEND).

# **Entering and Editing Information**

## Text Input

You can customize and enter text in many of the functions in your phone, including, but not limited to: the Banner, Calendar, Contacts and more. While entering text, the following are your options:

### **Key Functions**

(-7

Left Soft Key:

Press to select one of the following text input modes:

T9Word: T9WORD/ T9Word/ T9word Abc: ABC/ Abc/ abc

123

Symbols

Shift Key: Press to change capitalization
T9 text : T9Word ->

T9WORD -> T9word Abc : Abc -> ABC -> abc Next: In T9 mode, press to display other matching words.

Space: Press to complete a word (in T9 mode) and insert a space.

Clear: Press to delete a single space or character. Hold to delete the whole message.

Punctuation: When entering text or numbers, press to enter punctuation marks or some of the available special characters.

## Contacts in Your Phone's

# The Basics of Storing Contacts Entries

- 1. From the home screen, enter the phone number you want to save (up to 48 digits).
- 2. Press Save to save the
- Select either Add New Contact or Update Existing.
- Use to highlight a Label and press .
   Mobile 1/ Home 1/ Office 1/ Mobile 2/ Home 2/
   Office 2/ Fax

#### Note

Use Update Existing to add another phone number to a contact already stored in memory.

# Phone Numbers With Pauses

When you call automated systems, such as voice mail or credit billing numbers, you often have to enter a series of numbers to navigate through the system. Instead of entering these numbers by hand, you can store the numbers in your Contacts separated by special pause characters (W, P). There are two different types of pauses you can use when storing a number:

## Wait (W)

The phone stops dialing until you press the Left Soft Key Release to advance to the next string of digits.

## Contacts in Your Phone's Memory

### Pause (P)

The phone waits 2 seconds before sending the next string of digits.

# Storing a Number with Pause or Wait

- 1. Press 
  Menu.
- 2. Press 1 a Contacts.
- 3. Press 1 New Contact.
- Enter a name (up to 32 characters) and enter a number.
- 5. While entering a number, press the Right Soft Key Options.
- 6. Press Super Wait or 4 GHI Pause.
- Enter the additional number(s) and press Save.

## Adding a Pause or Wait to an Existing Number

- From the home screen, press the Right Soft Key Contacts to display your Contacts alphabetically.
- Use to highlight the Contact entry to edit, then press ○ View.
- 3. Press the Left Soft Key **Edit**.
- 4. Use to highlight the number.
- 5. Press the Right Soft Key **Options**.
- 6. Press Wait or 4 GHI Pause.
- 7. Enter the additional number(s) and press Save.

# Searching Your Phone's Memory

The AN160 phone is able to perform a dynamic search of the contents in your phone's Contact List. A dynamic search compares entered letters or numbers on the keypad against the entries in your Contacts. A matching list is displayed in descending order. You can then select a number from the list to call or view it.

## Searching by Letter

- Press the Right Soft Key Contacts to display your Contacts alphabetically.
- Start entering the Contact name. The matching entries will be automatically highlighted.

# Scrolling Through Your Contacts

- Press the Right Soft Key Contacts to display your Contacts alphabetically.
- 2. Use 🗘 to scroll through the list.

## **Contacts Options**

- 1. Press the Right Soft Key Contacts.
- 2. Highlight a contact and press the Right Soft Key **Options**.
- Select an option (use and then press or press the corresponding number on the keypad):
- 1 Send Message: Send a text message or picture message to the selected contact.

## Contacts in Your Phone's Memory

- Page Delete: Delete the selected entry in your Contacts.
- Edit: Edit the selected contact information.
- Delete Multiple: Choose from Selective/ All to delete multiple entries at one time.
- Send via Bluetooth: Send a contact(vCard) via Bluetooth\*. In case Bluetooth\* power is not on, you will be prompted to turn Bluetooth\* on.
- Set Speed Dial/ Remove Speed Dial: Set as speed dial or remove as speed dial.
- Set as/ Unassign Favorite: Set the contacts as Favorite or unassign a Favorite contact.

# Making a Call From Your Phone's Memory

Once you have stored phone numbers in your Contacts, you can place calls to those numbers quickly and easily.

- By pressing the Right Soft Key
   Contacts, highlighting a number and pressing
- By using Speed Dialing.

#### From Contacts

- Press the Rights Soft Key
   Contacts to display your
   Contacts.
- Use to highlight the Contact entry, then press ◎.
- 3. Use to highlight the phone number.
- 4. Press to place the call.

### From Call History

- 1. Press ® Menu.
- 2. Press Some Call History.
- 3. Use 🗘 to highlight the type of recent call, then press 🗷.

# Missed Calls/Received Calls/Dialed Calls/All Calls

- 4. Use to highlight the phone number.
- 5. Press (SENO) to place the call.

## Speed Dialing

For a single-digit Speed Dial, press and hold the digit or press the digit, then press . For a double-digit Speed Dial, press the first digit and hold the second digit or press the first and second digits, then press .

## Phone Menus

## Contacts

The Contacts menu allows you to store names, phone numbers and other information in your phone's memory.

#### Note

When you access your Contacts, the number in parentheses represents the number of entries you have stored (up to 1000).

### 1. New Contact

Allows you to add a new contact to your Contact List.

- 1. Press 🥨 , 🔟 🖁 , 🔟 🖺 .
- Enter the name, then use to highlight the field you wish to store the contact information in.
- 3. Enter any contact information you wish.

 When you are finished entering the desired contact information, press Save to save the entry into your Contact List.

#### Note

Using this sub-menu, the number is saved as a new Contact. To save the number into an existing Contact, edit the Contact entry

### 2. Contact List

Allows you to view your Contact List.

- 1. Press ⊚ , 1 🖁 , ≥ABC.
- 2. Choose from the following options:
  - Use to scroll through your Contacts alphabetically.

- Press the Right Soft Key
   Options to select from the following options:
  - Send Message/ Delete/ Edit/ Delete Multiple/ Send via Bluetooth/ Set Speed Dial/ Set as Favorite
- Press 

   View to view the highlighted contact's information.
- Press the Left Soft Key 
   New to create a new
   Contact.

#### 3. Favorites

Allows you to create and view your Favorites contact list.

- 1. Press ⊙κ , 1 🖁 , 🗷 .
- 2. Press Assign to add a favorite.

- Select whether you want to add a favorite from your Contacts/ Groups.
- Use to scroll through your Contacts or Groups alphabetically and press Select.
- Press the Left Soft Key Done to add the contact(s) to your Favorites.

Once you have added Contacts to the Favorites list, the following options will become available in the Favorites menu:

- Left Soft Key : [Message]
- Right Soft Key : [Options]
   View/ Remove/ Remove
   Multiple/ Move Position
- OK Key 🐼 : [Chat]

## Contacts

## 4. Groups

Allows you to view your grouped Contacts, add a new group, change the name of a group, or delete a whole group.

- 1. Press 🛈 , 🛛 🖁 , 🗗 .
- 2. Choose from the following options:
  - Use to highlight a group, then press View to view the contacts in the selected group.
  - Press the Left Soft Key
     New to add a new group.
  - Use to highlight a group, then press the Right Soft Key Options to choose from the following options:

Delete/ Send Message/ Rename Group/ Group Ringtone/ Delete All/ Set as Favorite

## 5. Speed Dials

Allows you to view your Speed Dials list, designate new Speed Dials, or remove Speed Dial designations entered in your Contacts.

- 1. Press ⋘ , 1 ≗ , 5 κ.
- 2. Use to highlight the desired Speed Dial location (or press the Speed Dial digit on the keypad) and press & Assign.
- 3. Use to highlight the Contact.
- 4. Use to choose a number, then press .

A confirmation message is displayed.

### 6. My vCard

Allows you to edit your vCard, which you can then send to others via Bluetooth.

- 1. Press 🕟 , 🔟 , 🗗 , 🖼
- 3. Edit the information as desired and press Save.

#### Note

You cannot edit the Mobile 1 field but you can add additional contact info.

## Messaging

The phone can store up to 835 messages, including a maximum of 500 SMS, 100 MMS, and 100 MMS notification messages in the Inbox; 50 SMS and 50 MMS in the Outbox; and 15 SMS and 20 MMS in the Drafts folder. The information stored in the message is determined by phone model and service capability. Other limits, such as available characters per message, may exist. Please check with your service provider for system features and capabilities.

### 1. New Text Message

Allows you to send text messages and e-mail messages.

## Messaging

# The Basics of Sending a Text Message

- 1. Press 🕟 , 🔼 , 🕽 🖁 .
- 2. Enter the recipient's address in the To field.
- Press to access the text field.
- 4. Use the keypad to enter your message.
- 5. Press Send.

A confirmation message is displayed.

# Select Recipient(s) Using Options

- 1. Press ⊚, , 2<sup>ABC</sup>, 1 ≗ .
- 2. With the **To** field highlighted, press the Right Soft Key **Options**.
- 3. Use to highlight an option and press .

**Contacts** To select a recipient from your Contact List.

**Call History** To select a recipient from your Call History.

Recent Messages Choose Inbox/ Outbox to select a recipient from your Recent Messages.

**Groups** Select a recipient from your Groups.

**Cancel** Cancels editing your message.

4. Complete your message and send or save it.

# Customize Your Text Message Using Options

While you are composing the text of a message, you have various options to customize the text.

- 1. Press (K), (2ABC), (1 & ).
- 2. Enter the recipient's address.
- 3. Use or press ◎ to access the text field.
- 4. Press the Right Soft Key **Options**.
- 5. Use to highlight an option and press .

Insert Templates/ Signature/ Name & Number

Save As Drafts/Templates
Priority Level High/ Normal
Callback Number On/ Off

Cancel Cancels editing your message.

Complete your message and send or save it.

#### Message Icon Reference

#### Inhox





Opened/Read Notification Message

High Priority Message

#### Outbox







#### Drafts





## Messaging

### 2. New Picture Message

Allows you send messages with text, image and audio attachments.

- 1. Press ©K, PABC, PABC.
- Enter the recipient's address, or press Right Soft Key ☐ Options to search recent contacts and press to select the desired contact.
- 3. Use to access the Subject and Text fields.
- 4. Enter your subject and message.
- 5. Highlight the Image field, press the Left Soft Key ✓ Add, and press ⊗ to select: Image/ Take Photo
- If Image is chosen, use to highlight a file, then press the Left Soft Key Set.

#### OR

If **Take Photo** is chosen, take a picture of the subject and press 
Set.

- 7. Highlight the Audio field and press the Left Soft Key Add to enter My Sounds.
- Press 
  Play to play the highlighted file.
- Press the Right Soft Key
   Set to attach the highlighted file.
- 8. When editing a field, the following options are available by pressing the Right Soft Key 
  Options.
- \* Editing the To: field Contacts/ Call History/ Recent Messages/ Groups/ Online Album/ Cancel

- \* Editing the Subject/Text field Preview/ Add/ Go to/ Save As/ Priority Level/ Remove/ Cancel
- Editing the Image/Audio field Preview/ Add Slide/ Go to/ Save As Draft/ Priority Level/ Remove/ Cancel
- 9. Press ® Send.

#### 3. Inbox

The phone can alert you in several ways when you receive a new message, including:

- Displaying a notification message on the screen.
- Displaying the message icon

   M on the status bar (It blinks when the message is urgent).
- Ringing and/or vibrating (depending on the Volume settings).

Received messages are displayed from newest to oldest.

#### Viewing Your Inbox

Up to 700 (500 SMS, 100 MMS and 100 MMS Notifications) messages can be stored in the Inbox.

1. Press OK . ZABC . BDEF .

## Messaging

- 2. Use to highlight an inbox message.
- 3. Press the Left Soft Key Reply/ D-load to reply to the message or download the attachment, the Right Soft Key Doptions, or View/ Chat to view the message.

The following options are available in the Options menu:

For text messages: View/ Change View Type/ Delete/ Forward/ Save Contact/ Lock/ Message Info/ Delete Multiple

For picture messages: Delete/ Forward/ Save Contact/ Lock/ Message Info/ Delete Multiple

4. Once you select the **View** option for the message, press

the Left Soft Key Reply to reply or the Right Soft Key Options to view the following additional options.

Delete Deletes the selected message.

Forward Forwards a received message to other destination address(es).

Save Contact Stores the callback number, e-mail address, and numbers in the received message into your Contacts.

Save To Templates Stores the message as a template for future messages.

Call Back Calls the number in the received message.

Go To URL Connects you to the URL included in the message (if available).

**Lock/Unlock** Locks or unlocks the selected message.

Message Info Shows information about the message, such as type, priority, and status.

#### Note

For picture messages:

Play Again/ Delete/ Reply as Picture Message\*/ Forward/ Save Contact/ Save Media/ Lock/ Go To URL/ Extract Address/ Message Info

\* If the Reply Setting (Menu > Messaging > Settings > All Messages > Reply Settings) is set to Text Message Only.

### 4. Outbox

Up to 100 sent messages (50 SMS and 50 MMS) can be stored in the Outbox folder. View the contents of sent messages and verify whether the transmission was successful (if verification is supported by network).

- 1. Press OK, 2ABC, 4GHI.
- 2. Use to highlight a sent message.

 While viewing the selected sent message, press the Left Soft Key Resend to resend the message to the recipient, or the Right Soft Key Options to access the additional options:

**Delete** Deletes the selected message.

Forward Forwards the message to other destination address(es).

Save Contact Stores the callback number, e-mail address, and numbers in the sent message into your Contacts.

Save To Templates Stores the message as a template for future messages.

Lock/Unlock Locks the selected so that it cannot be deleted.

Message Info Shows information about the message, such as type, priority, and status.

## Messaging

#### Note

For picture messages:

Play Again/ Delete/ Forward/ Save Contact/ Save Media/ Lock/ Extract Address/ Message Info

#### 5. Drafts

Displays saved draft messages.

- 1. Press OK, PABC, SJKL.
- Use to highlight a Draft message. Options available are:
- Press the Right Soft Key
   Options for the following options:

**Delete** Deletes the selected message from the Drafts folder.

Save Contact Add New Contact/ Update Existing

Lock Locks a message so that it cannot be deleted.

Delete Multiple Selective/

#### 6. Voicemail

Allows you to access new voice messages recorded in your voicemail. Your phone will notify you when you receive a new voice message.

#### Checking Your Voicemail

- 1. Press OK, 2ABC, 6MNO.
- 2. Choose from the following options:
- Press the Left Soft Key Clear to clear the voicemail counter.
- Press to listen to the message(s).
- Press the Right Soft Key Exit to return to the Messaging menu.

### 7. Templates

Allows you to display, edit, and add text phrases. These text strings allow you to reduce manual text input into messages.

- 1. Press OK , 2ABC , 7PQRS.
- Press the Left Soft Key New to create a new template.
- Enter text and press Save to save the template.
- 4. Use to highlight a template and press the Right Soft Key Options, then highlight an option and press to select:

Edit/ Delete

### 8. Settings

Allows you to configure Messaging settings.

- 1. Press OK, 2ABC, BTUV.
- 2. Use to highlight All Messages/ Text Message/ Picture Message/ Edit Voicemail Number then press .
- 3. Use to highlight one of the submenus and pressto select it.

## Messaging

# Message Settings Sub-Menu Descriptions

#### All Message

1. Reply Setting (Text Message Only/ Selection)
With Text Message Only on, replies to messages will automatically start as text messages. With Selection on, you will have the choice to reply with a Text or Picture Message.

### 2. Auto Save (Auto Save/ Prompt/ Do Not Save)

You can choose to automatically save messages in the Outbox, get prompted if you want to save the messages, or not save the messages at all.

#### 3. Auto Delete (On/ Off)

With this feature on, read messages are automatically deleted when you exceed the storage limit.

# 4. Entry Mode (T9Word/ Abc/ 123)

Allows you to select the default input method.

### 5. Signature (On/ Off/ Edit)

Allows you to make/edit a signature to automatically send with your messages.

#### Text Message

#### 1. Auto View (On/ Off)

When set to On, new messages will automatically display on your screen when they are received.

### Callback Number (On/ Off/ Edit)

With this feature on, you can input the callback number that will be automatically included when you send a message.

#### Picture Message

#### 1. Auto Receive (On/Off)

With this set to On, Multimedia content will be automatically downloaded when a new picture message is received.

#### Edit Voicemail Number

Allows you to manually enter the access number for your Voicemail Service. This feature should only be used when a VMS (Voicemail Service) access number is not provided from the network.

#### 9. Delete All

Allows you to erase the messages stored in your Inbox, Sent, or Drafts message folders. You can also erase all messages at the same time.

- 1. Press OK, PABC, PWAYZ.
- Use to highlight an option: Delete Inbox/ Delete Outbox/ Delete Drafts/ Delete All Messages, then press €.
- 3. Use to highlight Yes/ No and press ⊗.

## Call History

## **Call History**

The Call History menu has lists of phone numbers and/or Contacts entries for calls you placed, accepted, or missed. It is continually updated as new numbers are added to the beginning of the list and the oldest entries are removed from the bottom of the list.

#### Note

To quickly view a list of all your recent calls, press the **SEND Key**SEND from the home screen.

#### 1. Missed Calls

Allows you to view the list of missed calls, up to 50 entries.

- 1. Press ⊚ , ∃ □ , 1 ≗.
- 2. Use to highlight an entry.

#### 2. Received Calls

Allows you to view the list of

incoming calls, up to 50 entries.

- 1. Press OK, BDEF, ZABC.
- 2. Use ( to highlight an entry.

#### 3. Dialed Calls

Allows you to view the list of outgoing calls, up to 50 entries.

- 1. Press OK, BDEF, BDEF.
- 2. Use to highlight an entry.

#### 4. All Calls

Allows you to view the list of missed, received and dialed of calls, up to 150 entries.

- 1. Press OK, BDEF, 4GHI.
- 2. Use ( to highlight an entry.

### 5. Call Timer

Allows you to view the duration of selected calls.

- 1. Press OK, BDEF, SJKL.
- 2. Use to highlight a call type.

Last Call/ Home Calls/ Roam Calls/ All Calls

3. Press the Left Soft Key Reset to reset the call timer for the highlighted call type.

#### 6. Data Counter

Allows you to view the amount of Received and Sent data.

- 1. Press OK . BDEF . 6MNO.
- 2. Use to highlight a data type.

Received Data/ Sent Data/

Press the Left Soft Key Reset to reset the data counter for the highlighted data type.

### Multimedia

View, take, and trade your digital pictures right from your wireless phone.

#### 1. Take Photo

- 1. Press 🕟 , 👍 , 1 🖁 .
- 2. Press to access the following camera options (if necessary):

#### Note

You cannot use the zoom function at the maximum resolution level (480X640).

- Brightness Allows you to adjust the brightness level.
- Resolution 480X640/ 240X320/ 144X176/ 120X160

### Multimedia

- Capture Allows you to take a picture.
- Zoom Allows you to adjust the Zoom level (not available at the highest resolution).
- Multishot Off/ 3 shots/ 6 shots
- Press the Left Soft Key Sallery to access My Images or press the Right Soft Key Options for the following options:
- Options Tab

Color Effects Color/ Sepia/ Mono/ Negative White Balance Auto/ Sunny/ Cloudy/ Tungsten/ Fluorescent Night Mode On/ Off Self Timer Off/ 3 Seconds/ 5 Seconds/ 10 Seconds Frame On/ Off

- Settings Tab
   Quality Fine/ Normal/
   Economy
   Shutter Sound None/ Sound 1/
   Sound 2/ Sound 3/ Sound 4
   Auto Save On/ Off
   Send Reminder On/ Off
   Reset Yes/ No
- 4. Take a picture by pressing 
  Capture.
- 5. Select Send, Send to Online Album, or View after the picture is taken. Send will open a new Picture Message. Send to Online Album will send the picture to your online album for storage. View will offer the following options:
  - Save Allows you to save the photo to your phone.
  - Gallery Saves the photo and opens your My Images gallery.

- Send Allows you to send by Picture Message, via Bluetooth, or to your Online Album.
- Set As Allows you to set as the Wallpaper or as a Picture ID.
- Delete Deletes the photo and returns to the Camera so you can take another picture.

#### 2. Record Voice

Allows you to add, listen to, and erase short verbal reminders.

- 1. Press (K), (4 GHI), (2ABC).
- 2. Press Record to record a new voice memo.
- 3. Talk into the microphone, then press Stop.

4. Once you've stopped the recording, press the Right Soft Key Options to access the following:

Set As/ Rename/ Delete OR

Press the Left Soft Key **Save** to save the file. The default memo title is the date and time of recording.

OR

Press Send to send the file in a Picture Message or via Bluetooth.

### 3. Images

Allows you to view the saved images on your phone. You can also select images to customize your phone's Main Screen or Picture ID.

1. Press (K), 4 GHI, 3 DEF.

### Multimedia

- 2. Use to highlight My Images/ Default and press
  .
- Use to highlight an image. Once you have an image highlighted, you can:
  - Press the Right Soft Key
     Options to access the following options (If you select Edit, please see the Edit Options section for available Edit options.):

Set As/ Slide Show/ Edit/ Image Effects/ Take Photo/ Delete/ Rename/ Lock/Unlock/ List View/ File Info/ Sort By

- Press the Left Soft Key Send to send the selected image to somebody else.

#### **Edit Options**

Zoom Allows you to zoom in/out of the image. Please note, it does not save the resulting image.

Rotate Rotates an image in steps of 90 degrees.

Flip Flips an image horizontally or vertically.

Enhancement Automatically enhances an image by enhancing white balance, contrast and local boost.

Brightening Brightens the image.

White Balancing Performs an automatic white balance adjustment for the image.

Local Intensity Boost This effect enhances images taken in poor light environments. The effect is especially useful when taking photos in direct light or for enhancing details in dark images.

#### 4. Sounds

Allows you to access saved audio clips or create new ones on your phone.

- 1. Press (OK), (4 GHI), (4 GHI).
- 2. Press the Left Soft Key Voice to record an audio clip.
- 3. Press ® **Record** to begin recording.
- While recording, press the Left Soft Key Pause to pause, or Stop to stop recording.
- 5. When you are finished recording, press the Left Soft Key Save to save the audio clip, Send to send the audio clip to somebody else, or press the Right Soft Key Options to access additional options:

Set As (Ringtone/ Contact ID/ Alert Sounds)/ Rename/ Delete.

Or

- 1. Use to highlight My Sounds/ Default and press .
- Use to highlight the audio clip. The following options are available:
  - Press the Left Soft Key
     Send to send the selected
     audio clip to somebody
     else. Please note that this
     option is not available for
     files in the Default folder.
  - Press 
     Play to play the selected audio clip.
  - Press the Right Soft Key
     Options to access the following options:

## easyedge<sup>SM</sup>

For My Sounds files: Set As/ Record Voice/ Delete/ Rename/ Lock/Unlock / File Info/ Sort By

For Default files: Set As (Ringtone/ Contact ID/ Alert Sounds)

## **easyedge**<sup>SM</sup>

easyedge<sup>SM</sup> allows you to do more than just talk on your phone. easyedge<sup>SM</sup> is a technology and service that allows you to download and use applications on your phone. With easyedge<sup>SM</sup>, it is quick and easy to personalize your phone to suit your lifestyle and tastes. Just download the applications that appeal to you. From ringtones and wallpapers to games and productivity tools, you can be assured you will find something useful, practical, or downright entertaining. There are new applications constantly available for your use.

### **Downloading Applications**

You can download applications and use **easy**edge<sup>SM</sup> where service is available.

#### Incoming Calls

When using applications, an incoming call will automatically pause the application and allow you to answer the call. When you complete your call, you can resume using the application.

## 1. easyedge<sup>SM</sup> Apps

1. Press <sup>⊙</sup>, <sup>□</sup>5 <sup>™</sup>L.

#### **Shortcut**

From the Home screen, press to start **easy**edge<sup>sM</sup>.

## My Schedule

#### 1. Alarm Clock

Allows you to set up to five alarms. At the alarm time, any set alarm can sound (depending on your Master Volume settings) the tone of your choice, and an alarm message will be displayed on the LCD screen.

- 1. Press <sup>⊙K</sup> , ₅™ , 1 ≗.
- 2. Use to highlight the alarm you wish to set, then press to select it.
- Highlight Set Time and press the Left Soft Key Set to set an alarm time. Once you set the desired time, press
   ...
- 4. Use to highlight Repeat (recurrence setting).

## My Schedule

- 5. Press the Left Soft Key

  Set to select one of the
  following.

  Once/ Daily/ Mon Fri/
  Weekends
- Use to highlight
   Ringtone, press the Left Soft
   Key Set and browse for a ringtone.
- Use to highlight Snooze and press the Left Soft Key
   Set to select from the following options.
   None/ After 5 minutes/
   After 10 minutes/ After 30 minutes/ After 1 hour
- 8. Press Save.

#### 2. Calendar

Allows you to store and access your agenda(s). Simply enter your appointments in the Calendar, and your phone can (depending on your settings) alert you with a reminder.

- 1. Press 🕟 , 🖘 , 🕰 .
- 2. Use 💮 to highlight a day.
  - Moves to the previous day.
  - Moves to the next day.
  - Moves to the previous week.
  - Moves to the next week.
- 3. Press the Left Soft Key 
  New.
- 4. Use to highlight the field you wish to edit, then press the Left Soft Key Set to edit the following schedule information:

- Subject
- Start Time
- End Time
- Reminder
- Repeat
- Until
- Ringtone
- 5. Press 🐼 Save.

### 3. Notepad

Allows you to add, read, edit, and erase notes to yourself.

- 1. Press 🕟 , 🗗 , 🖃 DEF
- 2. Press the Left Soft Key New to write a new note.
- 3. Type the note, then press Save.

A confirmation message displays briefly and your list of saved notes is displayed.

#### Viewing a Notepad Entry

 Access Notepad and highlight the entry.

- 2. Press the Right Soft Key Options to access the following available options:
  - 💵 Delete
  - ≥ABC Edit
  - BDEF Delete All

OR

To edit a note, highlight the entry, then press View and press the Left Soft Key Edit. You can also press the Right Soft Key Delete to delete the note.

#### Browser

#### **Browser**

The Browser feature allows you to view Internet content.
Accessibility and selections within this feature are dependent upon your service provider. For specific information on the Web, contact your service provider.

#### 1. Start Browser

Allows you to initiate a Web session.

- 1. Press OK , 7PQRS.
- Your default home page will load.

#### **Ending an Web Session**

End a Web session by pressing

#### Browser Menu

The Browser Menu provides the following toolbar options:

- Home Returns you to the Homepage.
- Back To go back to the previous page.
- Forward If available, takes you back to the next page.
- Bookmarks Takes you to the Bookmarks menu where you can add, edit, and delete your bookmarks.
- Go to URL Allows you to enter a Web address to visit.
- Refresh Allows you to reload the current Web page.
- History Displays a list of visited web pages.
- Clear Memory Mallows you to clear the memory.

- Search Directs you to the Google search engine.
- Send Link Allows you to send the link of the current page via a text message.
- Show URL Shows you the current URL.
- Save Items Allows you to save items from the web page.
- Settings Allows you to configure the following Browser settings:

Homepage Allows you to set your Homepage.

Downloads Allows you to configure whether you want to enable or disable image, background, and object downloads.

Restart Browser Allows you to restart the Browser.

Scroll Mode Allows you to customize the scrolling settings.

**Send Referrer** Allows you to turn the HTTP Send Referrer Header on or off.

**Key Press Timeout** Set the key press timeout.

Connection Timeout Set the connection timeout.

- Advanced Shows you the information of the Browser, including the version and license information.
- Exit Allows you to exit the Browser.

### Tools

#### Tools

Your phone's tools include: Voice Command, Calculator, My Menu, Ez Tip Calculator, World Clock, Stopwatch, and Unit Converter.

#### 1. Voice Command

Allows you to use voice commands to use your phone, including to make phone calls quickly and easily by voice. This feature is useful for those who are driving or blind. It also announces time information by voice and allows you to check missed calls, messages and voicemails.

#### 1.1 Start Command

1. Press ⋘, ⊠™, 1 ♣, 1 ♣. OR

From the Home screen, press the CLR/ Voice Command Key

#### 1.1.1 Call <Name> or <Number>

- 1. Press (%), (81w), (1 &), (1 &), (1 &).
  OR
  - From the Home screen, press the CLR/ Voice Command Key and say "Call".
- Say the Contact name (and phone type, if necessary) or number.

#### 1.1.2 Voicemail

- 1. Press ⋘, B₁vv, 1 ♣, 1 ♣, 2ABC.
  - From the Home screen, press the CLR/ Voice Command Key and say "Voicemail".
- 2. Press to call Voicemail or say **Yes** or **No** when prompted.

#### 1.1.3 Missed Calls

1. Press ⋘, w, [1 ≗], [1 ≗], or.

OR

From the Home screen, press
the CLR/ Voice Command Key

and say "Missed Calls".

2. The phone will prompt you to dial each number. Say Yes or No to proceed.

#### 1.1.4 Messages

1. Press ⋘, █₩, 1 ♣, 1 ♣, 4 ௸. OR

From the Home screen, press the CLR/ Voice Command Key and say "Messages".

The phone will prompt you to dial each number from your messages. Say Yes or No to proceed.

#### 1.1.5 Time & Date

From the Home screen, press the CLR/ Voice Command Key and say "Time & Date".

#### 1.1.6 Help

1. Press ⊙K, BTUV, 1 ♣, 1 ♣,

OR

From the Home screen, press the CLR/ Voice Command Key and say "Help".

#### 1.2 Command Mode

Allows you to set Command Mode to Normal or Speed (The Speed setting allows you to access and use the Voice Command functions more quickly with a faster non-verbal prompt).

### Tools

- 1. Press <sup>⊙K</sup>, Bτυν, 1 ♣, ≥ABC.
- 2. Select an option. Normal/ Speed

#### 1.3 Announce Alert

Allows you to customize Announce Alert. Announce Alert lets your hear more information about an incoming call or message instead of, or along with, your ringtone.

- 1. Press (K), (BTUV), (1 &), (BDEF).
- Select an option.
   Disable/ Announce/
   Announce + Ring

#### 1 4 Train Word

Allows you to train words for improved Voice Command responses.

1. Press ©K, 8TUV, 1 &, 4GH

2. Select an option.
Voice Command/ Answer/
Digit Dial

#### 1.5 Best Match

Allows you to choose whether the phone displays 1 or up to the 4 closest matches when using the "Call <Name> or <Number>" function.

- 1. Press ()K, (8TW), (1 &), (5 JKL).
- Select an option.
   Match/ 4 Matches

#### 2. Calculator

Allows you to perform simple mathematical calculations.

- 1. Press ©K, BTUV, ZABC.
- 2. Enter data.
  - Use the keypad to enter numbers.
  - Use \*\* to enter decimals.
  - Use # to insert parentheses.
  - Press the Left Soft Key Reset to erase the entry.
  - Press the Right Soft Key
     Options for additional calculating options.
  - Use the Navigation Keys to enter functions.
- 3. Press os to complete equation.

### 3. My Menu

Allows you quick access to your favorite menus. A maximum of 12 items can be stored in My Menu.

- 1. Press ©K, BTUV, BDEF.
- Highlight the location of your choice by using ○, then press Set.
- 3. Browse to the menu you wish to add to My Menu by using ○, then press Set.
- 4. After you have set all your shortcuts, you can press the Right Soft Key Options for the following options.
  Change Menu/ Move menu to/ Delete Menu/ Delete All

### 4. Ez Tip Calculator

Allows you to quickly and easily estimate the tip and total amount of a bill by inputting the bill amount before tip, the tip percentage, and dividing it by the number of people paying.

- 1. Press ©K, BTUV, 4 GHI.
- Highlight the Bill field and enter the amount using the keypad.
- 3. Highlight the **Tip** (%) field and use to increase or decrease the amount.
- 4. Highlight the **Split** field and use to increase or decrease the amount.
- The corresponding calculation fields (Tip (\$) and Total) are automatically calculated.

Press the Left Soft Key Reset to begin another calculation.

#### 5. World Clock

Allows you to determine the current time in another time zone or country.

- 1. Press ⋘, B™, Бж.
- 2. Press the Left Soft Key New to open the map and press to zoom in.
- Press the Left Soft Key —
  City to see the cities located
  in the highlighted area.

OR

Press the Right Soft Key Search to search through all available cities.

4. Press ® to select the highlighted city.

 After you have set all your cities, you can press the Right Soft Key Options and select Daylight Saving Time.

### 6. Stopwatch

Allows you to use your phone as a stopwatch.

- 1. Press ⊙K, BTUV, Б™Ю.
- 2. Press Start to start the Stopwatch and press Stop to stop it.
  - You can use the Lap function by pressing the Left Soft Key Lap to record up to 99 laps and lap times.
- 3. After stopping the Stopwatch, press the Right Soft Key Reset to reset.

#### 7. Unit Converter

Allows you to convert units of Currency, Area, Length, Mass, Temperature, Volume and Velocity.

- 1. Press OK, BTUV, 7 PORS.
- 2. Select a unit type.
- Use to select the known unit type then enter the unit amount. The conversions will be calculated automatically.

## Settings

## **Settings**

#### 1. Sound

Allows you to customize your phone's sounds.

### 1.1 Ringtones

Allows you to assign ringtones for incoming calls.

- 1. Press ⊙K, 🖭, 🗓 🖁 .
- Select All Calls/ Caller ID/ No Caller ID/ Restricted Calls.
- 3. Select My Sounds or Default.
- 4. Use to highlight the ringtone.
- 5. Press 

  Play to preview the ringtone or the Left Soft Key

  Set to set the ringtone to your phone.

#### 1.2 Volume & Vibrate

Allows you to set various volume settings.

- 1. Press ©K, 9WXZ, 1 &, 2ABC.
- 2. Select Master Volume/ Keypad/ Earpiece/ Speaker/ Vibrate Level.
- 3. Use to adjust the volume of the ringer, then press to save the setting.

### 1.3 Message Alerts

Allows you to select the alert tone for new message notifications and set the frequency of the Message Reminder.

- 1. Press ©K, 9WXZ, 1 &, 3DEF.
- Select Text Message/ Picture Message/ Voicemail/ All Messages/ Message Reminder.

- 3. Select My Sounds or Default.
- 4. Use 🕠 to highlight the ringtone.
- Press Play to preview the alert tone or the Left Soft Key
   Set to set the alert tone to your phone.

For Message Reminder, choose from Once/ Every 2 Minutes/ Every 15 Minutes/ Off and press ...

### 1.4 Alert Type

Allows you to select the alert types.

- 1. Press <sup>⊙K</sup>, <sup>□</sup>9<sup>WOYZ</sup>, <sup>□</sup> <sup>1</sup> <sup>1</sup> , <sup>1</sup> 4 <sup>GH</sup>.
- Use to highlight the alert you wish to edit.
   Call Alert/ Message Alert/ Schedule Alert/ Alarm Alert/ F911 Alert

- 3. Use to scroll through the following alert types:
  Ring Only/ Vibrate Only/
  Ring & Vibrate
- 4. Press (ok) to save.

#### 1.5 Service Alerts

Allows you to set any of the Service Alert preferences.

- 1. Press ⋘, ໑ʷơz, 1 ≗, ҕႊ.
- 2. Select an alert type.

#### 1.5.1 Minute Beep

Alerts you 10 seconds before the end of every minute during a call.

#### 1.5.2 Call Connect

Alerts you when the call is connected.

#### 1.5.3 Back to Top

Alerts you when you scroll through the end of a menu list.

## Settings

#### 1.5.4 Low Battery

Alerts you when the battery charge level is low.

3. Use to highlight On/ Off, then press . For Low Battery option, choose from Announce/ Tone.

#### 1.6 Power On/Off Tone

Allows you to set the phone to sound a tone when the phone is powered on and off.

- 1. Press ⊙K, ᠑₩X/Z, 1 ♣, ७мко.
- 2. Use to highlight On/ Off, then press ◎.

### 1.7 Flip Tone

Allows you to turn Flip Tone On or Off.

- 1. Press ⊙K, ᠑wxz, 1 ♣, 7 №.
- 2. Use to highlight On/Off, then press.

### 2. Display

Allows you to customize your phone's display screen.

### 2.1 Wallpaper

Allows you to choose the kind of background to be displayed on the phone.

- 1. Press (K), (9 WAXZ), (2 ABC), (1 &).
- 2. Select My Images or Default.
- 3. Press Simular View to preview the wallpaper or the Left Soft Key Set to set the wallpaper to your phone.

#### 2.2 Banner

Allows you to enter a string of characters which display on the LCD screen.

- 1. Press OK, SWAYZ, ZABC, ZABC.
- 2. Use to scroll between On/ Off.

- 3. Use to highlight the Text field.
- 4. Press the Left Soft Key 
  Abc to change the text entry options, input the desired text and press 
  Save to save the banner or press the Right Soft Key 
  Cancel to cancel editing your banner.

### 2.3 Backlight

Allows you to set the duration for illuminating the backlight.

- 1. Press OK, SWAYZ, ZABC, BDEF.
- 2. Highlight Display Timer/ Keypad Timer/ Brightness, then press ③.
- 3. Use to highlight a setting, then press ≪.

### 2.4 Menu Style

Allows you to view the Menu in either Icon or List view.

- 1. Press (OK), (9WAYZ), (2ABC), (4GHI).
- 2. Highlight **Icon** or **List** and press ®.

### 2.5 Languages (Idiomas)

Allows you to use the bilingual feature according to your preference. Choose between English and Spanish.

- 1. Press ©K, 9WAYZ, 2ABC, 5JKL.
- Use to highlight English or Español, then press ◎.

#### 2.6 Clocks & Calendar

Allows you to select the type of clocks displayed on the main LCD screen and Front Screen.

1. Press OK. 9WAZ, ZABC, 6MNO.

## Settings

- 2. Use to highlight Main Screen/ Front Screen and press .
- 3. Use to scroll through
  Normal Clock/Analog
  Clock/Digital 12
  Clock/Digital 24 Clock/
  Dual Clock/Calendar/ Off
  Options for Front Screen:
  Digtal Clock/Minimize.

### 2.7 Font Settings

Allows you to select the type of font displayed on the LCD screen.

- 1. Press OK. 9WX/Z. ZABC, 7PQRS.
- 2. Highlight Font Type/ Dial Font Style/ Dial Font Size and press <sup>™</sup>.
- 3. Use to highlight an option, then press .

Options for Font Type

LG Gothic/ LG Greentea/ LG Mint/ LG Round/ LG Secret

Options for Dial Font Style

Digital/ Blackboard/ Sketchbook/ Sky/ Basic

Options for Dial Font Size

Normal/ Large

#### 2.8 Word Prediction

Allows you to activate word prediction, a function that uses your past text entries to predict what your next word will be.

- 1. Press ©K, 9WXZ, 2ABC, 8TUV.
- 2. Use to highlight On/ Off, then press .

#### 2.9 Name Match for Dialing

- 1. Press ©K, 9W0Z, 2ABC, 9W0Z.
- 2. Use to highlight On/ Off, then press ⊗.

### 3. Security

The Security menu allows you to secure the phone electronically.

#### 3.1 Lock Phone

Keeps your phone from unauthorized use. Once the phone is locked, it is in restricted mode until the Lock Code is entered. You can still receive phone calls and make emergency calls. You can modify the Lock Code in the Change Lock Code sub-menu of the Security menu.

- 1. Press ©K, Swaz, SDEF.
- 2. Enter the four-digit Lock Code.

The default Lock Code is usually the last 4 digits of your phone number.

- 3. Press 1 Lock Phone.
- 4. Use to highlight an option, then press . ■.

**Unlock** The phone remains unlocked by default, until it is locked manually.

Lock Locks the phone. When locked, you can receive incoming calls and make calls only to Emergency Numbers (
Menu > Menu > Enter the four-digit Lock Code > Emergency Numbers).

On Power Up The phone is locked when it is turned on.

## Settings

#### 3.2 Restrictions

Allows you to set restrictions for Calls, SMS Messages, MMS Messages, IP Connection.

- 1. Press ©K, SWAYZ, BDEF.
- Enter the four-digit Lock Code.
- 3. Press Restrictions.
- Use to highlight Calls/ SMS Messages/ MMS Messages/ IP Connections, then press s.
- 5. Choose a submenu and the type of restriction and pressto set.
- Enter the four-digit Service Lock Code.

#### Note

You can receive the incoming calls from saved contacts on your phone when Contacts Only is on.

#### 3.3 Emergency Numbers

Allows you to enter 3 emergency numbers. You can call these emergency numbers and 911, even when the phone is locked or restricted.

- 1. Press ©K, 9WAZ, 3DEF.
- Enter the four-digit Lock Code.
- 3. Press Emergency Numbers.
- 4. Highlight one of the 3 options, then press 

  to edit the emergency numbers. 

  to edit

## 3.4 Change Lock Code

Allows you to enter a new fourdigit Lock Code.

- 1. Press ©K, Swaz, SDEF.
- 2. Enter the four-digit Lock Code.
- 3. Press 4 change Lock Code.
- 4. Use to highlight an option, then press .

Phone Only Allows you to change the Lock Code used to lock/unlock the phone.

Call & Applications Allows you to change the Service Lock Code that is used to access the Restrictions menu.

5. Enter the four-digit Lock Code.

- Enter a new 4-digit Lock Code.
- For confirmation, the phone will ask you to enter the new Lock Code again.

### 3.5 Master Reset

Allows you to reset your phone settings to the factory default settings.

- 1. Press (OK), (SWXZ), (SDEF).
- 2. Enter the four-digit Lock Code.
- 3. Press 5 Master Reset.
- 5. Use to highlight Revert/Cancel and press .

# Settings

If you choose Revert, enter your four-digit Lock Code to confirm your selection.

# 4. Call Settings

The Call Settings menu allows you to designate how the phone handles both incoming and outgoing calls.

## 4.1 Answer Options

Allows you to determine how to answer an incoming call.

- 1. Press (S), (9)(X), (4)(H), (1)(1)
- Use to highlight Flip
  Open/SEND Key Only/Any
  Key/Auto with Handsfree,
  then press .

## 4.2 Auto Retry

Allows you to set the length of time the phone waits before

automatically redialing a number when the attempted call fails.

- 1. Press OK, SWAYZ, 4GHI, ZABC.
- Use to highlight Off/ Every 10 Seconds/ Every 30 Seconds/ Every 60 Seconds, then press .

### 4.3 One Touch Dial

Allows you to initiate a Speed Dial call by pressing and holding the Speed Dial digit. If set to Off, Speed Dial numbers designated in your Contacts will not function.

- 1. Press (K), (9WX7), (4GH), (3DEF).
- 2. Use to highlight On/ Off, then press .

## 4.4 Voice Privacy

Allows you to set the voice privacy feature for CDMA calls as Enhanced or Standard. CDMA offers inherent voice privacy. Check with your service provider for availability.

- 1. Press (OK), (9 WAYZ), (4 GHI), (4 GHI).
- Use to highlight
   Enhanced/ Standard, then press €.

## 4.5 Airplane Mode

Only allows you to use features on your phone that do not require wireless communications.

- 1. Press ©K, 9WAZ, 4GHI, 5JKL.
- 2. Read the displayed message and press ( to continue.
- 3. Use to highlight On/ Off, then press ⊗.

### 4.6 TTY Mode

Allows you to attach a TTY (Teletype writer) device, enabling you to communicate with parties also using a TTY device. A phone with TTY support is able to translate typed characters to voice. Voice can also be translated into characters and then displayed on the TTY device.

- 1. Press (OK), (9WXYZ), (4GH), (5MNO).
- 2. Read the displayed message and press ® to continue.
- 3. Use to highlight TTY Full/ TTY + Talk/ TTY + Hear/ TTY Off, then press ⊗.

# Settings

### 5. Bluetooth

The AN160 is compatible with devices that support the Bluetooth® Headset, HandsFree, Dial Up Networking, Serial Port, Phonebook Access, Basic Printing, Object Push, File Transfer, and Human Interface profiles. You may create and store 20 pairings within the AN160 and connect to one device at a time. The approximate communication range for Bluetooth® wireless technology is up to 30 feet (10 meters).

#### Note

Read the user guide of each Bluetooth® accessory that you are trying to pair with your phone because the instructions may be different.

The Bluetooth® features available on this handset may not be compatible with all Bluetooth® enabled devices. Your service provider or phone manufacturer cannot be held responsible for compatibility issues with devices not sold by the service provider or phone manufacturer.

### 5.1 Paired Devices

Pairing is the process that allows the handset to locate, establish and register 1-to-1 connection with the target device.

# For pairing new Bluetooth® device

- 1. Press (K), (9)(X), (5)(L), (1).
- Follow the Bluetooth®
   accessory instructions to set
   the device to pairing mode.
- 3. Press the Left Soft Key Search.
- If Bluetooth® power is set to off, you will be prompted to turn the function on. Highlight Yes and press ®.
- Select New Search/Last
   Search. The device will appear
   in the Device Found menu
   once it has been located.
   Highlight the device and press
   Pair.
- Depending on the type of device:

- The phone will Auto-pair.
- You will need to confirm matching codes.
- You will need to enter a passkey. Consult the Bluetooth® accessory instructions for the correct passkey (typically "0000" - 4 zeroes). Enter the passkey and press ®.
- The handset will prompt you for your connection preferences.
   Highlight Always Ask or Always Connect and press .
- Once connected, you will see the device listed in the Paired Devices menu.

# Settings

#### 5.2 Power

Allows you to set the Bluetooth® power to On/Off.

- 1. Press (K), (9WA), (5JKL), (2ABC).
- 2. Use to highlight On/ Off, then press .

#### Note

By default, your device's Bluetooth® functionality is turned off.

# 5.3 My Visibility

Allows you to set the visibility of your Bluetooth® function.

- 1. Press OK, 9wxz, 5 Jkl, 3 DEF.
- Use to highlight On/ Off, then press

# 5.4 My Bluetooth Info

Allows you to view information regarding the Bluetooth® function.

1. Press (K), (S) WXYZ, (S) JKL, (4 GH).

- To rename your device, press the Left Soft Key 
   Rename.
- 3. Press and hold to delete the current name, then enter your desired device name.
- 4. Press ® Save.

# 6. System

The System menu allows you to designate specific system network settings.

#### 6.1 Network

### 6.1.1 System Select

Allows you to set up the phone producer's management environment. Leave this setting as the default unless you want to alter system selection as instructed by your service provider.

- 1. Press (OK), (9 WXXZ), (5 MANO), (1 a),
- 2. Use to highlight Home Only/ Automatic, then press

#### 6.1.2 Set NAM

Allows you to select the phone's NAM (Number Assignment Module) if the phone is registered with multiple service providers.

- 1. Press ©K, 9wxz, 6mxo, 1 a, 2ABC.
- 2. Use to highlight NAM1 or NAM2, then press ...

#### 6.1.3 Auto NAM

Allows the phone to automatically switch between programmed telephone numbers corresponding to the service provider area.

- 1. Press (K), (9 WAY), (5 MNO), (1 ), (1 ), (1 )

### 6.1.4 Serving System

Identifies the serving system Channel Number and SID Number. This information should only be used for technical support.

1. Press ⋘, ⅁ℼℴℴ, ௳௷, ௳௷, ௳௷, ௳௷, ௳௷

### 6.2 Location

Allows you to turn On or Off the Location function on your phone. If set to On, location-based services are able to access your GPS (Global Positioning System) satellite-assisted location information.

# Settings

#### Note

GPS satellite signals are not always transmitted, especially under bad atmospheric and environmental conditions, indoors etc.

- 1. Press ®, 9407, 640, 2480.
- Read the disclaimer and press the Right Soft Key Next to go to the next screen or Left Soft Key Prev to go to the previous screen. Press the Right Soft Key OK on the last screen.

# 7. Web Access Prompt

Allows you to turn the Web Access Prompt on or off.

- 1. Press ©K, 9wx/2, 7pqxs.
- 2. Use to highlight On or Off, then press ⊗.

# 8. Memory

Allows you to check out the memory status of your phone.

- 1. Press (K), (B)(K), (B)(K).
- 2. Use to highlight
  Reserved Memory/
  Multimedia and press .

## 9. Phone Info

The Phone Info menu provides you with specific information about your phone.

- 1. Press ©K, 9wxz, 9wxz.
- 2. Use to highlight My Number/ Current Battery Level/ ESN/MEID/ Icon Glossary/ Version/ Software Update and press ⊗.

# Tone Room Deluxe/ My Contacts Backup/ PAC-MAN

## Tone Room Deluxe

The Tone Room Deluxe application allows you to browse and download ringtones.

1. Press <sup>⊙K</sup>, [★;;iir].

# My Contacts Backup

My Contacts Backup safeguards your mobile phone's address book and automatically saves a copy of the names, phone numbers, and email addresses stored in your phone. You can also view, print, add, delete, and edit your contacts online.

1. Press OK. ONE.

## PAC-MAN

Allows you to use the preloaded PAC-MAN application. User charges may apply.

1. Press 🔍, ## 🐴 ...

# **TIA Safety Information**

The following is the complete TIA Safety Information for wireless handheld phones.

# Exposure to Radio Frequency Signal

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

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

ANSI C95.1 (1992) \*
NCRP Report 86 (1986)
ICNIRP (1996)

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

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

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

#### Antenna Care

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments

could damage the phone and may violate FCC regulations.

### **Phone Operation**

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

## Tips on Efficient Operation

For your phone to operate most efficiently:

Don't touch the antenna unnecessarily when the phone is in use. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed.

### Driving

Check the laws and regulations on the use of wireless phones in

the areas where you drive and always obey them. Also, if using your phone while driving, please observe the following:

- Give full attention to driving. Driving safely is your first responsibility.
- Use hands-free operation, if available;
- Pull off the road and park before making or answering a call if driving conditions or the law require it.

#### **Electronic Devices**

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

#### **Pacemakers**

The Health Industry
Manufacturers Association
recommends that a minimum
separation of six (6) inches be
maintained between a handheld
wireless phone and a pacemaker
to avoid potential interference
with the pacemaker. These
recommendations are consistent
with the independent research
by and recommendations of
Wireless Technology Research.

Persons with pacemakers:

- Should ALWAYS keep the phone more than six (6) 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;

 Should turn the phone OFF immediately if there is any reason to suspect that interference is taking place.

### **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 (or call the customer service line to discuss alternatives).

### **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.

#### **Health Care Facilities**

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 use equipment that could be sensitive to external RF energy.

#### **Vehicles**

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

#### Posted Facilities

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

#### Aircraft

FCC regulations prohibit using your phone while in the air. Switch OFF your phone before boarding an aircraft.

### **Blasting Areas**

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

# Potentially Explosive Atmosphere

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 marked clearly. Potential areas may include: fueling areas (such as gasoline stations); below deck on boats: fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles (such as grain, dust, or metal powders); and any other area where you would normally be advised to turn off your vehicle engine.

# For Vehicles Equipped with an Air Bag

An air bag inflates with great force. DO NOT place objects, including either 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.

# **Safety Information**

Please read and observe the following information for safe and proper use of your phone and to prevent damage. Also, keep the user guide in an accessible place at all times after reading it.

**Cation!** Violation of the instructions may cause minor or serious damage to the product.

- Do not disassemble or open crush, bend or deform, puncture or shred.
- Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, expose

- to fire, explosion or other hazard.
- Only use the battery for the system for which it is specified.
- Only use the battery with a charging system that has been qualified with the system per IEEE-Std-1725-2006. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazard.
- Do not short circuit a battery or allow metallic conductive objects to contact battery terminals.
- Replace the battery only with another battery that has been qualified with the system per this standard, IEEE-Std-1725-2006. Use of an unqualified battery may present a risk of fire, explosion, leakage or other hazard.

- Promptly dispose of used batteries in accordance with local regulations.
- Battery usage by children should be supervised.
- Avoid dropping the phone or battery. If the phone or battery is dropped, especially on a hard surface, and the user suspects damage, take it to a service center for inspection.
- Improper battery use may result in a fire, explosion or other hazard.
- The phone shall only be connected to USB products that bear the USB-IF logo or have completed the USB-IF compliance program.

## **Charger and Adapter Safety**

 The charger and adapter are intended for indoor use only.

- Insert the battery pack charger vertically into the wall power socket.
- Use the correct adapter for your phone when using the battery pack charger abroad.
- Only use the approved battery charger. Otherwise, you may cause serious damage to your phone.

### **Battery Information and Care**

- Please dispose of your battery properly or take it to your local wireless carrier for recycling.
- The battery doesn't need to be empty before recharging.
- Use only LG-approved chargers specific to your phone model since they are designed to maximize battery life.
- Do not disassemble or shortcircuit the battery.

- Keep the battery's metal contacts clean.
- Replace the battery when it no longer provides acceptable performance. The battery can be recharged several hundred times before replacement.
- Recharge the battery after long periods of non-use to maximize battery life.
- Battery life will vary due to usage patterns and environmental conditions.
- Use of extended backlighting, Browser, and data connectivity kits affect battery life and talk/standby times.
- The self-protection function of the battery cuts the power of the phone when its operation is in an abnormal state. In this case, remove the battery from the phone, reinstall it, and turn the phone on.

# Explosion, Shock, and Fire Hazards

- Do not put your phone in a place subject to excessive dust and keep the minimum required distance between the power cord and heat sources.
- Unplug the power cord prior to cleaning your phone, and clean the power plug pin when it's dirty.
- When using the power plug, ensure that it's firmly connected. If not, it may cause excessive heat or fire.
- If you put your phone in a pocket or bag without covering the receptacle of the phone (power plug pin), metallic articles (such as a coin, paperclip or pen) may short-circuit the phone.
   Always cover the receptacle when not in use.

- Don't short-circuit the battery. Metallic articles such as a coin, paperclip or pen in your pocket or bag may shortcircuit the + and - terminals of the battery (metal strips on the battery) upon moving. Short-circuit of the terminal may damage the battery and cause an explosion.
- Do not disassemble or crush the battery. It may cause a fire.

#### **General Notice**

- Using a damaged battery or placing a battery in your mouth may cause serious injury.
- Do not place items containing magnetic components such as a credit card, phone card, bank book, or subway ticket near your phone. The magnetism of the phone may damage the data stored in the magnetic strip.

- Talking on your phone for a long period of time may reduce call quality due to heat generated during use.
- When the phone is not used for a long period time, store it in a safe place with the power cord unplugged.
- Using the phone in proximity to receiving equipment (i.e., TV or radio) may cause interference to the phone.
- Do not use the phone if the antenna is damaged. If a damaged antenna contacts skin, it may cause a slight burn. Please contact an LG Authorized Service Center to replace the damaged antenna.
- Do not immerse your phone in water. If this happens, turn it off immediately and remove the battery. If the phone does not work, take it to an LG Authorized Service Center.

- Do not paint your phone.
- The data saved in your phone might be deleted due to careless use, repair of the phone, or upgrade of the software. Please backup your important phone numbers. (Ring tones, text messages, voice messages, pictures could also be deleted.)
   The manufacturer is not liable for damage due to the loss of data.
- When you use the phone in public places, set the ringtone to vibration so you don't disturb others.
- Do not turn your phone on or off when putting it to your ear.
- Use accessories, such as earphones and headsets, with caution. Ensure that cables are tucked away safely and do not touch the antenna unnecessarily.

# Warning! Important safety information

### Avoiding hearing damage

Permanent hearing loss may occur if you use your phone and/or headset at a high volume. Set the volume to a safe level. You can adapt over time to a higher volume of sound that may sound normal but can be damaging to your hearing. If you experience ringing in your ears or muffled speech, stop listening and have your hearing checked. The louder the volume, the less time is required before your hearing could be affected. Hearing experts suggest that to protect your hearing:

 Limit the amount of time you use your phone and/or headset at high volume.

- Avoid turning up the volume to block out noisy surroundings.
- Turn the volume down if you can't hear people speaking near you.

For information about how to set a maximum volume limit on your phone, see the features guide for your phone.

## Using your phone safely

Use of your phone while operating a vehicle is not recommended and is illegal in some areas. Be careful and attentive while driving. Stop using your phone if you find it disruptive or distracting while operating any type of vehicle or performing any other activity that requires your full attention.



# FDA Consumer Update

The U.S. Food and Drug Administration's Center for Devices and Radiological Health Consumer Update on Mobile Phones:

# 1. Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of Radio Frequency (RF) energy in the microwave range while being used. They also emit very low levels of RF when in standby mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce

heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

# 2. What is the FDA's role concerning the safety of wireless phones?

Under the law, the FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to

emit Radio Frequency (RF) energy at a level that is hazardous to the user. In such a case, the FDA could require the manufacturers of wireless 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, the FDA has urged the wireless phone industry to take a number of steps, including the following:

- Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and

 Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

The FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

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

The National Institutes of Health participates in some interagency working group activities, as well.

The FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. The FCC relies on the FDA and other health agencies for safety questions about wireless phones.

The FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus

not the subject of the safety questions discussed in this document.

# 3. What kinds of phones are the subject of this update?

The term "wireless phone" refers here to handheld wireless phones with built-in antennas, often called "cell", "mobile", or "PCS" phones. These types of wireless phones can expose the user to measurable Radio Frequency (RF) energy because of the short distance between the phone and the user's head.

These RF exposures are limited by FCC safety guidelines that were developed with the advice of the FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless phones," which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures far below the FCC safety limits.

# 4. What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of Radio Frequency (RF) energy exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals.

However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be predisposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we do not know with certainty what the results of such studies mean for human health. Three large epidemiology studies have been published since December 2000, Between them. the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other

cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

5. What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if

one exists. Epidemiological studies can provide data that is directly applicable to human populations, but ten or more years follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop — if they do — may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

6. What is the FDA doing to find out more about the possible health effects of wireless phone RF?

The FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to Radio Frequency (RF) energy.

The FDA has been a leading participant in the World Health Organization International Electro Magnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The project has also helped develop a series of public information documents on EMF issues.

The FDA and the Cellular Telecommunications & Internet

Association (CTIA) have a formal Cooperative Research And **Development Agreement** (CRADA) to do research on wireless phone safety. The FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIAfunded research is conducted through contracts with independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world

7. How can I find out how much Radio Frequency energy exposure I can get by using my wireless phone?

All phones sold in the United

States must comply with Federal Communications Commission (FCC) guidelines that limit Radio Frequency (RF) energy exposures. The FCC established these guidelines in consultation with the FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wireless phones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless phone and is set well below levels known to have effects. Manufacturers of

wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website

(http://www.fcc.gov/oet/rfsafety) gives directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

8. What has the FDA done to measure the Radio Frequency energy coming from wireless phones?

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the Radio Frequency (RF) energy exposure from wireless phones and other wireless handsets with the participation and leadership of FDA scientists and engineers. The standard, "Recommended Practice for Determining the

Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications **Devices: Experimental** Techniques", sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue-simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guidelines.

## 9. What steps can I take to reduce my exposure to Radio Frequency energy from my wireless phone?

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 you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to Radio Frequency (RF) energy. Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure. If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a

headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna. Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

# 10. What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to Radio Frequency (RF) energy, the measures described above would apply to children and teenagers using wireless phones. Reducing the

time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.

Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

# 11. What about wireless phone interference with medical equipment?

Radio Frequency (RF) energy from wireless phones can interact with some electronic devices. For this reason, the FDA helped develop a detailed test method to measure Electro Magnetic Interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical Instrumentation (AAMI). The final draft, a joint effort by the FDA, medical device manufacturers, and many other groups, was completed in late 2000 This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI.

The FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Flectrical and Flectronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a "compatible" phone and a "compatible" hearing aid at the same time. This standard was approved by the IEEE in 2000.

The FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, the FDA will conduct testing to assess the interference and work to resolve the problem.

# 12. Where can I find additional information?

For additional information, please refer to the following resources:

FDA web page on wireless phones

(http://www.fda.gov/. Click on 'C' in the index and select Cell Phones.)

Federal Communications
Commission (FCC) RF Safety
Program
(http://www.fcc.gov/oet/rfsafety)
International Commission on
Non-lonizing Radiation
Protection
(http://www.icnirp.de)

World Health Organization (WHO) International EMF Project (http://www.who.int/emf) National Radiological Protection

Board (UK)
(http://www.hpa.org.uk/radiation/)

# 10 Driver Safety Tips

Your wireless phone gives you the powerful ability to communicate by voice almost anywhere, anytime. An important responsibility accompanies the benefits of wireless phones, one that every user must uphold.

When operating a car, driving is your first responsibility. When using your wireless phone behind the wheel of a car, practice good common sense and remember the following tips:

 Get to know your wireless phone and its features such as speed dial and redial. Carefully read your instruction manual and learn to take advantage of valuable features most phones offer, including automatic redial and memory. Also, work to memorize the phone keypad so you can use the

- speed dial function without taking your attention off the road.
- When available, use a handsfree device. A number of hands-free wireless phone accessories are readily available today. Whether you choose an installed mounted device for your wireless phone or a speaker phone accessory, take advantage of these devices if available to you.
- 3. Make sure you place your wireless phone within easy reach and where you can reach it without removing your eyes from the road. If you get an incoming call at an inconvenient time, if possible, let your voicemail answer it for you.
- 4. Suspend conversations during hazardous driving conditions or situations. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow, and ice can be hazardous, but so is heavy traffic. As a driver, your first responsibility is to pay attention to the road.
- 5. Don't take notes or look up phone numbers while driving. If you are reading an address book or business card, or writing a "to-do" list while driving a car, you are not watching where you are going. It is common sense. Do not get caught in a dangerous situation because you are reading or writing and not

- paying attention to the road or nearby vehicles.
- 6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan your calls before you begin your trip or attempt to coincide your calls with times you may be stopped at a stop sign, red light, or otherwise stationary. But if you need to dial while driving, follow this simple tip -- dial only a few numbers, check the road and your mirrors, then continue.
- 7. Do not engage in stressful or emotional conversations that may be distracting. Stressful or emotional conversations and driving do not mix; they are distracting and even dangerous when you are behind the wheel of a car. Make people you are talking

- with aware you are driving and if necessary, suspend conversations which have the potential to divert your attention from the road.
- 8. Use your wireless phone to call for help. Your wireless phone is one of the greatest tools you can own to protect yourself and your family in dangerous situations -- with your phone at your side, help is only three numbers away. Dial 911 or other local emergency number in the case of fire, traffic accident, road hazard, or medical emergency. Remember, it's a free call on your wireless phone!
- Use your wireless phone to help others in emergencies.
   Your wireless phone provides you a perfect opportunity to be a "Good Samaritan" in your community. If you see an

auto accident, crime in progress or other serious emergency where lives are in danger, call 911 or other local emergency number, as you would want others to do for you.

10. Call roadside assistance or a special wireless nonemergency assistance number when necessary. Certain situations you encounter while driving may require attention, but are not urgent enough to merit a call for emergency services. But you can still use your wireless phone to lend a hand. If you see a brokendown vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured or a vehicle you know to be stolen, call

roadside assistance or other special non-emergency wireless number.

The above tips are meant as general guidelines. Before deciding to use your mobile device while operating a vehicle, it is recommended that you consult your applicable jurisdiction's local laws or other regulations regarding such use. Such laws or other regulations may prohibit or otherwise restrict the manner in which a driver may use his or her phone while operating a vehicle.

# Consumer Information on SAR

(Specific Absorption Rate)

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 (FCC) of the U.S. Government. These FCC exposure limits are derived from the recommendations of two expert organizations, the National Counsel on Radiation Protection and Measurement (NCRP) and the Institute of Electrical and Electronics Engineers (IEEE). In both cases, the recommendations were developed by scientific and engineering experts drawn from industry, government, and academia after extensive reviews of the scientific literature related to the biological effects of RF energy.

The exposure Limit for wireless

mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR is a measure of the rate of absorption of RF energy by the human body expressed in units of watts per kilogram (W/kg). The FCC requires wireless phones to comply with a safety limit of 1.6 watts per kilogram (1.6 W/kg). The FCC exposure limit incorporates a substantial margin of safety to give additional protection to the public and to account for any variations in measurements.

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 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. Because the phone is designed to operate at multiple power levels 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 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 BEJAN160.

To find information that pertains to a particular model phone, this site uses the phone FCC ID number which is usually printed somewhere on the case of the phone. Sometimes it may be necessary to remove the battery

pack to find the number. Once you have the FCC ID number for a particular phone, follow the instructions on the website and it should provide values for typical or maximum SAR for a particular phone.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) website at http://www.ctia.org/

\*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.

# FCC Hearing-Aid Compatibility (HAC) Regulations for Wireless Devices

On July 10, 2003, the U.S. Federal Communications
Commission (FCC) Report and
Order in WT Docket 01-309
modified the exception of
wireless phones under the
Hearing Aid Compatibility Act of
1988 (HAC Act) to require
digital wireless phones be
compatible with hearing-aids.
The intent of the HAC Act is to
ensure reasonable access to
telecommunications services for
persons with hearing disabilities.

While some wireless phones are used near some hearing devices (hearing aids and cochlear implants), users may detect a buzzing, humming, or whining noise. Some hearing devices are

more immune than others to this interference noise, and phones also vary in the amount of interference they generate.

The wireless telephone industry has developed a rating system for wireless phones, to assist hearing device users find phones that may be compatible with their hearing devices. Not all phones have been rated. Phones that are rated have the rating on their box or a label located on the box.

The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not be able to use a rated phone successfully. Trying out the phone with your hearing device is the best way to evaluate it for your personal needs.

M-Ratings: Phones rated M3 or M4 meet FCC requirements and are likely to generate less interference to hearing devices than phones that are not labeled. M4 is the better/higher of the two ratings.

T-Ratings: Phones rated T3 or T4 meet FCC requirements and are likely to generate less interference to hearing devices than phones that are not labeled. T4 is the better/higher of the two ratings.

Hearing devices may also be rated. Your hearing device manufacturer or hearing health professional may help you find this rating. Higher ratings mean that the hearing device is relatively immune to interference noise. The hearing aid and wireless phone rating values are then added together. A sum of 5

is considered acceptable for normal use. A sum of 6 is considered for best use.





In the above example, if a hearing aid meets the M2 level rating and the wireless phone meets the M3 level rating, the sum of the two values equal M5. This is synonymous for T ratings. This should provide the hearing aid user with "normal usage" while using their hearing aid with the particular wireless phone.

"Normal usage" in this context is defined as a signal quality that is acceptable for normal operation.

The M mark is intended to be synonymous with the U mark. The T mark is intended to be synonymous with the UT mark. The M and T marks are recommended by the Alliance for Telecommunications Industries Solutions (ATIS). The U and UT marks are referenced in Section 20.19 of the FCC Rules. The HAC rating and measurement procedure are described in the American National Standards Institute (ANSI) C63.19 standard.

To enter that the Hearing Aid Compatibility rating for your phone is maintained, secondary transmitters such as Bluetooth components must be disabled during a call. See Page 78 for instructions to disable these components.

# For information about hearing aids and digital wireless phones

### FCC Hearing Aid Compatibility and Volume Control

http://www.fcc.gov/cgb/dro/hearing.html

## Gallaudet University, RERC

http://tap.Gallaudet.edu/DigWireless.KS/DigWireless.htm

### Hearing Loss Association of America [HLAA]

http://www.hearingloss.org/learn/cellphonetech.asp

### The Hearing Aid Compatibility FCC Order

 $http://hraunfoss.fcc.gov/edocs\_public/attachmatch/FCC-03-168A1.pdf$