



## LX5450 Cellular Phone



**WARNING!** To reduce the possibility of electric shock, do not expose your phone to high humidity areas, such as a bathroom, swimming area, etc.

**Caution:** Use only LG-approved batteries and phone chargers to avoid the damage to the phone. Using other batteries or chargers voids your warranty and may cause an explosion.

**Caution:** Do not use batteries and phone chargers for other than their intended purposes.

**Never store your phone in temperatures less than -4° F or greater than 122° F, such as outside during a snowstorm or in your car on a hot day. Exposure to excessive cold or heat may result in phone malfunction, damage and/or failure.**

**Use caution when using your phone near other electronic devices. RF emissions from your mobile phone may affect nearby inadequately shielded electronic equipment. Consult manufacturers of any personal medical devices such as pacemakers and hearing aides to determine if they are susceptible to interference from your mobile phone. Turn off your phone in a medical facility or at a gas station.**

**IMPORTANT!** Please read the TIA safety information in chapter 5 before using your phone.



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## Introduction

Congratulations on your purchase of the advanced and compact LX5450 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 such as greatly enhanced voice clarity this phone offers:

- Large, easy-to-read, 8-line backlight LCD with status icons.
- Paging, messaging, voice mail, and caller ID.
- 19-key keypad.
- Long battery stand-by and talk time.
- Menu-driven interface with prompts for easy operation and configuration.
- Any key answer, auto answer, auto retry, one-touch and speed dialing with 199 memory locations.
- Bilingual (English and Spanish).

## Important Information

This user's manual 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 void your warranty.

## Check Accessories

Your mobile phone comes with an AC adapter and a rechargeable battery. Please verify that these accessories are included.



### FCC RF Exposure Information

#### **WARNING! Read this information before operating the phone.**

In August 1996, the Federal Communications (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.



#### **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 of antenna.

#### **Bodily Contact During Operation**

This device was tested for typical use with the back of the phone kept 3/4 in (2 cm) from the body. To comply with FCC RF exposure requirements, a minimum separation distance of 3/4 inches (2 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 3/4 in (2 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.

#### **Vehicle-Mounted External Antenna**

(Optional, if available.)

A minimum distance of 8 in (20 cm) must be maintained between the user / bystander and the vehicle-mounted external antenna to satisfy FCC RF exposure requirements. For more information about RF exposure, visit the FCC website at [www.fcc.gov](http://www.fcc.gov).

#### **FCC Part 15 Class B Compliance**

This device and its accessories comply with part 15 of FCC rules. Operation is subject to the following two conditions: (1) This device and its accessories may not cause harmful interference, and (2) this device and its accessories must accept any interference received, including interference that causes undesired operation.

#### **Battery Safety**

- Do not disassemble.
- Do not short-circuit.
- Do not expose to high temperatures : 60 °C (140 °F)
- Do not incinerate.

## 1 Getting Started

### Battery Disposal

- Please dispose of your battery properly or take it to your local wireless carrier for recycling.
- Do not dispose of your battery in fire or with hazardous or flammable materials.

### Charger and Adapter Safety

- Using the wrong battery charger could damage your phone and void your warranty.
- The charger and adapter are intended for indoor use only.
- Do not expose the battery charger or adapter to direct sunlight or use it in places with high humidity, such as a bathroom.












### Phone Components

The following shows key components of your mobile phone.



## Phone Overview

1. **Earpiece**
2. **Flip Design** Flip open the case to answer an incoming call and close to end the call.
3. **Message Key** Use to retrieve or send voice and text messages.
4. **SEND** Use to place or answer calls.
5. **Side Keys** Use to adjust the key beep volume in standby mode and the earpiece volume during a call.
6. **Headset Jack**
7. **Manner Mode/Silence All Mode Key** Use to set the Manner Mode by pressing and holding the  key for about 3 seconds while in standby mode.  
Note: The manner mode you select remains in effect even when you turn the phone off and back on.
8. **LCD Screen** Displays messages and indicator icons.
9. **Soft Keys**  
Left Soft Key   
Use to display the function setting menu.  
Right Soft Key   
Use to select an action within a menu.
10. **Camera Key**  Use to access the camera menu, take pictures and activate a highlighted option in the menus and submenus in the phone.

11. **Navigation Key** Use for quick access to phone functions:
  -  Text and voice mail notification messages.
  -  Schedule
  -  Access Apps
  -  Mini Browser
12. **END/PWR** Use to turn the power on/off and to end a call. Using this key, you can return to the main menu display screen.
13. **Back** Press to delete a single space or character. Press and hold to delete entire words. Press this key once in a menu to go back one level.
14. **Alphanumeric Keypad** Use to enter numbers and characters and choose menu items.
15. **Lock Mode Key** Use in standby mode to set the lock function by pressing and holding the  key for about 3 seconds.
16. **Microphone**

## Using the Battery Pack

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

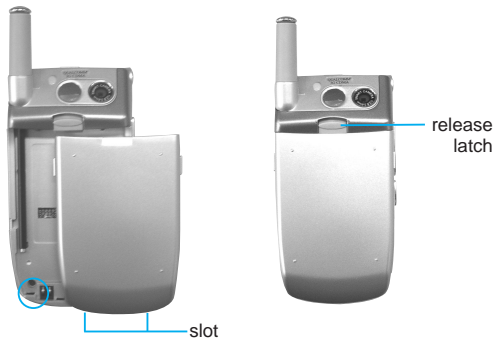
The phone comes with a rechargeable battery. Keep the battery charged while not in use in order to maximize talk and standby time when using the phone.

### Installing the Battery

To install the battery, insert the bottom of the battery into the opening on the back of the phone. Then push the battery down until the latch clicks.

### Removing the Battery

Turn the power off. Lift the release latch to detach the battery.



## Battery Charge Level

The battery charge level is shown at the top right of the LCD screen.



Fully Charged

Fully Discharged

When the battery charge level becomes low, the low battery sensor alerts you in three ways: sounding an audible tone, blinking the battery icon, and displaying **LOW BATTERY WARNING!** If the battery charge level becomes exceedingly low, the phone automatically switches off and any function in progress is not saved.

## Battery Information and Care

1. Never use an unapproved battery since this could damage the phone and / or battery and could cause the battery to explode.
2. The battery does not need to be fully discharged before recharging.
3. Use only LG approved chargers specific to your phone model since they are designed to maximize battery life.
4. Do not disassemble or short-circuit the battery.
5. Keep the battery's metal contacts clean.
6. Replace the battery when it no longer provides acceptable performance. The battery can be recharged several hundred times before replacement.
7. Recharge the battery after long periods of non-use to maximize battery life.



8. Do not expose the battery charger to direct sunlight or use it in areas of high humidity such as a bathroom.
9. Battery life will decrease if exposed to extreme hot or cold temperatures.
10. Battery life will vary due to usage patterns and environmental conditions.
11. The use of extended backlighting, MiniBrowser, and data connectivity kits affect battery life and talk/standby times.

## Screen Icons

Icons	Descriptions
	Displays the strength of the signal received by the phone and current signal strength is indicated by the number of bars displayed on the screen.
	No service. The phone is not receiving a system signal.
	In use. A call is in progress. * No icon indicates the phone is in standby mode.
	Digital indicator Digital service is available.
	Roaming The phone is outside of the home service area.
	1x service.
	New voicemail.
	New text & voice message.
	New text message.
	Location on mode.
	E911 only mode.
	Charge level: Indicates battery charge level.
	New picture message.
	Transmit/Receive(Packet data mode).
	Transmit/Receive(Dormant mode).
	Transmit/Receive(Circuit data mode).

## Phone Menu Reference

Press Left Soft Key  Menu. Press to  Scroll.

### Camera

1. Take Photo
2. Photo Album
3. Send Photo Msg
4. Photo Inbox
5. Photo Outbox
6. Photo Saved
7. Photo Settings
  1. Auto Save
  2. Auto Delete
  3. Auto Receive
  4. Photo Msg Alert
  5. Text Entry Mode
  6. Quick-Text
8. Erase All
  1. Inbox
  2. Outbox
  3. Saved
  4. All

### Contacts

1. List Contacts
2. New Number
3. New E-mail
4. Groups
5. Speed Dials
6. Voice Dials
7. My Contact Info

### Recent Calls

1. Dialed Calls
2. Received Calls
3. Missed Calls
4. Erase Calls
  1. Dialed Calls
  2. Received Calls

3. Missed Calls
  4. All Calls
5. Call Timer
  1. Last Call
  2. Home Calls
  3. Roam Calls
  4. All Calls
6. 1x Packet Counter
  1. Received
  2. Transmitted
  3. Total

### Messages

1. Voice Mail
2. New Message
3. Inbox
4. Outbox
5. Saved
6. Msg Settings
  1. Auto Save
  2. Auto Delete
  3. Callback #
  4. Msg Alerts
  5. Signature
  6. Direct View
  7. Entry Mode
  8. Edit Voice Mailbox #
  9. Quick-Text
7. Erase All
  1. Inbox
  2. Outbox
  3. Saved
  4. All

### Access Apps

1. Access Apps
2. Access Info

### Mobile Web

1. Start Browser
2. Web Messages
3. Web Settings
  1. Prompt
  2. Alert Beep

### My Media

1. Graphics
2. Music

### Tools

1. Schedule
2. Alarm Clock
  1. Alarm 1
  2. Alarm 2
  3. Alarm 3
  4. Quick Alarm
3. Voice Memo
4. My Shortcut
5. Notepad
6. Calculator
7. World Clock

### Settings

1. Sounds
  1. Ringers
  2. Key Tone
  3. Volume
  4. Alerts
  5. Power On/Off Tone
2. Display
  1. Banner
  2. Backlight
  3. Screens
  4. Menu Style
  5. Clocks
  6. Theme Colors
  7. Fonts

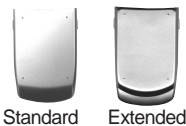
8. Language
9. Power Saver
0. Status Light
3. System
  1. Select System
  2. Set NAM
  3. Auto NAM
  4. Serving System
4. Security
  1. Lock Phone
  2. Restrict
  3. Emergency #s
  4. Change Code
  5. Erase Contacts
  6. Reset Default
5. Call Setup
  1. Auto Retry
  2. Answer Call
  3. Auto-Answer
  4. One-Touch Dial
  5. Voice Privacy
  6. TTY Mode
6. 1X Data
  1. Data/Fax
  2. Select Port
  3. Port Speed
  4. Mode(1X/QNIC)
  5. PAP ID
  6. PAP Password
7. Voice Services
  1. Voice Dial Prompt
  2. Answering Machine
  3. Train Words
8. Location
  1. Location On
  2. E911 Only
9. Phone Info
  1. My Phone Number
  2. S/W Version
  3. Icon Glossary
  4. Shortcut Help

## Accessories

There are a variety of accessories available for your mobile phone. You can select these options according to your personal communication requirements. Consult your local dealer for availability.

### Battery

Two batteries are available for standard and extended battery charge. (LGLI-ACLM, LGLI-ACLL)



### Cigarette Lighter Charger

You can operate the phone and trickle charge the phone's battery from your vehicle by using the cigarette lighter charger, model CLC-42W. It takes 5 hours to charge a completely discharged battery.



### Headset

Connects to your phone, allowing hands-free operation. Includes ear-piece and microphone. (Headset 1000)



### Hands-Free Car Kit (Portable)

The hands-free car kit, model PHF-50W enables you to attach the phone to the power jack in your car, providing you with hands-free operation. It can charge a completely discharged battery in 5 hours.



### AC Adapter

This adapter, model AC-100(or 8102), can be used to charge the battery anywhere there is an AC outlet



### Serial Data Cable

Connect your phone to your PC. (LG-DC200DJ)



### USB Data Cable

Connect your phone to your PC. (LG-USB8000)



## Safety Information

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

### Explosion, Shock, and Fire Hazards

- Unplug the power cord and charger during lightning storms to avoid electric shock or fire.
- Do not use your phone in high explosive areas as the phone may generate sparks.
- 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 is dirty.
- 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 an electric shock.
- When using the power plug, ensure that it is firmly connected. If it is not, it may cause excessive heat or fire.
- Do not place any heavy items on the power cord. Do not allow the power cord to be crimped as it may cause fire or electric shock.
- 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.
- 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.

- Do not short-circuit the battery. Metallic articles such as a coin, paperclip or pen in your pocket or bag may short-circuit the + and – terminals of the battery (metal strips on the battery) upon moving. Short-circuits of the terminal may damage the battery and cause an explosion.
- Do not disassemble the battery as it may cause electric shock, short-circuit, or fire.
- Do not expose the phone to excessive vibration or a sharp impact.
- Never place your phone in a microwave oven as it will cause the battery to explode.

### General Warnings and Cautions

- Store the battery in a place out of reach of children.
- 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 a subway ticket near your phone. The magnetism of the phone may damage the data stored in the magnetic strip.
- Do not hold or let the antenna come in contact with your body during a call.

- Talking on your phone for a long period of time may reduce the 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.
- Only use the batteries, antennas, and chargers provided by LG. The warranty will not be applied to products provided by other suppliers.
- Using the phone in proximity to receiving equipment (i.e., TV or radio) may cause interference in this phone.
- Only authorized personnel should service the phone and its accessories. Faulty installation or service may result in accidents and consequently invalidate the warranty.
- Use only the antenna provided or approved by LG. Unauthorized antennas, modifications or attachments may affect the quality of phone call, damage the phone or result in a violation of FCC regulations.
- Do not use the cellular phone if the antenna is damaged. If the damaged antenna gets in contact with the skin, it may cause a slight burn. Please contact LG Authorized Service Center to replace the damaged antenna.
- Do not use the cellular phone in areas where its use is prohibited. (For example: aircraft).
- Do not expose the cellular phone to high temperatures or high humidity.
- Do not immerse your cellular 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.

## Technical Details

The LX5450 is a dual-band phone that operates on both Code Division Multiple Access (CDMA) frequencies: cellular services at 800 MHz, and 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 Station Controller), BTS (Base station Transmission System), and MS (Mobile Station). The following table lists some major CDMA standards.

CDMA Standard	Designator	Description
Basic Air Interface	TIA/EIA-95A	CDMA Dual-Mode Air Interface 14.4kbps radio link protocol and inter-band operations IS-95 adapted for PCS frequency band cdma2000 1xRTT Air Interface
	TSB-74	
	ANSI J-STD-008	
	TIA/EIA-IS2000	
Network	TIA/EIA/IS-634	MAS-BS PCSC-RS Intersystem operations Nom-signaling data comm.
	TIA/EIA/IS/651	
	TIA/EIA/IS-41-C	
	TIA/EIA/IS-124	
Service	TIA/EIA/IS-96-B	Speech CODEC Assign data and fax Short message service Packet data Position Determination Service (gpsOne)
	TIA/EIA/IS-99	
	TIA/EIA/IS-637	
	TIA/EIA/IS-657	
	IS-801	
Performance	TIA/EIA/IS-97	Cellular base station Cellular mobile station PCS personal station PCS base station Speech CODEC
	TIA/EIA/IS-98	
	ANSI J-STD-018	
	ANSI J-STD-019	
	TIA/EIA/IS-125	

\* 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. High-speed data transmission is also possible.



## 2 Basic Functions

### Turning the Phone On and Off

#### Turning the Phone On

1. Install a charged battery pack or connect the phone to an external power source such as a cigarette lighter adapter or car kit.
2. Press  for a few seconds until the red light in the middle of the phone flashes.

**NOTE:** Like any other radio device, avoid any unnecessary contact with the antenna while your phone is on.

#### Turning the Phone Off

1. Press and hold  until the display turns off.

## Making a Call

When you make a call, follow these simple steps:

1. Make sure the phone is turned on. If not, press



2. Enter the phone number, with area code (if needed).

3. Press . If the phone is locked, enter the lock code.

*Call Failed* - indicates that the call did not go through.

*Restricted* - indicates outgoing calls are in restricted mode. You can only dial phone numbers saved in the *Emergency* or *Phone Book* list.

To turn off this function:

Menu-> Settings-> Security-> Enter Lock Code -> Restrict -> Off -> OK

4. Press to make the call.

If one-touch is enabled, type in the phone book speed dial number or hold the last digit until the call is made.

**NOTE: The phone number and entry name appear on the display when you type in the speed dial number and hold the last digit.**

## 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 two seconds to delete all digits.

## Receiving Calls

1. When the phone rings or vibrates press to answer.

If you press or the side keys while the phone is ringing, the ringing or vibration is muted for that call.

2. Press or twice to end the call.

## Using Manner, Silence All and Lock Mode

### Manner Mode (Quick)

Use the Manner Mode in public places.


1. When in the Standby Mode, activate the Manner Mode quickly by pressing for 3 seconds.






When the Manner Mode is set, the key tones are silent, and the phone is set to vibrate.

**NOTE: The phone remains in Manner Mode even if you turn it off and back on.**

**NOTE: To cancel Manner Mode, press  to switch into Silence All or Normal Mode.**

### Silence All Mode (Quick)

1. From the Manner Mode you can activate the Silent All Mode quickly by pressing  for 3 seconds.


When the Silence All Mode is set, the key tones are quiet and the lamp blinks instead of the phone ringing or vibrating.




**NOTE: To cancel the Silent All Mode, press  to switch into Manner Mode or Normal Mode.**

### Lock Mode (Quick)

Use the Lock Mode to prevent others from using your phone.



1. In standby mode, to activate the lock mode quickly, press  for 3 seconds. *Lock mode setting* is displayed.



**NOTE: To cancel the Lock Mode, Press Right Soft Key , Unlock, then enter your 4 digit password.**

## Call Waiting

If your cellular service offers call waiting, while a call is in progress you may hear two beeps indicating 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 receive a waiting call.
2. Press  again to switch between calls.

## Mute

The mute function prevents the other party from hearing your voice, but allows you to hear the other party.

1. Press Right Soft Key , **Mute**, during a call.
2. To cancel Mute, press Right Soft Key  again.

## Redialing Calls

1. Press  to redial the last number in your call history. The last 30 numbers are stored in the call history list and you can also select one of these to redial.

## Adjusting the Volume

Use the side keys to adjust the earpiece, ringer, and key beep volumes. The upper key is used to increase the volume and the lower key is used to decrease the volume.

- You may adjust the earpiece volume during a call.
- The ringer volume can be adjusted through the menu.
- The key beep volume is adjusted through the menu.

## Power Save Mode


When the phone is in an area without service for 15 minutes, it stops searching for service and enters into Power Save Mode. When your phone activates this feature, *Power Save* is displayed on the screen. The phone automatically checks for service periodically or you can check manually by pressing any key.

## 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.

## Speed Dialing

Speed dialing is a convenient feature that allows you to make phone calls quickly and easily (Number 1 is always for Voicemail).

1. Enter a speed dial number from 2 to 199.
2. Press .

OR

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

Your phone recalls the phone number from your personal directory, displays it briefly and then dials it.

## Caller ID

Caller ID lets you know who is calling by displaying the number of the person calling when your phone rings. If the caller's name and number are already stored in your phone book, the corresponding name appears with the number.

Check with your service provider to ensure they offer this feature.



### 3 Additional Functions

## Entering information using T9 Text Input

You can edit the Banner, Scheduler, Short Message, and Phone Book using T9 Text Input.

### Input mode

T9 Text Input provides five modes for entering text, numbers, special characters, and punctuation.


### T9Word (T9) Mode

Type text using one keystroke per letter. The phone translates keystrokes into common words by using the letters on each key and a compressed database.


### Abc (Multi-tap) Mode

Use Abc mode to add words to the T9 database.


### 123 (Numbers) Mode

Type numbers using one keystroke per number. To change to 123 mode in a text entry field, press Right Soft Key  until 123 mode is displayed.












### Symbols Mode

Insert special characters or punctuation. You may use any of the 35 special characters. When the cursor is located where you want the special character, switch to Symbols Mode. Press the Navigation Key  to cycle through and select the characters.

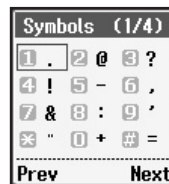
## Smiley Mode (SMS and e-mail only)

When the cursor is located where you want to add a smiley, switch to the smileys mode. Press the Navigation Key  to cycle through and select a smiley.

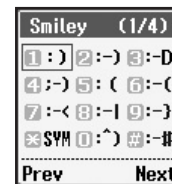
## Key Functions

-  **Left Soft Key:** Press to display or select menu options.
-  **Right Soft Key:** Press to scroll through the menus in the following order : Abc->123-> Symbol-> Smiley-> T9Word-> Abc
-  **Shift:** Use to change case.
-   **Type Text:** In T9 mode, press one key per letter to enter text.
-   **Type Numbers:** In 123 mode, press once to enter numbers.
-  **Next:** In T9 mode, press to display other matching words.
-  **Punctuation** In T9 mode, press to insert punctuation in a word and complete a sentence.
-  **Space:** Press to complete a word or insert a space.
-  **Clear:** Press to delete a single space or character. Hold to delete entire words.

Press the Navigation Key  to cycle through and select from the following characters:



Symbols Mode



Smiley Mode


## Changing Letter Case

There are three options for selecting letter case:


### Initial Cap (T9Word/Abc)

Only the first letter is capitalized.

### Caps Lock (T9WORD/ABC)

Press  to change to Caps Lock. All subsequent letters are capitalized.

### Lower case (T9word/abc)

Press  again to change to lower case. All subsequent letters are in lower case.

## Example: Using T9 Text Input

### Typing In T9 Mode

To type the message “Call the office” follow these steps:

1. Press: Right Soft Key **•** to change the case to T9Word Mode.
2. Press: **2ABC 2ABC 5JKL 5JKL** .
3. Press: **#SPACE** to complete the word and add a space.
4. Press: **8TUV 4GHI 3DEF #SPACE 6MNO 3DEF 3DEF 4GHI 2ABC 3DEF** .
5. The display shows: Call the office.

### Using the NEXT Key

After you have finished entering a word, if the word displayed is not the one you want, press **0NEXT** to display additional choices of words from the database.

For example:

1. Press: **4GHI 6MNO 6MNO 3DEF** .
2. The display shows the word *Good*.
3. Press: **0NEXT** .
4. The display gives you additional choices such as: Home, Gone, Hood, etc.

## Adding Words to the T9 Database







If a word is not in the T9 database, add it by using Abc (Multi-tap) mode text entry. The word is automatically added to the T9 database when you return to T9 mode.

For example, follow these steps:

1. Press: Right Soft Key **•** to change case to Abc (multi-tap) mode.
2. Press: **2ABC 2ABC 6MNO 6MNO 6MNO 7PQRS** .
3. Display: Bop
4. Press: Right Soft Key **•** to change letter case to T9 mode and then the word Bop is added to the T9 database.
5. Press: **BACK** to erase the existing word.
6. Press: **2ABC 6MNO 7PQRS** .
7. Display: Cop
8. Press: **0NEXT 0NEXT** .
9. Display: Bop

## Examples Using Abc (Multi-tap) Text input

To type a new message, follow these steps:

1. Press: Right Soft Key  to change case to Abc mode.
2. Press:  to change to Abc Caps Lock mode.
3. Press:    .
4. Display: Lg







## Phone Book Features

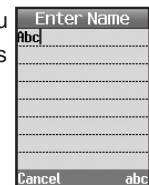
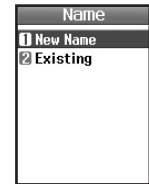
You can store up to 500 entries in your phone book with easy access to your most frequently dialed phone numbers.

### Personal Phone Book Memory

The phone has 500 personal phone book memory locations where you can store up to 5 phone numbers of up to 48 digits.





## Saving Numbers in Your Personal Phone Book

1. Input the phone number that you want to save (up to 32 digits).
2. Press Left Soft Key  **Save**, the submenu appears.
3. Select Label on the sub-menu and press .
4. Select your desired label types Home, Office, Mobile, Pager, Fax, None using .
5. Enter a name for the phone number (up to 22 characters). If you do not want to enter a name, press  to go to the next step.
6. You may select the desired ID ring type and secret and .
7. Press Left Soft Key  **Save**. A confirmation prompt will be displayed.




## Retrieving Numbers

### Retrieving by Name Search

1. Press Right Soft Key  **Contacts**.
2. Press Right Soft Key  **Options**.
3. Select **Find Name**.
4. Enter the character(s) that you want to search for such as the first letters of the name.
5. You see a list of matches.
6. Press  to see more information in that entry, or press  to place the call.

## Making a call from Your Phone Book

You can place a call from any memory location either by using speed dialing or by entering the phone number and pressing .


## Advanced Phone Book Features

### Pause

When you call automated systems such as voice mail or credit billing numbers, you often have to enter a series of numbers. Instead of entering these numbers by hand, you can store the numbers in your phone book separated by pauses using special characters (P, T)

There are two different types of pauses that you can use when storing a number; hard and 2-second:





#### Hard pause (P)






The phone stops dialing until you press Left Soft Key  **Resume** to advance to the next number.

#### 2-sec pause (T)

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


### Storing a number with pauses

1. Press Left Soft Key  **Menu**.
2. Press  **Contacts**.
3. Press  **New Number**.
4. Enter the phone number.
5. Press Right Soft Key  **Pause** to select hard/2-sec pause.
6. Enter additional number(s) (e.g., pin number or credit card number).

7. Press  and choose select label by using .
8. Enter a name for the phone number (up to 22 characters). If you do not want to enter a name, press  to go to the next step.
9. You can select the desired Speed dial/Voice dial/ Group/Ringer/Msg Ringer/Memo/Picture Id/ Secret/URL using .
10. Press Left Soft Key  **Done**. A confirmation prompt displays.

## Prepending a Stored Number

Prepend can be used if you are out of your home system area and need to add the area code to an existing phone book number. When a phone book entry or message callback number shows up on the display, you can add to the beginning of the original number. However, you cannot edit the original number.

1. Recall a number in memory.
2. Enter the prepend digits and the phone number.
3. Press .

## Dynamic Search

Dynamic search compares entered letters against the entries in the phone book and then displays a matching list in descending order. You can then select a number from the list to call.






## 4 Menu Features

### General Guidelines

1. Press Left Soft Key **Menu**. Nine menu items will appear on the display screen.
2. Press **OK** to go through the list of menu features.
3. Press the appropriate number key corresponding to the menu item that you want to select. The sub-menu list will then appear on the screen.
4. Press the appropriate number key corresponding to the sub-menu you want to access.
5. Use **OK** to select your preferred setting. Press **BACK** to go back one step while accessing the menu or selecting a setting.
6. Press **OK** to save the settings or press **BACK** to cancel without saving.



## Camera (Menu )


### Quick Access to Camera Feature

You can access the camera feature directly by pressing  for approximately 3 seconds.




### Take Photo (Menu )





1. From the menu, select **Camera**.
2. Press  **Take Photo**.
3. Press Right Soft Key  **Options** to view the list.

**NOTE:** Use  to adjust the zoom function (x1, x2 and x4 at Lo resolution, x1 and x2 at Med resolution, and only x1 at Hi resolution).

**NOTE:** To take a photo of yourself, use the mirror on the top front of the phone. When your image is centered in the mirror, take the photo using the volume control key.

4. Select an option with  .
  - Self Timer -(5 sec/10 sec)
  - Resolution -(Low 160x120/Med 320x240/Hi 640x480)
  - Brightness -(EV-2 to EV+2)
  - White Balance -(Auto/Sunny/Cloudy/Tungsten/Florescent)
  - File Quality -(Economy/Normal/High)
  - Shutter Sound -(Shutter/Chime/No Sounds)




- Color Effects - (Normal/Antique/Black&White/Negative)
- Fun Frames - (Frame 1~5/None): Allows you to take photos with a pre-made foreground.
- Multishot - (5 shots/3 shots): Allows you to take multiple photos without interruption. When you put the resolution on high, you do not have 5 shots/ 3 shots, you only get 2 multishots.

5. Take a picture by pressing , or you can press a Side Key .
6. Press Left Soft Key  **Save** to save the photo.
  - Press Right Soft Key  **Reject** or retake the photo.

**NOTE:** “XX/XX” on the upper right corner of the LCD screen shows how many photos you have taken and the maximum number you can take.

### Photo Album (Menu )

Allows you to view photos that are stored in the phone.






1. From the menu, select **Camera**.
2. Press  **Photo Album**.
3. Press Right Soft Key  **Options** to view the list.
4. Select an option with  .
  - Send
  - Online Album
  - Set As -(Contacts/Wallpaper/Power On/Power Off)
  - Enlarge
  - Lock
  - Rename

- Erase
- Erase All
- Picture Info




5. Press .

- Press Left Soft Key  **Camera** to take a photo .

### Send Photo Msg (Menu






1. From the menu, select **Camera**.
2. Press  **Send Photo Msg** and  to enter mobile number and/or E-mail
3. Edit subject/text by selecting .
4. Select a picture file and sound file by selecting .
5. Press Right Soft Key  **Send** (2).

### Photo Inbox (Menu




1. From the menu, select **Camera**.
2. Press  **Photo Inbox** to view Photo Inbox.
  - ❖ Options
    - Erase
    - Lock
3. Select a message with .
4. Press  to view the message.
  - ❖ Reply
    - Photo Msg
    - Text Only

- ❖ Options
  - Photo Msg Info
  - Play Again
  - Save Photo
  - Save Sound
  - Save Address
  - Save Quick-Text
  - Save Photo Msg
  - Forward
  - Erase

### Photo Msg Status Reference

-  : Notified Msg
-  : Urgent Read Msg
-  : Urgent Unread Msg
-  : Read Photo Msg
-  : Unread photo Msg

### Photo Outbox (Menu

1. From the menu, select **Camera**.
2. Press  **Photo Outbox** to view Photo Outbox.
  - ❖ Resend
  - ❖ Options
    - Erase
    - Lock
3. Select a message with .
4. Press  to view the message.
  - ❖ Send to
  - ❖ Options
    - Photo Msg Info
    - Play Again
    - Save Sound
    - Save Address

- Erase
- Save Photo
- Save Photo Msg
- Lock




### Photo Msg Status Reference

: Delivered Msg



: Failed Msg

: Sent Msg

### Photo Saved (Menu 1.- 6MNG)

1. From the menu, select **Camera**.
2. Press  **Photo Saved**.
  - ❖ Resume
  - ❖ Options
    - Erase
    - Lock
3. Select a message with .
4. Press  to view the message.
  - ❖ Resume
  - ❖ Options
    - Photo Msg Info
    - Play Again
    - Erase
    - Save Photo
    - Save Sound
    - Save Address
    - Save Quick-Text
    - Lock

### Photo Settings (Menu 1.- 7PORS)

1. From the menu, select **Camera**.
2. Press  **Photo Settings**.
3. Select an option with .

### Auto Save (Menu 1.- 7PORS 1.-)

With this feature on, messages are automatically saved in the outbox when transmitted.

### Auto Delete (Menu 1.- 7PORS 2.ABC)

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

### Auto Receive (Menu 1.- 7PORS 3.DEF)

With this feature on, picture messages will automatically be received by your phone. With this feature off, you will be asked if you want to Accept your new Photo Msg.

### Photo Msg Alert (Menu 1.- 7PORS 4.GHI)

Allows you to select the alert type for a new picture message. Alert types are Silent, Vibrate Once, Vibrate and Sound, Custom Ring Tone, Low Beep Once, Low Beeps, Loud Beep once and Loud Beeps.

### Text Entry Mode (Menu 1.- 7PORS 5.IJKL)

Allows you to select the default input method including T9Word, Abc, 123.

**Quick-Text (Menu 1.-> 7POES 6MNO)**

Display, edit, and add Canned Messages.

**Erase All (Menu 1.-> 8TUV)**

This allows you to erase all picture messages stored in your Inbox, Outbox or Saved Msgs folders. You can also erase all messages stored in these folders at the same time.

1. From the menu, select **Camera**.
2. Press **8TUV Erase All**.
  - Press **1.->** Inbox to erase all messages stored in the Inbox
  - Press **2ABC** Outbox to erase all messages stored in the Outbox
  - Press **3DEF** Saved to erase all messages stored in the Saved Items folder
  - Press **4OHI** All to erase all messages stored in the Inbox, Outbox, and Saved Items folder

**NOTE: Locked messages cannot be erased.**

**NOTE: If the memory is full, no more messages can be received until enough memory space becomes available. The message *NOT ENOUGH MEMORY* is displayed and new messages are not accepted.**

**Contacts (Menu 2ABC)****List Contacts (Menu 2ABC 1.->)**

Allows you to view the list of entries in Contacts.

1. Press Left Soft Key **Menu**.
2. Press **2ABC Contacts**.
3. Press **1.-> List Contacts**.
4. Press Right Soft Key **Options**, and then press **OK**.
  - Find Name/Find Number/Find Speed Dial/Find Group/Find E-mail/Send message/Erase
5. You may register a new phone number by pressing Left Soft Key **New**.



**New Number (Menu 2ABC 2ABC)**

Allows you to add a new number into Contacts.

1. Press Left Soft Key **Menu**.
2. Press **2ABC Contacts**.
3. Press **2ABC New Number**.
4. Enter the number and press **OK**.
5. Select the label you want and press **OK**.
6. Enter the Name and press **OK**.
7. Select either Speed Dial or Voice Dial and press **OK**.


### New E-mail (Menu **2**ABC **7**DEF)

You can save E-mail addresses.

1. Press Left Soft Key **Menu**.
2. Press **2**ABC **Contacts**.
3. Press **7**DEF **New E-mail**.
4. Enter the E-mail address and press **OK** .
5. Enter the Name and press **OK** .

### Groups (Menu **2**ABC **4**GHI)

Allows you to enter a new group, change the name of a group, or delete a whole group.

1. Press Left Soft Key **Menu**.
2. Press **2**ABC **Contacts**.
3. Press **4**GHI **Groups**.
4. Highlight the Group you wish to view and then press **OK** .
5. To add a new group to the list, press Left Soft Key **Add**; to delete a group or to change the name, press Right Soft Key **Options**.


### Speed Dials (Menu **2**ABC **5**JKL)

Allows you to set the speed dial keys for the designated phone numbers.

1. Press Left Soft Key **Menu**.

2. Press **2**ABC **Contacts**.

3. Press **5**JKL **Speed Dials**.

4. Either select the number you wish to speed dial, or enter the number you want and press **OK** .

### Voice Dials (Menu **2**ABC **6**MNO)

Allows you to view the list of numbers that have been programmed with voice dialing or add a voice dial tag to a number in Contacts.

1. Press Left Soft Key **Menu**.
2. Press **2**ABC **Contacts**.
3. Press **6**MNO **Voice Dials**.

**How to Use:** Record the voice dial tags by following the phone's prompts. When recording the voice tag, place the phone in a normal phone use position with the speaker by your ear and the microphone near your mouth.

**NOTE: Recordings should be made in a quiet place using a clear voice. Hands-free car kits or headsets should be avoided when recording.**

### My Contact Info (Menu **2ABC** **7FORS**)

Allows you to enter your own virtual business card to be used in e-mails or SMS messages.

1. Press Left Soft Key **Menu**.
2. Press **2ABC** **Contacts**.
3. Press **7FORS** **My Contact Info**.
4. Select the feature you want to edit by highlighting it and pressing **OK**.

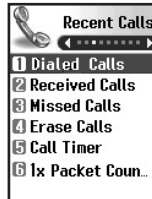
### Recent Calls (Menu **3DEF**)

Allows you to view a list of the last phone numbers or Phone Book 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 view a quick list of all your recent calls, press **OK** from the main menu.

- indicates an outgoing call.
- indicates an incoming call.
- indicates a missed call.



### Dialed Calls (Menu **3DEF** **1--**)

Allows you to view the list of outgoing calls; up to 30 numbers and entries.

1. Press Left Soft Key **Menu**.
2. Press **3DEF** **Recent Calls**.
3. Press **1--** **Dialed Calls**.
4. Highlight the entry you wish to view and press **OK** or you may place a call by pressing **SEND**.

### Received Calls (Menu **3DEF** **2ABC**)

Allows you to view the list of incoming calls; up to 30 numbers and entries.

1. Press Left Soft Key **Menu**.
2. Press **3DEF** **Recent Calls**.
3. Press **2ABC** **Received Calls**.
4. Highlight the entry you wish to view and press **OK**, or you may place a call by pressing **SEND**.

### Missed Calls (Menu **3DEF** **3DEF**)

Allows you to view the list of missed calls; up to 30 numbers and entries.

1. Press Left Soft Key **Menu**.
2. Press **3DEF** **Recent Calls**.

3. Press **DEF** **Missed Calls**.
4. Highlight the entry you wish to view and press **OK**, or you may place a call by pressing **SEND**.

### Erase Calls (Menu **DEF** **4GHI**)

Allows you to erase the call history list.

1. Press Left Soft Key **Menu**.
2. Press **DEF** **Recent Calls**.
3. Press **4GHI** **Erase Calls**.
4. Select the list of calls you wish to erase and press **OK**.
5. Press either 1 Erase, or 2 Cancel and press **OK**.

### Call Timer (Menu **DEF** **5JKL**)

Allows you to view the duration of calls.

1. Press Left Soft Key **Menu**.
2. Press **DEF** **Recent Calls**.
3. Press **5JKL** **Call Timer**.
4. Select from Last Call/Home Calls/Roam Calls/ All Calls, and press **OK**.

### 1x Packet Counter (Menu **DEF** **6MNO**)

Allows you to view the duration of calls.

1. Press Left Soft Key **Menu**.
2. Press **DEF** **Recent Calls**.
3. Press **6MNO** **1x Packet Counter**.
4. Select from Received/Transmitted/Total and press **OK**.

### Messages (Menu **4GHI**)

Text messages, pages, and the voicemail box become available as soon as the phone is powered on. You can access the above types of messages using the message key **MSG**.

In addition, you can make a call to the callback number by pressing **SEND** during a message check.

The phone can store up to 116 messages (1 voice message: 50 inbox text messages, 50 outbox text messages, 15 saved text messages) with up to 160


characters per message. Users may read and edit messages saved in the outbox during transmission and send them.

Check whether your carrier provides the above features.





Character limits: The LX5450 supports up to 160 characters per message including header information. Limits to available characters per message may exist; please check with your service provider for system capabilities.

The information that is stored in the message is determined by phone mode and service capability. You can check types of messages by pressing the message key .


### Message Menu

- **Voice Mail:** Shows the number of messages in voice mail box.
- **New Message:** Sends a message.
- **Inbox:** Shows the list of received messages.
- **Outbox:** Shows the list of sent messages.
- **Saved:** Shows the list of saved and draft messages.
- **Msg Settings:** Selects alert type for new messages.
- **Erase All:** Deletes all stored messages.

### New Message Alert

There are four ways your phone alerts you to new messages.

1. The phone displays the message on the screen.
2. One of four ring types is heard if selected.





3. The red light blinks.
4. The message icon is displayed on the display screen . In the case of an urgent message, the icon will flash and displays **Urgent message**.

**NOTE: If you receive the same message twice, your phone deletes the older one and the new one is stored as a DUPLICATE.**

### Voice Mail (Menu )

Allows you to view new voice messages recorded in the voice mailbox. Once you exceed the storage limit, the old messages are overwritten. When you have a new voice message, your phone alerts you.

### Checking your Voice Mail box

1. Press Left Soft Key  **Menu**.
2. Press  **Message**.
3. Select  **Voice Mail**.
  - To delete information press Left Soft Key  **Clear** and then select Clear.

### New Message (Menu )

You can send text messages, pages, and e-mail transmissions.

Text messages: Transmits text (with or without numbers).

Page messages: Transmits only numbers without text.

To send a message, enter an SMS phone number to Address 1.





To send e-mail, enter recipient's e-mail address.



## Menu

**Address 1:** This feature allows multi-sending of up to 10 total addresses.

Select **Options** by using Right Soft Key .

There are 6 optional menus of **Send, Priority, Add Sign, Callback#, Deferred, Validity, Save** and **Delete**.

1. Press Left Soft Key  **Menu**.
2. Press  **Message**.
3. Select  **New Message**.
4. Enter the recipients address. The address can be typed in or taken from a Phone Book entry.
5. Enter the message. The text can be entered using the keypad or by selecting Canned Msg with Right Soft Key  Insert Quick-Text.
  - Canned Msgs
 

There are 11 "predefined" phrases included in the Canned Msg option. You can also add up to 6 of your own phrases.
6. Select **Options** using Right Soft Key  after entering the number of other party and the content with the Navigation Key. Select the item with .

<b>Send</b>	Allows you to send the message.
<b>Priority</b>	Allows you to give priority to message. Normal or Urgent.
<b>Callback #</b>	Allows you to insert a pre-programmed callback number with your message.
<b>Deferred</b>	Allows you to delay sending the message until the programmed time frame.
<b>Validity</b>	Indicates the validity of message delivery to the Short Message Center (SMC) without being transmitted to the destination address for certain periods of time. Those messages will be deleted within the programmed time frame. Validity time frames are as follows: Default, 30 minutes, 1 hour, 2 hours, 12 hours, 1 day, 2 days, and 3 days.

## Save

If you select Send, it notifies you that the message was sent successfully.

**NOTE: If you send an SMS message to a phone without SMS, you will still be notified that the message was sent, however the message will not be received.**

## Inbox (Menu **4 GHI** **7 DEF**)

Received text messages, page messages, and e-mail lists may be searched and the contents may be viewed. Received messages are displayed from newest to oldest.

To view the list of the received messages:

1. Press Left Soft Key **Menu**.
2. Press **4 GHI** **Message**.
3. Select **7 DEF** **Inbox**.
4. **Erase/Lock** pop up is displayed by pressing Right Soft Key **✓**.

- |                     |   |
|---------------------|---|
| <b>Reply w Copy</b> | Replies to the SMS with the original message attached.  |
| <b>Forward</b>      | Forwards a received message to others. After recipients are entered, the message can be forwarded.  |
| <b>Erase</b>        | Deletes the selected message from the Inbox.  |
| <b>Save Address</b> | Stores the callback number, e-mail address, and numbers in user data included in the received message into your Phone Book. You can store the received number information in the corresponding number list in the Phone Book. |

For an e-mail address, select the option New Entry and Old Entry. The new e-mail address may overwrite an old address entry. For new entries, an e-mail address may be stored with the new memory number.

- |                        |  |
|------------------------|--|
| <b>Save Quick-Text</b> | Save the message into the Canned message list.   |
| <b>Save Message</b>    | Save Inbox message into the Saved Folder.  |
| <b>Lock/Unlock</b>     | Locks or unlocks the selected message. Locked messages cannot be deleted by the Erase Inbox, Erase Outbox and Erase All functions. |

## Out of Memory Warning

If the memory is full, no more messages can be received until enough memory space becomes available. The message **NOT ENOUGH MEMORY** is displayed and new messages are not accepted.

## Outbox (Menu **4-GHI** **4-GHI**)

Up to 50 sent messages can be stored in the Outbox. Users may view lists and contents of sent messages in this menu and may also verify whether the transmission was successful or not.








1. Press Left Soft Key **Menu**.
2. Press **4-GHI** **Message**.
3. Select **4-GHI** **Outbox**.
4. **Erase/Lock** pop up is displayed by pressing Right Soft Key **Menu**.

<b>Resend</b>	Allows you to retransmit the selected message.
<b>Erase</b>	Use to delete a selected message in the Outbox.
<b>Save Address</b>	Stores the callback number, e-mail address, and numbers in user data included in the received message into your Phone Book. You can store the received number information in the corresponding number list in the Phone Book. For an e-mail address, select the option New Entry and Old Entry. The new e-mail address may overwrite an old address entry.

For new entries, an e-mail address may be stored with the new memory number.

<b>Save Quick-Text</b>	Use to save the draft message in the canned message.
<b>Save Message</b>	Save outbox message into the Saved folder.
<b>Lock/Unlock</b>	Lock a message so that it is not erased if the Erase Inbox or Erase All feature is used.
<b>Cancel</b>	Cancels the transmitted message.
<b>Status Code</b>	Checks the sent message information (MSG ID/Err Class/Cause Code).

## Message Status Reference

Icons		Descriptions
	<b>Sent</b>	Messages saved in Short Message Center (SMC) have been transmitted.
	<b>Fail</b>	Indicates a failed message transmission.
	<b>Delivery</b>	Message has been delivered.
	<b>Cancel</b>	After transmission to message center has occurred, messages that have not been delivered may be canceled by transmitting cancel message.
	<b>Save</b>	Indicates that messages are only stored in the Outbox and have not been transmitted.
	<b>Multi-sending</b>	Indicates more than one designated recipient.
	<b>Pending</b>	Transmission is unavailable in a no service area. Messages are pending transmission. Pending messages are transmitted automatically when digital mode becomes available.

### Saved (Menu **4GHI 5JKL**)

Displays all the saved and draft messages.

1. Press Left Soft Key **Menu**.
2. Press **4GHI Message**.
3. Select **5JKL Saved**.

Draft Message: Displays the list of messages which have failed to send.

Saved Message: Displays the list of saved messages in Inbox/Outbox.

### Msg Settings (Menu **4GHI 6MNO**)

1. Press Left Soft Key **Menu**.
2. Press **4GHI Message**.
3. Select **6MNO Msg Settings**.

Alert, default callback number, Auto Save and Auto Delete may be configured for receiving new messages. The phone alerts you in 3 ways when you receive a new message:

- By displaying a message on the screen.
- By sounding a beep or vibrating.
- By blinking.

### Auto Save (Menu **4GHI 6MNO 1-9**)

With this feature on, messages are automatically saved in the Outbox when transmitted.

### Auto Delete (Menu **4GHI 6MNO 2ABC**)

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

### Callback # (Menu **4GHI 6MNO 3DEF**)

Allows you to automatically send a designated callback number when you send a message.

**Msg Alerts (Menu 4.GHI 6.MNO 4.GHI)**

Allows you to select the alert type for a new message. Alert types are VoiceMail Alert, Text Msg Alert, E-mail Alert and Page Alert.

**Signature (Menu 4.GHI 6.MNO 5.JKL)**

You may edit the signature you want to automatically send with your messages.

**Direct View (Menu 4.GHI 6.MNO 6.MNO)**

Allows you to directly display the content when receiving a message.

**Entry Mode (Menu 4.GHI 6.MNO 7.PQRS)**

Allows you to select the default input method including **T9 Word, Abc, 123**.

**Edit Voice Mailbox # (Menu 4.GHI 6.MNO 8.TUV)**

Allows you to manually enter the access number for Voice Mail Service. This number should be only used when VMS access number is not provided from the network.

**Quick-Text (Menu 4.GHI 6.MNO 9.WXYZ)**

Display, edit, and add Canned Messages.

**Erase All (Menu 4.GHI 7.PQRS)**

This allows you to erase all text messages stored in your Inbox, Outbox or Saved Msgs folders. You can also erase all messages stored in these folders at the same time.

- Press **1.↵** Inbox to erase all messages stored in the Inbox.
- Press **2.ABC** Outbox to erase all messages stored in the Outbox.
- Press **3.DEF** Saved to erase all messages stored in the Saved Items folder.
- Press **4.GHI** All to erase all messages stored in the Inbox, Outbox, and Saved Items folder.

## Access Apps (Menu **5 JKL**)

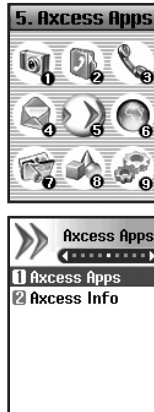
Access Apps allows you to do more than just talk on your phone. Access Apps is a technology and service that allows you to download and use applications on your phone. With Access Apps, it is quick and easy to personalize your phone to your lifestyle and tastes. Just download the applications that appeal to you. With a wide range of software available, from Ring Tones to games productivity tools, you can be assured that you can find something useful, practical, or down right entertaining.

Plus, there are constantly new applications being created for your use.

You can download applications and use Access Apps anywhere on the your carrier's network, as long as your handset has a digital signal available.

Most applications do not use a network connection while in use. While downloading an application, any incoming calls will automatically be sent to your voicemail, if available. If you do not have voicemail, downloading will not be interrupted by an incoming call, however the caller will receive a busy signal.

When using an application 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.

You can personalize your phone by adding new applications and by removing old ones, at any time.

If you need more memory, but still want to be able to access the application later, try using Disable. Disabling keeps the application usage and purchase information, but removes it from memory. To restore an application, go to Options, select the application and click on Restore.

Only removing an application deletes it completely from the memory of the phone. To restore an application once it has been removed will require that you pay and download it again.

Start: allows you to download selected applications while displaying the Access Apps application list relayed from the Access Apps server in connection. Gives you information about the Access Apps selection key.

## Access Apps (Menu **5 JKL 1.-**)

1. Press Left Soft Key **Menu**.
2. Press **5 JKL** **Access Apps**.
3. Select **1.-** **Access Apps**.  
Main display of Access Apps will appear.
4. Select [Access Apps] Icon and press **OK**.

Start: allows you to download selected applications while displaying the Access Apps application list relayed from the Access Apps server in connection.

## Access Info (Menu **5** JKL **2** ABC)

Gives you information about the Access Apps selection key.


**NOTE :** Pressing the left arrow key  will start Access Apps.

## Mobile Web (Menu **6** MNO)

The MiniBrowser feature allows you to view internet content, especially designed for your mobile phone. Access and selections within this feature are dependent upon your service provider. For specific information on MiniBrowser access through your phone, contact your service provider.



## Start Browser (Menu **6** MNO **1** Start)

- 1) A reminder of the charge will appear; press  Yes to launch MiniBrowser, if required.
- 2) After a few seconds, you see the Home Page.

## Ending Minibrowser Session

You can end a Minibrowser session by pressing .

## Navigating through the Browser


While using MiniBrowser on-screen items may be presented in one of the following ways:

- numbered options.
- links embedded in content.
- text or numbers.


You can act on the options or the links by using the Soft Keys just below the display screen.

## Navigation

### Scrolling

You can use  to scroll through the content if the current page does not fit on one screen. The currently selected item is indicated by a cursor on the screen.

### Fast Scrolling

Press and hold  to quickly move the cursor up and down on the current screen.

### Scrolling by page

Press the Side Keys to move up and down a page at a time.

### Home Page

To go to the Home Page, press and hold .

### View Browser Menu

Press and hold  to use the browser menu.



### *Clearing out text/number entered*

When entering text or numbers, press **BACK** to clear the last number, letter or symbol. Press and hold **BACK** to clear the input field completely.

### *Selecting and activating items*

If the items on a page are numbered, you can use your numeric keypad or you can select the items by moving the cursor and pressing the appropriate Soft Keys.

#### *Soft Keys*

To navigate to different screens or select special functions, use the Soft Keys. Note that the function associated with the Soft Keys can change for each page and depends on each highlighted item.

#### *Left Soft Key*

Left Soft Key is used primarily for first options or selecting an item but its function may change, depending on the content displayed.

#### *Right Soft Key*

Right Soft Key is used primarily for secondary options or a menu of secondary options.

### *Entering Text, Numbers, or Symbols*

When you are prompted to enter text, the current text entry method appears on Right Soft Key as Alpha, Symbol, Number, Word or Smart.

To change the input mode, use Right Soft Key . To create an upper case character, use **SHIFT**. The current text method appears on Right Soft Key as ALPHA or SMART and allows you to shift to input case sensitivity.

### **Initiating a phone call from MiniBrowser**

You can make a phone call from MiniBrowser if the site you are using supports the feature (the phone number may be highlighted and Left Soft Key appears as Call).

The browser connection is terminated when you initiate the call. After you end the call, your phone returns to the screen from which you initiated the call.

### **Using Bookmarks**

You can bookmark many individual pages for easy access at a later time. Bookmarks save you time by reducing the number of steps it takes to access a desired page.

*To create a bookmark:*

Go to the page that you want to mark. On the browser menu, select Mark Site or press and hold **SPACE**.

If the page has a title, it is automatically used for the name of the bookmark. When the bookmark is saved you can change the bookmark name if you choose. Selecting Save saves the name and adds the page to the bottom of your list of bookmarks.

A message appears confirming that the bookmark is added to the list. Select Left Soft Key **OK** to return to the screen that you marked to resume navigation within the MiniBrowser.

This function is dependent upon the html coding of the page and determined by the website.

### *Finding a bookmark*

From the Home Page, press and hold the number associated with the bookmark in the bookmark list.

### Web Messages (Menu **6MNO** **2ABC**)

If there are any browser messages the list is displayed.

### Web Settings (Menu **6MNO** **3DEF**)

### Prompt (Menu **6MNO** **3DEF** **1-1**)

You can specify whether you want the phone to display warning prompts while using the MiniBrowser.

The first prompt occurs prior to making a MiniBrowser call; you are informed that there is a charge and asked if you still want to launch the browser. This step is used to prevent accidental activation of the browser since all subscribers are provided with the browser automatically.

The second prompt asks if you want to exit the browser, after you press **END**.

- **At Start:** You only see the prompt asking whether or not to start.
- **At End:** You see the prompt asking to stop.
- **Both:** You see the prompts asking whether to start and stop.
- **None:** No warning prompts are displayed.

### Alert Beep (Menu **6MNO** **3DEF** **2ABC**)

There are 3 alert options. **Mute**, **2 Beeps** and **4 Beeps** options are provided in this menu. The user may select a browser alert sound.

### My Media (Menu **7PQRS**)

#### Graphics (Menu **7PQRS** **1-1**)

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

1. Press Left Soft Key **Menu**.
2. Press **7PQRS** **My Media**.
3. Press **1-1** **Graphics**.

- bear\_heart/elvis birthday\_sm/  
hi\_pig\_sm/love\_you\_cat\_sm/  
martini/party\_time\_sm/roses/  
sorry\_monster\_sm/sun/surfing



## Music (Menu **7**PORS **2**ABC )

Allows you to choose the ring tones to be heard for incoming calls.

1. Press Left Soft Key **Menu**.
2. Press **7**PORS **My Media**.
3. Press **2**ABC **Music**.
  - Beethovens\_fifth/Dreamsequence/Ode\_to\_joy/Rainforest/Train

## Tools (Menu **8**TUV )

### Schedule (Menu **8**TUV **1**.-' )

### Scheduler Functions

Scheduler keeps your agenda convenient and easy to access. Simply store your appointments and your phone alerts you with a reminder of your appointment. You can also take advantage of the Alarm Clock feature.

**NOTE : Scheduler will not alert you during a call, when transmitting SMS, or when connecting up. After exiting, it will sound the reminder.**



Allows you to input your schedule. If you input the time and memo, an alarm rings at the set time.

1. Press Left Soft Key **Menu**.
2. Press **8**TUV **Tools**.
3. Press **1**.-' **Schedule**.

**NOTE : Pressing the Navigation key (left arrow) to the left from Standby mode is a hot key to Schedule.**

### How to use buttons

- Moves cursor to the left.
- Moves cursor to the right.
- Moves to the previous week.
- Moves to the next week.

### Alarm Clock (Menu **8**TUV **2**ABC )

1. Press Left Soft Key **Menu**.
2. Press **8**TUV **Tools**.
3. Select **2**ABC **Alarm Clock**.
4. Select the alarm you want to edit.
5. Set the time for alarm and press Left Soft Key **Save**.

- The current time will be displayed in the upper portion of the screen.
- You can change the alarm mode and alarm ringer type using **(◀ ▶)**.
  - At the alarm time, "Alarm x" will be displayed on the LCD screen and the alarm will sound.

### Voice Memo (Menu **8TUV** **3DEF**)

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

- Press Left Soft Key **• Menu**.
- Press **8TUV Tools**.
- Select **3DEF Voice Memo**.
- Press Left Soft Key **• New** to record a new voice memo.

### My Shortcut (Menu **8TUV** **4CHI**)

- Press Left Soft Key **• Menu**.
- Press **8TUV Tools**.
- Select **4CHI My Shortcut**.

### Notepad (Menu **8TUV** **5JKL**)

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

- Press Left Soft Key **• Menu**.
- Press **8TUV Tools**.
- Select **5JKL Notepad**.
- Press Left Soft Key **• Add** to write a new note.

### Calculator (Menu **8TUV** **6MNO**)

Calculate simple mathematical computations. (Can enter numbers up to the second decimal place.)

- Press Left Soft Key **• Menu**.
- Press **8TUV Tools**.
- Select **6MNO Calculator**.

**NOTE: Calculations can be made with up to 32 characters at one time (e.g. 63+78-21 would be 8 characters).**

### World Clock (Menu **8TUV** **7PQRS**)

Is useful if you need to make a call to another country and you are not sure about the time difference.

- Press Left Soft Key **• Menu**.

2. Press **8 TUV** **Tools**.
3. Select **7 PQRS** **World Clock**.

## Settings (Menu **9 WXYZ**)

### Sounds (Menu **9 WXYZ** **1 -**)

### Ringers (Menu **9 WXYZ** **1 -** **1 -**)

1. Press Left Soft Key **■** **Menu**.
2. Press **9 WXYZ** **Settings**.
3. Press **1 -** **Sounds** and then press **1 -** **Ringers**.
4. Select Caller ID/No Caller ID/Restrict.
5. Then press **OK** **(ENT)** to save the sound.

### Key Tone (Menu **9 WXYZ** **1 -** **2 ABC**)

To set the Key Tone length and touch tone playback speed:

1. Press Left Soft Key **■** **Menu**.
2. Press **9 WXYZ** **Settings**.



3. Press **1 -** **Sounds** and then press **2 ABC** **Key Tone**.
4. Set *Normal/Long* with **◀** and then press **OK** **(ENT)**.

**Normal** Sends out a tone for a fixed period of time even if you keep the key pressed.

**Long** Sends out a continuous tone for as long as you keep the key pressed.

**NOTE: Dual-Tone Multi Frequency (DTMF) Signaling** by the simultaneous transmission of two tones, one from a group of low frequencies and another from a group of high frequencies. Each group of frequencies consists of four frequencies. Setting Key Beep length to Long will extend the DTMF tone. Press Menu, then press **9 WXYZ**, **1 -**, **2 ABC** Key Tones using **◀** then select Long. Press **OK** **(ENT)**.

### Volume (Menu **9 WXYZ** **1 -** **3 DEF**)

1. Press Left Soft Key **■** **Menu**.
2. Press **9 WXYZ** **Settings**.
3. Press **1 -** **Sounds** and then press **3 DEF** **Volume**.
4. Select Ringer/Earpiece/ Key Beep.
5. Adjust the volume of the ringer with **◀**.

6. Then press **OK** to save the Volume.

### Alerts (Menu **9WXYZ** **1** **4GHI**)

Any of the four Alert options can be turned on or off.

1. Press Left Soft Key **Menu**.
2. Press **9WXYZ** **Settings**.
3. Press **1** **Sounds** and then press **4GHI** **Alerts**.
  - Check each option and turn it off if not desired.

#### Service Change (Menu **9WXYZ** **1** **4GHI** **1**)

Alerts you when service changes. When you enter a service area, the phone displays *Entering Service Area* message. When you leave a service area, the phone displays *Leaving Service Area* message.

#### Minute Beep (Menu **9WXYZ** **1** **4GHI** **2ABC**)

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

#### Call Connect (Menu **9WXYZ** **1** **4GHI** **3DEF**)

Alerts you when the call is connected.

#### Back To Top (Menu **9WXYZ** **1** **4GHI** **4GHI**)

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

4. Select an option and press **OK**.
5. Set *Off/On* with **Off/On** and then press **OK**.

### Power On/Off Tone (Menu **9WXYZ** **1** **5JKL**)

Set power On/Off tones.

1. Press Left Soft Key **Menu**.
2. Press **9WXYZ** **Settings**.
3. Press **1** **Sounds** and then press **5JKL** **Power On/ Off Tone**.
4. Set *Off/On* with **Off/On** and then press **OK**.

### Display (Menu **9WXYZ** **2ABC**)

#### Banner (Menu **9WXYZ** **2ABC** **1**)

Allows you to enter a string of up to 16 characters to be displayed on the LCD screen.

1. Press Left Soft Key **Menu**.
2. Press **9WXYZ** **Settings**.
3. Press **2ABC** **Display** and then press **1** **Banner**.
4. Enter a Banner and then press **OK**.

#### Backlight (Menu **9WXYZ** **2ABC** **2ABC**)

Allows you to set the duration for leaving the backlight on.

1. Press Left Soft Key **Menu**.
2. Press **9WXYZ** **Settings**.
3. Press **2ABC** **Display** and then press **2ABC** **Backlight**.

**Timer** (Menu **9WXYZ** **2ABC** **2ABC** **1.-'**)

- **7 seconds** turns the backlight off 7 seconds after the last key was pressed.
- **15 seconds** turns the backlight off 15 seconds after the last key was pressed.
- **30 seconds** turns the backlight off 30 seconds after the last key was pressed.
- **Always off** means that the backlight is never on.
- **On flip open** means that the backlight is always on while cellcase is open.

**Contrast** (Menu **9WXYZ** **2ABC** **2ABC** **2ABC**)

Allows you to set the contrast level of the backlight.

4. Choose an option and press **OK** .


**Screens** (Menu **9WXYZ** **2ABC** **3DEF**)

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

1. Press Left Soft Key **Menu**.
2. Press **9WXYZ** **Settings**.
3. Press **2ABC** **Display** and then press **3DEF** **Screens**.
4. Select Wallpaper/Power On/Power Off.
5. Select from 7 different screens and press Left Soft Key **Save**.

**Menu Style** (Menu **9WXYZ** **2ABC** **4GHI**)

Allows you to choose whether you want the menu to show as a list or as icons.

1. Press Left Soft Key **Menu**.
2. Press **9WXYZ** **Settings**.
3. Press **2ABC** **Display** and then press **4GHI** **Menu Style**.
4. Select *Icon* or *List* and press .

**Clocks** (Menu **9WXYZ** **2ABC** **5JKL**)


Allows you to choose the kind of clock to be displayed on the LCD screen.

1. Press Left Soft Key **Menu**.
2. Press **9WXYZ** **Settings**.
3. Press **2ABC** **Display** and then press **5JKL** **Clocks**.
4. Select *Normal/Analog* or *Digital* and press Left Soft Key **Save**.

**Theme Colors** (Menu **9WXYZ** **2ABC** **6MNO**)


Allows you to choose the color of the background screen.

1. Press Left Soft Key **Menu**.



2. Press **9WXYZ Settings**.
3. Press **2ABC Display** and then press **6MNO Theme Colors**.
4. Select an option and press  .
  - Default/Green/Violet/Orange

### Fonts (Menu **9WXYZ** **2ABC** **7PQRS**)



Allows you to choose the size and color of the number font.

1. Press Left Soft Key  **Menu**.
2. Press **9WXYZ Settings**.
3. Press **2ABC Display** and then press **7PQRS Fonts**.

Calling Digits (Menu **9WXYZ** **2ABC** **7PQRS** **1.-'**)




1. Select Size/Color.
2. Press  until you find the size or the color you desire.
3. Press  to save.

Text Editor (Menu **9WXYZ** **2ABC** **7PQRS** **2ABC**)

1. Select Size/Color.
2. Press  until you find the size or the color you desire.
3. Press  to save.



### Language (Menu **9WXYZ** **2ABC** **8TUV**)

Set the bilingual feature according to your preference. Choose between English and Spanish.

1. Press Left Soft Key  **Menu**.
2. Press **9WXYZ Settings**.
3. Press **2ABC Display** and then press **8TUV Language**.
4. Set **English/Spanish** with  then press .

### Power Saver (Menu **9WXYZ** **2ABC** **9WXYZ**)

Display and buttons are lighted for a designated length of time, allowing you to use your mobile phone in the dark with convenience.

1. Press Left Soft Key  **Menu**.
2. Press **9WXYZ Settings**.
3. Press **2ABC Display** and then press **9WXYZ Power Saver**.
4. Select an option and press  .
  - 2 min/10 min/30 min/Always On



## System (Menu **9**WXYZ **7**DEF)

### Select System (Menu **9**WXYZ **7**DEF **1**.-')

This function enables 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 Left Soft Key **Menu**.
2. Press **9**WXYZ **Settings**.
3. Press **7**DEF **System** and then press **1**.-' **Select System**.
4. Select an option and press **OK** (ENT).
  - Home Only/Automatic A/Automatic B

### Set NAM (Menu **9**WXYZ **7**DEF **2**ABC)

Select the phone's NAM (Number Assignment Module) if the phone is registered with multiple service providers.

1. Press Left Soft Key **Menu**.
2. Press **9**WXYZ **Settings**.
3. Press **7**DEF **System** and then press **2**ABC **Set NAM**.
4. Select *NAM1* or *NAM2* and press **OK** (ENT).

## Auto NAM (Menu **9**WXYZ **7**DEF **7**DEF)

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

1. Press Left Soft Key **Menu**.
2. Press **9**WXYZ **Settings**.
3. Press **7**DEF **System** and then press **7**DEF **Auto NAM**.
4. Select *On* or *Off* and press **OK** (ENT).

## Serving System (Menu **9**WXYZ **7**DEF **4**GHI)

You can identify the channel number of a system that is served and a SID Number. This information is only for technical support.






1. Press Left Soft Key **Menu**.
2. Press **9**WXYZ **Settings**.
3. Press **7**DEF **System** and then press **4**GHI **Serving System**.

## Security (Menu )







### Lock Phone (Menu )

Keeps your phone from unauthorized use. Once the phone is locked, it is in restricted mode until the lock code is entered. This allows you to receive phone calls and still make emergency calls. The Lock Code/Password on your phone is **0000** by default.

You can modify the lock code using the New Lock code within the Security menu.







1. Press Left Soft Key  **Menu** and then press  **Settings**.
2. Press  **Security**.
3. Enter the four-digit Lock code.
4. Press  **Lock Phone**.
5. Select an option and press  .
  - **Unlock** means that the phone is never locked (Lock mode can be used). When locked, you can receive incoming calls or make only emergency calls.
  - **Lock** means that the phone is always locked.
  - **On Power Up** means the phone is locked when it is turned on.

## Restrict (Menu )

1. Press Left Soft Key  **Menu** and then press  **Settings**.
2. Press  **Security**.
3. Enter the four-digit Lock code.
4. Press  **Restrict**.
5. Select *On* or *Off* with  and then press  .  
If you set it to On you can only place calls to emergency numbers and phone numbers stored in the phone book. You can still receive calls in the restrict mode.

## Emergency #s (Menu )

You can call emergency numbers and 911, even when the phone is locked or restricted. To enter 3 emergency numbers:

1. Press Left Soft Key  **Menu** and then press  **Settings**.
2. Press  **Security**.
3. Enter the four-digit Lock code.
4. Press  **Emergency #s**.
5. Select emergency number using  .
6. Enter an emergency number.
7. Press  .

### Change Code (Menu **9**WXYZ **4**GHI **4**GHI)

Allows you to enter a new four-digit lock code number.

1. Press Left Soft Key **•** **Menu** and then press **9**WXYZ **Settings**.
2. Press **4**GHI **Security**.
3. Enter the four-digit Lock code.
4. Press **4**GHI **Change Code**.
5. For confirmation, it will ask you to enter the new lock code again.

### Erase Contacts (Menu **9**WXYZ **4**GHI **5**JKL)

1. Press Left Soft Key **•** **Menu** and then press **9**WXYZ **Settings**.
2. Press **4**GHI **Security**.
3. Enter the four-digit Lock code.
4. Press **5**JKL **Erase Contacts**.
5. Select Erase all #s and press **OK** (G).

### Reset Default (Menu **9**WXYZ **4**GHI **6**MNO)

1. Press Left Soft Key **•** **Menu** and then press **9**WXYZ **Settings**.
2. Press **4**GHI **Security**.
3. Enter the four-digit Lock code.
4. Press **6**MNO **Reset Default**.
5. Press **OK** (G), select Revert and press **OK** (G).

### Call Setup (Menu **9**WXYZ **5**JKL)

#### Auto Retry (Menu **9**WXYZ **5**JKL **1**.-)

Allows you to set the length of time the phone waits before automatically redialing a number when the attempted call fails.

1. Press Left Soft Key **•** **Menu**.
2. Press **9**WXYZ **Settings**.
3. Press **5**JKL **Call Setup** and then press **1**.- **Auto Retry**.
4. Select an option and press **OK** (G).
  - Off/Every 10 seconds/Every 30 seconds/ Every 60 seconds.

### Answer Call (Menu **9**WXYZ **5**JKL **2**ABC)

Allows you to determine when to answer the phone.

1. Press Left Soft Key **Menu**.
  2. Press **9**WXYZ **Settings**.
  3. Press **5**JKL **Call Setup** and then press **2**ABC **Answer Call**.
  4. Select an option and press **OK** (Enter).
- Flip Open/Any Key/SEND Only

### Auto-Answer (Menu **9**WXYZ **5**JKL **3**DEF)

Allows you to select the ring type before the phone automatically answers a call.

1. Press Left Soft Key **Menu**.
  2. Press **9**WXYZ **Settings**.
  3. Press **5**JKL **Call Setup** and then press **3**DEF **Auto-Answer**.
  4. Select an option and press **OK** (Enter).
- **Off**
  - **After 1 ring** When you have an incoming call, the phone automatically responds after 1 ring.
  - **After 3 rings** When you have an incoming call, the phone automatically responds after 3 rings.
  - **Answering Machine** The phone automatically responds with the answering machine.1

### One-Touch Dial (Menu **9**WXYZ **5**JKL **4**GHI)

1. Press Left Soft Key **Menu**.
2. Press **9**WXYZ **Settings**.
3. Press **5**JKL **Call Setup** and then press **4**GHI **One-Touch Dial**.
4. Select *Enable* or *Disable* and press **OK** (Enter).

### Voice Privacy (Menu **9**WXYZ **5**JKL **5**JKL)

Set the voice privacy feature for CDMA calls as Enhanced or Standard. CDMA offers inherent voice privacy. Check with your service provider for availability of the enhanced voice privacy mode.

1. Press Left Soft Key **Menu**.
2. Press **9**WXYZ **Settings**.
3. Press **5**JKL **Call Setup** and then press **5**JKL **Voice Privacy**.
4. Select *Enhanced* or *Standard* and press **OK** (Enter).

### TTY Mode (Menu **9WXYZ** **5JKL** **6MNO** )

Users can attach a TTY device and 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.

1. Press Left Soft Key **Menu**.
2. Press **9WXYZ** **Settings**.
3. Press **5JKL** **Call Setup** and then press **6MNO** **TTY Mode**.
4. Select an option and press **OK** .
  - TTY Full / TTY + TALK / TTY + HEAR / TTY Off.

### 1X Data (Menu **9WXYZ** **6MNO** )

#### Data/Fax (Menu **9WXYZ** **6MNO** **1.-** )

In the Data/Fax setting, you can use your phone to transmit data and faxes. Wireless data communication services refers to the utilization of subscriber terminals for access to the internet with personal computers or laptops at 19.2 Kbps or at a maximum of 230.4 Kbps. The connection speed depends on your carrier's network and other variables. Contact communication information specifications must match the network.

1. Press Left Soft Key **Menu**.
2. Press **9WXYZ** **Settings**.
3. Press **6MNO** **1X Data** and then press **1.-** **Data/ Fax**.
4. Select an option and press **OK** .
  - Off/Fax In Once/Fax In Always/Data In Once/ Data In Always

**NOTE:** The Data Connection Kit allows you to connect your PC or PDA to your LG wireless phone, freeing you from having to locate a telephone outlet. You can send or receive an e-mail, a fax, or access the Internet anytime, anywhere.

### Select Port (Menu **9WXYZ** **6MNO** **2ABC**)

This setting enables you to select the port.

1. Press Left Soft Key **Menu**.
2. Press **9WXYZ** **Settings**.
3. Press **6MNO** **1X Data** and then press **2ABC** **Select Port**.
4. Select an option and press **OK** **(ENT)**.
  - USB/RS-232C(COM Port)/Closed

### Port Speed (Menu **9WXYZ** **6MNO** **3DEF**)

This setting enables you to set the port speed.

1. Press Left Soft Key **Menu**.
2. Press **9WXYZ** **Settings**.
3. Press **6MNO** **1X Data** and then press **3DEF** **Port Speed**.
4. Select an option and press **OK** **(ENT)**.
  - 19200/115200/230400

Set the port speed based on your carrier's network. Contact your carrier to determine the maximum available speed.

**NOTE:** When using the 1X HSPD data service via an RS-232C data cable, the port speed is set to 115,200. (230,400 is not supported). When using the 1X HSPD data service via a USB data cable, you may get better port speed if the port speed is set to 230,400 rather than 115,200.

### Mode(1X/QNIC) (Menu **9WXYZ** **6MNO** **4GHI**)

This is setting enables you to set the speed for WAP, BREW and Tethered Mode.

1. Press Left Soft Key **Menu**.
2. Press **9WXYZ** **Settings**.
3. Press **6MNO** **1X Data** and then press **4GHI** **Mode(1X/QNIC)**.
4. Select an option and press **OK** **(ENT)**.
  - Auto/1X/QNIC

### PAP ID (Menu **9WXYZ** **6MNO** **5JKL**)

It is the user's ID for PPP Authentication Protocol.

1. Press Left Soft Key **Menu**.
2. Press **9WXYZ** **Settings**.
3. Press **6MNO** **1X Data** and then press **5JKL** **PAP ID**.
4. Enter a PAP ID and press **OK** **(ENT)**.

### PAP Password (Menu **9WXYZ** **6MNO** **6MNO**)

It is the user's password for PPP Authentication Protocol.

1. Press Left Soft Key **Menu**.
2. Press **9WXYZ** **Settings**.
3. Press **6MNO** **1X Data** and then press **6MNO** **PAP Password**.
4. Enter a PAP Password and press **OK** **(ENT)**.

## Voice Services (Menu **9** WXYZ **7** PQRS)

### Voice Dial Prompt (Menu **9** WXYZ **7** PQRS **1** ->)

Allows you to set the command for voice dialing.

1. Press Left Soft Key **Menu**.
2. Press **9** WXYZ **Settings**.
3. Press **7** PQRS **Voice Services** and then press **1** -> **Voice Dial Prompt**.
4. Select an option and press **OK** (OK) .
  - Key press/Flip open/Disable

### Answering Machine (Menu **9** WXYZ **7** PQRS **2** ABC)

1. Press Left Soft Key **Menu**.
2. Press **9** WXYZ **Settings**.
3. Press **7** PQRS **Voice Services** and then press **2** ABC **Answering Machine**.
4. Select an option and press **OK** (OK) .
  - **Speaker on:** You can hear the other party during the recording of the answering machine.
  - **Speaker off:** You cannot hear the other party during the recording of the answering machine.

## Train Words (Menu **9** WXYZ **7** PQRS **3** DEF)

Allows you to help your phone distinguish your voice when using voice commands.

During the voice recognition process, if you cannot clearly recognize the words Yes or No, you can record your own voice with this feature.

1. Press Left Soft Key **Menu**.
2. Press **9** WXYZ **Settings**.
3. Press **7** PQRS **Voice Services** and then press **3** DEF **Train Words**.
4. Select *Yes* or *No* and press **OK** (OK) .
5. If you have selected Yes, you can record Yes according to the message of the phone.
6. Select *Train* or *Un-train* and press **OK** (OK) .
7. If you chose Un-Train, press **1** -> OK and follow the voice prompts.
  - or
  - If you chose Un-train, press **1** -> Un-train.

### Location (Menu **9 WXYZ** **8 TUV**)

Menu for GPS (Global Positioning System: Satellite assisted location information system) mode.

1. Press Left Soft Key **Menu**.
2. Press **9 WXYZ** **Settings**.
3. Press **8 TUV** **Location**.
4. Select an option and press **OK** .
  - Location On/E911 Only

**NOTE: GPS satellite signals are not always transmitted, especially under bad atmospheric and environmental conditions, indoors or otherwise.**

### Phone Info (Menu **9 WXYZ** **9 WXYZ**)

#### My Phone Number (Menu **9 WXYZ** **9 WXYZ** **1 -'**)

Use to display your phone number on the screen.

1. Press Left Soft Key **Menu**.
2. Press **9 WXYZ** **Settings**.
3. Press **9 WXYZ** **Phone Info** and then press **1 -'** **My Phone Number**.

### S/W Version (Menu **9 WXYZ** **9 WXYZ** **2 ABC**)

Allows you to view the software, PRL, ERI, and browser version.

1. Press Left Soft Key **Menu**.
2. Press **9 WXYZ** **Settings**.
3. Press **9 WXYZ** **Phone Info** and then press **2 ABC** **S/W Version**.

### Icon Glossary (Menu **9 WXYZ** **9 WXYZ** **3 DEF**)

Allows you to view all the icons and their meanings.

1. Press Left Soft Key **Menu**.
2. Press **9 WXYZ** **Settings**.
3. Press **9 WXYZ** **Phone Info** and then press **3 DEF** **Icon Glossary**.

### Shortcut Help (Menu **9 WXYZ** **9 WXYZ** **4 GHI**)

Allows you to view condensed information about using the phone.

1. Press Left Soft Key **Menu**.
2. Press **9 WXYZ** **Settings**.
3. Press **9 WXYZ** **Phone Info** and then press **4 GHI** **Shortcut Help**.
  - From the Standby screen, press **BACK** .





## 5 Safety Guidelines

### TIA Safety Information

The following is the complete TIA Safety Information for Wireless Handheld phones.

#### Exposure to Radio Frequency Signal

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

In August, 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for hand-held 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)

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:

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

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

### Driving

Check the laws and regulations on the use of wireless telephones 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 so require.

### Electronic Devices

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

### Pacemakers

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

Persons with pacemakers:

- Should ALWAYS keep the phone more than six inches from their pacemaker when the phone is turned ON;
- Should not carry the phone in a breast pocket
- Should use the ear opposite the pacemaker to minimize the potential for interference
- 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.] Optional for each phone manufacturer.

### 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.

## **FDA 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 radiofrequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the 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 radiofrequency energy (RF) 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:

- o National Institute for Occupational Safety and Health
- o Environmental Protection Agency
- o Occupational Safety and Health Administration
- o 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 radiofrequency energy (RF) 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 radiofrequency energy (RF) 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 pre-disposed 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 don't 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 10 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 energy (RF).

The FDA has been a leading participant in the World Health Organization International Electromagnetic 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. CTIA-funded 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 energy (RF) 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 telephones 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 energy (RF) 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 energy (RF). 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 energy (RF), 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 energy (RF) from wireless phones can interact with some electronic devices. For this reason, the FDA helped develop a detailed test method to measure electromagnetic 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 Electrical and Electronic 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/cdrh/phones/index.html>)

Federal Communications Commission (FCC) RF Safety Program  
(<http://www.fcc.gov/oet/rfsafety>)

International Commission on Non-Ionizing 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.nrp.org.uk/>)

## 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 radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg. Tests for SAR are conducted using standard operating positions specified by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although 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 highest SAR value for this model phone when tested for use at the ear is 1.110 W/kg and when worn on the body, as described in this user guide, is 0.975 W/kg (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF emission guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on FCC ID BEJLX5450. Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) website at <http://www.wow-com.com>.

\* 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.

## LIMITED WARRANTY STATEMENT

### 1. WHAT THIS WARRANTY COVERS:

LG offers you a limited warranty that the enclosed subscriber unit and its enclosed accessories will be free from defects in material and workmanship, according to the following terms and conditions:

- (1) The limited warranty for the unit and enclosed accessories shall be a period of one (1) year from the date of original purchase. The remaining warranty period for the unit being repaired or replaced shall be determined by presentation of the original sales receipt for the purchase of the unit.
- (2) The limited warranty extends only to the original purchaser of the product and is not assignable or transferable to any subsequent purchaser / end user.
- (3) The limited warranty is good only to the original purchaser of the product during the warranty period as long as it is in the U.S., including Alaska, Hawaii, U.S. Territories, and all Canadian Provinces.
- (4) The external housing and cosmetic parts shall be free of major defects at the time of shipment and, therefore, shall not be covered under these limited warranty terms.
- (5) Upon request from LG, the consumer must provide information satisfactory to LG to prove the date of purchase or exchange.
- (6) The customer shall bear the cost of shipping the product to the Customer Service Department of LG. LG shall bear the cost of shipping the product back to the consumer after the completion of service under this limited warranty.

### 2. WHAT THIS WARRANTY DOES NOT COVER:

- (1) Defects or damage resulting from use of the product in other than its normal and customary manner.
- (2) Defect or damage from abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, unauthorized modifications, unauthorized connections, unauthorized repair, misuse, neglect, abuse, accident, alteration, improper installation, or other acts which are not the fault of LG, including damage caused by shipping, blown fuses, or spills of food or liquid.
- (3) Breakage or damage to antennas unless caused directly by defects in material or workmanship.
- (4) Alleged defects or malfunctions of the product if the Customer Service Department at LG was not notified by the consumer during the applicable limited warranty period.
- (5) Products, which have had the serial number, removed or

made illegible.

- (6) This limited warranty is in lieu of all other warranties, express or implied either in fact or by operations of law, statutory or otherwise, including but not limited to any implied warranty of marketability merchantability or fitness for a particular use.
- (7) Damage resulting from use of non-LG approved accessories.
- (8) All plastic surfaces and all other externally exposed parts that are scratched or damaged due to normal customer use.
- (9) Products operated outside published maximum ratings.
- (10) Products used or obtained in a rental program.
- (11) Consumables (such as fuses).

### 3. STATE LAW RIGHTS:

No other express warranty is applicable to this product. THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MARKETABILITY OR MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN. LG INFOCOMM U.S.A., INC. SHALL NOT BE LIABLE FOR THE LOSS OF THE USE OF THE PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES, DIRECT OR CONSEQUENTIAL, ARISING OUT OF THE USE OF, OR INABILITY TO USE, THIS PRODUCT OR FOR ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING THE IMPLIED WARRANTY OF MARKETABILITY OR MERCHANTABILITY APPLICABLE TO THIS PRODUCT.

Some states do not allow the exclusive of limitation of incidental or consequential damages or limitations on how long an implied warranty lasts; so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.

### 4. HOW TO GET WARRANTY SERVICE:

To obtain warranty service, please call the following telephone number from anywhere in the continental United States:

Tel. 1-800-793-8896 or visit [www.lgeservice.com](http://www.lgeservice.com). Please call or write for the location of the LGE authorized service center nearest you and the procedures for obtaining warranty claims.

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