VX3450 User Guide

MMBB0230401(1.2)

verizonwireless

User Guide

TXT Messaging Phone

LG VX3450

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

⚠Warning

Violation of the instructions may cause serious injury or death.

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

- Never place your phone in a microwave oven as it will cause the battery to explode.

- Never store your phone in temperatures less than -4°F or greater than 122°F.

- Do not dispose of your battery near fire or with hazardous or flammable materials.

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

- Do not use a hand-held phone while driving.

- Do not use the phone in areas where its use is prohibited. (For example: aircraft)

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

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

- Do not drop, strike, or shake your phone severely. It may harm the internal circuit boards of the phone.

- Do not use your phone in high explosive areas as the phone may generate sparks.

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

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

- Do not handle the phone with wet hands while it is being charged. It may cause an electric shock or seriously damage your phone.

- Do not disassemble the phone.

- Do not place or answer calls while charging the phone as it may short-circuit the phone and/or cause electric shock or fire.

- Do not hold or let the antenna come in contact with your body during a call.

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

- Store the battery out of reach of children.

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

- Unplug the power cord and charger during lightning storms to avoid electric shock or fire.

- Only use the batteries and chargers provided by LG. The warranty will not be applied to products provided by other suppliers.

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

- An emergency call can be made only within a service area. For an emergency call, make sure that you are within a service area and that the phone is turned on.

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* **Available only when all incoming calls or incoming calls from your Contacts are restricted in Menu-> Settings-> Security-> Restrictions-> Calls-> Incoming Calls.**

Table of Contents

Congratulations for choosing the advanced and compact VX3450 cellular phone designed to operate with the latest digital mobile communication technology, Code Division Multiple Access (CDMA) and Advanced Mobile Phone Service (AMPS). Along with the many advanced features of the CDMA system, such as greatly enhanced voice clarity, this phone offers:

- Chaperone℠ Service.
- Preloaded Game Applications.
- Melody Composer capability.
- Large, easy-to-read, 7-line backlit LCD with status icons.
- Paging, messaging, voice mail, and caller ID.
- 22-key keypad.
- Speakerphone feature.
- Menu-driven interface with prompts for easy operation and configuration.
- Any key answer, auto answer, auto retry, one-touch and speed dialing with 99 memory locations.
- Bilingual (English and Spanish) capabilities.

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

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.

Technical Details
The VX3450 is a tri-mode 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. Also, the VX3450 works on Advanced Mobile Phone Service (AMPS). Since the phone operates on Cellular, PCS and AMPS, the call fail rate is less

than on a conventional dual-mode or singlemode phone.

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).

* 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.

The following table lists some major CDMA standards.

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

FCC RF Exposure Information

WARNING! Read this information before operating the phone.

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

The design of this phone complies with the FCC guidelines and these international standards.

Bodily Contact During Operation

This device was tested for typical use with the back of the phone kept 0.6 inches (1.5 cm) from the body. To comply with FCC RF exposure requirements, a minimum separation distance of 0.6 inches (1.5 cm) must be maintained between the user's body and the back of the phone, including the antenna, whether extended or retracted. Third-party belt-clips, holsters, and similar accessories containing metallic components should not be used.

Avoid the use of accessories that cannot maintain 0.6 inches (1.5 cm) distance between the user's body and the back of the phone and have not been tested for compliance with FCC RF exposure limits.

Vehicle-Mounted External Antenna (Optional, if available)

A minimum distance of 8 inches (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.

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 violate of FCC regulations. Don't use the phone with a damaged antenna. If a damaged antenna contacts skin, a minor burn may result. Contact your local dealer for a replacement antenna.

1. Earpiece

2. Flip

3. LCD Screen

Outside Display

Speaker

4. Speakerphone Key

10. Navigation Keys

11. Right Soft Key

5. Headset Jack

6. Left Soft Key

12. Message Key

7. Side Keys

13. END/PWR Key

8. SEND Key

14. CLR Key

15. Alphanumeric Keypad

9. Manner Mode Key

16. Lock Mode Key

17. Microphone

1. **Earpiece**

2. **Flip** Open to answer an incoming call and close to end the call.

3. **LCD Screen** Displays messages and indicator icons.

4. **Speakerphone Key** Use to set the Speaker Phone Mode.

5. **Headset Jack**

6. **Left Soft Key** Use to display the function setting menu.

7. **Side Keys** Use to adjust the ringer volume in standby mode and the earpiece volume during a call.

8. **SEND Key** Use to make or answer calls.

9. **Manner Mode Key** Use to set the Manner Mode (from standby mode press and hold ⚹ for about 3 seconds).

10. **Navigation Keys** Use for quick access to Messages, Speakerphone On/ Off, Schedule and Sounds.

11. **Right Soft Key** Use to select an action within a menu.

12. **Message Key** Use to retrieve or send voice and text messages.

13. **END/PWR Key** Use to turn the power on/off and to end a call. Also returns you to the main menu display screen.

14. **CLR Key** Deletes single spaces or characters with a quick press, but press and hold to delete entire words. Will also back you out of menus, one level at a time.

15. **Alphanumeric Keypad** Use to enter numbers and characters and select menu items.

16. **Lock Mode Key** Use to lock the phone (from standby mode press ⌗ and hold for about 3 seconds).

17. **Microphone** Allows you to speak to the caller.

1. Contacts

1. List Contacts
2. New Number
3. New E-mail
4. Groups
5. Speed Dials
6. Voice Dials
7. My VCard
8. In Case of Emergency

2. Recent Calls

1. Dialed Calls
2. Received Calls
3. Missed Calls
4. Blocked Calls*
5. Erase Calls
   1. Dialed Calls
   2. Received Calls
   3. Missed Calls
   4. All Calls
6. Call Timer
   1. Last Call
   2. Home Calls
   3. Roam Calls
   4. All Calls

3. Messages

1. Voice Mail
2. New Message
3. Inbox
4. Outbox
5. Saved
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   2. Auto Delete
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   8. Quick-Text
   9. Auto Play
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   3. Saved
   4. All

4. Media

1. Games
2. Small Pictures
3. Large Pictures
4. My Pictures
5. Sounds
6. My Melodies
7. Animations
8. My Animations
9. Melody Composer

5. 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. EZ Tip Calc
7. Calculator
8. World Clock
9. Unit Converter

6. Settings

1. Sounds
   1. Ringers
   2. Key Tone
   3. Volume
   4. Message Alerts
   5. Service Alerts
   6. Power On/Off Tone
   7. DTMF Length
2. Display
   1. Banner
   2. Backlight
   3. Screens
   4. Menu Style
   5. Clocks
   6. Theme Colors
   7. Contrast
   8. Fonts
   9. Language
   0. Power Saver
3. System
   1. Select System
   2. Set NAM
   3. Auto NAM
   4. Serving System
4. Security
   1. Lock Phone
   2. Restrictions
   3. Emergency #s
   4. Edit Codes
   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. Auto Volume
   7. TTY Mode
6. Standalone Mode
7. Voice Services
   1. Voice Dial Prompt
   2. Train Words
8. Location
9. Phone Info
   1. My Phone Number
   2. S/W Version
   3. Icon Glossary
   4. Shortcut Help

Some contents in this user guide may differ from your phone depending on the phone software or your service provider. Features and specifications are subject to change without prior notice.

The Battery

The phone comes with a rechargeable battery. Keep it charged even while you're not using it so it's ready when you need it.

NOTE It's important to fully charge the battery before using the phone for the first time.

NOTE Battery life and signal strength are significant factors (among others) that affect your phone's ability to send/receive calls.

Installing 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. Align the battery cover over the battery then slide it slightly upward until it clicks into place.

Removing the Battery

Turn the phone off. Slide the battery cover downward and remove it. Use the half-moon opening near the top of the battery to lift the battery out.

Charging the Battery

To use the charger provided with your phone:

1. Plug one end of the AC adapter into the phone's charger port and the other into an electrical outlet.
2. Charge time varies depending upon the battery level.

NOTICE

Please use only an approved charging accessory to charge your LG phone.

Improper handling of the charging port, as well as the use of an incompatible charger, may cause damage to your phone and void the warranty.
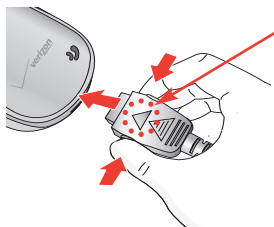
NOTICE
Triangle symbol should face up.
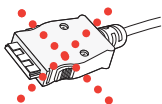
Chargers which have two grooves on the bottom are NOT compatible with this phone model. Inserting this type of charger into the phone may damage the charging port. This charger is compatible with the VX1000, VX3200, VX3300, VX4650, VX4700, VX5200, VX6100, VX7000, VX8000, VX8100 and VX9800.
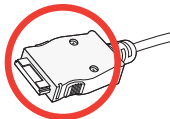
The correct charger has only one groove on the bottom. This charger will work with **all of the above listed phones**, as well as the VX3400, VX3450, VX5300 and VX8300.

Battery Charge Level

You can find the battery charge level at the top right of the LCD screen. When the charge level becomes low, the battery sensor sounds a warning tone, blinks the battery icon, and displays Please charge low battery now. As the charge level approaches empty, the phone automatically switches off and anything you're doing is not saved.

Fully Charged				Empty

Signal Strength

Call quality depends on the signal strength in your area. You can tell how much signal strength you have by the number of bars next to the signal strength icon: the more bars, the stronger the signal. If you're having problems with signal quality, move to an open area or, when inside a building, try moving near a window.

Turning the Phone On and Off

Turning the Phone On

1. Install a charged battery or connect the phone to an external power source such as a cigarette lighter charger or hands-free car kit.

2. Press 🔘 until the LCD screen lights up.

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

Turning the Phone Off

1. Press and hold 🔘 until the display turns off.

Screen Icons

When the phone is on, the top line of the LCD screen displays phone status icons. To see the icon glossary, go to **Menu** -> **Settings**-> **Phone Info** -> **Icon Glossary** on your phone.

Icon	Description	Icon	Description
$\mathbf{T}_{ull}$	Signal strength indicator. The strength of the signal received by the phone is indicated by the number of bars displayed.		
(IIII)	Battery strength indicator. Indicates battery charge level.		
📞	In call state indicator. A call is in progress. * No icon indicates the phone is in standby.		
📵	No service indicator. The phone is not receiving a system signal.		
✉	New text msgs		
📧	New text & voice		
📨	New voice mails	🔊	Speaker On
🔕	Silence all	🔇	Manner Mode
△	Roaming	☎	TTY
1x	IS-2000	⏰	Alarm
D	Digital	A	Analog
P	Voice privacy	OFF	Standalone Mode
📡	Location on	❀	E911 only

Making Calls

1. Make sure the phone is turned on. If not, press for about three seconds. If necessary, enter the lock code.

2. Enter the phone number.

3. Press .

4. Press to end the call.

Correcting Dialing Mistakes

Press once to erase the last digit entered, or hold it down for at least two seconds to delete all the digits.

Redialing Calls

1. Press twice to redial the last call.

NOTE The first time you press your phone lists a history of the last 30 phone calls. You can select any of these to redial.

Receiving Calls

1. To answer a call, open the flip or press $\searchbackslash$.

NOTE If you press Left Soft Key $\diagup$ [**Quiet**] while the phone is ringing, the ringing or vibration is muted for that call.

NOTE If you press Right Soft Key $\diagdown$ [**Ignore**] while the phone is ringing, the call will end.

2. Press $\diagup$ to end the call.

Manner Mode

Sets the phone to vibrate instead of ring (is displayed). To set Manner Mode press and hold $\boxed{* \frac{\pi}{\sin}}$. To return to Normal Mode, press and hold $\boxed{* \frac{\pi}{\sin}}$.

Lock Mode

Sets your phone to require your 4-digit password in order to use the phone.

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

To quickly lock your phone press $\boxed{\#_{\text{space}}^{\,\theta}}$ for three seconds. To unlock, press Right Soft Key $\diagdown$ **[Unlock]** and enter the password.

Mute Function

The Mute Function prevents the transmittal of your voice to the caller. To quickly activate Mute press Left Soft Key [Mute], then to unmute press Left Soft Key [Unmute].

Volume Quick Adjustment

Quickly adjust ringer and earpiece volumes by pressing the upper side key to increase and lower side key to decrease.

NOTE The earpiece volume can only be adjusted during a call and Key Beep volume can only be adjusted through the Menu.

Call Waiting

During a call, one beep indicates another incoming call. Press 🖎 to receive the waiting call then press 🖎 again to switch between calls.

Caller ID

Caller ID displays the number and/or name of the person calling when your phone rings. Check with your service provider to ensure they offer this feature.

Speed Dialing

Speed Dialing allows you to make phone calls quickly and easily with a few key presses. Speed Dial number 1 is set to call your Voicemail.

To dial Speed Dials
For Speed Dials 1 to 9 press and hold the Speed Dial number.

For Speed Dials 10 to 99 press the first digit, then press and hold the key of the last digit.

NOTE Another way to Speed Dial is to enter the speed dial number(s), then press 🖎 .

Text Input

The following key functions are available to help with text entry:

Key Functions

Left Soft Key: Press to change text input mode. (Message Menu only)

Shift: Press to change case (initial cap, caps lock, lowercase).

Next: Press to display other matching words in the database.

Space: Press to complete a word and insert a space.

Clear: Press to delete a single space or character. Hold to delete words.

Punctuation: Press to insert punctuation.

Text Input Modes

In a text field, press Left Soft Key to display text modes.

T9Word Mode

Type text pressing one key per letter. Combinations are translated into common words using the letters on each key and a compressed database.

1. Press Left Soft Key to change 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 .
   Call the office is displayed.

Using the NEXT Key

After entering a word, if the word displayed is not the one you want, press `0 next` to display additional words from the database.

1. Press `4 ghi` `6 mno` `6 mno` `3 def` .
   Good is displayed.

2. Press `0 next` .
   Additional choices are displayed such as: Home, Gone, Hood, etc.

Abc (Multi-tap) Mode

Type text pressing keys multiple times for words not in the phone's database.

1. Press Left Soft Key to change to Abc mode.

2. Press `* shift` to change to ABC Caps Lock.

3. Press `5 jkl` `5 jkl` `5 jkl` `4 ghi` .
   LG is displayed.

123 (Numbers) Mode

Type numbers pressing each key only once.

1. Press Left Soft Key to change to 123 mode.

2. Press `5 jkl` `5 jkl` `5 jkl` `1` `2 abc` `1` `2 abc` .
   5551212 is displayed.

Symbols Mode

Insert special characters into your text. Choose from 36 special characters including "SP" to insert a space and "LF" to force text to the next line.

1. Press Left Soft Key to change to Symbols mode.

2. Press Right Soft Key **[Next]** to view next 12 symbols or Left Soft Key **[Prev]** to view previous 12.

3. Use to highlight the special character you want to insert and press to select it.

4. Press Left Soft Key to change to another text mode.

Changing Letter Case

Set capitalization before typing. Press `* shift` to choose Initial Cap (T9Word / Abc), Caps Lock (T9WORD / ABC), and lowercase (T9word / abc).

Contacts Entries

Store up to 300 entries with up to 5 phone numbers each.

Storing Basics

1. Enter a number (max. 48 digits), then press Left Soft Key **[Save]**.

2. Use to select a Label and press .
Home/ Home2/ Office/ Office2/ Mobile/ Mobile2/ Pager/ Fax/ Fax2/ None

3. Use to select where to save, then press .
New Name/ Existing

4. Enter a name (max. 22 characters), then press .

5. Press **[Done]** to exit.

Customizing Individual Entries

1. Press Right Soft Key **[Contacts]**.

2. Use to select an entry, then press .

3. Press Left Soft Key **[Edit]**.

4. Use to select the information to customize.

5. Change the entry as you want, then press to save your changes.

Email

Allows you to enter an email address to the Contact entry.

Group

Allows you to organize your Contacts into groups.

Call Ringtone

Sets the phone to play a specific ringtone when the Contact calls your phone.

Message Alert

Sets the phone to play a specific ringtone when a message arrives.

Memo

Allows you to enter a memo for the contact (e.g., birthday, address, etc.) up to 64 characters.

Picture ID

Sets a picture to display to identify the caller when they call your phone. Only pre-loaded images in the phone or EMS images downloaded from www.vtext.com can be set as a caller ID.

Speed Dial

Allows you to set up your Speed Dials.

NOTE One-Touch Dial must be activated to use the Speed Dials that you set up. Access Menu-> 6^{mno} -> 5^{jkl} -> 4^{ghi} -> Enable.

1. Press Right Soft Key ↘ **[Contacts]**.

2. Use ◠ to select an entry, then press ◉.

3. Press Left Soft Key ◜ **[Edit]**.

4. Press Right Soft Key ↘**[Options]**.

NOTE If you've saved more than one number in the Contact entry, you have to use ◉ to highlight the phone number first.

5. Use ◠ to select **Set Speed Dial**, then press ◉.

6. Enter a Speed Dial digit.

- Use the keypad, then press ◉.

- Use ◠ to select the Speed Dial digit, then press ◉.

Storing a Number with Pause

Pauses allow you to enter an additional series of numbers to access automated systems such as Voicemail or credit billing numbers. Pause types are: **Wait** (W) The phone stops dialing until you press Left Soft Key [Release] to send the next string of digits. **2-sec Pause** (P) The phone waits 2 seconds before sending the next string of digits.

1. Enter the number, then press Right Soft Key ↘ **[Options]**.

2. Use ⬍ to select **Wait/ 2-sec Pause**, then press ⓞⓚ.

3. Enter additional number(s) (e.g., pin number, credit card number, etc.).

4. Press Left Soft Key ⟋ **[Save]** and continue saving the Contact entry as needed.

Adding Another Phone Number

From Standby Mode

1. Enter a phone number, then press Left Soft Key ⟋ **[Save]**.

2. Use ⬍ to select **Home/ Home2/ Office/ Office2/ Mobile/ Mobile2/ Pager/ Fax/ Fax2/ None**, then press ⓞⓚ.

3. Use ⬍ to select **Existing**, then press ⓞⓚ.

4. Use ⬍ to select an existing entry, then press ⓞⓚ.

5. Press Left Soft Key ⟋ **[Done]** to save.

From the Contact List Screen

1. Press Right Soft Key ⟍ **[Contacts]**.

2. Select an entry, then press ⓞⓚ.

3. Press Left Soft Key ⟋ **[Edit]**.

4. Use ⬍ to select **[Add Number]**, then press ⓞⓚ.

5. Enter the phone number and press ⓞⓚ, then continue saving the entry as needed.

Adding a Pause to a Contact Entry

1. Press Right Soft Key ⟍ **[Contacts]**.

2. Use ⬍ to select a Contact entry and press ⓞⓚ, then press Left Soft Key ⟋ **[Edit]**.

3. Use ⬍ to select the number and press ⓞⓚ, then press Right Soft Key ⟍ **[Pause]**.

4. Press ⌈1⌋ **Wait** or ⌈2abc⌋ **2-sec Pause**.

5. Enter additional number(s), then press ⓞⓚ.

6. Continue saving the Contact entry as needed.

Changing Saved Information

To change any information you stored, access the Edit Entry screen:

1. Press Right Soft Key [Contacts].
2. Use to select an entry and press , then press Left Soft Key [Edit].
3. Use to select the information you want to change, then press .
4. Make the changes, then press .

Changing the Default Number

The Default Number is the phone number you entered when you created the Contact. Another number can be saved as the Default Number.

NOTE The Set as Default option only appears if the Contact has at least two phone numbers and you select any phone number other than the first one.

1. Press Right Soft Key [Contacts].
2. Use to highlight the Contact entry you want to edit, then press .
3. Press Left Soft Key [Edit].
4. Use to highlight the phone number you want to set as the Default Number and press Right Soft Key [Options].
5. Press 3def Set as Default #.
   A confirmation message is displayed.

Deleting

Deleting a Phone Number

1. Select an entry to edit.
2. Use to select a phone number.
3. Press Right Soft Key [Options].
4. Select 2abc Erase Number.
   A Confirmation message pops up.
5. Press 1 Erase.

NOTE You can delete a phone number only when there are multiple entries under a contact name.

NOTE If you try to delete the default number, an error message will pop up.

Deleting a Contact Entry

1. Select the entry from your Contacts.

2. Press Right Soft Key **[Options]**, then press **Erase**.

3. A confirmation message is displayed. Press **Erase** or **Cancel** and keep the Contact entry.

Deleting a Speed Dial

1. Select the entry from your Contacts, then press Left Soft Key **[Edit]**.

2. Press Right Soft Key **[Options]**.

3. Press **Remove Speed Dial**.

4. Press **Remove**.

Searching Your Phone's Memory

You can search for information you stored in your VX3450 phone. Scroll through your contents from A to Z, or jump directly to a specific letter of the alphabet.

Scrolling Through Your Contacts

1. Press Right Soft Key **[Contacts]**. Contacts list is displayed alphabetically.

2. Use to scroll through the list.

Searching by Letter

1. Press Right Soft Key **[Contacts]**. Contacts list is displayed alphabetically.

2. Press (or press repeatedly) the key on the keypad that corresponds with the search letter.

Calling From Your Phone's Memory

Place calls quickly and easily to numbers stored in your phone.

From Contacts

1. Press Right Soft Key 🖍 **[Contacts]**.

2. Use 🔘 to highlight the Contact entry.

3. Press 🔘 to place the call.

NOTE When you press 🔘 the Default Number is dialed. If multiple numbers are saved in the entry, press 🔘 to view the Contact entry contents, highlight the one you want to call and press 🔘.

From Recent Calls

1. Press Left Soft Key 🖍 **[Menu]**.

2. Press `2abc` **Recent Calls**.

3. Use 🔘 to select the type of recent call and press 🔘.

   Dialed Calls/ Received Calls/ Missed Calls

4. Use 🔘 to highlight the one you want to call, then press 🔘 to dial it.

Speed Dialing

Allows you to make phone calls quickly and easily to numbers stored in Contacts. You need to set Speed Dials in your Contacts and enable One-Touch Dial before using this feature.

NOTE Speed Dial 1 is for Voicemail.

Speed Dials From 1 to 9

Press and hold the Speed Dial digit. Your phone recalls the phone number from your Contacts, displays it briefly, and then dials it.

Speed Dials From 10 to 99

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

NOTE You can also enter the Speed Dial digit(s), then press 🔘.

Speed Dials 97, 98, and 99

Speed Dials 97, 98, and 99 are preset to access certain phone account information: 97 (#BAL), 98 (#MIN), and 99 (#PMT). Unlike Speed Dial 1, these can be changed if you want.

Menu Access

Press Left Soft Key [Menu] to have access the six phone menus. There are two ways to access menus and submenus:

- Use the navigation key to select, or
- Press the number key that corresponds to the menu or submenu.

For example:

1. Press Left Soft Key [Menu].

   Use to select the number of menus.

2. Press the key of the menu item you want to select.

   The sub-menu list is displayed.

3. Press the key of the sub-menu you want to access.

4. Use to highlight a setting and press to select it.

NOTE Press to go back one step and cancel without saving.

Contacts

The Contacts Menu allows you to store names, phone numbers and other information in your phone's memory. When you list your Contacts, the number in parenthesis represents the number of entries you have stored (up to 300).

Access and Options

1. Press Left Soft Key [Menu].

2. Press **Contacts**.

3. Select a sub-menu.

   1. List Contacts
   2. New Number
   3. New E-mail
   4. Groups
   5. Speed Dials
   6. Voice Dials
   7. My VCard
   8. In Case of Emergency

1. List Contacts

Allows you to view your Contacts list.

1. Press 〰 , 1 , 1 .

2. Options from here:

- Press 🔘 to scroll through your Contacts alphabetically.

- Press Right Soft Key 〰 **[Options]** to select one of the following:
  Send Message/ Find Name/ Find Number/ Find Speed Dial/ Find Group/ Find E-mail/ Erase/ Set as Emergency

- Press Left Soft Key 〰 **[New]** to store a **New Number** or **New E-mail**.

2. New Number

Allows you to add a new number as a new Contact entry.

NOTE To save the number into an existing Contact, edit the Contact entry instead.

1. Press 〰 , 1 , 2^{abc} .

2. Enter the number and press 🆗 .

3. Select the Label you want and press 🆗 .

4. Enter the name and press 🆗 .

5. Continue saving the entry as necessary.

3. New E-mail

Allows you to save a new e-mail address as a new Contact entry.

NOTE To save the e-mail into an existing Contact, edit the Contact entry instead.

1. Press 〰 , 1 , 3^{def} .

2. Enter the e-mail address and press 🆗 .

3. Enter the name and press 🆗 .

4. Continue saving the entry as necessary.

4. Groups

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

1. Press $\mathcal{F}$, $\boxed{1^{\circ}_{\Delta}}$, $\boxed{4^{ghi}}$.

2. Options from here:

- Use $\hat{\circ}$ to highlight a group to view and press $\circledcirc$.

- Press Left Soft Key $\mathcal{F}$ **[Add]** to add a new group to the list.

- Use $\hat{\circ}$ to highlight a group and press Right Soft Key $\overline{}$**[Options]** to change the name of the group or delete the group.

  Edit Group/ Erase Group

5. Speed Dials

Allows you to view your list of Speed Dials or designate Speed Dial for numbers entered in your Contacts.

1. Press $\mathcal{F}$, $\boxed{1^{\circ}_{\Delta}}$, $\boxed{5^{jkl}}$.

NOTE Press Right Soft Key $\overline{}$ **[Options]** to skip to the next available **Next Empty**, **Remove**, or **Remove All** Speed Dials.

2. Use $\hat{\circ}$ to highlight the Speed Dial position, or enter the Speed Dial digit and press $\circledcirc$.

3. Use $\hat{\circ}$ to highlight the Contact and press $\circledcirc$.

4. Use $\hat{\circ}$ to highlight the number and press $\circledcirc$.

6. Voice Dials

Allows you to add, view, or delete Voice Dial commands.

1. Press $\mathcal{F}$, $\boxed{1^{\circ}_{\Delta}}$, $\boxed{6^{mno}}$.

2. Press Left Soft Key $\mathcal{F}$ **[New]**.

3. Options from here:

- Highlight the Contact Entry that you wish to Voice Dial, press $\circledcirc$ and then press $\circledcirc$. Follow the phone's prompts.

- Use 🔾 to highlight a Voice Dial and press Right Soft Key 🖉 **[Options]** to choose one of the following:
Play/ Re-record/ Erase/ Erase All

NOTE Recordings should be made in a normal use position (speaker by your ear and microphone near your mouth) while using a clear voice. Hands-free car kits or headsets should be used if the phone is primarily used with them.

7. My VCard

Allows you to enter your own virtual business card to be used in text messages.

1. Press 🖉, 1️⃣, 7️⃣.

2. Use 🔾 to select the feature you want to edit and press 🆗.

3. Edit the information as necessary.

8. In Case of Emergency

This menu allows you to store names, phone numbers and other information, which will be very helpful in case of emergency. Also, it allows you to read, add, edit, or erase the notes yourself as necessary in case an emergency takes place.

1. To program a new emergency number, press 🖉, 1️⃣, 8️⃣.

2. Use 🔾 to highlight the Contact and press Left Soft Key 🖉 **[Add]**. You may choose a contact by pressing 1, or enter a number by pressing 2 From Contacts: Use 🔾 to highlight a contact and press 🆗. You will get a message "Emergecny Contact Assigned"
Enter Number: Enter number of emergency contact, and press 🆗. Then enter name of Contact, and press 🆗. New Emergency contact is now assigned.

Emergency Contact Info

1. To view Emergency Contact Information, press Left Soft Key 🖉, 1️⃣, 8️⃣. Select Contact with the 🔾 and press 🆗.

Recent Calls

The Recent Calls Menu is a list of the last phone numbers or Contact entries for calls you made, answered, or missed. It's continually updated with new numbers added to the beginning of the list and the oldest entries removed from the bottom of the list.

NOTE To view a quick list of all your recent calls, press 🖎 from standby mode.

- 🔁 indicates a dialed call.
- 🔁 indicates a received call.
- 🔁 indicates a missed call.

Access and Options

1. Press Left Soft Key ⟋ **[Menu]**.
2. Press [2 abc] **Recent Calls**.
3. Select a sub-menu.

   1. Dialed Calls
   2. Received Calls
   3. Missed Calls
   4. Blocked Calls
   5. Erase Calls
   6. Call Timer

Recent Calls
1 Dialed Calls
2 Received Calls
3 Missed Calls
4 Blocked Calls
5 Erase Calls
6 Call Timer

1. Dialed Calls

List of outgoing calls, up to 30.

1. Press ⟋ , [2 abc] , [1].
2. Use ⌢ to highlight an entry, then
- Press ⊙ to view the entry.
- Press 🖎 to call the number.
- Press Right Soft Key ⟍ **[Options]** to select:

Save(Contact Info)/ Send Msg/ Prepend/ Erase/ Erase All

2. Received Calls

List of incoming calls; up to 30.

1. Press ⌒, 2^{abc}, 2^{abc}.
2. Use ⌒ to highlight an entry, then
- Press ⊙ to view the entry.
- Press ✎ to call the number.
- Press Right Soft Key ⟍**[Options]** to select: **Save(Contact Info)/ Send Msg/ Prepend/ Erase/ Erase All**

3. Missed Calls

List of missed calls; up to 30.

1. Press ⌒, 2^{abc}, 3^{def}.
2. Use ⌒ to highlight an entry, then
- Press ⊙ to view the entry.

- Press ✎ to call the number.
- Press Right Soft Key ⟍**[Options]** to select: **Save(Contact Info)/ Send Msg/ Prepend/ Erase/ Erase All**

4. Blocked Calls*

Displays the list of Blocked Calls; up to 30.

1. Press ⌒, 2^{abc}, 4^{ghi}.
2. Enter the four-digit of your lock code. The lock code is commonly the last 4 digits of your phone number.
3. Use ⌒ to highlight an entry, then
- Press ⊙ to view the entry.
- Press ✎ to call the number.
- Press Right Soft Key ⟍**[Options]** to select: **Save(Contact Info)/ Send Msg/ Prepend/ Erase/ Erase All**

* Available only when all incoming calls or incoming calls from your Contacts are restricted in Menu-> Settings-> Security-> Restrictions-> Calls-> Incoming Calls. For info on how to block calls, see page 53.

5. Erase Calls

Allows you to erase selected call list(s).

NOTE If Call Block is not activated, Erase Calls appears as $\boxed{4^{ghi}}$, and Call Timer appears as $\boxed{5^{jkl}}$.

1. Press $\nearrow$, $\boxed{2^{abc}}$, $\boxed{5^{jkl}}$.
2. Use $\hat{\updownarrow}$ to highlight the list of calls to erase and press $\boxed{OK}$.
   Dialed Calls/ Received Calls/ Missed Calls/ All Calls
3. Press $\boxed{1^{\underline{a}}}$ **Erase** or $\boxed{2^{abc}}$ **Cancel**

6. Call Timer

Allows you to view the duration of selected calls.

1. Press $\nearrow$, $\boxed{2^{abc}}$, $\boxed{6^{mno}}$.
2. Use $\hat{\updownarrow}$ to highlight a call list and press $\boxed{OK}$.
   Last Call/ Home Calls/ Roam Calls/ All Calls

Messages

Text messages, pages, and the voice mail box become available as soon as you turn the phone on.

- Check types of messages by pressing the message key $\bigcirc$.
- Make a call to the callback number by pressing $\textcircled{s}$ during a message check.
- Read and edit messages saved in the outbox during transmission and send them.

Access and Options

1. Press Left Soft Key $\nearrow$ **[Menu]**.
2. Press $\boxed{3^{def}}$ **Messages**.
3. Select a sub-menu.
   1. **Voice Mail**
   2. **New Message**
   3. **Inbox**
   4. **Outbox**
   5. **Saved**
   6. **Msg Settings**
   7. **Erase All**

The phone can store up to 115 messages (for example, 50 inbox text messages, 50 outbox text messages, 15 saved text messages). The VX3450 supports up to 160 characters per message including header information. The information stored in the message is determined by phone mode and service capability. Other limits to available characters per message may exist. Please check with your service provider for system features and capabilities.

New Message Alert

Your phone alerts you when it receives a new message. You'll see New Message displayed in the middle of the screen and the message icon ( ) on the top line. You could also hear a message alert, if you set one. An urgent message may be displayed if the sender sent it as an urgent message.

1. Voice Mail

Allows you to view new voice messages recorded in the voice mail box. Your phone will alert you when a new voice message is received.

Checking Your Voice Mail Box

1. Press , 3def , 1 .
2. Options from here:
● Press to listen to the message(s).
● Press Left Soft Key **[Clear]** to delete information, and then select **Clear Count**.

2. New Message

Allows you to send text messages, EMS messages, pages and e-mail transmissions. Each message has a destination (Address 1) and information (Message). These are dependent upon the type of message you want to send.

Text Message Basics

1. Press , 3def , 2abc .
2. Press to enter the destination address.
3. Enter the phone number where you want to send the message/page or the e-mail address for an e-mail message, then press .

NOTE To send a page, press Left Soft Key **[Send]**.

4. Press 🔘 to open the message screen.

5. Type your message (text or e-mail) then press 🔘.

6. Press Left Soft Key ✐ **[Send]**.
A confirmation message is displayed.

Customizing the Text Message using options

1. Create a new message.

2. Press Right Soft Key ➘**[Options]**.

3. Select the option(s) to customize.

Send   Sends the message.

Priority   **Normal/ High**

Callback #   Inserts a pre-programmed callback number with your message.
              On/ Off/ Edit

Delivery Notice Informs you that the message has been successfully delivered.
              Enhanced/ On

Save Message Saves the message to the phone's Saved messages.

Erase Field   Erases the contents if any.

4. Complete and send the message.

Using Contacts to send a Text Message

You can designate an entry saved in your Contacts as Address 1 instead of manually entering it.

1. Press ✐ , 3ᵈᵉᶠ , 2ᵃᵇᶜ .

2. Press Left Soft Key ✐ **[Contacts]**.

3. Select **Contacts/ Recent Calls/ Recent Addresses** then press 🔘.

4. Use ⌄ to highlight the Contact entry that has the destination and press 🔘.

5. Use ⌄ to highlight the SMS phone number or e-mail address and press 🔘.

NOTE You can enter up to 10 addresses for each message.

6. Complete the message as necessary.

Text Options

Allows you stylize your text message, insert Quick Text, and include Objects in your messages for that personalized touch.

1. Use ⊙ to highlight **Message** then press ⓞⓚ.

2. Select text input mode by pressing Left Soft Key ⎘.

   T9Word/ Abc/ 123/ Symbols/ Smiley

3. Enter your message and use Right Soft Key ⎙ if necessary to add various effects to the text.

4. Press Right Soft Key ⎙ **[Options]**.

5. Select the option(s) to customize.

Insert Quick-Text Inserts predefined phrases.
What's up?/ Let's meet./ Check this out!/ Whacha doing?/ Thanks/ What do you think?/ You've gotta be here to enjoy this./ Would you like to join me for a date tonight?/ On my way./ Yes/ You're the best!/ Call me.

Insert Object Inserts objects into the message.
Small Pictures/ Large Pictures/ My Pictures/ Sounds/ My Melodies/ Animations/ My Animations

Format Text Allows you to change the look of the text.
Alignment/ Font Size/ Font Style/ Text Color/ Background

Save Quick-Text Allows you to define phrases to Insert as Quick Text.

Insert Signature Inserts a predefined signature.
Custom/ My VCard

6. Complete and send or save the message.

3. Inbox

The phone alerts you in 2 ways when you receive a new message:

● By displaying a message notification.

● By sounding an alert (a beep or other sound you set) or vibrating.

Received text messages, pages, and e-mails are listed from newest to oldest. You can scroll through them, then select any of them to view message contents.

NOTE If you receive the same message twice, you'll only see the most recent one and "Duplicate" appears at the top of the message.

Out of Memory Warning

If the message [Inbox] is 100% full. Unable to rxv. Please erase message. appears on your display, you've filled up your allotted message memory and your phone won't accept any new messages. You'll have to delete some of your old messages to free up some memory space.

Viewing Your Inbox

Your Inbox can store up to 50 received messages.

1. Press , 3def , 3def .
2. Use to highlight a message.
- Left Soft Key **[Reply]**.
- Right Soft Key **[Options]**.

Erase   Deletes the selected message from the Inbox.

Lock/Unlock   Locks or unlocks the message to prevent or allow deletion.

3. Press to select the message.
4. Press Right Soft Key **[Options]**.

Reply w Copy   Replies to the SMS with the original message attached.

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

Erase   Deletes the selected message.

Save Address   Stores the callback number, e-mail address, and numbers in user data included in the received message into your Contacts.

Save Object   Saves animations and sounds to be used as wallpaper or ring tone.

Save Quick-Text Saves the message into the Quick-Text list.

Save Message   Saves the message to the phone's Saved messages.

Lock/Unlock   Locks or unlocks the message to prevent or allow deletion.

4. Outbox

Your Outbox can store up to 50 sent messages. View lists and contents of sent messages and verify whether the transmission was successful or not.

1. Press ✎ , 3def , 4ghi .
2. Use ⬍ to highlight a message.
- Press Left Soft Key ✎ **[Resend]**.
- Press Right Soft Key ⬊ **[Options]**.

Erase   Deletes the selected message.

Lock/Unlock Locks or unlocks the message to prevent or allow deletion.

3. Press OK to select the message.
4. Press Right Soft Key ⬊ **[Options]**.

Send to   Allows you to send the message to another address.

Erase   Deletes the selected message.

Save Address Stores the callback number, e-mail address, and numbers in user data included in the received message into your Contacts.

Save Quick-Text Saves the message into the Quick-Text list.

Save Message Saves the message into the Saved Folder.

Lock/Unlock Locks or unlocks the message to prevent or allow deletion.

Message Info Shows the message type, priority and status.

5. Saved

Displays saved messages and draft messages.

1. Press ✎ , 3def , 5jkl .
2. Use ⬍ to highlight a message.
- Press Left Soft Key ✎ **[Resume]**.
- Press Right Soft Key ⬊ **[Options]**.

Erase   Deletes the selected message.

Lock/Unlock Locks or unlocks the message to prevent or allow deletion.

6. Msg Settings

Allows you to configure nine settings for received messages.

1. Press $\mathcal{C}$, $\boxed{3^{def}}$, $\boxed{6^{mno}}$.

2. Use $\textcircled{\updownarrow}$ to highlight a setting and press $\textcircled{ok}$ to select it.

Auto Save	**Auto Save/ Prompt/ Do Not Save**
Auto Delete	**On/ Off**
Callback #	
Voice Mailbox #	
Signature	**None/ Custom/ My VCard**
Auto View	**On/ Off**
Entry Mode	**T9Word/ Abc/ 123**
Quick-Text	**What's up?/ Let's meet./ Check this out!/ Whacha doing?/ Thanks/ What do you think?/ You've gotta be here to enjoy this./ Would you like to join me for a date tonight?/ On my way./ Yes/ You're the best!/ Call me.**
Auto Play	**On/ Off**

Message Settings Sub-Menu Descriptions

6.1 Auto Save

Designates whether or not to save a copy of sent messages when transmitted.

6.2 Auto Delete

Designates whether or not to automatically delete read, unlocked messages when the phone's memory becomes full.

6.3 Callback

Allows you to manually enter the callback number.

6.4 Voice Mailbox

Allows you to manually enter the access number for Voice Mail Service if the VMS access number isn't provided from the network.

6.5 Signature

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

6.6 Auto View

Sets the phone to automatically display the contents of received messages instead of having to open the message first.

6.7 Entry Mode

Allows you to select the default text input method.

6.8 Quick-Text

Allows you to change the pre-programmed quick text phrases and even add your own to make sending messages quick and easy.

6.9 Auto Play

Sets the message to scroll automatically as you read it.

7. Erase All

Allows you to erase every unlocked message all at once or individually erase Inbox, Outbox, and Saved messages.

1. Press `⟋`, `3def`, `7pqrs`.

- Press `1` **Inbox** to erase all Inbox messages except locked, unread messages.

- Press `2abc` **Outbox** to erase all Outbox messages.

- Press `3def` **Saved** to erase all Saved messages.

- Press `4ghi` **All** to erase all messages stored in the Inbox, Sent, and Drafts messages except locked, unread messages.

2. Press `1` **Yes**.
   Confirmation message is displayed.

Media

The Media Menu allows you to download and use a wide variety of graphics, sounds, and more.

Access and Options

1. Press Left Soft Key / [**Menu**].

2. Press 4ghi **Media**.

3. Select a sub-menu.

1. Games

2. Small Pictures

3. Large Pictures

4. My Pictures

5. Sounds

6. My Melodies

7. Animations

8. My Animations

9. Melody Composer

1. Games

Displays preloaded game applications.

1. Press / , 4ghi , 1 .

2. Use to select **Board Mania/ Fun Bowling** and press .

3. Press any key to start the selected game.

2. Small Pictures

Allows you to view all of the available small pictures that you can insert into text messages.

1. Press / , 4ghi , 2abc .

3. Large Pictures

Allows you to choose an image to display as the background for certain phone features.

1. Press / , 4ghi , 3def .

2. Use to highlight your selection then press / [**Set As**].

   Set As Contacts/ Set As Wallpaper/ Set As Power On/ Set As Power Off

4. My Pictures

Allows you to use your own pictures to display as the background for certain phone features, as well as manage your pictures.

1. Press 📷 , 4 ᵍʰⁱ , 4 ᵍʰⁱ .

2. Use 🔘 to highlight your selection then press 📷 **[Set As]**.

   Set As Contacts/ Set As Wallpaper/ Set As Power On/ Set As Power Off

3. Press Right Soft Key 🔲 **[Options]**.

   Erase/ Rename/ Erase All

5. Sounds

Allows you to choose the ring tones heard.

1. Press 📷 , 4 ᵍʰⁱ , 5 ʲᵏˡ .

2. Use 🔘 to highlight your selection then press 📷 **[Set As]**.

   Set As Contacts/ Set As Caller ID/ Set As No Caller ID/ Set As Restrict

6. My Melodies

Allows you to choose the ring tones heard.

1. Press 📷 , 4 ᵍʰⁱ , 6 ᵐⁿᵒ .

2. Use 🔘 to highlight your selection then press 📷 **[Set As]**.

   Set As Contacts/ Set As Caller ID/ Set As No Caller ID/ Set As Restrict

3. Press Right Soft Key 🔲 **[Options]**.
   Erase/ Rename/ Erase All

7. Animations

Allows you to view the available animations that you can use in email and text messages to demonstrate feelings.

1. Press 📷 , 4 ᵍʰⁱ , 7 ᵖᑫʳˢ .

8. My Animations

Allows you to manage your own animations.

1. Press $\diagup$, $\boxed{4^{ghi}}$, $\boxed{8^{tuv}}$.

2. Use $\bigodot$ to highlight your selection then press $\boxed{OK}$.

3. Press Right Soft Key $\diagdown$ **[Options]**.
    Erase/ Rename/ Erase All

9. Melody Composer

1. Press $\diagup$, $\boxed{4^{ghi}}$, $\boxed{9^{wxyz}}$.

9.1 Compose Melody

Allows you to compose melodies in either Keyboard Mode or Score Mode. Press Right Soft Key $\diagdown$ to control the following options:

Save/ Play/ To Score Mode(To Keyboard Mode)/ Melody Style/ Instrument/ Rhythm/ Tempo/ Insert a note (for Score Mode only)/ **Reset/ Help**

NOTE The Help option provides you with special key functions you can use while you are composing melodies.

9.2 Melody Album

Lists the melodies you created and saved in Compose Melody. Right Soft Key $\diagdown$ **[Options]** allows you to manage your melodies.

NOTE You can set melodies you created and saved in the Melody Album as the ringtone for Contacts, Caller ID, No Caller ID, or Restrict.

9.3 Metronome

Allows you to display an on-screen metronome and set it to Slow, Fast, or Normal.

Tools

Your phone tools include a Schedule, Alarm Clock, Voice Memo, My Shortcut, Notepad, EZ Tip Calc, Calculator, World Clock, and Unit Converter.

Access and Options

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

2. Press 5 **Tools**.

3. Select a sub-menu.

    1. Schedule

    2. Alarm Clock

    3. Voice Memo

    4. My Shortcut

    5. Notepad

    6. EZ Tip Calc

    7. Calculator

    8. World Clock

    9. Unit Converter

1. Schedule

Allows you to conveniently keep and access your agenda(s). Simply store your appointments and your phone will alert you with a reminder of your appointment.

1. Press , 5 , 1 .

2. Use to highlight the scheduled day.

     Moves cursor to the left.

     Moves cursor to the right.

     Moves to the previous week.

     Moves to the next week.

3. Press Left Soft Key [**Add**].

4. Enter your schedule information including:
   - Date
   - Time
   - Title/Content
   - Recurring event
   - When to ring the alarm reminder
   - Which ring alarm to sound

5. Press Left Soft Key [**Save**].

NOTE Scheduler will not alert you during a call or during SMS transmitting. It will sound the reminder after you exit a call.

2. Alarm Clock

Allows you to set one of four alarms. The current time is displayed at the top of the screen when you select an alarm to set. At the alarm time, **Alarm 1** (or 2 or 3, as applicable) will be displayed on the LCD screen and the alarm will sound.

1. Press $\diagup$, $\boxed{5^{jkl}}$, $\boxed{2^{abc}}$.

2. Select the alarm you want to set.

   $\boxed{1^{\circ}_{\ast}}$ **Alarm 1**/ $\boxed{2^{abc}}$ **Alarm 2**/ $\boxed{3^{def}}$ **Alarm 3**/
   $\boxed{4^{ghi}}$ **Quick Alarm**

3. Enter Alarm information including:
   - On/Off
   - Time to sound alarm
   - When to sound alarm
   - Ringtone to sound for alarm

4. Press Left Soft Key $\diagup$ **[Save]**.

3. Voice Memo

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

1. Press $\diagup$, $\boxed{5^{jkl}}$, $\boxed{3^{def}}$.

2. Press Left Soft Key $\diagup$ **[New]** to record a new voice memo.

3. After the prompt, say your voice memo, then press Left Soft Key $\diagup$ **[Done]** to end the recording.

4. The Voice Memo title defaults to the date and time of recording.
   - Press $\boxed{OK}$ to view the selected Voice Memo information and be able to listen to the recording.
   - Press Right Soft Key $\diagdown$ **[Options]** for the following:

Edit Title	Edits the title of the Voice Memo.
Memory Info	Shows the memory info used and left.
Set As	Contacts/ Caller ID/ No Caller ID/ Restrict
Erase	Deletes the selected Voice Memo.
Erase All	Deletes all of the Voice Memos.

4. My Shortcut

Allows you to set a shortcut to phone menus using the Right Navigation key.

1. Press $\diagup$, 5^{jkl}, 4^{ghi}.

   An explanation message is displayed.

2. Select the shortcut, then press $\circledcirc$.

5. Notepad

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

1. Press $\diagup$, 5^{jkl}, 5^{jkl}.

2. Press Left Soft Key $\diagup$ **[Add]** to write a new note.

3. Use Right Soft Key $\diagdown$ to change the entry mode.

4. After writing in the note, press $\circledcirc$ to save it.

6. EZ Tip Calc

Allows you to quickly and easily calculate bill amounts using the bill total, tip, and number of people as variables.

1. Press $\diagup$, 5^{jkl}, 6^{mno}.

7. Calculator

Allows you to perform simple mathematical calculations. You can enter numbers up to the fifth decimal place. Calculations can be made with up to 3 lines at one time.

1. Press $\diagup$, 5^{jkl}, 7^{pqrs}.

2. Enter the numbers for the value you want.

   - Press Left Soft Key $\diagup$ **[AC]** to cancel the entry.

   - Press Right Soft Key $\diagdown$**[Operator]** to insert parenthesis or power to your equation.

   - Press $*^{\%}_{shift}$ to insert a decimal.

   - Press $\#^{a}_{space}$ to insert ±.

3. Use the navigation key to enter +, -, x, /, = and complete the equation.

8. World Clock

Allows you to determine the current time in another time zone or country by navigating with the left or right navigation keys.

1. Press ⌕, 5^{jkl}, 8^{tuv}.

NOTE Left Soft Key ⌕ **Set DST**, sets the time to daylight saving time.

9. Unit Converter

Allows you to measure Length, Area, Weight, Volume, Temperature and Speed.

1. Press ⌕, 5^{jkl}, 9^{wxyz}.

Settings

The Settings Menu has options to customize your phone.

Access and Options

1. Press Left Soft Key ⌕ **[Menu]**.

2. Press 6^{mno} **Settings**.

3. Select a sub-menu.

   1. Sounds
   2. Display
   3. System
   4. Security
   5. Call Setup
   6. Standalone Mode
   7. Voice Services
   8. Location
   9. Phone Info

1. Sounds

Options to customize the phone's sounds.

1.1 Ringers

Allows you to assign ring tones for incoming calls.

1. Press ⟋, 6^{mno}, $1^{\circledR}$, $1^{\circledR}$.

2. Select **Caller ID/ No Caller ID/ Restrict**.

3. Use ⌃ to select a ringer then press ⊙ to save the sound.

1.2 Key Tone

Allows you to select the Key Tone heard when you press the keys.

1. Press ⟋, 6^{mno}, $1^{\circledR}$, 2^{abc}.

2. Select **Beep/ English/ Spanish** then press ⊙.

   Beep   A beep sounds.
   English Sends out a voice in English.
   Spanish Sends out a voice in Spanish.

1.3 Volume

Allows you to set various volume settings.

1. Press ⟋, 6^{mno}, $1^{\circledR}$, 3^{def}.

2. Select **Ringer/ Earpiece/ Key Beep/ Speaker Phone**.

3. Adjust the volume with ⌃ then press ⊙ to save the setting.

1.4 Message Alerts

Allows you to select the alert type for a new message.

1. Press ⟋, 6^{mno}, $1^{\circledR}$, 4^{ghi}.

2. Select **Voice Mail/ Text Message/ E-mail/ Page/ 2- Min Reminder**.

3. Choose the setting you want, then press ⊙ to save the setting.

1.5 Service Alerts

Allows you to set any of the seven Alert options to either **On** or Off.

1. Press `⟋`, `6ᵐⁿᵒ`, `1⚏`, `5ʲᵏˡ`.

2. Select an alert option and press `OK`.

3. Set **On/ Off** with `↕` then press `OK`.

1. 5. 1 Service Change

Alerts you when service changes. The phone displays Entering Service Area or Leaving Service Area message.

1. 5. 2. ERI Sounds

Alerts you to the status of cellular service.
* ERI : Enhanced Roaming Indicator.

1. 5. 3. Minute Beep

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

1. 5. 4. Call Connect

Alerts you when the call is connected.

1. 5. 5. Back To Top

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

1. 5. 6. Charge Complete

Alerts you when charging is complete.

1. 5. 7. Accessory Input

Alerts you when an accessory is successfully attached.

1.6 Power On/Off Tone

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

1. Press `⟋`, `6ᵐⁿᵒ`, `1⚏`, `6ᵐⁿᵒ`.

2. Set **On/ Off** with `↕` then press `OK`.

1.7 DTMF Length

Allows you to set the Key Tone length and touch tone playback speed.

1. Press `⟋`, `6ᵐⁿᵒ`, `1⚏`, `7ᵖۛٚۛqrs`.

2. Select either of the following then press `OK`.

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 the Key Beep length to Long will extend the DTMF tone.

2. Display

Options to customize the phone's display screen.

2.1 Banner

Allows you to enter a string of up to 16 characters which display on the LCD screen.

1. Press 📞, 6ᵐⁿᵒ, 2ᵃᵇᶜ, 1☆.

2. Enter your banner text then press OK.

2.2 Backlight

Allows you to set the phone's illumination. You can set how long the screen (Main LCD) is lit as well as how bright and set how long the keys (Key Light Timer) are lit.

1. Press 📞, 6ᵐⁿᵒ, 2ᵃᵇᶜ, 2ᵃᵇᶜ.

2. Choose a sub-menu.

   Main LCD/ Key Light Timer/ Game

3. Choose a setting and press OK.

   1☆ **Timer**/ 2ᵃᵇᶜ **Brightness**

If an amount of time is set for the timer option, the time starts after the last key was pressed.

NOTE This setting will affect your battery. Backlight uses more energy and will drain your battery more quickly.

2. 2. 1. Main LCD

Timer Options
7 seconds/ 15 seconds/ 30 seconds
Always On: Backlight is always on.
Always Off: Backlight is never on.

Brightness Sets the brightness level of the backlight.
0%/ 25%/ 50%/ 75%/ 100%

2. 2. 2. Key Light Timer

7 seconds
15 seconds
Always On: Backlight is always on.
Always Off: Backlight is never on.

2. 2. 3. Game

Always On: Backlight is always on.
Always Off: Backlight is never on.

2.3 Screens

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

1. Press ⬚, 6^{mno}, 2^{abc}, 3^{def}.

2. Select **Wallpaper/ Power On/ Power Off** then press ⬚.

3. Select from different screens then press ⬚.

4. Press Left Soft Key ⬚ **[Save]** or ⬚.

2.4 Menu Style

Allows you to view the Menu as an Icon or List display.

1. Press ⬚, 6^{mno}, 2^{abc}, 4^{ghi}.

2. Select **Icon/ List** and press ⬚.

2.5 Clocks

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

1. Press ⬚, 6^{mno}, 2^{abc}, 5^{jkl}.

2. Select **Normal/ Analog/ Digital** then press Left Soft Key ⬚ **[Save]**.

2.6 Theme Colors

Allows you to choose the color of the background screen.

1. Press ⬚, 6^{mno}, 2^{abc}, 6^{mno}.

2. Select **Theme 1/ Theme 2/ Theme 3/ Theme 4** then press ⬚.

2.7 Contrast

Allows you to set the level of contrast for your LCD screen.

1. Press ⬚, 6^{mno}, 2^{abc}, 7^{pqrs}.

2. Select **Main LCD/ Front LCD**, then press ⬚.

3. Use ⬚ to adjust the level, then press ⬚.

2.8 Fonts

Allows you to set the size and color of the font.

1. Press ⬚, 6^{mno}, 2^{abc}, 8^{tuv}.

2. 8. 1. Calling Digits

1. Select **Size/ Color**, then press ⬚.

2. Use ⬚ to choose a setting, then press ⬚.

2. 8. 2. Text Editor

1. Select **Size/ Color**, then press ⊙.

2. Use ⊙ to choose a setting, then press ⊙.

2. 8. 3. Menu Font

1. Use ⊙ to select **Normal/ Large**, then press ⊙.

2.9 Language

Allows you to set the language your phone displays.

1. Press ⟋ , 6ᵐⁿᵒ , 2ᵃᵇᶜ , 9ʷˣʸᶻ .

2. Use ⊙ to select **English/ Spanish**, then press ⊙.

2.0 Power Saver

When the phone is in an area without service, it stops searching for service and enters Power Saver Mode.

1. Press ⟋ , 6ᵐⁿᵒ , 2ᵃᵇᶜ , 0 .

2. Use ⊙ to select a setting, then press ⊙.
   2 min/ 10 min/ 30 min/ Off

3. System

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

3.1 Select System

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

1. Press ⟋ , 6ᵐⁿᵒ , 3ᵈᵉᶠ , 1 .

2. Select **Home Only/ Automatic** then press ⊙.

3.2 Set NAM

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

1. Press ⟋ , 6ᵐⁿᵒ , 3ᵈᵉᶠ , 2ᵃᵇᶜ .

2. Select **NAM1/ NAM2** then press ⊙.

3.3 Auto NAM

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

1. Press $\nearrow$, 6^{mno}, 3^{def}, 3^{def}.
2. Select **On/ Off** then press $\circledcirc$.

3.4 Serving System

Identifies the channel number of a system that is served as an SID Number. This information should only be used for technical support.

1. Press $\nearrow$, 6^{mno}, 3^{def}, 4^{ghi}.

4. Security

The Security Menu allows you to secure the phone electronically.

4.1 Lock Phone

Keeps your phone from unauthorized use. Once the phone is locked, it's in restricted mode. You can receive calls and make emergency calls, but the lock code needs to be entered to do anything else. You can change the lock code using New Lock Code in the Security Menu.

1. Press $\nearrow$, 6^{mno}, 4^{ghi}.
2. Enter the four-digit lock code. The lock code is commonly the last 4 digits of your phone number.
3. Press $1^{\circledast}$ **Lock Phone**.
4. Select an option then press $\circledcirc$.

Unlock   The phone is never locked (Lock mode can be used).

Lock   The phone is always locked.
             When locked, you can receive incoming calls or make only emergency calls.

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

4.2 Restrictions

Allows you to restrict Location Setting, Calls, Messages from your phone. In each category of options (Location Setting, Calls, Messages) you can set the level of restrictions.

1. Press ⌒, 6^{mno}, 4^{ghi}.
2. Enter the four-digit lock code.

NOTES
- Change the restriction lock code to make it different from the phone lock code.
- Parents should change the restriction lock code prior to giving the device to their child (if they turn call restrictions on).
- Parents should turn on the password protection for the location setting before they give the phone to their child if they are using Chaperone Service℠.

3. Press 2^{abc} **Restrictions**.
4. Enter the four-digit PIN code.
5. Select a Restrictions menu then press ⊙.
   - **Location Setting**
   - **Calls (Incoming/ Outgoing)**
   - **Messages (Incoming/ Outgoing)**
6. Use ⌄ to set a level of restrictions then press ⊙.

Location Setting	Unlock Setting / Lock Setting
Calls	Allow All / Contacts Only / Block All
Messages	Allow All / Block All

4.3 Emergency #s

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

1. Press ⌒, 6^{mno}, 4^{ghi}.
2. Enter the four-digit lock code.
3. Press 3^{def} **Emergency #s**.
4. Select emergency number then press ⊙.
5. Enter an emergency phone number then press ⊙.

4.4 Edit Codes

4. 4. 1. Phone Only
Allows you to enter a new four-digit lock code.

1. Press ⌒, 6^{mno}, 4^{ghi}.
2. Enter the four-digit lock code.

3. Press 4 ghi **Edit Codes**.

4. Press 1 **Phone Only**.

5. Enter the 4 digits you want to use as your Lock Code.

6. Enter the same 4 digits to confirm your new lock code.

4. 4. 2. Calls & Services

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

1. Press /, 6 mno, 4 ghi.

2. Enter the four-digit lock code.

3. Press 4 ghi **Edit Codes**.

4. Press 2 abc **Calls & Services**.

5. Enter the four-digit lock code.

6. Enter the 4 digits you want to use as your Lock Code.

7. Enter the same 4 digits to confirm your new lock code.

4.5 Erase Contacts

Allows you to erase all of your Contacts at once.

1. Press /, 6 mno, 4 ghi.

2. Enter the four-digit lock code.

3. Press 5 jkl **Erase Contacts**.

4. Select **Erase all #s** then press OK.

4.6 Reset Default

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

1. Press /, 6 mno, 4 ghi.

2. Enter the four-digit lock code.

3. Press 6 mno **Reset Default**.

4. Press OK, select **Revert** then press OK.

5. Call Setup

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

5.1 Auto Retry

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

1. Press /, 6 mno, 5 jkl, 1.

2. Select **Off/ Every 10 seconds/ Every 30 seconds/ Every 60 seconds** then press OK.

5.2 Answer Call

Allows you to set how to initiate an answered call.

1. Press 📞 , 6ᵐⁿᵒ , 5ʲᵏˡ , 2ᵃᵇᶜ .

2. Select **Flip open/ Any key/ SEND only** then press 🆗 .

5.3 Auto Answer

Allows you to set the phone to automatically answer calls when connected to a hands-free device.

NOTE Auto Answer is an independent phone feature that must be manually turned on/off when connected or disconnected from a hands-free device.

1. Press 📞 , 6ᵐⁿᵒ , 5ʲᵏˡ , 3ᵈᵉᶠ .

2. Select an option then press 🆗 .

Off

After 5 sec   When you have an incoming call, the phone automatically responds after 5 seconds when the speakerphone is set to on with the flip opened, or when hands-free device or earjack device are in operation.

5.4 One-Touch Dial

Allows you to use the Speed Dial feature (by pressing and holding the speed dial digit). If set to Disable, Speed Dial numbers designated in your Contacts will not function.

1. Press 📞 , 6ᵐⁿᵒ , 5ʲᵏˡ , 4ᵍʰⁱ .

2. Select **Enable/ Disable** then press 🆗 .

5.5 Voice Privacy

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

1. Press 📞 , 6ᵐⁿᵒ , 5ʲᵏˡ , 5ʲᵏˡ .

2. Select **Enhanced/ Standard** then press 🆗 .

5.6 Auto Volume

Provides a better audio experience by enabling the Auto Volume feature to control the dynamic range and volume of the sending and receiving voice across different levels of speaker and environments.

1. Press 📞 , 6ᵐⁿᵒ , 5ʲᵏˡ , 6ᵐⁿᵒ .

2. Select **On/ Off** then press 🆗 .

5.7 TTY Mode

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

1. Press $\diagdown$, 6^{mno} , 5^{jkl} , 7^{pqrs} .

   An explanation message is displayed.

2. Press $\circledcirc$ to continue.

3. Select **TTY Full/ TTY + Talk/ TTY + Hear/ TTY Off** then press $\circledcirc$.

TTY Full   Users who cannot talk and hear send and receive a text message through TTY equipment.

TTY + Talk   Users who can talk but cannot hear receive a text message and send voice through TTY equipment.

TTY + Hear   Users who can hear but cannot talk send a text message and receive voice through TTY equipment.

TTY Off   Normal users send and receive without TTY equipment.

Menu	User	Feature	Transmission/ Receiving Mode	When making communications with a normal terminal
TTY Full	For hearing- /verbally- impaired		text message transmission, text message receiving	operator required
TTY+Talk	For hearing- impaired	verbal	voice transmission, text message receiving	operator required
TTY+Hear	For verbally- impaired	audible	text message transmission, voice receiving	operator required
TTY Off	For regular users		voice transmission, voice receiving	

Connecting TTY Equipment and a Terminal

1. Connect a TTY cable to TTY connection on the terminal.
   (TTY connection location the same as a hands free earjack)

2. Enter the phone menu and set up the desired TTY mode.
   (For a TTY mode, see the chart at left)

3. After setting a TTY mode, check the LCD screen of the phone for the TTY icon.

4. Connect the TTY equipment to the power source and turn it on.

5. Make a phone connection to the desired number.

6. When connection is made, use the TTY equipment to type in and send a text message or send voice.

7. The voice or text message from the receiver end displays on the TTY equipment display.

6. Standalone Mode

Allows you to use certain phone functions and features (but no calls or web access) in areas where radio transmission is restricted. When in Standalone Mode, services supporting Location On functionality (such as Chaperone) will be suspended.

1. Press ⁄ , 6ᵐⁿᵒ , 6ᵐⁿᵒ .

2. Read the message, then press ⊙ to continue.

3. Select **On/ Off** then press ⊙ .

7. Voice Services

Provides access to your phone's voice services.

7.1 Voice Dial Prompt

Allows you to set the prompt to initiate Voice Dialing.

1. Press ⁄ , 6ᵐⁿᵒ , 7ᵖqʳˢ , 1ª .

2. Select **Key press/ Flip open/ Disable** then press ⊙ .

7.2 Train Words

Allows you to train the phone to recognize your voice.

1. Press ⏣, 6^{mno}, 7^{pqrs}, 2^{abc}.

2. Select **Yes/ No** then press ⏣.

3. Select **Train/ Un-train** then press ⏣.

8. Location

Allows you to set the GPS (Global Positioning System: Satellite assisted location information system) mode.

1. Press ⏣, 6^{mno}, 8^{tuv}.

2. Select **Location On/ E911 Only** then press ⏣.

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

NOTE When in Standalone Mode, services supporting Location On functionality (such as Chaperone) will be suspended.

9. Phone Info

Provides you with specific information pertaining to your phone model.

9.1 My Phone Number

Allows you to view your phone number.

1. Press ⏣, 6^{mno}, 9^{wxyz}, $1^{☺}$.

9.2 S/W Version

Allows you to view the software, PRL (Preferred Roaming List), ERI.

1. Press ⏣, 6^{mno}, 9^{wxyz}, 2^{abc}.

9.3 Icon Glossary

Allows you to view phone icons and their meanings.

1. Press ⏣, 6^{mno}, 9^{wxyz}, 3^{def}.

9.4 Shortcut Help

Allows you to view condensed information about using the phone.

1. Press ⏣, 6^{mno}, 9^{wxyz}, 4^{ghi}.

Welcome to Chaperone℠

Chaperone℠ is the Verizon Wireless service that helps parents and guardians keep in touch with their families. The Chaperone℠ service utilizes the Location Based Services (LBS) functionality, which allows a parent to find the general location of their child's wireless phone from a website or from an application downloaded to the adult's wireless phone. Using the ChildZone℠ feature, parents can also opt to receive alerts when their child arrives at or leaves a specified ChildZone℠ such as a school or camp area.

Chaperone℠ Service Overview

To activate your Chaperone℠ service, please visit a Verizon Wireless Communications Store and have a Customer Service Representative activate your Chaperone℠ service and sync your phone with your child's new wireless phone. Then choose whether you want basic Chaperone℠ service or Chaperone℠ service with ChildZone.℠* To ensure that the Chaperone℠ service is only being used for the purpose of keeping in

touch with your family, Verizon Wireless may require verification of identity and/or additional background information. Wireless phones with the Chaperone℠ service can only send or receive location data to companion parent devices or the Chaperone website. To complete your activation, you will be required to visit the Chaperone website, review and agree to the terms and conditions, and verify your privacy settings for your LG VX3450.

*Additional service fee applies.

Chaperone℠ Basic Service

Stay informed of your child's movements from your Verizon Wireless device or PC. You can request the location of your child's wireless phone on a map.

Chaperone℠ Premium with ChildZone℠

For added convenience, you can choose to set up a predetermined ChildZone℠ — a specified area, such as a school or camp area. When your child enters or leaves the zone with his or her wireless phone, ChildZone℠ will automatically alert you with time and location information for your child's wireless phone.

For More Information

To sign up for a Chaperone℠ service or to learn more about how the Chaperone℠ service can help you keep in touch with your family, go to **verizonwireless.com/chaperone**, visit a **Verizon Wireless Communications Store** or call **1-800-2-JOIN-IN**. Obtaining your child's phone location using a wireless phone requires the parent to download the Chaperone℠ Parent application on their Verizon Wireless wireless phone. The Chaperone℠ Parent application is not available on all phones and models.

Subject to Customer Agreement and Family SharePlan® calling plan. Monthly subscription, specific Get It Now®/ GPS enabled phone and airtime required for use. Only available in the National Enhanced Services Coverage Area. Verizon Wireless does not guarantee the completeness or accuracy of any information displayed or disclosed. Chaperone℠ and ChildZone℠ are not child management tools and are not a substitute for adult supervision.

Tip To activate the Chaperone℠ Service on your handset, turn location feature on by selecting **Menu** -> **Settings** -> **Location**. The default setting of the feature is set to **E911 Only**.

TIA Safety Information

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

Exposure to Radio Frequency Signal

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

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

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

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

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

Antenna Care

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

Phone Operation

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

Tips on Efficient Operation

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

Driving

Check the laws and regulations on the use of wireless phones in the areas where you drive and always obey them. Also, if using your phone while driving, please observe the following:

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

Electronic Devices

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

Pacemakers

The Health Industry Manufacturers Association recommends that a minimum separation of fifteen (15) centimeters or six (6) inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Persons with pacemakers:
- Should ALWAYS keep the phone more than six (6) inches from their pacemaker when the phone is turned ON.
- Should not carry the phone in a breast pocket.
- Should use the ear opposite the pacemaker to minimize the potential for interference.
- Should turn the phone OFF immediately if there is any reason to suspect that interference is taking place.

Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider (or call the customer service line to discuss alternatives).

Other Medical Devices

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

Health Care Facilities

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

Vehicles

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

Posted Facilities

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

Aircraft

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

Blasting Areas

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

Potentially Explosive Atmosphere

Turn your phone OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.
Areas with a potentially explosive atmosphere are often, but not always, marked clearly. Potential areas may include: fueling areas (such as gasoline stations); below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles (such as grain, dust, or metal powders); and any other area where you would normally be advised to turn off your vehicle engine.

For Vehicles Equipped with an Air Bag

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

Safety Information

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

⚠️**Caution** **Violation of the instructions may cause minor or serious damage to the product.**

Charger and Adapter Safety
- The charger and adapter are intended for indoor use only.
- Insert the battery pack charger vertically into the wall power socket.
- Only use the approved battery charger. Otherwise, you may cause serious damage to your phone.
- Use the correct adaptor for your phone when using the battery pack charger outside the U.S.

Battery Information and Care
- Please dispose of your battery properly or take it to your local wireless carrier for recycling.
- The battery doesn't need to be empty before recharging.
- Use only LG-approved chargers specific to your phone model since they are designed to maximize battery life.
- Do not disassemble or short-circuit the battery.
- Keep the battery's metal contacts clean.

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

Explosion, Shock, and Fire Hazards

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

- 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-circuit of the terminal may damage the battery and cause an explosion.

General Notice

- Using a damaged battery or placing a battery in your mouth may cause serious injury.
- Do not place items containing magnetic components such as a credit card, phone card, bank book or subway ticket near your phone. The magnetism of the phone may damage the data stored in the magnetic strip.
- Talking on your phone for a long period of time may reduce call quality due to heat generated during use.
- When the phone is not used for a long period time, store it in a safe place with the power cord unplugged.
- Using the phone in proximity to receiving equipment (i.e., TV or radio) may cause interference to the phone.
- Do not use the phone if the antenna is damaged. If a damaged antenna contacts skin, it may cause a slight burn. Please contact an LG Authorized Service Center to replace the damaged antenna.
- Do not immerse your phone in water. If this happens, turn it off immediately and remove the battery. If the phone does not work, take it to an LG Authorized Service Center.

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

Caution:
Avoid potential hearing loss.

Prolonged exposure to loud sounds (including music) is the most common cause of preventable hearing loss. Some scientific research suggests that using portable audio devices, such as portable music players and cellular telephones, at high volume settings for long durations may lead to permanent noise-induced hearing loss. This includes the use of headphones (including headsets, earbuds and Bluetooth® or other wireless devices). Exposure to very loud sound has also been associated in some studies with tinnitus (a ringing in the ear), hypersensitivity to sound and distorted hearing. Individual susceptibility to noise-induced hearing loss and other potential hearing problems varies.

The amount of sound produced by a portable audio device varies depending on the nature of the sound, the device, the device settings and the headphones. You should follow some commonsense recommendations when using any portable audio device:

- Set the volume in a quiet environment and select the lowest volume at which you can hear adequately.

- When using headphones, turn the volume down if you cannot hear the people speaking near you or if the person sitting next to you can hear what you are listening to.

- Do not turn the volume up to block out noisy surroundings. If you choose to listen to your portable device in a noisy environment, use noise-cancelling headphones to block out background environmental noise.

- Limit the amount of time you listen. As the volume increases, less time is required before your hearing could be affected.

- Avoid using headphones after exposure to extremely loud noises, such as rock concerts, that might cause temporary hearing loss. Temporary hearing loss might cause unsafe volumes to sound normal.

- Do not listen at any volume that causes you discomfort. If you experience ringing in your ears, hear muffled speech or experience any temporary hearing difficulty after listening to your portable audio device, discontinue use and consult your doctor.

You can obtain additional information on this subject from the following sources:

American Academy of Audiology
11730 Plaza American Drive, Suite 300
Reston, VA 20190
Voice: (800) 222-2336
Email: info@audiology.org
Internet: www.audiology.org

National Institute on Deafness and Other Communication Disorders
National Institutes of Health
31 Center Drive, MSC 2320
Bethesda, MD USA 20892-2320
Voice: (301) 496-7243
Email: nidcdinfo@nih.gov
Internet: http://www.nidcd.nih.gov/health/hearing

National Institute for Occupational Safety and Health
Hubert H. Humphrey Bldg.
200 Independence Ave., SW
Washington, DC 20201
Voice: 1-800-35-NIOSH (1-800-356-4674)
Internet:
http://www.cdc.gov/niosh/topics/noise/default.html

FDA Consumer Update

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

1. Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of Radio Frequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the Main Menu Screen. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

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

Under the law, the FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit Radio Frequency 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.
- Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

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

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

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

The FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC).

All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. The FCC relies on the FDA and other health agencies for safety questions about wireless phones.

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

Base stations are thus not the subject of the safety questions discussed in this document.

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

The term "wireless phone" refers here to handheld wireless phones with built-in antennas, often called "cell", "mobile", or "PCS" phones. These types of wireless phones can expose the user to measurable Radio Frequency 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 Radio Frequency 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 does 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.nrpb.org.uk/)

10 Driver Safety Tips

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

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

1. Get to know your wireless phone and its features such as speed dial and redial. Carefully read your instruction manual and learn to take advantage of valuable features most phones offer, including automatic redial and memory. Also, work to memorize the phone keypad so you can use the speed dial function without taking your attention off the road.

2. When available, use a hands-free device. A number of hands-free wireless phone accessories are readily available today. Whether you choose an installed mounted device for your wireless phone or a speaker phone accessory, take advantage of these devices if available to you.

3. Make sure you place your wireless phone within easy reach and where you can reach it without removing your eyes from the road. If you get an incoming call at an inconvenient time, if possible, let your voicemail answer it for you.

4. Suspend conversations during hazardous driving conditions or situations. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow and ice can be hazardous, but so is heavy traffic. As a driver, your first responsibility is to pay attention to the road.

5. Don't take notes or look up phone numbers while driving. If you are reading an address book or business card, or writing a "to-do" list while driving a car, you are not watching where you are going. It's common sense. Don't get caught in a dangerous situation because you are reading or writing and not paying attention to the road or nearby vehicles.

6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan your calls before you begin your trip or attempt to coincide your calls with times you may be stopped at a stop sign, red light or otherwise stationary. But if you need to dial while driving, follow this simple tip -- dial only a few numbers, check the road and your mirrors, then continue.

7. Do not engage in stressful or emotional conversations that may be distracting. Stressful or emotional conversations and driving do not mix; they are distracting and even dangerous when you are behind the wheel of a car. Make people you are talking with aware you are driving and if necessary, suspend conversations which have the potential to divert your attention from the road.

8. Use your wireless phone to call for help. Your wireless phone is one of the greatest tools you can own to protect yourself and your family in dangerous situations -- with your phone at your side, help is only three numbers away. Dial 911 or other local emergency number in the case of fire, traffic accident, road hazard or medical emergency. Remember, it's a free call on your wireless phone!

9. Use your wireless phone to help others in emergencies. Your wireless phone provides you a perfect opportunity to be a "Good Samaritan" in your community. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 911 or other local emergency number, as you would want others to do for you.

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

For more information, please call to 888-901-SAFE, or visit our website http://www.ctia.org.

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 1.6 W/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 0.937 W/kg and when worn on the body, as described in this user guide, is 0.562 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 BEJVX3400. Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) website at http://www.ctia.org.

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

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

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

While some wireless phones are used near some hearing devices (hearing aids and cochlear implants), users may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference noise, and phones also vary in the amount of interference they generate.

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

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

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

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

Hearing devices may also be rated. Your hearing device manufacturer or hearing health professional may help you find this rating. Higher ratings mean that the hearing device is relatively immune to interference noise. The hearing aid and wireless phone rating values are then added together. A sum of 5 is considered acceptable for normal use. A sum of 6 is considered for best use.

In the above example, if a hearing aid meets the M2 level rating and the wireless phone meets the M3 level rating, the sum of the two values equal M5. This is synonymous for T ratings. This should provide the hearing aid user with "normal usage" while using their hearing aid with the particular wireless phone. "Normal usage" in this context is defined as a signal quality that is acceptable for normal operation.

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

For information about hearing aids and digital wireless phones

FCC Hearing Aid Compatibility and Volume Control
http://www.fcc.gov/cgb/dro/hearing.html

Gallaudet University, RERC
http://tap.Gallaudet.edu/DigWireless.KS/DigWireless.htm

Hearing Loss Association of America [HLAA]
http://www.hearingloss.org/learn/cellphonetech.asp

The Hearing Aid Compatibility FCC Order
http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-03-168A1.pdf

There are a variety of accessories available for your mobile phone. Consult your local dealer for availability.

Battery

Two batteries are available. The standard battery, and the extended battery.

Battery Charger

The battery charger allows you to charge the battery.

Vehicle Power Adapter (Portable)

The vehicle power adapter allows you to operate the phone and trickle charge the phone's battery from your vehicle.

Hands-Free Car Kit (Portable)

The hands-free car kit enables you to attach the phone to the power jack in your car, providing you with hands-free operation.

Hands-free Headset

The hands-free headset connects to your phone allowing hands-free operation. It includes earpiece and microphone.

USB Cable

Connects your phone to your PC.

Battery Pack Charger

The battery pack charger allows you to charge the battery pack itself without the phone.

Holster

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 product extends for TWELVE (12) MONTHS beginning on the date of purchase of the product with valid proof of purchase, or absent valid proof of purchase, FIFTEEN (15) MONTHS from date of manufacture as determined by the unit's manufacture date code.

(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) This 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 Canada.

(4) The external housing and cosmetic parts shall be free of 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 to reasonably prove the date of purchase.

(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 damages resulting from use of the product in other than its normal and customary manner.

(2) Defects or damages 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, spills of food or liquid.

(3) Breakage or damage to antennas unless caused directly by defects in material or workmanship.

(4) That the Customer Service Department at LG was not notified by consumer of the alleged defect or malfunction of the product 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 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, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN. LGE MOBILECOMM, USA, 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 APPLICABLE TO THIS PRODUCT.

Some states do not allow the exclusive 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 or fax to the following telephone numbers from anywhere in the continental United States:

Tel. 1-800-793-8896 or **Fax. 1-800-448-4026**

Or visit http://us.lgservice.com. Correspondence may also be mailed to:

LG Electronics Service- Mobile Handsets
P.O. Box 240007, Huntsville, AL 35824

DO NOT RETURN YOUR PRODUCT TO THE ABOVE ADDRESS. Please call or write for the location of the LG authorized service center nearest you and for the procedures for obtaining warranty claims.

Terminology

Melody composer

Feature that allows you to create melodies using the phone's keypad.

EZ Tip Calc

Feature for easy bill calculation using the total cost, tip, and number of people as variables.

Acronyms and Abbreviations

DTMF **D**ual-**T**one **M**ulti **F**requency (or "touch-tone") is a method used to communicate keys pressed on the phone. Pressing a key generates two simultaneous tones, one for the row and one for the column to determine which key was pressed.

EMS **E**nhanced **M**essaging **S**ervice is an extension to SMS for cellular phones available on specific networks. An EMS enabled phone can send and receive messages with special text formatting (such as bold or italic), animations, pictures, icons, sound effects, and special ring tones. EMS messages sent to non-EMS devices will be displayed as SMS transmissions.

ERI **E**nhanced **R**oaming **I**ndicator is a feature to indicate whether a mobile phone is on its home system, a partner network, or a roaming network. Many phones indicate home vs. roaming as an icon, but ERI capable phones can clearly indicate third "partner network" status.

GPS **G**lobal **P**ositioning **S**ystem is a system of satellites, computers, and receivers able to determine the latitude and longitude of a specific receiver on Earth. Position is calculated using time and distance.

IS 2000 Type of digital signaling. It's the second generation of CDMA digital cellular, an extension of IS-95. Differences between signaling types have to do with pilot signal and links to provide more traffic channels, and control protocols.

NAM **N**umber **A**ssignment **M**odule is how the phone stores the phone number and its electronic serial number. A multiple NAM phone can register with multiple service providers and be set to automatically switch between programmed phone numbers for service provider areas.

SID **S**ystem **Id**entification is a number transmitted by base stations to identify a wireless system which conforms to a TIA cellular or PCS standard.

SID is used by mobile phones to recognize when they are in their home system and can be used for billing purposes as a unique identification of the serving system.

SMS **S**hort **M**essage **S**ervice is a service available on most digital mobile phones to send messages between phones or other devices. Messages are routed a Short Message Service Center (SMSC), which attempts to send the message and, if unsuccessful, possibly retry at a later time. Message delays or message loss is possible, especially when sending between networks. Users can request delivery confirmation reports.

TTY **T**ele**ty**pewriter. An electromechanical typewriter that either transmits or receives messages coded in electrical signals. A phone with TTY support is able to translate typed characters to voice or translate voice into characters to display on the TTY.