

IMPORTANT SAFETY PRECAUTIONS

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.*



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



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



3. Do not dispose of your battery by fire or with hazardous or flammable materials.

4. Make sure that no sharp-edged items such as animal's teeth, nails, come into contact with the battery. There is a risk of this causing a fire.



5. Store the battery out of reach of children.

6. Be careful that children do not swallow any parts of the phone. This could cause asphyxiation or suffocation.

IMPORTANT SAFETY PRECAUTIONS



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



2. 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 activated, you may be seriously injured.



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

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



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



6. Never store your phone in temperatures less than -20°C (-4°F) or greater than 50°C (122°F).

7. Do not use harsh chemicals (such as alcohol, benzene, thinners, etc.) or detergents to clean your phone. There is a risk of this causing a fire.



8. Do not drop, strike, or shake your phone severely. Such actions may harm the internal circuit boards of the phone.



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

10. 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.



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



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



3. Do not disassemble the phone.



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



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

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

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

8. 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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Thank you for choosing the advanced and compact LG 490 cellular phone, designed to operate with the latest digital mobile communication technology, Code Division Multiple Access (CDMA). Along with the many advanced features of the CDMA system, such as greatly enhanced voice clarity, this phone offers:

1. Large, easy-to-read, 8-line backlit LCD with status icons.
2. Paging, messaging, Voice Mail and Caller ID.
3. 27-key keypad.
4. Long battery standby and talk time.
5. Menu-driven interface with prompts for easy operation and configuration.
6. Any Key Answer, Auto Answer, Auto Retry, One-Touch Dial and speed dialing with 99 memory locations.
7. Bluetooth and Music & Media functionalities
8. Bilingual capabilities (English and French)
9. Fastap board
10. Compact Car Porsche Design

Important Information

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

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.

Industry Canada Compliance

This phone complies with Industry Canada RSS 133. This phone complies with the Class B limits for radio noise emissions as set out in the interference causing standard entitled "Digital Apparatus" ICES-003 of Industry Canada.

Technical Details

The LG 490 is an all digital phone that operates on both Code Division Multiple Access (CDMA) frequencies: cellular services at 800 Mhz and Personal Communication Services (PCS) at 1.9 Ghz.

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

The Cellular and PCS CDMA networks consist of MSO (Mobile Switching Office), BSC (Base Station Controller), BTS (Base Station Transmission System), and MS (Mobile Station). The following table lists some major CDMA standards.

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

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

CDMA Standard	Designator	Description
Basic Air Interface	TIA/EIA-95A	CDMA Dual-Mode Air Interface
	TSB-74	14.4kbps radio link protocol and inter-band operations
	ANSI J-STD-008 TIA/EIA-IS2000	IS-95 adapted for PCS frequency band CDMA2000 1xRTT Air Interface
Network	TIA/EIA/IS-634	MAS-BS
	TIA/EIA/IS/651	PCSC-RS
	TIA/EIA/IS-41 -C	Intersystem operations
	TIA/EIA/IS-124	Nom-signaling data comm.
Service	TIA/EIA/IS-96-B	Speech CODEC
	TIA/EIA/IS-99	Async Data and Fax
	TIA/EIA/IS-637	Short message service
	TIA/EIA/IS-657	Packet Data
	IS-801 TIA/EIA/IS-707-A	Position Determination Service High Speed Packet Data
Performance	TIA/EIA/IS-97	Cellular base station
	TIA/EIA/IS-98	Cellular mobile station
	ANSI J-STD-018	PCS personal station
	ANSI J-STD-019	PCS base station
	TIA/EIA/IS-125	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 separation 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 result in violation of FCC regulations.

Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin a minor burn may result. Contact your local dealer for a replacement antenna.

PHONE OVERVIEW



Earpiece

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

LCD Screen Displays messages and indicator icons.

Left Soft Key Use to access the menu assigned to the left screen of the phone.

Headset Jack

BACK/Speaker Key Press to delete a single space or character. Press and hold to delete entire words. Press this key once in a menu to go back one level. Use for quick access to Speakerphone Mode (from standby mode press and hold for about 3 seconds)

SEND Key Use to place or answer calls.

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

Voice Dial/Voice Memo Key Press once to access the Voice Dial. Press and hold for two seconds or more to access Voice Memo.

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

Navigation Keys Use for quick access to Messaging, All Calls.

Right Soft Key Use to access the menu assigned to the right screen of the phone.

Side Camera Key Use for quick access to Camera function (Press and hold for about 3 seconds to use camera function on the outside/inside display).

END Key Use to turn the power on/off and to end a call. Also use to return to the main menu display screen.

Fastap Keypad Use to enter numbers, characters and symbols much faster than any other keyboard we have offered.

Lock Mode Key Use to set the lock function (from standby mode press and hold **#** for about 3 seconds).

Microphone

Flash

Camera Lens

External Display

MENUS OVERVIEW

1. Contacts

1. List Entries
2. New Entry
3. Groups
4. Speed Dials
5. Voice Dials
6. Erase All Contacts

2. Call History

1. All Calls
2. Incoming Calls
3. Outgoing Calls
4. Missed Calls
5. Erase History
1. All Calls
2. Dialed Calls
3. Received Calls
4. Missed Calls

6. Call Timers

1. Last Calls
2. All Calls
3. Life Time
4. Data Transferred
5. Connection Time
6. Reset Timer

3. Messaging

1. Voice Mail
2. Text and Multimedia
1. Send New
2. Inbox
3. Outbox
4. Templates
5. Drafts
6. Saved
7. Erase Messages
8. Settings
9. Memory Info
3. E-mail
4. IM & Chat
5. Web Alerts
6. Short Codes

4. Wireless Web

5. Media

1. Ringtones
2. Wallpaper
3. Camera
1. Take Photo
2. Take Video
4. My Albums
1. Sound Album
2. Picture Album
3. Online Album

6. Shop

7. Games

Get New

8. Tools & Apps

Get New

GPS Services

Calculator

Alarm Clock

Scheduler

Notepad

EZ Tip Calc

World Clock

Voice Memo

9. Settings

1. Sound

1. Ringers

2. Keypad

3. Volume

4. Alerts

2. Display

1. Banner

2. Wallpaper

3. Backlight

4. Keypad light

5. Time and Date

6. Menu Style

7. Dialing font

8. Theme Color

3. Games / Tools

1. Backlight

2. Volume

3. Notification

4. Bluetooth

1. Power

2. Device List

3. Discovery Mode

4. Device Scan

5. Device Name

5. GPS

1. GPS Status

2. GPS Privacy

6. Others

1. Nav. Key

2. Call Setup

3. Language

4. TTY Mode

5. Data Setup

6. Memory Info

7. System

1. Phone Info

2. System

3. Security

8. Airplane Mode

GETTING STARTED WITH YOUR PHONE

The Battery

Note

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

The phone comes with a rechargeable battery. Keep the battery charged while not in use in order to maximize talk and standby time. The battery charge level is shown at the top of the LCD screen.

Installing the Battery

To install the battery, insert the battery into the opening on the back of the phone. Put the battery cover on the battery and push it slightly upwards.

Removing the Battery

Turn the power off. Pull the battery cover downward and remove it. Then remove the battery by pressing the upper area of it.

Charging the Battery

To use the charger provided with your phone:

WARNING! Use only the charger provided with the phone. Using any charger other than the one included with the LG 490 may damage your phone or battery.

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

Battery Charge Level

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




Fully Charged

Fully Discharged

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  for a few seconds until the LCD screen lights up.

Note

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

Turning the Phone Off

1. Press and hold  until the display turns off.
























Signal Strength

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




GETTING STARTED WITH YOUR PHONE

Screen Icons



When the phone is powered on, the top line of the LCD screen displays icons indicating the status of the phone. To see the icons below, go to Menu->Settings->System->Phone Info->Icon Glossary.

	Signal Strength indicator. The strength of the signal received by the phone is indicated by the number of bars displayed.		Voice Only.
	Airplane Mode.		Alarm.
	In Call State. A call is in progress. * No icon indicates the phone is in standby mode.		Schedule.
	No Service indicator. The phone is not receiving a system signal.		Data Session.
	SSL.		Voice Privacy.
	TTY.		Vibrate Mode.
	1X Service indicator.		Ring Mode.
	Digital indicator. Digital service is available.		Silent Mode.
	Roaming indicator. The phone is outside of the home service area.		Speaker Mode.
	New Voice Mail.		GPS On.
	New Message.		Battery Strength. Indicates battery charge level.
			Bluetooth On.
			Bluetooth Audio Device Connected
			Shown To All


Making Calls

1. Make sure the phone is turned on. If not, press  for about 3 seconds.
2. Enter the phone number (include the area code if needed).
3. Press .
If the phone is locked, enter the lock code.
Call Failed - indicates the call did not go through.
4. Press  to end the call.


Correcting Dialing Mistakes

If you make a mistake while dialing a number, press  once to Delete the last digit entered or hold down  for at least 2 seconds to delete all digits.


Redialing Calls

1. Press  twice to redial the last number you dialed. The last 90 numbers are stored in the call history list and you can also select one of these to redial.


Receiving Calls

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

Note

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




Note

If you press Right Soft Key  [Ignore] while the phone is ringing, the call will end.

2. Press  to end the call.

QUICK ACCESS TO CONVENIENT FEATURES

Manner Mode



Sets the phone to shake instead of ring ( is displayed). To quickly set Manner Mode press and hold . To return to Normal Mode, press and hold .

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  for three seconds. To cancel, press Right Soft Key  [Unlock] and enter the password.

Mute Function

The Mute Function doesn't transmit your voice to the caller. To quickly activate Mute press Left Soft Key  [Mute], then to cancel press Left Soft Key  [Unmute].



Volume Quick Adjustment

Quickly adjust ringer and earpiece volumes by pressing the upper side key to increase and lower 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. Check with your service provider for information about this function. 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 .

ENTERING AND EDITING INFORMATION

Text Input

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

Key Functions




-  **Left Soft Key:** Press to change text input mode.
Abc > ABC > abc
-  **Shift:** Use to change case.
-  **Space:** Press to complete a word and insert a space.
-  **BACK:** Press to delete a single space character. Hold to delete words.
-  **Symbols:** Use to insert special characters or punctuation.
-  **Smiley:** Press key twice to insert smiley symbols.
-  -  Use to type text.
-  -  Use to type numbers.

Note

















The number keys have the patented Thumb-Friendly™ software, so even if you hit a few letters by mistake, you will still get the number you want.

Text Input Examples

Display the text modes and select a text mode:

1. In a text entry field, press Left Soft Key  to display text modes.
2. Press  to highlight the text input mode you want to use.
3. Press  to select the highlighted text input mode.

Using Text Input




1. Press Left Soft Key  to change to Abc mode.
2. Press          
     .
3. **Call the office** is displayed.

Initial Cap (Abc)

Only the first letter is capitalized. All subsequent letters are lower case.

Caps Lock (ABC)

All letters are capitalized.

1. Press Left Soft Key  to change to ABC mode.
 2. Press  .
- LG** is displayed.

Capitalizing Characters

Press to capitalize your next letter.

Lower Case (abc)

All letters are in lower case.

French Accented Characters








When in French mode, the phone will provide accented characters by pressing the base letter key multiple times.(e.g. Press once for e, twice for è, 3 times for é, etc.).

CONTACTS IN YOUR PHONE'S MEMORY






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 where to save, then press .
Save New Contact / Update Existing Contact
3. Use  to select a Label and press .
Mobile 1 / Home / Work / Mobile 2 / Fax
4. Enter a name (max. 22 characters), then press .
5. Press  [Save] 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.

Picture ID





Sets a picture to display to identify the caller when they call your phone.

Call Ringtone

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


Speed Dial

Allows you to set up your Speed Dials.

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  to select the Speed Dial digit, then press .

Storing a Number with Pause

Pauses allow you to enter additional series of numbers to access automated systems such as Voicemail or credit billing numbers. Pause types are: **Hard Pause (P)** The phone stops dialing until you press Left Soft Key [Release] to send the next string of digits. **2-sec Pause (T)** 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 **Hard Pause / 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 **Update Existing Contact**, then press .






3. Use  to select an existing entry, then press .

2. Use  to select **Mobile1 / Home / Work / Mobile2 / Fax / Fax2 / None**, then press .









5. Press  to save.

CONTACTS IN YOUR PHONE'S MEMORY


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 highlight the phone number field you want to add, then enter the number and press  to save.

Adding a Pause to a Contact Entry







1. Press Right Soft Key  [Contacts].
2. Use  to select a Contact entry and press , then press  [Edit].
3. Use  to select the number, then press Right Soft Key  [Options].
4. Use  to select pause type and press .

Hard Pause / 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  [Edit].
3. Use  to select the information you want to change.
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  Set as Default.
6. Press  to set the new number as the default.
7. Press  again to save.

Deleting




Deleting a Phone Number

1. Select an entry to edit.
2. Use  to select a phone number.
3. Press and hold  to delete the number.
4. Press  to save.





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  Delete.
3. Press  Yes.

Deleting a Speed Dial



1. Press Left Soft Key  Menu, select **Contacts**, and select **Speed Dials**.
2. Highlight the Speed Dial you want to delete, then press Right Soft Key  [Options].
3. Press  Remove.
4. Press  Yes.

CONTACTS IN YOUR PHONE'S MEMORY


Searching Your Phone's Memory

You can search for information you stored in your LG 490 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  Call History.
3. Use  to select the type of recent call and press .

All Calls / Incoming Calls / Outgoing 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 .

USING PHONE MENUS

Menu Access

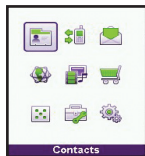
Press Left Soft Key  [Menu] to have access to nine phone menus. There are two methods of accessing menus and submenus:



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

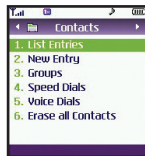
Contacts

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

Access and Options










1. Press Left Soft Key  [Menu].
2. Press  Contacts.
3. Select a sub-menu.
 1. List Entries
 2. New Entry



3. Groups
4. Speed Dials
5. Voice Dials
6. Erase All Contacts

1. List Entries

Allows you to view your Contacts list.







1. Press , , .
2. Options from here:
 - Press  to scroll through your Contacts alphabetically.
 - Press Right Soft Key  [Options] to select one of the following:
New Message / Delete / Edit / Delete All
 - Press Left Soft Key  [New] to store a New Entry.
 - Press  [View] to view the contact information.

2. New Entry

Allows you to add a new number to your Contacts.

Note

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










1. Press , , .
2. Enter the name and press .
3. Use  to select the phone number type.
4. Enter the number and press .

Note

For more detailed information, see page 24.

3. Groups








Allows you to view your grouped Contacts, add a new group, change the name of a group, delete a group, or send a message to everyone in the selected group.

1. Press , , .
 2. Press  to highlight a group to view, then press .
- Press Left Soft Key  [New] to add a new group to the list.
 - Use  to highlight a group then press Right Soft Key  [Options] to change the name of the group or delete the group.
Delete / Message / Rename Group / Set Group Ringtone / Delete All
 - Press  [View] to view the contact information.

USING PHONE MENUS





4. Speed Dials


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

1. Press , , .
2. Use  to highlight the Speed Dial position, and press .
3. Use  to highlight the Contact then press .

5. Voice Dials

Allows you to view the list of numbers programmed with voice dialing or add a Voice Dial command to a number stored in your Contacts.

1. Press , , .
2. Options from here:
 - Press Left Soft Key  [New] to record a new Voice Dial command. Follow the phone's prompts.





- Select  if you want to start recording when the pop up message is displayed.

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.

6. Erase All Contacts

Allows you to erase all of your Contacts at once.



1. Press , , .
2. Press  Yes.

Call History


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

Access and Options











1. Press Left Soft Key  [Menu].
2. Press  Call History.
3. Select a sub-menu.
 1. All Calls
 2. Incoming Calls
 3. Outgoing Calls
 4. Missed Calls
 5. Erase History
 6. Call Timers

Shortcut

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

1. All Calls







Allows you to view the list of all calls; up to 90 entries.

1. Press , , .
2. Use  to highlight an entry, then
 - Press  to view the entry.
 - Press  to place a call to the number.
 - Press Right Soft Key  [Options] to select: Save Contact / Dial 1 + Number / Delete / Delete All
 - Press Left Soft Key  [Message] to send a message.

USING PHONE MENUS




2. Incoming Calls




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

1. Press , **2**, **2**.
2. Use  to highlight an entry, then
 - Press  to view the entry.
 - Press  to place a call to the number.
 - Press Right Soft Key  [Options] to select: Save Contact / Dial 1 + Number / Delete / Delete All
 - Press Left Soft Key  [Message] to send a message.

2. Outgoing Calls







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

1. Press , **2**, **3**.
2. Use  to highlight an entry, then
 - Press  to view the entry.

- Press  to place a call to the number.
- Press Right Soft Key  [Options] to select: Save Contact / Dial 1 + Number / Delete / Delete All
- Press Left Soft Key  [Message] to send a message.




4. Missed Calls

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

1. Press , **2**, **4**.
2. Use  to highlight an entry, then
 - Press  to view the entry.
 - Press  to place a call to the number.
 - Press Right Soft Key  [Options] to select: Save Contact / Dial 1 + Number / Delete / Delete All
 - Press Left Soft Key  [Message] to send a message.

5. Erase History

Allows you to erase selected call list(s).



1. Press , **2**, **5**.
2. Use  to highlight the list of calls to erase, then press .

All Calls / Incoming Calls / Outgoing Calls / Missed Calls

3. Press **1** Yes.

6. Call Timers

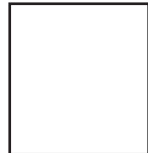
Allows you to view the duration. Allows you to view the list of received and transmitted data calls.


1. Press , **2**, **6**.
2. Use  to highlight a list.

Last Call / All Call / Life Time / Data Transferred / Connection Time / Reset Timer



Messaging

Access and Options



1. Press Left Soft Key  [Menu].
2. Press **3** Messaging.
3. Select a sub-menu.
 1. Voice Mail
 2. Text and Multimedia
 3. E-mail
 4. IM & Chat
 5. Web Alerts
 6. Short Codes

Text messages, picture messages, and the voice mail box become available as soon as the phone is powered on.

- Check types of messages by pressing the message key .
- Make a call to the callback number by pressing  during an Inbox message check.

USING PHONE MENUS

The phone can store up 521 messages (1 voice mail, 50 inbox text messages, 100 inbox picture messages, 100 inbox picture notification messages, 50 outbox/sent text messages, 50 outbox/sent picture messages, 50 template messages, 50 draft messages, 20 saved text messages, 50 saved picture messages). 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

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

1. The phone displays a message on the screen.
2. One of 14 ring types is heard, if selected.
3. The message icon (✉) is displayed on the screen.




Note

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

1. Voice Mail

Allows you to view new voice messages recorded in the Voicemail box. When you have a new voice message, your phone will alert you.

Checking Your Voicemail Box

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

2. Text and Multimedia

1. Send New

Allows you to send text messages and picture messages. Each message has a destination and information. These are dependent upon the type of message you want to send.

The Basics of Sending a Message

1. Press , **3**, **2**, **1**.

2. Enter the phone number of the recipient or the email address.

Press Right Soft Key  [Options].

Select the option(s) to customize.

- **Contacts** to select a recipient from your Contacts list.
- **Call History** to select a recipient from your Call History.
- **Group** to select a recipient from your Group.
- **Set as Cc**
- **Set as Bcc**

3. Press .

4. Enter the subject and press .

Note

To send a message, press .

5. Type your message.

Press Right Soft Key  [Options].


Select the option(s) to customize.

- **Add** to select Quick Text or Signature.
- **Save As** to select Draft or Template.
- **Settings** to select Priority Level or Callback Number.

• **Save Quick Text**

6. Use  to highlight Picture or Video and Left Soft Key  [Add].

Use  to select Picture Album or Video Album.

Select Picture or Video and press Left Soft Key  [Select].

Note

A disclaimer is displayed

"Cannot insert Video and Picture in the Same Message." when you try to add video and picture in one message.

7. Use  to highlight Sounds and Left Soft Key  [Add].

Use  to select Sound Album.

Select Sound and press Left Soft Key  [Select].

USING PHONE MENUS

Press Right Soft Key  [Options].

Select the option(s) to customize.


- **Preview** to take a look at your message before sending.
- **Remove** to select Picture, Video, Sound or Slide.
- **Save As** to select Draft or Template.
- **Settings** to select Priority Level, Delivery Report, Read Report or Slide Timer.
- **Add Slide** to add slide to your message.

8. Press  [Send].

A sending screen is displayed.

2. Inbox

The phone alerts you in 3 ways when you receive a new message:

- By displaying a message notification on the screen.
- By sounding a beep or vibrating, if set.
- By displaying .



Received text messages and picture messages may be searched and the contents viewed. Received messages are displayed from newest to oldest.

Out of Memory Warning

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

Viewing Your Inbox

1. Press , , .

2. Use  to highlight a message and press .

3. Options from here:

- Left Soft Key  [Reply].
- Right Soft Key  [Options].

Delete Deletes the selected message from the Inbox.

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

Save Stores the callback number, e-mail address, and numbers

	in user data included in the received message into your Contacts.
Move to Saved	Saves the message into the Saved folder.
Detail	Allows you to check the received message information.
Lock/Unlock	Locks or unlocks the selected message.

3. Outbox

Up to 50 sent messages can be stored in Outbox View lists and contents of sent messages and verify whether the transmission was successful or not.

1. Press , , , .

2. Use  to highlight an Outbox message.

3. Options from here:

- Left Soft Key  [Resend].
- Right Soft Key  [Options].

Delete Deletes the selected message.

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

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

Move to Saved Saves the message into the Saved folder.


Detail Allows you to check the selected message information.

Lock/Unlock Locks or unlocks the selected message.

4. Templates

1. Press , , , .

2. Press Left Soft Key  [Add] to create a new template.

3. Use  to highlight a message.


USING PHONE MENUS

Options from here:

- Right Soft Key  [Options].

Delete Deletes the selected message from the Templates.

Lock/Unlock Locks or unlocks the selected message.

4. Press  to send the selected message.

5. Drafts

Displays draft messages.

1. Press , , , .


2. Use  to highlight a message.

Options from here:

- Press Right Soft Key  [Options].

Delete Deletes the selected message from the Drafts.

Lock/Unlock Locks or unlocks the selected message.

3. Press  to send the selected message.

6. Saved

Displays saved messages.

1. Press , , , .

2. Use  to highlight a message.

Options from here:


- Press Right Soft Key  [Options].

Delete Deletes the selected message from the Saved.

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












Detail Allows you to check the selected message information.

Lock/Unlock Locks or unlocks the selected message.

3. Press  to view the message.







7. Erase Messages

Allows you to erase all messages stored in your Inbox, Outbox, Templates, Drafts or Saved messages. You can also erase all messages at the same time.

1. Press , , , .
 - Press  [**Inbox**] to erase all messages stored in the Inbox.
 - Press  [**Outbox**] to erase all messages stored in Outbox.
 - Press  [**Templates**] to erase all messages stored in the Templates.
 - Press  [**Drafts**] to erase all messages stored in the Drafts.
 - Press  [**Saved**] to erase all messages stored in the Saved messages.
 - Press  [**All Messages**] to erase all messages stored in the Inbox, Outbox/Sent, Templates, Drafts or Saved messages.
2. Press  Yes.

8. Settings

Allows you to configure ten settings for messages.

1. Press , , , .
2. Use  to highlight a setting, then press .

Save To Outbox	Auto Save / Prompt / Do Not Save
Auto Delete Inbox	On / Off
Quick Text	12 predefined phrases
Default Entry Mode	Abc / abc / ABC
Auto Download	On / Off
Message Priority	High / Normal / Low
Delivery Report	On / Off
Read Report	On / Off
Callback #	Set your callback number.
Signature	Enter your signature.

USING PHONE MENUS

Message Settings Sub-Menu Descriptions

Save to Outbox

Allows you to automatically save sent messages in Outbox when transmitted.

Auto Delete Inbox

Allows you to automatically delete read messages when you exceed the storage limit.

Quick-Text

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

Default Entry Mode

Allows you to select the default input method including Abc, abc, ABC.

Auto Download

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

Message Priority

Gives priority to the message.

Delivery Report

Set delivery report to let you know if your message is delivered to the recipient.

Read Report

Set read report, and you can check out if your message has been read by the recipient.

Callback



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

Signature

Allows you to create and/or edit the signature.




9. Memory Info

Provides you with the memory information of the all messages stored in each folder.

1. Press , **3**, **2**, **9**.
2. Use .

3. E-mail

Allows you to send an E-mail by **Get New** or by **Online e-mail**. Contact your service provider for availability.

1. Press , **3**, **3**.
2. Use  to select **Get New** or **Online e-mail** then press .

4. IM & Chat

Allows you to send and receive instant message at any time. Allows you to chat with internet messenger users.

1. Press , **3**, **4**.

3. Web Alerts

Web Alert is special links or message provided from the carrier to inform you of special offers, bulletins and announcements.

1. Press , **3**, **5**.

6. Short Codes

Shows you the Short Codes List

1. Press , **3**, **6**.

Directory / Templates

USING PHONE MENUS


Wireless Web

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

Access and Options

Allows you to initiate a MacroBrowser session.



1. Press Left Soft Key  [Menu].
2. Press **4** **Wireless Web**.
After a few seconds, you see the Home Page.

Overview

The MacroBrowser allows the user to use a variety of Internet services. Using the MacroBrowser on the phone allows you to:

Send and receive Internet e-mail.

- Browse and search the World Wide Web via web pages especially designed for wireless phone customers.
- Set bookmarks to directly access your favorite sites.
- Retrieve information, such as stock quotes and flight schedules from the Internet.

Quality of Browser

Browsing the web via the phone is not like using your home computer. Site providers have selected only the critical aspects of their site to present to wireless phone users and have removed most graphics.

Ending the MacroBrowser Session

You can end a MacroBrowser session by pressing



Navigating through the Browser

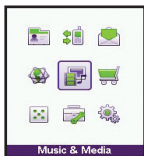
While using the MacroBrowser, you will find the following content:


- Numbered options (some options may not be numbered);
- Links embedded in content;
- Text or numeric input;
- Simple text.

You can act on the options or the links by using the Soft Keys.

Music

Access and Options



1. Press Left Soft Key  [Menu].
2. Press  Music & Media.
3. Select a sub-menu.
 1. Ringtones
 2. Wallpaper
 3. Camera
 4. My Albums

USING PHONE MENUS

1. Ringtones

Allows you to download new Ringtones.

1. Press , , .
2. Press  to Get New.

2. Wallpaper

Allows you to download new Wallpaper.

1. Press , , .
2. Press  to Get New.


3. Camera

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


3.1 Take Photo

1. Press , , , .

Note

Press and holding the Side Camera Key  from standby mode is a hot key to Take Photo.

Note

From Take Photo mode, you can change to Take Video mode by pressing the Side Camera Key .

2. Set the brightness , zoom , flash , and press Right Soft Key  [Options] to change other settings.

- Select the option(s) to customize.

Resolution 640X480 / 320X240 / 160X120

Quality Economy / Normal / Fine

Zoom x1 to x10

Brightness -2.0 to +2.0

Flash On / Off

Multishot 1 Shots / 3 Shots

Self-timer None / 3 Seconds / 5 Seconds

White Balance Auto / Sunny / Cloudy / Tungsten / Fluorescent



Night mode On / Off

Filter Effects Normal / Sepia / Black&White / Negative / Solari

Shutter Sound Shutter1 / Shutter2


Note




When the Flash is On, take the photo within 12 inches of the subject.

3. Take a picture by pressing .
4. Press .

The picture is stored in Picture Album.







Using the Side Camera Key

You can use the Side Camera Key  to use the sub menu list when the flip is closed. The picture and the exit menu are shown on the outside display.

1. Press the Side Camera Key  for about 3 seconds to enter the Take Photo mode.
2. Take a picture by pressing Side Camera Key .
3. Press the Side Camera Key  for about 3 second to exit camera mode.

4. My Albums

4.1 Sound Album




1. Press , , , .
2. Select your desired sound with  and press Right Soft Key  [Options].
3. Select one of the following options:

Send Message	Sends a message.
Delete	Yes / No
Rename	Rename the selected Sound.
Move	Yes / No
Copy	Yes / No
Delete All	Yes / No
Details	Name / Size / Type
Upload Online Album	Accesses the Online Album.

USING PHONE MENUS

4.2 Picture Album

Allows you to view pictures stored in the phone.

1. Press , **5**, **4**, **2**.
2. Select your desired picture with  and press Right Soft Key  **[Options]**.

Send Message	Sends a message.
Delete	Yes / No
Rename	Rename the selected picture.
Move	Yes / No
Copy	Yes / No
Delete All	Yes / No
Icon View(List View)	
Details	Name / Size / Resolution / Type
Set As	Main wallpaper / sub wallpaper / Picture ID
Upload Online Album	Accesses the Online Album.

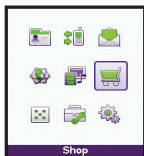
4.3 Online Album

Access the Online Album.

1. Press , **5**, **4**, **3**.

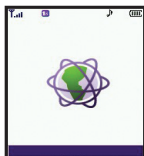
Shop

Access and Options



1. Press Left Soft Key [Menu].
2. Press **6** Shop.

After a few seconds, you see the Home Page.



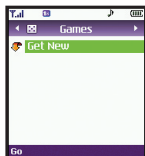
Games

Access and Options



1. Press Left Soft Key [Menu].
2. Press **7** Games.
3. Select a sub-menu.

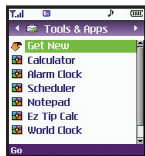
Get New





USING PHONE MENUS

Tool & App




Access and Options







1. Press Left Soft Key  [Menu].
2. Press  Tools & Apps.
3. Select a sub-menu.

Get New
GPS Services
Calculator
Alarm Clock
Scheduler
Notepad
EZ Tip Calc
World Clock
Voice Memo

1. Get New







1. Press , .
2. Scroll to **Get New** and press .
After a few seconds, you will see the Home Page.

2. GPS Services

1. Press , .
2. Scroll to **GPS Services** and press .
3. Press  to Get New.
After a few seconds, you will see the Home Page.













3. Calculator

You can enter numbers up to the second decimal place.

1. Press , .
2. Scroll to **Calculator** and press .
3. Enter data.
 - Use keypad to enter numbers.
 - Use  to enter decimals.
 - Use  to enter brackets.
 - Press Left Soft Key to clear the entry.
 - Press Right Soft Key to enter algebraic operators.
 - Use Navigation Key to enter operators.
 - Press  to complete equation.






4. Alarm Clock

Your phone comes with a built-in alarm clock with multiple alarm capabilities.

1. Press , .
2. Scroll to **Alarm Clock** and press .
3. Press Left Soft Key  **New** to add a new alarm.
4. Use  to select **Off / Manual / 10 Min Later / 20 Min Later / 30 Min Later / 1 Hour Later** then press .
5. Set the time for alarm and press .
6. Press  to select one of the following:
Once / Daily / Mon~Fri / Sat~Sun
7. Use  to highlight **Ring** (ring type setting), press Left Soft Key  **List**, and select your desired ring.
8. Use  to select **Note** then type your note using the numeric keypad.
9. Press .

5. Scheduler






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 , .
2. Scroll to **Scheduler** and press .
3. Using your navigation key, highlight the day to which you would like to add an event and press Left Soft Key  **New**.
4. Enter your schedule information including:
 - **Date** • **Time** • **Subject**
 - **Reminder**(On Time / 15 minutes before / 30 minutes before / 1 hour before / 1 day before / 3 days before / 1 week before / No Reminder)
 - **Repeat**
 - **Expiration**(No Expiration / Set Expiration)
5. Press .

USING PHONE MENUS




6. Notepad

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

1. Press , .
2. Scroll to **Notepad** and press .
3. Press Left Soft Key  **New** to write a new note.
4. Type your note using the numeric keypad and press .

7. EZ Tip Calc







Allows you to quickly and easily calculate the amounts for a bill with the amount of the bill, the amount of the tip, and the number of people as variables.

1. Press , .
2. Scroll to **EZ Tip Calc** and press .
3. Use your keypad and navigation key to enter the bill amount and desired tip percentage. The correct tip will be calculated instantly.

4. If you're splitting the check, highlight **Split** and enter the number of people in your party. (An equal split of the bill will be calculated and displayed.)

8. World Clock

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

1. Press , .
2. Scroll to **World Clock** and press .
3. Use  to move the cross hairs across the map or press Right Soft Key  **[Cities]** to enter a specific city.
4. Press Left Soft Key  **[Set DST]** to set Daylight Saving Time for the selected city.

9. Voice Memo






Shortcut

Press the Side Key for Voice Memo for 3 seconds.

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




Recording a Voice Memo

To record a memo:

1. Press , .
2. Scroll to **Voice Memo** and press .
3. Press  to record a new Voice Memo. (The phone prompts you to start recording after the beep.)
4. To finish recording, press  Save.

Playing a Voice Memo

To play the voice memos you have recorded:

1. Press , .
2. Scroll to **Voice Memo** and press .

3 Press Left Soft  [List].

Options from here:

Select your desired Voice Memo with  and press Right Soft Key  [Options].

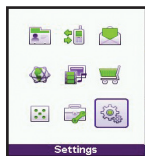
Send Message	Sends a message
Delete	Yes / No
Rename	Rename the selected Sound
Move	Yes / No
Copy	Yes / No
Delete All	Yes / No
Details	Name / Size / Type
Upload Online Album	Accesses the Online Album


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Settings

The Settings menu has options to customize your phone.

Access and Options



1. Press Left Soft Key  [Menu].
2. Press **9** Settings.
3. Select a sub-menu.

1. Sound
2. Display
3. Games / Tools
4. Bluetooth
5. GPS
6. Others
7. System
8. Airplane Mode






1. Sound

Options to customize various sounds emitted from the phone.


1.1 Ringers



1.1.1 Voice Calls

Allows you to set ringtones for different types of incoming calls.




1. Press , **9**, **1**, **1**, **1**.
2. Select an incoming call type.
Caller ID / Unknown Calls / Roaming
3. Use  to select a ringtone, then press Left Soft Key  Set to save the sound.

1.1.2 Messages

1. Press , **9**, **1**, **1**, **2**.
2. Select an incoming call type.
Voice Mail / Text and Multimedia / Web-Alerts / Reminder




- Use  to select a ringer, then press Left Soft Key  Set to save the sound.

1.1.3 Meeting / Silent Mode

- Press , **9**, **1**, **1**, **3**.
- Use  to set the setting, then press  to save the change.
On / Off


1.2 Keypad


1.2.1 Keypad Sound

- Press , **9**, **1**, **2**, **1**.
- Use  to adjust the volume of the keypad, then press  to save the change.

1.2.2 DTMF Length

Allows you to set the DTMF Length and touch tone playback speed.

- Press , **9**, **1**, **2**, **2**.

- Use  to select a length, then .




Short 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.

1.3 Volume




1.3.1 Master

Allows you to set master volume settings.

- Press , **9**, **1**, **3**, **1**.
- Use  to adjust the volume, then press  to save the change.

1.3.2 Earpiece




Allows you to set earpiece volume settings.

- Press , **9**, **1**, **3**, **2**.
- Use  to adjust the earpiece volume, then press  to save the change.

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1.3.3 Power On/Off

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

1. Press , **9**, **1**, **3**, **3**.
2. Use  to set the alert tone, then press  to save the change.
On / Off

1.4 Alerts

1. Press , **9**, **1**, **4**.

1.4.1 Service Change

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

1.4.2 Minute Beep

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

1.4.3 Call Connect



Alerts you when the call is connected.

1.4.4 Call Lost

Alerts you when the call is disconnected.

1.4.5 No Service

No service is supported.





2. Use  to set the alert setting, then press  to save the change.
On / Off

2. Display

Options to customize the phone's display screen.





2.1 Banner

Allows you to enter a string of up to 13 characters which display on the LCD screen.

1. Press , **9**, **2**, **1**.
2. Use  to select On, then press .
3. Enter your banner text, then press .





2.2 Wallpaper

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

1. Press , **9**, **2**, **2**.
2. Select a sub-menu and press .
 - 1** Main Display / **2** Front Display
3. Select from different images, then press .
4. Press Left Soft Key  [Set].




2.3 Backlight

Allows you to set the duration for illuminating the LCD backlight.

1. Press , **9**, **2**, **3**.
2. Select a sub-menu and press .
 - 1** Main Display / **2** Front Display
3. Use  to select a setting, then press  to save the change.
 - 7 Seconds / 15 Seconds / 30 Seconds / Always On / Always Off**





2.4 Keypad light

Allows you to set the duration for illuminating the phone's keypad.

1. Press , **9**, **2**, **4**.
2. Use  to select a setting, then press  to save the change.
 - 7 Seconds / 15 Seconds / 30 Seconds / Always On / Always Off**

2.5 Clock Format




Allows you to choose the clock format displayed on the LCD screen.

1. Press , **9**, **2**, **5**.
2. Select a sub-menu and press .
 - 1** Main Display / **2** Front Display
2. Use  to select the clock format, then press .
 - Main Display: Off / Small Digital / Big Digital / Analog**
 - Front Display: Normal / Analog / Minimize**

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2.6 Menu Style

Allows you to view the Menus as icons or in a list format.

1. Press , **9**, **2**, **6**.
2. Use  to select a menu format, then press .
Icon / List

2.7 Dialing font

Allows you to set the size and color of the font for calling digits.



1. Press , **9**, **2**, **7**.
2. Use  to choose a setting, then press .
Normal / Large

3. Games / Tools

3.1 Backlight Settings

Allows you to set the duration for illuminating the backlight.




1. Press , **9**, **3**, **1**.

2. Use  to select a setting, then press  to save the change.

7 Seconds / 15 Seconds / Always On / Always Off





3.2 Volume

Allows you to set volume settings.

1. Press , **9**, **3**, **2**.
2. Use  to adjust the volume, then press  to save the change.

3.3 Notifications

Allows you to set notification settings.

1. Press , **9**, **3**, **3**.
2. Select a sub-menu and press .
1 Voice Mail / **2** Messages
3. Use  to set the alert setting, then press  to save the change.
On / Off

4. Bluetooth™




The LG 490 is compatible with devices that support the Bluetooth headset and hands-free profile(s)*. You may create and store 20 pairings within the LG 490 and connect to one device at a time. The approximate communication range for Bluetooth wireless technology is up to 30 feet (10 meters).

NOTE

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

4.1 Power

Allows you to set the power On/Off.

1. Press , **9**, **4**, **1**.
2. Use  to select a setting, then press .

On / Off





NOTE

If you turn on My Visibility, your device is able to be searched by other in-range Bluetooth devices.



4.2 Device List

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

For pairing new Bluetooth device







1. Press , **9**, **4**, **2**.
2. Follow the Bluetooth accessory instructions to set the device to pairing mode.
3. Press Right Soft Key  for New. Select **Search New** **1**.
4. If Bluetooth is set to off, you will be prompted to turn power on. Select **Yes** **1**.
5. The device will appear in the Found Devices menu once it has been located. Highlight the device and press .
6. The handset will prompt you for the passkey. Consult the Bluetooth accessory instructions for the appropriate passkey (typically "0000"). Enter the passkey and press .

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- Once pairing is successful, select Yes  to connect with the device.
- Once connected, you will see the device listed in the Paired Devices menu and the Bluetooth connected icon  will show at the top of the LCD screen.

4.3 Discovery Mode







Allows you to set On (60 secs) / Off.

- Press , , , .
- Use  to select a setting, then press .
On(60 secs) / Off

NOTE







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

4.4 Device Scan

- Press , , , .
- Use  to select a menu, then press .
Scan Now / Always ON







4.5 Device Name

Allows you edit the name of the bluetooth name.

- Press , , , .
- Press  to clear the existing name.
- Use the numeric keypad to enter a new custom name.
- Press  to save and exit.



5. GPS

5.1 GPS Status

- Press , , , .
- Use  to select a setting, then press .
On / Emergency


5.2 GPS Privacy







- Press , , , .

2. Use  to select a setting, then press .
By Permission / Restricted / Unrestricted

6. Others

6.1 Nav. Key Shortcuts

Assign a shortcut to your favorite and most frequently used function. Select it from the list, and then access it directly by pressing  in standby mode.



1. Press , , , .
2. Read the disclaimer and press .
3. Select a menu and press .
Left Nav. Key / Right Nav. Key

6.2 Call Setup

6.2.1 Call Answer








Allows you to determine how to handle an answered call.

1. Press , , , , .

2. Use  to select a setting, then press .
Send Key / Any Key / Flip Open

6.2.2 Auto Answer

Allows you to set the length of the time before the phone automatically answers a call. This feature is intended for use with hands free devices, but is an independent feature of the phone and must be manually turned on/off when connected or disconnected from the device.



1. Press , , , , .
2. Use  to select a setting, then press .
Off / 2 Seconds / 4 Seconds / 8 Seconds

6.2.3 Auto Prepend

Allows you to add Dial 1+ Number to Options in recent calls list. If you choose Dial 1+ Number in recent calls list, Terminal displays dialing screen and shows 1+ Number on the screen regardless of calling digits condition.




1. Press , , , , .

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- Use  to select a setting, then press .
On / Off




6.2.4 Auto Redial

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

- Press , **9**, **6**, **2**, **4**.
- Use  to select a setting, then press .
Off / Every 10 Seconds / Every 30 Seconds / Every 60 Seconds

6.3 Language





Allows you to set the bilingual feature according to your preference. Choose between English and French.

- Press , **9**, **6**, **3**.
- Use  to select **English** or **French**, then press .

6.4 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.

* TTY : Text Telephone. (or Teletypewriter for Deaf).

- Press , **9**, **6**, **4**.
- Read the disclaimer and press .
- Use  to select a setting, then press .
TTY Full / TTY + Talk / TTY + Hear / TTY Off
- 1. TTY Full :**
Users who cannot talk and hear send and receive a text message through TTY equipment.
- 2. TTY + Talk :**
Users who can talk but cannot hear receive a text message and send voice through TTY equipment.
- 3. TTY + Hear :**
Users who can hear but cannot talk send a text message and receive voice through TTY equipment.

4. TTY Off :

Normal users send and receive without TTY equipment.

Connecting TTY Equipment and a Terminal

1. Connect a TTY cable to TTY connection on the terminal. (TTY connection location is same as the hands free ear jack)
2. Enter the phone menu and set up the desired TTY mode. (For a TTY mode, see the following)
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.




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	
TTY+ Hear	For verbally- impaired	audible	text message transmission, voice receiving	operator required
TTY Off	For regular users		voice transmission, voice receiving	

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6.5 Data Setup

6.5.1 Data/Fax

Allows you to use your phone to transmit data and faxes.

1. Press , **9**, **6**, **5**, **1**.
2. Use  to select a setting, then press .




Off / Fax In Once / Fax In Always / Data In Once / Data In Always

NOTE

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

6.5.2 PC Connection

Allows you to select the data port.

1. Press , **9**, **6**, **5**, **2**.
2. Use  to select a setting, then press .

USB / Bluetooth / Closed

NOTE

When using the 1X HSPD data service via a USB data cable, you may get better port speed if the port speed is set to 230,400 rather than 115,200.

6.6 Memory Info

Shows you the memory information of the phone.

6.6.1 Common Memory

1. Press , **9**, **6**, **6**, **1**.

6.6.2 Reserved Memory

1. Press , **9**, **6**, **6**, **2**.

7. System

Options for specific system network settings.

7.1 Phone Info

The Phone Info menu provides you with specific information pertaining to your phone model.

7.1.1 NAM

Allows you to view your phone number.

1. Press , **9**, **7**, **1**, **1**.

7.1.2 Software Version

Allows you to view the SW Version.

1. Press , **9**, **7**, **1**, **2**.

7.1.3 Hardware Version

Allows you to view the Hardware Version.

1. Press , **9**, **7**, **1**, **3**.

7.1.4 4ESN

Allows you to view the ESN.

1. Press , **9**, **7**, **1**, **4**.

7.1.5 PRL

Allows you to view the PRL Version.

1. Press , **9**, **7**, **1**, **5**.

7.1.6 Browser Version

Allows you to view the Browser Version.

1. Press , **9**, **7**, **1**, **6**.

7.1.7 Serving System

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

1. Press , **9**, **7**, **1**, **7**.

7.1.8 Icon Glossary

Allows you to view all the icons and their meanings.

1. Press , **9**, **7**, **1**, **8**.

7.1.9 Brew Version

Allows you to view the Brew Version.

1. Press , **9**, **7**, **1**, **9**.

7.2 System




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

7.2.1 Set Mode

Allows you to set up the phone producer's management environment. Leave the default setting




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unless you want to alter the system selection as instructed by your service provider.

1. Press , **9**, **7**, **2**, **1**.
2. Use  to select a setting, then press .
Home Only / Automatic A / Automatic B




7.2.2 Set NAM

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

1. Press , **9**, **7**, **2**, **2**.
2. Use  to select a NAM, then press .
NAM 1 / NAM 2

7.2.3 Call Guard

Call Guard alerts you when roaming charges apply.


1. Press , **9**, **7**, **2**, **3**.
2. Use  to select a setting, then press .
On / Off

7.3 Security



Allows you to secure the phone electronically.

7.3.1 Lock Phone

Keeps your phone from unauthorized use. Once the phone is locked, it is in restricted mode until the lock code is entered. You can receive phone calls and still make emergency calls. You can modify the lock code using the New Lock code within the Security menu.

1. Press , **9**, **7**, **3**.
2. Enter the 4-digit password.

The lock code is commonly the last 4 digits of your phone number.

3. Press **1** **Lock Phone**.
4. Use  to select a setting, then press .

- | | |
|--------------------|---|
| Unlock | The phone is never locked. |
| Lock | The phone is always locked. When locked, you can only receive incoming calls or make emergency calls. |
| On Power Up | The phone is locked when it is turned on. |

7.3.2 Change Lock Code

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

1. Press , **9**, **7**, **3**.

2. Enter the 4-digit password.

The lock code is commonly the last 4 digits of your phone number.

3. Press **2** **Change Lock Code**.

4. Enter a old four-digit lock code.

5. Enter a new four-digit lock code.

6. Enter the new lock code again to confirm the original entry.

7.3.3 Reset Defaults

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

1. Press , **9**, **7**, **3**.

2. Enter the 4-digit password.

The lock code is commonly the last 4 digits of your phone number.

3. Press **3** **Reset Defaults**.



4. Read the screen message, then press .

5. Press **1** **Revert** to change your phone settings back to the factory defaults or press **2** **Cancel** to exit without changing.

8. Airplane Mode

Airplane Mode allows you to use many of your phone's features, such as Games, Notepad, Voice Memos, etc., when you are in an airplane or in any other area where making or receiving calls or data is prohibited. When your phone is in Airplane Mode, it cannot send or receive any calls or access online information.

1. Press , **9**, **8**.

2. Use  to select a setting, then press .

On / Off

SAFETY

TIA(Telecommunications Industry Association) 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 it is ON, it receives and also sends out Radio Frequency (RF) signals. In August, 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for 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)
- Health Canada, Safety Code 6, 1999.

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, IC Regulations (and those standards).

Antenna Care

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

Phone Operation

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

Tips on Efficient Operation

For your phone to operate most efficiently:

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

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 so require.

Electronic Devices

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

Pacemakers

The Health Industry Manufacturers Association recommends that a minimum separation of six 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 inches from their pacemaker when the phone is turned ON;
- Should not carry the phone in a breast pocket;
- Should use the ear opposite the pacemaker to minimize the potential for interference;
- Should turn the phone OFF immediately if there is any reason to suspect that interference is taking place.

Hearing Aids

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

Optional for each phone manufacturer.

Other Medical Devices

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

Health Care Facilities

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

Vehicles

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

Posted Facilities

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

Aircraft

FCC and Transport Canada 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.

Charger and Adapter Safety

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

Battery Information and Care

- Please dispose of your battery properly or take it to your local wireless carrier for recycling.
- Do not dispose of your battery by fire or with hazardous or flammable materials..
- Never use an unapproved battery since this could damage the phone and/or battery and could cause the battery to explode.
- The battery does not need to be fully discharged 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, MiniBrowser, and data connectivity kits affect battery life and talk/standby times.
- Make sure that no sharp-edged items such as animal's teeth, nails, come into contact with the battery. There is a risk of this causing a fire.
- Do not use harsh chemicals (such as alcohol, benzene, thinners, etc.) or detergents to clean your phone. There is a risk of this causing a fire.
- 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 activated, you may be seriously injured.
- 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 drop, strike, or shake your phone severely. Such actions may harm the internal circuit boards of the phone.
- 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.
- Do not use your phone in high explosive areas as the phone may generate sparks.

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's guide in an accessible place at all the times after reading it.

Explosion, Shock, and Fire Hazards

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

- Do not put your phone in a place subject to excessive dust and keep the minimum required distance between the power cord and heat sources.
- Unplug the power cord prior to cleaning your phone, and clean the power plug pin when it is dirty.
- Do not damage the power cord by bending, twisting, pulling, or heating. Do not use the plug if it is loose as it may cause a fire or electric shock.
- When using the power plug, ensure that it is firmly connected. If it is not, it may cause excessive heat or fire.
- Do not place any heavy items on the power cord. Do not allow the power cord to be crimped as it may cause fire or electric shock.
- Do not disassemble the phone.
- Do not place or answer calls while charging the phone as it may short-circuit the phone and/or cause electric shock or fire.
- If you put your phone in a pocket or bag without covering the receptacle of the phone (power plug pin), metallic articles (such as a coin, paperclip or pen) may short-circuit the phone. Always cover the receptacle when not in use.

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

General Warnings and Cautions

- Only use the batteries, antennas, and chargers provided by LG. The warranty will not be applied to products provided by other suppliers.
- Store the battery in a place out of reach of children.
- Using a damaged battery or placing a battery in your mouth may cause serious injury.
- Do not place items containing magnetic components such as a credit card, phone card, bank book or subway ticket near your phone. The magnetism of the phone may damage the data stored in the magnetic strip.
- Do not hold or let the antenna come in contact with your body during a call.

- Talking on your phone for a long period of time may reduce 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.
- Only authorized personnel should service the phone and its accessories. Faulty installation or service may result in accidents and consequently invalidate the warranty.
- 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 use the phone in areas where its use is prohibited. (For example: aircraft).
- 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.

FDA Consumer Update



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

1. Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radiofrequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the 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 radiofrequency energy (RF) at a level that is hazardous to the user. In such a case, the FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace, or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions, the FDA has urged the wireless phone industry to take a number of steps, including the following:

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

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

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

- 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 radiofrequency energy (RF) because of the short distance between the phone and the user’s head. These RF exposures are limited by FCC safety guidelines that were developed with the advice of the FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person’s RF exposure decreases rapidly with increasing distance from the source. The so-called “cordless phones,” which have a base unit

connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures far below the FCC safety limits.

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

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radiofrequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don’t know with certainty what the results of

such studies mean for human health. Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

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

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

is directly applicable to human populations, but 10 or more years follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop — if they do — may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

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

The FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radio frequency energy (RF). The FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs

that has driven the establishment of new research programs around the world. The project has also helped develop a series of public information documents on EMF issues. The FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. The FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts with independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

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

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radio frequency energy (RF) exposures. The FCC established these guidelines in consultation with the FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wireless telephones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless phone and is set well below levels known to have effects. Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (<http://www.fcc.gov/oet/rfsafety>) gives directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

8. What has the FDA done to measure the radio frequency energy coming from wireless phones?

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radio frequency energy (RF) exposure from wireless phones and other wireless handsets with the participation and leadership of FDA scientists and engineers. The standard, “Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques,” sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissuesimulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guidelines.

9. What steps can I take to reduce my exposure to radio frequency energy from my wireless phone?

If there is a risk from these products — and at this point we do not know that there is — it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radio frequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure. If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna. Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

10. What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radio frequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure. Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

11. What about wireless phone interference with medical equipment?

Radio frequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, the FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical Instrumentation (AAMI). The final draft, a joint effort by the FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. The FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a “compatible” phone and a “compatible” hearing aid at the same time. This standard was approved by the IEEE in 2000. The

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

12. Where can I find additional information?

For additional information, please refer to the following resources:

FDA web page on wireless phones
(<http://www.fda.gov/cdrh/phones/index.html>)

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

International Commission on Non-Ionizing Radiation Protection
(<http://www.icnirp.de>)

World Health Organization (WHO) International EMF Project
(<http://www.who.int/emf>)

National Radiological Protection Board (UK)
(<http://www.nrpb.org.uk/>)

Consumer Information on SAR

(Specific Absorption Rate)

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

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 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 1.16 W/kg and when worn on the body, as described in this user guide, is 0.936 W/kg (body-worn measurements differ among phone models, depending upon available accessories and FCC/IC 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 BEJAX490. Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) website at <http://www.wow-com.com>.

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

ACCESSORIES

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

Battery Charger

The battery charger allows you to charge your phone.



Battery

Standard battery is available.



Vehicle Power Charger

The vehicle power charger 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.



Headset

Connects to your phone, allowing hands-free operation. Includes earpiece, microphone, and integrated call answer / termination button. You can use this stereo headset to listen to music through music player.



Holster



WARRANTY INFORMATION

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 ONE (1) year beginning on the date of purchase of the product by the original end user.
- (2) The limited warranty extends only to the original end user of the product and is not assignable or transferable to any subsequent purchaser/end user.
- (3) This warranty is good only to the original end user of the product during the warranty period as long as it is in Canada.
- (4) Upon request from LG, the consumer must provide information to reasonably prove the date of purchase.
- (5) During the applicable warranty period, LG will repair or replace at LG's sole option, without charge to the original end user, any defective component part of the phone or accessory.
- (6) LG may, use rebuilt, reconditioned, or new parts or components when repairing any product or replace a product with a rebuilt, reconditioned or new product.

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 spills of food or liquids.
- (3) Breakage or damage to antennas unless caused directly by defects in material or workmanship.
- (4) If the carrier's or manufacturer's Customer Service Centre was not notified by the end user of the alleged defect or malfunction of the product, during the warranty period.

- (5) Products which have had their serial numbers removed or made illegible.
- (6) Damage resulting from use of non-LG approved accessories.
- (7) All plastic surfaces and all other externally exposed parts that are scratched or damaged due to normal customer use.
- (8) Products serviced by non-authorized persons or companies.

Notes:

- (1) 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 merchantability or fitness for a particular purpose.
- (2) Shipping damage is the sole responsibility of the shipping company.

3. EXCLUSION OF LIABILITY :

No other express warranty is applicable to this product. THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN. LG ELECTRONICS CANADA, 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 MERCHANTABILITY APPLICABLE TO THIS PRODUCT.

4. HOW TO GET WARRANTY SERVICE :

To obtain warranty service, please call the following telephone number from anywhere in Canada:

LG Electronics Canada, Inc.

Tel. 1-888-542-2623