

LG Electronics

# Bluetooth® Stereo Speaker

## MSB-100

***User Manual***

English

(Image)

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LG Electronics Inc., 2007

Note: For the best performance and to prevent any damage to, or misuse of the MSB-100, please read all of the information carefully prior to using the MSB-100

Any modifications or changes to this manual due to typographical errors or inaccuracies of stated information shall only be made by LG Electronics Inc.



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## 2. Introduction

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The LG Bluetooth® Stereo Speaker MSB-100 is a wireless Stereo Speaker utilizing Bluetooth® technology. This product can be used as an audio accessory for devices supporting either the A2DP or Handsfree Bluetooth® Profiles.

### **Included in package**

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(Image)

## 3. Part description

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(Image)

## 4. How to use

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### 4.1. Charging

- Remove the cover on the charging port and connect the charger.
- While charging, the LED indicator will show a solid red light.
- The speaker can function while charging.
- It takes 3 hours to fully charge the Speaker.
- When charging is complete, the LED indicator will turn off.

## 4.2. Low battery

- The LED indicator will blink red when the battery power is low. (Red LED replaces Blue LED as status indicator.)
- When the battery is not charged, the LED indicator will blink red and then turn off.

## 4.3. Power on

- Press and hold the PWR/END button for at least 2 seconds.
  - ✓ The MSB-100 will be turned on and a booting tone will play.

## 4.4. Power off

- Press and hold the PWR/END button for at least 5 seconds.
  - ✓ A shutdown tone will play, the Bluetooth link will be disconnected, and the MSB-100 will be turned off.

## 4.5. Pairing

- Prior to using the Speaker for the first time, you must pair it with a Bluetooth-enabled handset.
- With the MSB-100 off, press and hold the PWR/END button for 5 seconds.
  - ✓ You will hear four short beeps and the LED indicator will flicker in blue LED and red LED alternately, when the device enters Pairing Mode.
    - ▶ Using your Handset, find the Bluetooth Menu and "search for" or "add" new devices.
    - ▶ Select "LG MSB-100" from the list of devices and pair it with your handset.
    - ▶ When asked for the Pass/PIN code during the pairing procedure, please enter "0000" (4Zeros).
  - ✓ Once pairing has completed successfully, you will hear a beep.
    - ▶ After pairing successfully, be sure to "Connect" to the MSB-100.
  - ✓ If you want to pair with other devices in the future, the MSB-100 must be in Pairing Mode.
  - ✓ If the MSB-100 is in "Pairing Mode" for 3 minutes without being paired to a device, the Speaker will automatically turn off.

## 4.6. Easy pairing

- With the MSB-100 off, Press and hold the PWR/END button for 2 seconds.
  - ✓ If the MSB-100 has ever connected with the Handset, It will try to connect to the handset automatically.
  - ✓ If the MSB-100 doesn't have ever connected with any devices or it fails to connect to the handset by the several reasons, it will change the mode to pairing mode. The details about pairing mode are described above (4.5. Pairing) and the connecting sequences are the same.

## 4.7. Connecting

There are two ways to connect the "MSB-100" to a Handset.

1. Connecting from a Handset to a MSB-100
  - ▶ From the Bluetooth menu, select the "connect" sub-menu.

- ▶ Select a “LG MSB-100” you want to connect.
2. Connecting from a MSB-100 to a Handset
- ▶ Press PWR/END button.
  - ▶ If a “MSB-100” has ever paired with a Bluetooth device successfully, such as a mobile phone, it would initiate a connection with it automatically.

#### **[Auto Reconnect]**

When the MSB-100 turns off accidentally or intentionally during connected condition, the speaker and handset will disconnect.

The Stereo speaker and handset will automatically reconnect without pairing when the MSB-100 turns on.

#### **[out of range]**

- When the MSB-100 and your handset are separated by a distance of 33 feet (10meters) or more, the MSB-100 and handset will disconnect. When the handset and MSB-100 are brought back within the required distance, the MSB-100 will automatically reconnect with the handset.
- If the MSB-100 and handset do not automatically reconnect when they are back within the required range, briefly press the PWR/END button to reconnect manually.

### **4.8. Volume control**

- Briefly press the VOLUME UP or VOLUME DOWN button to adjust the speaker volume.
- There are eight levels of speaker volume in handsfree mode.
- There are fifteen levels of speaker volume in audio streaming mode.

### **4.9. Audio streaming**

#### **4.9.1. PLAY**

- Briefly press the PLAY button to play the music

#### **4.9.2. PAUSE**

- Briefly press the PLAY button to pause the music.
- For some cell phone or MP3 player, pressing PLAY button once may not pause the music, then press Play button twice quickly to pause the music.

#### **4.9.3. STOP**

- Press and hold the PLAY button for 1 second to stop the music

#### **4.9.4. FWD**

- Briefly press the FWD button for playing the next music.

#### **4.9.5. BACK**

- Briefly press the BACK button for playing the previous music.

#### **4.9.6. Fast Forward**

- Press and hold the FWD button. On the release, the music will be played again.

#### **4.9.7. Rewind**

- Press and hold the BACK button. On the release, the music will be played again.

### **4.10. Calling**

#### **4.10.1. Answering a call**

- When there is an incoming call, the MSB-100 will ring.
- Briefly press the PWR/END button to answer an incoming call.

#### **4.10.2. Making a call**

- If you make a call from the Handset, the call will (subject to phone settings) transfer automatically to the MSB-100. If not automatically transferred, you can transfer the call manually by briefly pressing the PWR/END button on the MSB-100 (speaker and handset must be paired).

#### **4.10.3. Voice dialing\***

- Briefly press the PWR/END button. You will get the best results if you record the voice dialing tag through your MSB-100.

NOTE: If the Handset does not support the Voice Dial, the MSB-100 will activate the last number redialing.

#### **4.10.4. Last number redial\***

- Press and hold the PWR/END button for 1 second to activate "Last Number Redial".  
The Speaker will beep. and call the last number dialed.

#### **4.10.5. Ending a call**

- Briefly press the PWR/END button.

#### 4.10.6. Transferring a call\*

While on a call on your handset, briefly press the PWR/END button on the MSB-100 to transfer the Audio to the Speaker, (speaker and handset must be paired)

And to transfer a call from the Speaker to Handset, press and hold PLAY button for 1 second.

#### 4.10.7. Call waiting\*

- Answer a second call without hanging up the first call by pressing the PWR/END button for 1 second. Press the PWR/END button for 1 second to return to the original call.

- Briefly press the PWR/END button to terminate the active call.

#### 4.10.8. Call rejecting\*

- Activate call rejecting by pressing the PWR/END button for 1 second when the Handset rings.

#### 4.10.9. SPEAKER Mute

- Briefly press the Mute button for speaker off during the ring. For removal briefly press the Mute button

#### 4.10.10. MIC Mute

- Briefly press the Mute button for mic off during the talking. For removal briefly press the Mute button

\* It is possible to use these functions only when your Handset supports them.

For further information about using these features please consult your Handset's user manual.

## 5. Summary of Button functions

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Function	MSB-100 status	Action
Power On	Power Off	Press the PWR/END button for at least 2 seconds
Power Off	Power On	Press the PWR/END button for at least 5 seconds
Volume Up	Talking	Briefly press the VOLUME UP button
Volume Down	Talking	Briefly press the VOLUME DOWN button

Play	Play off	Briefly press the PLAY button
Pause	Play on	Briefly press the PLAY button twice quickly
Stop	Play on	Press the PLAY button for 1 second
Fwd	Play on	Briefly press FWD button
Back	Play on	Briefly press RWD button
Fast forward	Play on	Press and hold the FWD button
Rewind	Play on	Press and hold the BACK button.
Answering a call	Ringing	Briefly press the PWR/END button
Ending a call	Talking	Briefly press the PWR/END button
Call waiting	Talking	Press the PWR/END button for 1 second
Transferring a call	Talking	Press the play button for at least 1 second
Last number redialing	Idle	Press the PWR/END button for 1 second
Voice dialing (Handset must support)	Idle	Briefly press the PWR/END button
Call rejecting	Ringing	Press the PWR/END button for 1 second
Speaker mute On/Off	Ringing	Briefly press the Mute button
MIC mute On/Off	Talking	Briefly press the Mute button
Pairing mode	Power Off	Press the PWR/END button for 5 seconds

## 6. LED indication

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Functions	MSB-100 status	LED status
Operating	Power On	The blue LED light flickers fast 5 times.
	Power Off	The blue LED light flickers fast 5 times.
	Pairing mode	The blue and red LED light flicker in turn continuously
	A2DP/AVRCP/Handsfree/Headset Profile Connected	The blue LED light flickers twice every 5 seconds.
	Call Connected	The blue LED light flickers twice every 5 seconds.
	Unintentional Link Loss (until the lost link is recovered)	The blue and red LED light flickers once every 5 seconds.
	Hold	When pressing a button during the hold status, the blue LED light flickers fast 5 times.



Charging	Charging	The red LED is lit.
	Charging Complete	The red LED is turned off.

## 7. Troubleshooting

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Does not turn on	Check whether the battery of the MSB-100 is fully discharged.	Charge the battery.
Unable to communicate with the MSB-100	Check whether the Handset supports the Headset/Handsfree/A2DP/AVRCP Bluetooth Profiles.	Determine whether your Handset supports the Headset/Handsfree/A2DP/AVRCP Bluetooth Profiles.
	Check whether the battery of the MSB-100 is low	Charge the battery.
Unable to pair the MSB-100 with the Bluetooth device.	Check and make sure the Speaker is on.	Press the PWR/END button for at least 2 seconds to turn on the Speaker.
	Check and make sure the Speaker is placed in pairing mode.	With the power off, press and hold the PWR/END button for at least 5 seconds to place the Speaker in pairing mode.
Low sound (speaker)	Check the speaker volume.	Increase the volume level.

## 8. Specification

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ITEM	Description
Bluetooth Specification	V2.0 (Headset/Handsfree/A2DP/AVRCP)
Battery	3.7V, Li-Polymer
Standby Time	?
Music play time	Up to 8Hrs
Talk Time	Up to 30Hrs
Charging Time	3Hrs

Operating Temperature	-20°C ~ 60°C
Dimension/Weight	110.3 x 36.8 x 25.8 / 113.0g

## 9. Precautions

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1. Do not drop the unit from high places.
  2. Do not modify, repair & take a part.
  3. Do not expose directly to the water, alcohol, benzene, etc. for clearing.
  4. Do not expose directly to flammables.
  5. Do not place or keep the unit near the flammables.
  6. Keep unit away from humidity & dust.
  7. Do not place the heavy objects on the unit.
  8. Keep away from direct light or heat.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
  - Risk of explosion if the battery is replaced by an incorrect type.
  - Dispose of used batteries according to the instructions.

## 10. Declaration of Confirmation

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### FCC NOTICE TO USERS:

This device complies with part 15 of the FCC rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

## 11. Additional Information

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### 1. Radio frequency exposure

This Bluetooth Stereo Speaker, MSB-100, is a radio transmitter and receiver. When in operation, it communicates with a Bluetooth equipped mobile device by receiving and

transmitting radio frequency (RF) electromagnetic fields (microwaves) in the frequency range 2.4 to 2.4835 GHz. The output power of the radio transmitter is low, 0.001 watt. Your Bluetooth Stereo Speaker is designed to operate in compliance with the RF exposure guidelines and limits set by national authorities and international health agencies when used any compatible LG Electronics mobile phone.

2. Potentially explosive atmosphere

Turn off your electronic device when in any area with a potentially explosive atmosphere. It is rare, but your electronic device could generate sparks. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Areas with a potentially explosive atmosphere are often, but not always, clearly marked.

3. Emergency calls

**IMPORTANT!**

This Bluetooth Stereo Speaker and the electronic device connected to the Stereo Speaker operate using radio signals, cellular and landline networks as well as user-programmed functions, which cannot guarantee connection under all conditions. Therefore you should never rely solely upon any electronic device for essential communications (e.g. medical emergencies).

Remember, in order to make or receive calls, the Stereo Speaker and the electronic device connected to the Stereo Speaker must be switched on and in a service area with adequate cellular signal strength. Emergency calls may not be possible on all cellular phone networks or when certain network services and/or phone features are in use. Check with your local service provider.

4. Battery information

A rechargeable battery has a long service life if treated properly. A new battery or one that has not been used for a long period of time could have reduced capacity the first few times it is used. Do not expose the battery to extreme temperatures, never above +60°(+140°F) or under -20°(-4°F). For maximum battery capacity, use the battery in room temperature. If the battery is used in low temperatures, the battery capacity will be reduced. The battery can only be charged in temperatures between +10° (+50 °F) and +45° (+113°F).

5. Recycling the battery in your Bluetooth Stereo Speaker

The battery in your Bluetooth Stereo Speaker must be disposed of properly and should never be placed in municipal waste. The LG Electronics service partner removing battery will dispose of it according to local regulations.

6. Conditions

- The warranty is valid only if the original receipt issued to the original purchaser by the dealer, specifying the date of purchase and serial number, is presented with the product to be repaired or replaced. LG Electronics reserves the right to refuse warranty service if this information has been removed or changed after the original purchase of the product from the dealer.

- If LG Electronics repairs or replaces the product, the repaired or replaced product shall be warranted for the remaining time of the original warranty period or for ninety (90) days from the date of repair, whichever is longer. Repair or replacement may involve the use of functionally equivalent reconditioned units. Replaced parts or components will become the property of LG Electronics.
- This Warranty does not cover any failure of the product due to normal wear and tear, or due to misuse, including but not limited to use in other than the normal and customary manner, in accordance with instructions for use and maintenance of the product. Nor does this warranty cover any failure of the product due to accident, modification or adjustment, acts of God or damage resulting from liquid.
- This warranty does not cover product failures due to improper repair installations, modifications or service performed by a non-LG Electronics authorized person.
- Tampering with any of the seals on the product will void the warranty.
- There are no express warranties, whether written or oral, other than this printed including without limitation the implied warranties of merchantability or fitness for a particular purpose, are limited to the duration of this limited warranty. In no event shall LG electronics or its vendors be liable for incidental or consequential damages of any nature whatsoever, including but not limited to lost profits or commercial loss, to the full extent those damages can be disclaimed by law.

Some countries/states do not allow the exclusion or limitation of incidental or consequential damages, or limitation of the duration of implied warranties, so the preceding limitations or exclusions may not apply to you. The warranty provided does not affect the consumer's statutory rights under applicable national legislation in force, nor the consumer's rights against the dealer arising from their sales/purchase contract.

## **12. Limited Warranty**

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Subject to the conditions of this Limited Warranty, LG Electronics warrants this product to be free from defects in design, material and workmanship at the time of its original purchase by a consumer, and for a subsequent period of one (1) year. Should your product need warranty service, please return it to the dealer from whom it was purchased or contact your local LG Electronics contact center to get further information.

## **13. Hearing Safety**

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## LIMITED WARRANTY STATEMENT

### 1. WHAT THIS WARRANTY COVERS:

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

- (1) The limited warranty for the product extends for ONE (1) year beginning on the date of purchase of the product.
- (2) The limited warranty extends on to the original purchaser of the product and is not assignable or transferable to any subsequent purchaser/end user.
- (3) This warranty is good only to the original purchaser of the product during the warranty period as long as it is in the U.S., including Alaska, Hawaii, U.S. Territories and Canada.
- (4) The external housing and cosmetic parts shall not be covered under these limited warranty terms.
- (5) Upon request from LG, the consumer must provide information to reasonably prove the date of purchase.
- (6) The customer shall bear the cost of shipping the product to the Customer Service Department of LG. LG shall bear the cost of shipping the product back to the consumer after the completion of service under this limited warranty.

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

- (1) Defects or damages resulting from use of the product in other than its normal and customary manner.
- (2) Defects or damages from abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, unauthorized modifications, unauthorized connections, unauthorized repair, misuse, neglect, abuse, accident, alteration, improper installation, or other acts which are not the fault of LG, including damage caused by shipping blown fuses spills of food or liquid.
- (3) Breakage or damage to antennas unless caused directly by defects in material or workmanship.
- (4) That the Customer Service Department at LG was not notified by consumer of the alleged defect or malfunction of the product during the applicable limited warranty period.
- (5) Products which have had the serial number removed or made illegible.
- (6) The limited warranty is in lieu of all other warranties, express or implied either in fact or by operations law, statutory or otherwise, including, but limited to any implied warranty of marketability or fitness for a particular use.
- (7) Damage resulting from use of non-LG approved accessories.
- (8) All plastic surfaces and all other externally exposed parts that are scratched or damaged due to normal customer use.
- (9) Products operated outside published maximum ratings.  
3
- (10) Products used or obtained in a rental program.
- (11) Consumables (such as fuses).

### 3. STATE LAW RIGHTS:

No other express warranty is applicable to this product. THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MARKETABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN. LG INFOCOMM INC. SHALL NOT BE LIABLE FOR THE LOSS OF THE USE OF THE PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES, DIRECT OR CONSEQUENTIAL, ARISING OUT OF THE USE OF, OR INABILITY TO USE, THIS PRODUCT OR FOR ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING THE IMPLIED WARRANTY OF MARKETABILITY APPLICABLE TO THIS PRODUCT. Some states do not allow the exclusion of incidental or consequential damages or limitations on how long an implied warranty lasts; so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

### 4. HOW TO GET WARRANTY SERVICE:

To obtain warranty service, please call the following web address:  
[www.lgeservice.com](http://www.lgeservice.com)

# For Your Safety

## Important Information

This user guide contains important information on the use and operation of this phone. Please read all the information carefully for optimal performance and to prevent any damage to or misuse of the phone. Any changes or modifications not expressly approved in this user guide could void your warranty for this equipment.

## Before You Start

### Safety Instructions

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

**Always store your phone away from heat.** Never store your phone in settings that may expose it to temperatures less than 32°F or greater than 104°F, such as outside during extreme weather conditions or in your car on a hot day. Exposure to excessive cold or heat will result in malfunction, damage and/or catastrophic failure.

**Be careful when using your phone near other electronic devices.** RF emissions from your mobile phone may affect nearby in adequately shielded electronic equipment. You should consult with manufacturers of any personal medical devices such as pacemakers and hearing aides to determine if they are susceptible to interference from your mobile phone.

Turn off your phone in a medical facility or at a gas station. Never place your phone in a microwave oven as this will cause the battery to explode.

**IMPORTANT!** Please read the TIA SAFETY INFORMATION on page 78 before using your phone.

### Safety Information

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

- ▶ Never use an unapproved battery since this could damage the phone and/or battery and could cause the battery to explode.
- ▶ Never place your phone in a microwave oven as it will cause the battery to explode.
- ▶ Do not dispose of your battery by fire or with hazardous or flammable materials.
- ▶ Make sure that no sharp-edged items come into contact with the battery. There is a risk of this causing a fire.
- ▶ Store the battery in a place out of reach of children.
- ▶ Be careful that children do not swallow any parts such as rubber plugs (earphone, connection parts of the phone, etc.). This could cause asphyxiation or suffocation.

- ▶ Unplug the power cord and charger during lightning storms to avoid electric shock or 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 use a hand-held phone while driving.
- ▶ Do not use the phone in areas where its use is prohibited. (For example: aircraft).
- ▶ Do not expose the battery charger or adapter to direct sunlight or use it in places with high humidity, such as a bathroom.
- ▶ Never store your phone in temperatures less than -4°F or greater than 122°F.
- ▶ 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.
- ▶ Do not drop, strike, or shake your phone severely. Such actions may harm the internal circuit boards of the phone.
- ▶ Do not use your phone in high explosive areas as the phone may generate sparks.
- ▶ Do not damage the power cord by bending, twisting, pulling, or heating. Do not use the plug if it is loose as it may cause a fire or electric shock.
- ▶ Do not place any heavy items on the power cord. Do not allow the power cord to be crimped as it may cause fire or electric shock.
- ▶ Do not handle the phone with wet hands while it is being charged. It may cause an electric shock or seriously damage your phone.
- ▶ Do not disassemble the phone.
- ▶ Do not place or answer calls while charging the phone as it may short-circuit the phone and/or cause electric shock or fire.
- ▶ Only use the batteries, antennas, and chargers provided by LG. The warranty will not be applied to products provided by other suppliers.
- ▶ Only authorized personnel should service the phone and its accessories. Faulty installation or service may result in accidents and consequently invalidate the warranty.
- ▶ Do not hold or let the antenna come in contact with your body during a call.
- ▶ 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.



### **FCC RF Exposure Information**

**WARNING!** Read this information before operating the phone. In August 1996, the Federal Communications (FCC) of the United States, with its action in Report and Order FCC 96-326, adopted an updated safety standard for human exposure to radio frequency (RF) electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies.

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

### **CAUTION**

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

### **Body-worn Operation**

This device was tested for typical body-worn operations with the back of the phone kept 0.79 inches (2.0cm) between the user's body and the back of the phone. To comply with FCC RF exposure requirements, a minimum separation distance of 0.79 inches(2.0cm) must be maintained between the user's body and the back of the phone. Third-party belt-clips, holsters, and similar accessories containing metallic components should not be used. Body-worn accessories that cannot maintain 0.79 inches(2.0cm) separation distance between the user's body and the back of the phone, and have not been tested for typical body-worn operations may not comply with FCC RF exposure limits and should be avoided.

### **Vehicle Mounted External Antenna (optional, if available)**

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

### **Cautions for Battery**

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

### **Battery Disposal**

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

### **Adapter (Charger) Cautions**

- ▶ Using the wrong battery charger could damage your phone and void your warranty.
- ▶ The adapter or battery charger is intended for indoor use only.

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