

SGH-T404G

M O B I L E P H O N E

User Manual

**Please read this manual before operating your
phone, and keep it for future reference.**



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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 phones employs a unit of measurement known as Specific Absorption Rate (SAR). The SAR limit set by the FCC is 1.6 W/kg. The highest SAR values for this model phone were Head: 0.57 W/kg, Body-worn: 0.74 W/kg.

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Section 1: Getting Started

This section explains how to start using your phone by first configuring your hardware, activating your service, and then setting up your voice mail.

Activating Your Phone

When you subscribe to a cellular network, you are provided with a plug-in SIM card loaded with your subscription details, such as your PIN, available optional services, and many others features.

Installing the SIM Card

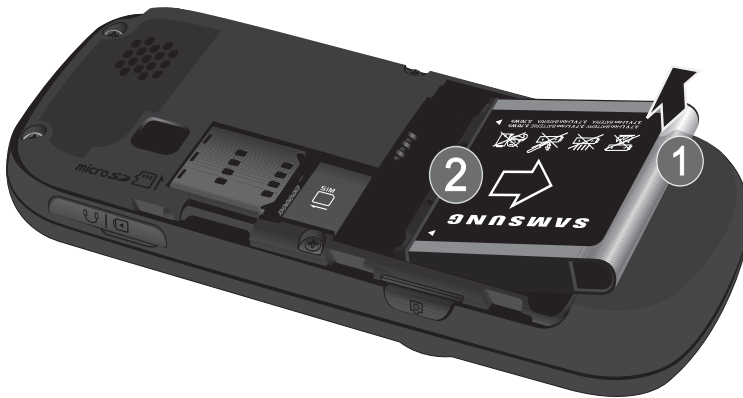
Important!: The plug-in SIM card and its contacts information can be easily damaged by scratching or bending, so be careful when handling, inserting, or removing the card. Keep all SIM cards out of reach of small children.

If necessary, switch off the phone by holding down the  key until the power-off image displays.

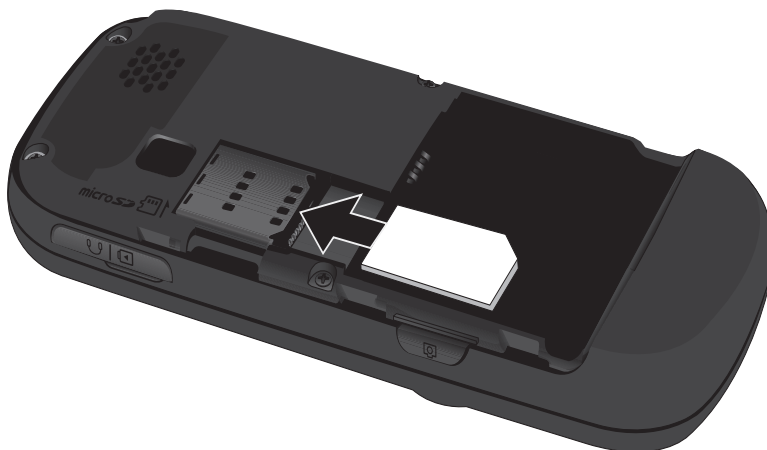
1. Remove the battery cover by sliding it in the direction of the arrow (1).



2. Carefully lift the battery cover away from the bottom of the phone (2).
3. Lift up and remove the battery.



4. Carefully slide the SIM card under the metal bracket and into the SIM card socket until the card locks into place. Make sure that the card's gold contacts face into the phone and that the angled corner of the card is positioned as shown below.



Note: If the card is not inserted correctly, the phone does not detect the SIM card. Remove the battery and re-orient the card back into the slot.

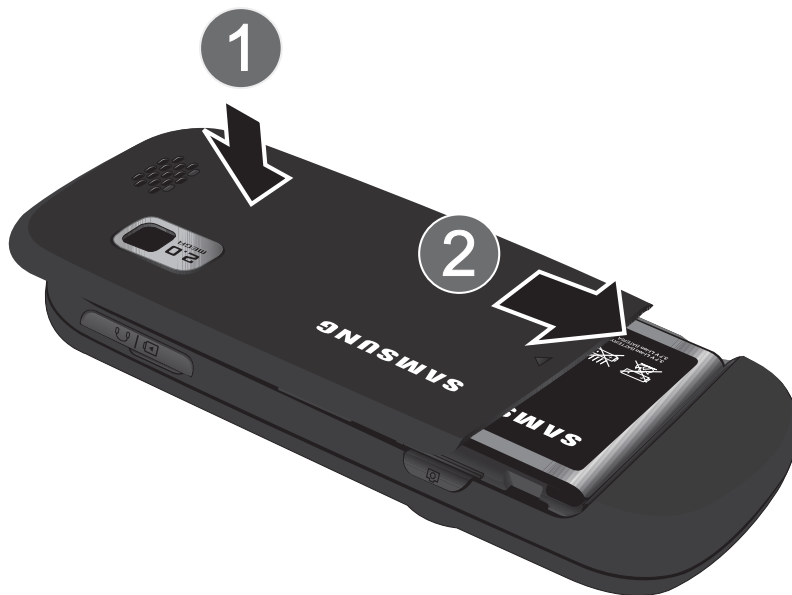
5. Replace the battery:

- Slide the battery back into the compartment so that gold contacts on the battery match those of the phone compartment.
- Press the battery down until it clicks into place.



6. Reinstall the battery cover by sliding it back onto the phone until you hear it securely click.

Note: Make sure the battery is properly installed before switching on the phone.



Charging a Battery

Your phone is powered by a rechargeable Li-ion battery. A travel adapter, which is used for charging the battery, is included with your phone. Use only approved batteries and chargers. Ask your local Samsung dealer for further details.

You can use the phone while the battery is charging, but doing so requires additional charging time.

Note: You must fully charge the battery before using your phone for the first time. A discharged battery recharges fully in approximately 4 hours.

1. With the battery installed, temporarily remove the plastic cover on the right side of the phone and plug in the travel adapter's connector into the jack.

Important!: Verify that the handset battery is installed prior to connecting the travel adapter. If the battery is not installed and the travel adapter is connected, the handset continuously power cycles and prevents proper operation.

2. Plug the adapter's power plug into a standard AC wall outlet.



Note: The previous illustration displays the **incorrect** method for connecting the charger. If attempted, damage to the accessory port occurs therefore voiding the phone's warranty.

3. When charging is finished, unplug the adapter's power plug from the AC wall outlet and then disconnect the travel adapter's connector from the phone.
4. Replace the plastic cover over the interface jack on the phone.

Warning!: Failure to unplug the travel adapter before you remove the battery, can cause damage to the phone.

Low Battery Indicator

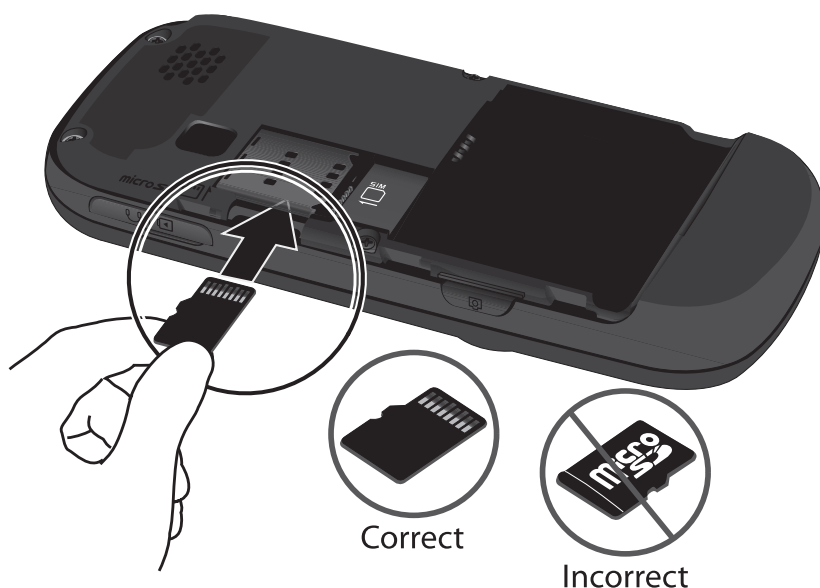
When the battery is weak and only a few minutes of talk time remain; a warning tone sounds and the “Battery low” message repeats at regular intervals on the display. In this condition, your phone conserves its remaining battery power, not by turning off the backlight, but by entering the dimming mode. When the battery level becomes too low, the phone automatically turns off.

Installing the microSD Card

To add additional memory to your phone, you can insert a microSD™ card into the memory card slot, located on the lower right side of the phone. Use the following instructions and illustrations for proper insertion and removal.

Note: Please note that the maximum size microSD™ card tested to support this product is 16GB.

1. Open the lower right side slot and carefully insert the microSD™ card.



2. Push the microSD™ card into the slot until it clicks into place.

Warning! Make sure the printed circuit side of the microSD™ card is facing down when inserted.

Removing the microSD™ Card

Firmly press the microSD™ card until you hear a click and then gently pull the card from the slot.

Setting Up Voice Mail

For new users, follow the instructions below to set up voice mail:

1. In Idle mode, press and hold the  key on the keypad.
You may be prompted to enter a password.
2. Follow the tutorial to create a password, a greeting, and your name.

Note: These steps may be different depending on your network.

Accessing Voice Mail

You can press and hold the  key on the keypad or use the phone's menu to access your voice mail. To access voice mail using the menu:

1. In Idle mode, press **Menu → Messages → Voice Mail** and press the **Select** soft key or the  key.
2. Highlight **Call voicemail** and press the **Select** soft key. Your phone dials the specified voice mail number.
3. When connected, follow the voice prompts from the voice mail center.

Section 2: Understanding Your Phone

This section outlines some key features of your phone. It also displays the screen and the icons that display when the phone is in use.

Features

Your phone is lightweight, easy-to-use and offers many significant features. The following list outlines a few of the features included in your phone.

- 2.0 Megapixel Camera with 4x Digital Zoom
- Camcorder
- Bluetooth[®] Wireless Technology
- User friendly, menu driven access to features and options
- Sound/Image media capability
- Games & Apps feature provides games, music player, camera, voice recorder, and image editor.
- Tools feature provides alarm, calendar, notes, calculator, tip calculator, converter, timer, stopwatch and world time.

Front View

The following illustrations show the main elements of your phone.



1. **Earpiece** allows you to hear the other caller and the different ring tones or sounds offered by your phone.
2. **Volume keys** allow you to adjust the Ring volume in standby mode (with the phone open) or adjust the Speaker volume during a call. When receiving an incoming call, if you press the volume key, you can mute the ring tone. If you press and hold the volume key, you can reject the call.
3. **Left Soft key** allows you to select soft key actions or menu items corresponding to the bottom left line on the display screen.

4. **Send key** allows you to make or answer a call. In Idle mode, recalls the last number dialed or received when held down.
5. **Messaging key** allows you to link this key to your favorite messaging tool: Create Message, Inbox or Games.
6. **Voice mail key** allows you to quickly access your voice mail. Press and hold this key for two seconds to automatically dial your voice mail phone number.
7. **Alphanumeric keys** allow you to enter numbers, letters, and some special characters.
8. **Special Function keys** allow you activate unique features while in Idle mode. In Idle mode, if you press and hold the * key, the keypad locks. In Idle mode, if you press and hold the # key, you can turn on the Vibration Mode.
9. **Microphone** is used during phone calls and allows other callers to hear you clearly when you are speaking to them. It is also used in making voice note recordings.
10. **Cancel/Clear key** deletes characters from the display. In Menu mode, this key returns you to the previous menu level.
11. **Power On/Off (Exit) key** ends a call. Press and hold this key for two seconds to turn your phone on or off. While in the Menu mode, it returns the phone to Idle mode and then cancels your input.
12. **Right Soft key** allows you to select soft key actions or menu items corresponding to the bottom right line on the display screen. It also provides quick access to your Browser.
13. **OK (Select) key** allows you to accept the choices offered when navigating through a menu.

14. Navigation key scrolls through the phone's menu options and acts as a shortcut key in Idle mode.

In Idle mode:

- **Up key:** allows you to directly access the Create message screen to compose a new message.
- **Down key:** allows you to directly access the Contacts.
- **Left key:** allows you to access your Messages menu.
- **Right key:** allows you to access your Incoming Call settings to set the ringtone, volume and alert type for incoming calls.

15. Display shows all the information needed to operate your phone, such as the received signal strength, phone battery level, and time.

Qwerty View

This phone also offers the convenience of a slideout QWERTY keyboard. To open the phone to access the keyboard, rotate the phone 90 degrees to the left. Slide the top section of the phone up to open, as shown.



When you slide the phone open, the display rotates from a vertical viewing mode to a horizontal viewing mode.

Back View

The following illustration shows the back view of the phone with the camera lens.



Side Views

The following illustration shows the side details of your phone.



1. **Volume keys** allow you to adjust the Ring volume in standby mode (with the phone open) or adjust the Speaker volume during a call. When receiving an incoming call, if you press the volume key, you can mute the ring tone. If you press and hold the volume key, you can reject the call.
2. **Camera key** allows you to take pictures when you are in camera mode. Launches the camera with a press.
3. **Power/Accessory Interface connector** allows you to connect a power cable or optional accessories, such as a USB/data cable or a hands-free headset for convenient, hands-free conversations.

Icons

This list identifies the symbols you see on your phone's display screen:



Shows the received signal strength. The greater the number of bars, the stronger the signal.



Shows the level of your battery. The more bars you see, the more power remains.



Displays when a call is in progress.



Displays when the phone is not receiving a signal.



Displays when the phone is in Airplane mode.



Displays when Bluetooth wireless technology is active.



Displays when Vibration Mode is active.



Displays in the View Tab when you missed a call.



Displays in the View Tab when a new text message is received.



Displays in the View Tab when a new voice mail is received.



Displays in the View Tab when a new picture message is received.



Displays when you set an alarm to ring at a specified time.

For more details, see “*Alarm*” on page 62.



Displays when Incoming Call is set to Vibration.



Displays when Incoming Call is set to Melody and Vibration.



Displays when Incoming Call is set to Vibration then Melody.



Displays when Incoming Call is set to Melody then Vibration.

Backlight

A backlight illuminates the internal display and the keypad. When you press any key, the backlight comes on. It goes off when no keys are pressed within a given period of time, depending on the setting in the **Backlight** menu. The display turns off after one minute to conserve battery power.

The **Duration** setting is how long the keypad backlight is on. The **Dim** option is how much longer after the keypad backlight goes off that the display remains lit.

To specify the length of time the backlight is active, access the **Backlight** menu:

1. In Idle mode, press **Menu → Settings → Display settings → Backlight** and press the **Select** soft key or the  key.
2. Highlight the **Duration** option. Use the **Left** or **Right** Navigation key to select the time the backlight is on. You can choose: **10 sec, 15 sec, 30 sec, 1 min, 3 min** or **10 min**.
3. Press the **Down** key to highlight the **Dim** option. Use the **Left** or **Right** Navigation key to select the time the Dim mode is on. You can choose: **Off, 5 sec, 15 sec, 30 sec, 1 min** or **3 min**.
4. Press the **Save** soft key to retain your settings.

Display

Your phone has a display on the front of the phone. The display indicates when you receive an incoming call or message and also displays any alarms for the specified time. The backlight turns on and the corresponding icon displays on the screen. The display shows the current time on a digital clock.

Section 3: Call Functions

This section describes how to make or answer a call. It also explains the features and functionality associated with making or answering a call.

Making a Call

When the idle screen displays, enter the number you wish to dial and press the  key.

Note: When you activate the **Auto Redial** option in the **Auto Redial** menu, the phone automatically redials up to 10 times when the person does not answer the call or is already on the phone, provided your call is not sent to voice mail.

Making an International Call

1. Press and hold the  key. The + character displays.
2. Enter the country code, area code, and phone number.
3. Press the  key to make the call.

Ending a Call

- Briefly press the  key when you want to end your call.

Making a Call from the Contact List

You can store regularly used phone numbers into the phone's memory (Contact List).

Once you store a number in the Contact List, you can press only a few key to dial the stored number. By using the Speed Dial feature you can also assign your most frequently-used numbers to number keys.

For further details about the Contact List, see *“Using Your Contact List”* on page 49.

Adjusting the Call Volume

During a call, use the Volume keys on the left side of the phone, to adjust the speaker volume.

- ▶ Press the **Up volume** key to increase the volume level and the **Down volume** key to decrease the level.

In Idle mode, you can also adjust the ring volume using these keys.

Answering a Call

When somebody calls you, the phone rings and displays the incoming call image.

The caller's phone number or name displays, if it is stored in your Contact List.

1. Press the  key or the **Accept** soft key to answer the incoming call.

If the **Any Key** answer option in the **Answer Options** menu is activated, you can press any key to answer a call except for the  key and the **Reject** soft key.

Note: To reject an incoming call, press the **Reject** soft key or  key.

2. Press the  key to end the call.

Note: You can answer a call while using the Contact List or menu features. After ending the call, the phone returns to the function screen you were previously using.

Call Records

All incoming, outgoing and missed calls are listed in the Call Records.

1. In Idle mode, press **Menu → Recent Calls** and press the **Select** soft key or the  key to enter the menu.

Note: While in Idle mode, press the  key to access the **Recent Calls**. At any time while you are in Recent Calls, you can use the **Left** or **Right** Navigation keys to scroll through **All Calls**, **Missed Calls**, **Incoming Calls** and **Outgoing Calls** call records.

The following call record options are available:

All Calls

This menu lets you view the 90 most recent calls you received, dialed, and missed. The name or number, if already stored in your Contact List, displays with the number of occurrences for each number.

Missed Calls

This menu lets you view the 30 most recent calls you received, but did not answer. The name and number, if already stored in your Contact List, displays with the number of occurrences for each number.

Viewing Missed Calls

When you are unable to answer a call for any reason, you can find out who is calling you and call the person back, if this service is available.

The number of calls you missed displays on the idle screen on the Missed Call tab, immediately after a call is missed.

To view a missed call immediately:

1. If the display is off, press the volume key to turn on the display.

The Missed Call tab displays the last missed call.

— or —

Press the  key to view the **Recent Calls**, **All Calls**, then press the **Right** Navigation key to view the **Missed Calls**. The number corresponding to the most recently missed call displays, if available.

2. To scroll through the missed calls, press the **Up** or **Down** Navigation key.

3. Press  to call the displayed number.

— or —

Press **View**  to display call details.

4. Press the **Options** soft key for the following options:

- **Send Message:** Allows you to send a Text message or a Picture Message to the missed number.
- **Save To Contacts:** Stores the number in your Phone memory (displays only if the number is stored to the SIM card).
- **Delete:** Allows you to delete the selected number or delete all call records.
- **Add to Reject List:** Adds the selected number to the blocked calls list.
- **View Contact Details:** Displays details of the missed call including name, number, dates and times of the calls (this option only displays if the number is stored in the Phonebook).

Note: You can press the  key at any time to exit the **Missed Call** feature.

Incoming Calls

This menu lets you view the 30 most recent calls you received.

The name and number, if already stored in your Phone, is then displayed with the number of occurrences for each number.

Outgoing Calls

This menu allows you to view the 30 most recent calls you dialed. The name and number, if already stored in your Phone, displays with the number of occurrences for each number.

Delete All

This menu allows you to delete all of the records in each call record separately, or you can delete all of your call records at one time.

1. Highlight the type of calls you want to delete and press the **OK** key to make a check mark.

Note: Selecting the **All Calls** check box automatically selects all the entries in the **Delete All** menu.

2. Press the **Delete** soft key to delete the calls.
3. When a confirmation message displays, press the **Yes** soft key or **OK** key to confirm.

Call Time

This menu lets you view the time log for calls both made and received.

Note: The actual time invoiced may differ from times displayed due to network features and service plan.

The following time logs are available:

- **Last Call Time:** shows the length of your last call.
- **Total Outgoing:** shows the total length of all calls made since the timer was last reset.
- **Total Incoming:** shows the total length of all calls received since the timer was last reset.

Note: To change this password, see “*Change Password*” on page 67.

Data Volume

1. From the Idle screen, press **Menu** → **Recent Calls** → **Data Volume**.
2. Use the Up and Down Navigation keys to view the following information:
 - **Last Sent Data:** shows the amount of data in kilobytes of the last transaction sent.
 - **Last Received Data:** shows the amount of data in kilobytes of the last transaction received.
 - **Total Sent Data:** shows the total amount of data in kilobytes sent.
 - **Total Received Data:** shows the total amount of data in kilobytes received.

3. Press the **Reset** soft key to reset the Data Volume.
4. Press the **Back** soft key or the  key to end.

Selecting Functions and Options

Your phone offers a set of customizable functions. These functions are arranged in menus and sub-menus, and accessed using the two soft keys. Each menu and submenu allows you to view and alter the settings of a particular function.

Soft Keys

The roles of the soft keys vary depending on the function you are currently using. The labels on the bottom line of the display just above each key indicate their current role.



Selecting Options

To view the various functions and options available, you must select the one you want by:

1. Pressing the appropriate soft key.

2. Selecting the displayed function or the highlighted option, press the **Select** soft key or the  key.
3. Viewing the next function or highlighting the next option on a list, by pressing the **Down** Navigation key.
4. Moving back to the previous function or option on a list, by pressing the **Up** key.
5. Moving back up one level in the menu structure, by pressing the **Back** soft key.
6. Pressing the  key to exit the menu structure without changing the settings.

In some functions, you are asked for a password or PIN. Enter the correct code and press the **OK** soft key or the  key.

When you access a list of options, your phone highlights the currently active option. If, however, there are only two options, such as **Enable/Disable**, your phone highlights the option that is not currently active, so that you can select it.

Options During a Call

Your phone provides a number of control functions that are available for use during a call.

Switching off the Microphone (Mute)

You can temporarily switch your phone's microphone off, so that the other person cannot hear you.

Example: You wish to say something to a person in the room but do not want the person on the phone to hear you.

To switch the microphone off temporarily:

- ▶ Press the **Mute**  key. The other person can no longer hear you. The Mute icon () displays in the call box.

To switch the microphone back on:

- ▶ Press the **Unmute**  key. The other person can hear you again.

Putting a Call on Hold

You can place the current call on hold whenever you want. If your network supports this service, you can also make another call while a call is in progress.

To place a call on hold:

1. Press **Options** → **Hold**, then press the **Select** soft key or the  key.
2. Press the **Resume** soft key to reactivate the call.

To make a new call while a call is in progress:

1. Enter the new phone number that you wish to dial or look it up in the Contact List.
2. Press the  key to dial the second call.

The first call is then automatically put on hold.

- Or -

Press the **Options** soft key, select **Hold**, and press the  key. This places the currently active call on hold and allows to make a new call in the normal way.

When there is an active call and a call on hold, you may switch between the two calls by placing the current held call to active and then placing the other call on hold.

To switch between the two calls:

1. Press **Options** → **Swap**, and press the  key. The current active call is placed on hold and the call on hold is then reactivated so that you can continue conversing with that person.
2. Press the  key when you are finished or want to end the call.

Using the Speakerphone

While on a call, you can use your Speakerphone by following these steps:

1. Press the **Spkr on** soft key.
2. To turn the Speakerphone off, press the **Spkr off** soft key.

Muting or Sending Key Tones

The Mute keys and Send keys options allow you to turn the key tones off or on so that the key press is not heard during a call.

During a call, you can mute the key tones by following these steps:

1. Press **Options** → **Mute keys**.
2. To send the key tones again, press the **Options** → **Send keys**.

Sending DTMF Tones

The Send DTMF option allows you to transmit the Dual Tone Multi-Frequency (DTMF) tones of the keys to communicate with answering machines or computerized telephone systems.

Note: If the Keypad Tone option in Sound Settings is set to off (volume zero), your phone does not transmit DTMF tones. Press **Menu** → **Settings** → **Sound Settings** → **Keypad Tone** to turn on your keypad tone settings.

Searching for a Number in the Contact List

You can search for a number in the Contact List during a call.

1. Press the **Options** → **Contacts**. The Contact List displays.
2. Use the **Up** or **Down** Navigation key to highlight the contact you desire. To search for a name, enter the name that you wish to find in the textbox located above the entries. When you enter the first few letters of the name, the first entry that matches your input displays.
3. To view a highlighted entry, press the **View** soft key or the  key. The Contact information displays.

Tip: For further details about the Contact List feature, see “*Finding a Contact List Entry*” on page 50.

Call Waiting

The **Call Waiting** option must be set to **Activate** before you can answer an incoming call while another call is in progress. To set the Call Waiting option, see “*Call Settings*” on page 69.

You are then notified of an incoming call with a call waiting tone.

To answer a new call while another call is in progress:

1. Press either the **Accept** soft key or the  key to answer the incoming call. The first call is automatically put on hold.
2. To switch between the two calls, press the **Options** soft key, highlight **Swap** and press the **Select** soft key or the  key.
3. To end a call on hold, press the **Options** soft key and select the **End held call** option. Then press the **Select** soft key or the  key.
4. To end the current/remaining call, press the  key.

3-Way Calling (Multi-Party Calling)

The 3-Way or Multi-Party feature allows you to answer a series of incoming calls and place them on hold.

If this service is supported by the network, and the SIM has the feature enabled, all calls can be joined together. You are notified of an incoming call by a call waiting tone. To activate the call waiting feature, see “*Call Waiting*” on page 28.

1. Press  to answer the first incoming call.
2. Press  to answer the next incoming call. The first call is automatically put on hold.
3. Press  →  to join with both of your callers, the active call and the call on hold, in a single multi-party call.

Note: If SIM enabled, some versions of the phone allow you to join with both of your callers in a multi-party call by pressing **Options** → **Join**.

4. Press  to end the call.

Section 4: Menu Navigation

This section explains the menu navigation for your phone. It also includes an outline of all the available menus associated with your phone.

You can tailor the phone's range of functions to your needs using menus and sub-menus. Menus and sub-menus can be accessed by scrolling using the Navigation keys or by using the shortcuts.

Accessing a Menu Function

1. In Idle mode, press **Menu**.
2. Scroll using the Navigation keys to reach a main menu (for example: **Settings**). Press the **Select** soft key or the  key to enter the menu.
3. If the menu contains sub-menus, (for example, **Phone Settings**), after highlighting the sub menu, press the **Select** soft key or the  key to access it.

If the menu you selected contains further options, repeat this step.

4. To scroll through the menus, press the **Up** or **Down** Navigation keys.
5. To confirm the chosen setting, press the **Select** soft key, or the  key.
6. To return to the previous menu level, press the **Back** soft key, or the  key.
7. To exit the menu without changing the settings, press the  key.

Section 5: Entering Text

This section outlines how to select the desired text input mode when entering characters into your phone. This section also describes how to use the T9 predictive text system to reduce the number of key strokes associated with entering text.

Using the QWERTY Keyboard

This phone also offers the convenience of a slideout QWERTY keyboard. The QWERTY keyboard provides a simpler and faster alternative to the telephone keypad for typing letters, numbers, punctuation, and other special characters into text entry fields or other applications. The following keys perform special functions when entering text:



1. **Left Soft Key** - allows you to select soft key actions or menu items corresponding to the bottom left line on the display screen.

2. **Alt** - allows you to use characters displayed at the top of the QWERTY keys.
Examples: \$, @, #, !
3. **OK (Select) key** allows you to accept the choices offered when navigating through a menu.
4. **Symbol** - displays the Symbols page. Choose from an extensive list of symbols and other character sets. Press Alt-Symbol to access Symbols.
Shift - converts the alphabetic character into uppercase. Changes the text input mode to Upper/Lower case mode.
5. **Space** - inserts an empty space.
6. **Enter** - Moves the insertion point to the next line in a message.
7. **Right Soft key** - allows you to select soft key actions or menu items corresponding to the bottom right line on the display screen. It also provides quick access to your Browser.
8. **Backspace** - deletes the previous character, similar to the backspace key on a computer keyboard.

The keyboard provides dual-use keys labeled with alphabetic characters on the lower half and numbers and symbols on the upper half. Press the key corresponding to the character you want to enter.

Changing the Text Input Mode

When using your phone, you often need to enter text, such as when storing a name in your Contact List, creating your personal greeting or scheduling events on your calendar. You can enter alphanumeric characters by using your phone's keypad.

Your phone has the following text input modes:

- **T9 mode:** this mode allows you to enter words with only one keystroke per letter. Each key on the keypad has more than one letter; for example, you press  to enter J, or K.

However, the T9 mode automatically compares the series of keystrokes you make with an internal linguistic dictionary to determine the most likely word, thus requiring fewer keystrokes than the traditional ABC mode.

- **Alpha:** this mode allows you to enter letters by pressing the key labeled with the corresponding letter.
- **Number:** this mode allows you to enter numbers.
- **Symbol:** this mode allows you to enter symbols, such as punctuation marks.

Note: When you are in a field where you can enter characters, the text input mode indicator displays at the bottom right of the screen.

Using T9 Mode

T9 is a predictive text input mode that allows you to key in any character using single keystrokes. This text input mode is based on a built-in dictionary.

To enter a word in T9 mode:

1. When you are in T9 mode, press any one of the letter keys to enter a word. Press each key only once for each letter.

Example: To enter “Hello” in T9 mode, press the 4, 3, 5, 5, and 6 keys.

The word that you type displays on the screen. The word may change with each consecutive key that you press.

2. Enter the whole word before editing or deleting the keystrokes.
3. Press  to insert a space and begin entering the next word.

To enter periods, hyphens, apostrophes, and other special characters press and hold  to display a menu of symbols with their corresponding number keys for entry. Use the Right, Left, Up and Down navigation keys to see additional symbols. Press the number key by the symbol you wish to enter. To return to the text entry screen, press .

To shift case in T9 mode:

- Press the  key.

There are 3 cases: Capital lock, Initial capital, and Lower case.

Tip: You can move the cursor by using the Navigation keys.

To delete characters:

- Press the  key. Press and hold the  key to clear the display.

Using ABC Mode

To use ABC mode, use the letter keys to enter your text.

1. Press the key labeled with the letter you want:
 - Once for the first letter, twice for the second letter, and so on.
2. Select the other letters in the same way.
 - To enter periods, hyphens, apostrophes, and other special characters, press and hold the  key then press the key that contains the associated symbol.
 - To shift case in ABC mode, press the  key. There are 3 cases: Capital lock, Initial capital, and Lower case.

Note: You can move the cursor by using the Navigation keys.

To delete letters:

- Press the  key. Press and hold the  key to clear the display.

Note: The cursor moves to the right when you press a different key. When entering the same letter twice or a different letter on the same key, just wait for a few seconds for the cursor to automatically move to the right, and then select the next letter.

Using Number Mode

The Number mode enables you to enter numbers into a text message.

- Press the keys corresponding to the digits you want to enter.

Using Symbol Mode

Symbol mode enables you to insert symbols and punctuation marks into text. To display symbols options, press and hold the  key until the symbols display on the screen, or press the Right  soft key and select Symbol.

1. To select a symbol, press the corresponding number key.
2. To display more symbols, press the Navigation keys.
3. To clear the symbol(s), press the  key. When the input field is empty, this key returns the display to the previous mode.
4. To insert the symbol(s) into your message, press the **OK** soft key or the  key.

Section 6: Messages

This section describes how to send or receive different types of messages. It also explains the features and functionality associated with messaging.

Types of Messages

Your phone provides the following message types:

- Text Messages
- Picture Messages
- Voice Mail

Display Icons for Messages

When your handset receives new messages, icons display on the screen in two locations: on the View Tab that displays on the lower portion of the screen, and on the top of the screen.

Message Icons on the Icon Line

The  icon displayed at the top of the screen indicates that a new text message was received. The  icon indicates a new picture message was received. The  icon indicates a new voice mail message was received.

View Tab

The View Tab area displays on the screen when a voicemail, missed call, text message, or picture message is received by the phone. The View Tab area can display these icons when you miss a call or receive a message:

1.  Voicemail
2.  Missed Call
3.  Text message
4.  Picture message

You can search through missed calls or unviewed messages by using the **Right** and **Left** navigation keys to select the associated message tab, then pressing the **View** or **Connect** soft key.

Text Messages

Short Message Service (SMS) allows you to send and receive short text messages to and from other mobile phones. In addition, your phone supports the Enhanced Messaging Service (EMS), which enables you to include simple graphics, melodies, and animated images in your messages. To use this feature, you must subscribe to a message service.

The Message icon () displays when you receive a new text message. When the memory is full, the message icon flashes on your phone and you cannot receive any new messages. You must delete a message before you can receive additional messages.

Create new

In this menu, you can write and send a text message.

Creating a Simple Text Message

1. In Idle mode, press **Menu → Messages → Create New**. The Create screen displays.
2. Enter your recipients in the **To** field. Press **Add** or **Options → Add recipients** to choose from **Recent recipients**, **Contacts** or **Group**.
 - **Recent recipients**: allows you to select a number or an address from the last 20 destinations you entered.
 - **Contacts**: allows you to enter the phone number you want from your Contact List.
 - **Group**: allows you to enter phone numbers or email addresses for recipients assigned to a group.

3. Before creating your message, press **Options** to choose from the following options:
 - **Insert:** allows you to choose from: Text template, Text emoticon, Contacts, Favorites.
 - **More:** allows you to choose from: Add page, Add subject, Add attachment and Edit style, Change to picture message and Select language.
 - **Exit composer:** returns you to the Messages menu.
4. Create your message.

Note: For further details about entering characters, see “*Changing the Text Input Mode*” on page 32. You can enter up to 160 standard Alphabet characters per page in your message. The message can be up to 12 pages long for a total of 1920 characters.

5. When you have entered your message, press the **Options** soft key to choose from the following options:
 - **Insert:** allows you to insert from the Text Templates, Text emoticon, Contacts or Favorites. The Text templates allow you to apply one of the preset message templates to the text. Select one of the 10 items stored in the **Text Templates** menu. Contacts allows you to add names and phone numbers from your Contact List to your message. Favorites allows you to add Internet addresses to your message.
 - **More:** allows you to choose from Add page, Add subject, Add attachment, Edit style, Change to picture message, and Select language.
 - **Save to:** allows you to save the message to Drafts or Templates.
 - **Copy & Paste:** allows you to turn on or off the copy, cut and paste text selection tool.
 - **Exit Composer:** provides the options: Save Message, Don't Save or Continue Writing.
6. If you wish to add recipients, highlight the **To** field again and press **Add**. You can select one of the following options:
 - **Recent recipients:** allows you to select a number or an address from the last 20 destinations you entered.
 - **Contacts:** allows you to enter the phone number you want from your Contact List.

- **Group**: allows you to enter phone numbers or email addresses for recipients assigned to a group.

7. When you finish entering the destinations, press **Send**.

Picture Messages

When you add images, video, graphics, voice, or audio clips to your message, it becomes a Multimedia Message. This is a multimedia presentation contained in a single file. It is not a text file with attachments. Picture Messaging is a Multimedia Message Service (MMS) that provides delivery of personal picture messages from phone to phone.

Create new

This menu allows you to create a new picture message and send it to one or more destinations.

Creating and Sending a Picture Message

1. In Idle mode, press **Menu → Messages → Create New**. The Create screen displays.
2. Enter your recipients in the **To** field. Press **Add** or **Options → Add recipients** to choose from **Recent recipients**, **Contacts** or **Group**.
 - **Recent recipients**: allows you to select a number or an address from the last 20 destinations you entered.
 - **Contacts**: allows you to enter the phone number you want from your Contact List.
 - **Group**: allows you to enter phone numbers or email addresses for recipients assigned to a group.
3. Create your message.
4. Press the **Down** navigation key to access the multimedia options. The Add picture option becomes highlighted.

5. Press **Select** or  to add a picture from your Photos, your Downloaded Images or from your Memory card.
– or –
Press the **Right** and **Left** navigation keys to choose from these multimedia options: **Record sound**, **Add sound**, **Add picture**, **Camera** and **Add video**.
6. In Multimedia mode, press **Options** → **More** to choose from these options: **Add page**, **Delete page**, **Add subject**, **Add attachment**, **Edit style**, **Change to text message** and **Select language**. You can also choose these options: **Save to (Drafts, Templates)**, **Copy & Paste** or **Exit composer**.
7. When you have completed your message, press **Options** → **Send**.

Inbox

The Inbox stores received messages. You can tell what kind of message was received by the icon displayed. If the icon envelope is open then the message was read, otherwise a closed envelope displays.

The following types of messages may display in your inbox:

1.  Text messages
2.  Picture messages

When you enter the Inbox, the list of messages displays with the sender's phone numbers, or names, if available in your Contact List. After you read the message, the open envelope icon displays.

Tip: Press the **Left** or **Right** Navigation keys to scroll between **Inbox**, **Sentbox**, and **Drafts**.

Viewing a Text Message from the Inbox

1. In Idle mode, press **Menu** → **Messages** → **Inbox**.
2. Highlight a text message on the list and press the **Options** soft key.

The following options display:

- **Reply:** allows you to reply to the message.
 - **Call back:** allows you to call back the sender.
 - **Delete:** deletes the selected text message or multiple messages.
 - **Move to Phone/SIM card:** allows you to move the message from the SIM card into the phone's memory or from the phone onto the SIM card. Depends on where the current message is saved.
 - **Sort by:** allows you to sort messages by Read/Unread, Date, Name, Type, Size, or Subject.
 - **Lock/Unlock:** allows you to protect the message from deletion or unlock it for deletion.
3. Press the **View** soft key or  to view the message details.
 4. To scroll through the contents, press the **Up** or **Down** Navigation key.

While viewing the message, press the **Options** soft key to display the following:

- **Reply:** allows you to send a reply to the sender by sending a message.
- **Call Back:** Places a call back to the number.
- **Forward:** allows you to forward the message to another number.
- **Save Address:** allows you to extract the sender's number and URL, e-mail addresses or phone numbers from the message text, so that you can save them in your phone's memory.
- **Delete:** allows you to delete the message.
- **Print via Bluetooth:** allows you to print the message using a Bluetooth enabled printer.
- **Move to phone/SIM card:** allows you to move the message from the SIM card into the phone's memory or from the phone onto the SIM card. Depends on where the current message was saved.
- **Lock/Unlock:** allows you to protect the message from deletion or unlock it for deletion.

Viewing a Picture Message from the Inbox

1. In Idle mode, press **Menu** → **Messages** → **Inbox** and press the **View** soft key or **OK**.
2. Highlight an unretrieved picture message  from the list and press the **Options** soft key.

The following options display:

- **Reply via:** allows you to send a reply to the sender by sending a message.
 - **Reply all via:** allows you to send a reply to the sender by sending a Picture message.
 - **Call back:** allows you to call the sender back.
 - **Forward:** allows you to forward the message to another number.
 - **Delete:** deletes the selected picture message or multiple messages.
 - **Sort by:** allows you to sort your messages by Read/Unread, Date, Name, Type, Size, or Subject.
 - **Lock/Unlock:** allows you to protect the message from deletion or unlock it for deletion.
 - **Properties:** displays information about the message, such as time and date the message was received, the sender's e-mail address or phone number, recipient's e-mail address or phone number, Cc, message size, priority, and class.
3. Press **View** **OK** to read the message contents.
 4. To scroll through the contents, press the **Up** or **Down** Navigation key.
 5. Press the **Options** soft key while reading a picture message to display the following:
 - **Reply via:** allows you to send a reply to the sender by sending a message.
 - **Reply all via:** allows you to send a reply to the sender by sending a Picture message.
 - **Call back:** allows you to call the sender back.
 - **Forward:** allows you to forward the message to another number.
 - **Replay:** allows you to review the picture message.

- **Save address:** allows you to cut and paste the address to send a text message, or picture message.
- **Save media:** allows you to save message media to your Image folder, Video folder, Sound folder, vCard, vCalendar, vNote, or Other file folder.
- **Delete:** deletes the selected picture message.
- **Lock/Unlock:** allows you to protect the message from deletion or unlock it for deletion.
- **Properties:** shows you information about the message, such as time and date the message was received, the sender's e-mail address or phone number, recipient's e-mail address or phone number, Cc, message size, or priority.

Viewing a Picture Message When You Receive It

When a new picture message comes in, the Missed messages tab displays the missed Picture Messaging Message icon.

1. From the Missed messages tab, press the **View**  key to view the picture message.

Note: The message actually displays as a missed Picture message.

2. Press the **Exit** soft key if you want to view the message later in the Inbox.
3. Press the **Options** soft key or the  key to access the various options described above.
4. Press the  key when you are finished.

Drafts

This message box stores messages that you may want to edit or send at a later time.

When you enter this menu, the list of messages in the box displays.

1. In Idle mode, press **Menu → Messages → Drafts**. The Message Box for Drafts displays.

Note: Press the **Left** or **Right** Navigation keys to scroll between **Inbox**, **Drafts**, and **Sentbox**.

2. Select a message from the list and press the **Options** soft key.

The following options display:

- **Edit:** allows you to edit the message.
- **Send:** allows you to send the message to Recent recipients, the Contacts, or a New recipient (Picture message only).
- **Delete:** deletes the selected draft message or multiple selections.
- **Move to SIM card/phone:** moves the selected draft message or multiple messages to the SIM card (if stored on the phone) or to the Phone (if stored on the SIM card).
- **Sort by:** allows you to sort the messages stored in this folder by Date, Name, Type, Size, or Subject.
- **Lock/Unlock:** locks the selected message to protect it from deletion, or unlocks the message to allow deletion.
- **Properties:** shows information about the message: **Subject**, **Date**, **To**, **Cc**, **Bcc**, **Size** and **Priority** (Picture message only).

3. Press **View** () and press **Options** → **Edit** to edit the message.

— or —

Press **View** () and **Send to** () to send the message.

4. Press  to return to the Idle screen.

Tip: Press the **Options** soft key while reading a message to select alternate options.

Sentbox

This message box stores unsent messages.

When you enter this menu, the list of messages in the Sentbox displays with the recipients' phone numbers or names, if available in your Phonebook.

1. In Idle mode, press **Menu → Messages → Sentbox** and press the **Select** soft key or the  key.

Note: Press the **Left** or **Right** Navigation keys to scroll between **Inbox**, **Drafts**, and **Sentbox**.

2. Select a message from the list and press the **View**  key to view or play the message contents.
3. To scroll through the contents, press the **Up** or **Down** Navigation keys.

Tip: Press the **Options** soft key while reading a message to select alternate options.

Voice Recording

In this menu, you can record a voice note up to one hour long, using the Voice Recorder, then immediately send it via Picture Messaging.

Creating and sending a Voice note

When you access this menu, a timer displays on the screen.

1. In Idle mode, press **Menu → Games & Apps → Voice Recorder**.
2. Press the **Record** soft key to begin recording.
3. Record a memo by speaking into the phone's microphone.

The display simultaneously shows the elapsed time and the total time allowed.

4. Press the **Stop** soft key when you are finished recording.
— or —

When the recording time is expired, the display advances to the next screen.

Note: Your voice note automatically saves in the Voice List.

5. Press the **Options** soft key for the following options:
 - **Send in Message**: allows you to send the Voice note as a message.
 - **Re-record**: discards the previous Voice note and enables you to record a new voice note.
 - **Set as**: allows you to save the voice note as a Ringtone, Individual ringtone, or Alarm tone.
 - **Go to voice list**: displays the voice list.
 - **Delete**: allows you to delete this voice note.
6. To send the Voice note, while viewing the Options, select **Send in Message**. The Create message screen displays with the **To** field highlighted.
7. Press **Add** or  to select recipients from **Recent recipients**, **Contacts** or a **Group**.
 - **Recent recipients**: allows you to select a number or an address from the last 20 destinations you entered.
 - **Contacts**: allows you to enter the phone number you want from your Contact List.
 - **Group**: allows you to enter phone numbers or email addresses for recipients assigned to a group.
8. When you have entered your recipients, press the **Down** navigation key to compose your message in the message field. For information about entering text in a message field, see page 37.
9. While you are in the message field, you can press **Options** to choose from the following:
 - **Send**: allows you to send the message.
 - **Preview**: allows you to preview the message.
 - **Insert**: allows you to insert a **Text template**, **Text emoticon**, **Contacts**, and **Favorites** to the message.
 - **More**: allows you to **Add page**, **Delete page**, **Add subject**, **Add attachment**, **Edit style**, **Change to text message** and **Select language**.

- **Save to:** allows you to save the message to **Drafts** or to **Templates**.
 - **Copy & Paste:** allows you to turn **On** or **Off** the Text selection tool to enable copy and paste.
 - **Exit composer:** allows you to **Exit composer** and choose to **Save message**, **Don't save** or **Continue writing**.
10. Press **Send** or **OK** to send the message. Your phone sends the message and saves it to the Sentbox after it successfully sends.

Voice mail

This menu provides you with a way of accessing your voice mailbox, if provided by your network.

1. In Idle mode, press **Menu → Messages → Voice Mail**. The Voice Mail screen displays with **Call voicemail** highlighted.

Note: Before you can use the Voice Mail feature, you must obtain the voice server number from your customer service representative.

2. Press the **Select** soft key to call your voice mail number.

Tip: In Idle mode you can also press and hold the **100** key to connect to the voice server.

Voice mail is a network feature. Please contact customer service for further details.

Management

The **Management** menu allows you to select where your contacts are saved, to delete your contacts, to sort by contacts, or to check your memory status.

- In Idle mode, press **Menu → Messages → Management**.

The Settings screen displays with these options: **Messages Settings**, **Delete All**, and **Memory Status**.

Messages Settings

In this menu, you can set up a default text message or a picture message. The last setting you accessed is automatically activated for sending subsequent messages.

- In Idle mode, press **Menu → Messages → Management → Messages Settings**. Select **Text Message** or **Picture Message**.

Text Message

Use the following options to set Send Settings (Reply Path, Delivery Report, Keep a copy, Validity Period, Message Type and Email Gateway) and Block Number settings for Text Messages.

Picture Message

Use the following options to set Send Settings (Priority, Expiry Date and Delivery Time) and Receive Settings (Anonymous Reject and Ads Allowed) for Picture Messages.

Delete All

The Delete All function allows you to check a single or multiple categories of messages to delete, or you can highlight the **All** selection and press the checkmark or the  key to check all categories of messages.

- In Idle mode, press **Menu → Messages → Management → Delete All**.

Press the **Delete** soft key and the confirmation message displays, “Delete all unlocked messages?” Press the **Yes** or **No** soft key to confirm.

Memory Status

Memory Status allows you to view the Text Message usage on your phone and SIM, your Picture Message usage and available memory and your Push Message usage.

To view the memory status:

- In Idle mode, press **Menu → Messages → Management → Memory Status**.

Section 7: Managing Your Contacts

This section explains how to use and manage your Contacts.

Using Your Contact List

Use the following procedures to store a new contact to your Phone.

Storing a Number in the Phone's Memory

The default storage location for saving phone numbers to your Contact List is your phone's built-in memory.

1. In Idle mode, press **Menu** → **Contacts** → **Add New Contact**.
2. Enter a first name in the **First name** text box. Press the **down** key to tab to the next text box.

For further details about how to enter characters, see *“Using ABC Mode”* on page 34.

3. Enter a last name in the **Last name** text box.
4. Highlight a number type by pressing the **Up** or **Down** Navigation key, then enter a number in the text box.

The following types are available:

- **Mobile**: assigns the number to the Mobile entry.
- **Home**: assigns the number entered to the Home entry.
- **Office**: assigns the number entered to the Work entry.
- **Picture ID**: allows you to add a Picture ID assigned to the contact.
- **Ringtone**: allows you to assign a Ringtone by choosing from one of the following locations: Default melodies, Voice list, Sounds, or Music.
- **E-mail**: allows you to enter the e-mail address for the contact.
- **Fax**: assigns the number entered to the Fax entry.

- **Other:** allows you to enter an additional phone number for this entry.
 - **Group:** allows you to assign this contact to a group.
 - **Notes:** allows you to enter additional information about the contact. Up to 50 characters are allowed.
5. Press  to save your selections. The number saves to your selected destination and the new contact information displays.
 6. Press the  key to return to Idle mode.

Finding a Contact List Entry

You can store phone numbers and their corresponding names in the phone's built-in memory (Contact List).

1. In Idle mode, press **Menu → Contacts → Contact List**.

Note: A Phone icon displays to the left of the entry.

2. Enter the first few letters of the name in the text box.
The Phonebook entries are listed, starting with the first entry matching your input.
3. If needed, press the **Up** or **Down** Navigation key until the entry you want highlights.
4. Once you locate the entry, press the  key to dial the number, or press the **Options** soft key to access the following Phonebook entry options:
 - **Edit:** allows you to edit the Name and number for the selected contact.
 - **Send Message:** allows you to send a Message to the selected number.
 - **New contact:** takes you to the Add new contact menu.
 - **Call:** places the call to the selected phone number.

- **Assign speed dial:** allows you to assign a speed dial key number to the selected Contact List entry.
 - **Send name card via:** allows you to select the option of sending your name card in a Picture Message and the option of sending to a Bluetooth enabled device.
 - **Delete:** allows you to delete the selected name and number or multiple names and numbers from your Contact List or delete all numbers. You are asked to confirm your name and number deletion by pressing the **Yes** soft key. To cancel, press the **No** soft key.
 - **Add to Reject List:** adds the selected contact to your reject list.
 - **Copy to Phone/SIM card:** copies the selected or all of the contacts to the phone or SIM card. Depends on where the contact was previously saved.
 - **Select language:** allows you to select between English and Español.
5. Press **View** to view contact information.
 6. Press **Options** to select one of the following options:
 - **Edit:** allows you to edit the name and number fields in the entry. You can also add an e-mail address and notes.
 - **Send message:** allows you to send a Message to the selected number.
 - **Assign speed dial:** allows you to assign a speed dial key number to the selected Contacts List entry.
 - **Send name card via:** allows you to select the option of sending your name card in a Picture Message and the option of sending to a Bluetooth enabled device.
 - **Delete:** allows you to delete the selected name and number from your Contacts List. You are then asked to confirm the name and number deletion by pressing the **Yes** soft key. Press the **No** soft key to cancel the deletion.
 - **Copy to phone/SIM card:** copies the selected or all of the contacts to the phone or SIM card. Depends on where the contact was previously saved.
 - **Add to Reject List:** adds the selected contact to the reject list.
 - **Print via Bluetooth:** sends the contents of the selected text message to a Bluetooth enabled printer.
 7. Press **Call**  to dial the selected number.

Dialing a Number from the Contact List

Once you store phone numbers in the Contact List, you can dial them easily and quickly.

Note: Select **Contact List** in the **Contacts** menu to search for the entry by name. For more information, refer to “*Finding a Contact List Entry*” on page 50.

Adding a New Caller Group

1. In Idle mode, press **Menu** → **Contacts** → **Group**.
2. Press the **Options** soft key and select the **Create New Group** option.
3. Enter a name for the new group in the **Name** field.
4. Highlight the **Picture ID** field and press the  key to create a Picture ID for this new caller group. Select from one of the following options:
 - **Take picture:** allows you to take a picture to use as a Caller ID photo.
 - **Photos:** displays a list of photos from which to select as a Caller ID.
 - **Downloaded Images:** displays a list of downloaded images to select as a Caller ID.
 - **Icons:** displays a list of predefined Caller ID icons. Press the Right and Left Navigation key to display pages of icons from which to choose.
5. Highlight the **Ringtone** field and press the  key to create a ringtone for this new caller group. Select from one of the following options:
 - **Default melodies:** displays a list of default melodies from which to select as a ringtone.
 - **Voice List:** displays a list of voice messages from which to select as a ringtone.
 - **Sounds:** displays a list of sounds from which to select as a ringtone.
 - **Music:** displays a list of music from which to select as a ringtone.
6. Press the **Save** soft key when you are finished.
7. Press the  key to return to Idle mode.

Editing a Caller Group

1. In Idle mode, press **Menu** → **Contacts** → **Group** and press the **Select** soft key or the  key.
2. Scroll through the group list, highlight the group you want, and press the **Options** soft key.
3. Highlight **Edit** and press the **Select** soft key or the  key.
4. To edit the Caller group name, modify the text in the **Name** text box.
5. To change the image associated with the Caller group, press the **Down** navigation key to highlight the **Picture ID** icon. Press the  key.

The following options are available:

- **Take Picture:** allows you to take a picture with your camera.
 - **Photos:** allows you to choose a photo from Photos folder.
 - **Downloaded Images:** allows you to choose a photo from your Downloaded images folder.
 - **Icons:** allows you to choose from pre-defined icons.
6. To change the ringtone associated with the Caller group, press the **Down** key to highlight the **Ringtone** icon. Press the  key.

The following options are available:

- **Default Melodies:** allows you to choose from 15 different melodies.
 - **Voice List:** allows you to assign a voice clip to this group.
 - **Sounds:** allows you to choose a sound from your Sounds folder.
 - **Music:** allows you to choose music from Music folder.
7. Press the **Save** soft key when you are finished. Your Caller group settings save.

8. Press the  key to return to Idle mode.

Speed Dialing

Once you store phone numbers from your Phonebook list, you can set up to 8 speed dial entries and then easily dial them whenever you want, by pressing the associated numeric key.

- In Idle mode, to speed dial the numbers assigned to keys (2 to 9), press and hold the appropriate key.

Setting Up Speed Dial Entries

1. In Idle mode, press **Menu** → **Contacts** → **Speed Dial List** and press the **Select** soft key or the  key.
2. Use the **Up** or **Down** Navigation key to select the keypad number key to where you wish to assign the new speed-dialing number and press the **Add** soft key or the  key.
 - Select from the **2** to **9** keys, and press the **Add** soft key.
3. Highlight a contact entry from the list and press the **Select** soft key or the  key. You receive a **Saved** confirmation and the **Speed dial** menu displays the contact assigned to the number key you selected.
4. Press the  key to return to Idle mode.

Note: Memory location 1 is reserved for your Voice mail server number and this speed dial location can not be changed.

Reject List

The Reject List option allows you to create a list of numbers to reject incoming calls from the specified numbers.

- In Idle mode, press **Menu** → **Contacts** → **Reject List** and press the  key.

FDN Contacts

Fixed Dial Number (FDN) mode, if supported by your SIM card, allows you to restrict your outgoing calls to a limited set of phone numbers. When this feature is enabled, you can make calls only to phone numbers stored in the FDN list on the SIM card. You must first enter your PIN2. You can obtain your PIN2 from your service provider.

1. In Idle mode, press **Menu → Contacts → FDN contacts**. The FDN contacts screen displays.
2. To add a new FDN contact, press **Options → New FDN contact**. The Enter PIN2 code field displays.
3. Enter your PIN2 code.
4. Enter the desired name and number, then Save.
5. Select the FDN contact to call and press .

— or —

Press the Options soft key to add additional contacts, change a contact or delete a contact from the FDN list.

Contacts Settings

- In Idle mode, press **Menu → Contacts → Contacts Settings** and press the **Select** soft key or the  key.

Select from the following options:

- **My Business Card**: allows you to set up business card information such as name, phone numbers and email.
- **Save New Contacts to**: allows you to save new contacts to you phone, to your SIM or to be prompted: Ask on saving.
- **View Contacts from**: allows you to view contacts from you SIM card, from you phone or from both your SIM card and your phone.
- **Sort Contacts by**: allows you to sort your contacts by first name or by last name.

- **Own Number:** provides the number for your phone.
- **Copy All to:** allows you to choose to copy all contacts to your phone or to your SIM card.
- **Delete All:** allows you to delete all your contacts from the Phone or from your SIM Card.
- **Used Space:** allows you to check how many names and numbers are stored in the Phone and on the SIM card. You can also see the current storage capacity of the memory.

Section 8: Browser

This section outlines the Browser features available on your phone. For more information, contact your service provider.

Browser

Your phone is equipped with a WAP (Wireless Application Protocol) browser which provides you wireless access and navigation to the Web using your phone.

To access Browser via the menu, follow these steps:

1. In Idle mode, press **Menu** → **Browser** and press the **Select** soft key or the  key to enter the menu.

To access Browser directly, follow these steps:

- In Idle mode, press the **Browser** soft key to access the Browser menu.

The following options are available:

Home

Selecting this menu connects the phone to the network and loads the Browser homepage.

The content of the Browser startup homepage depends on your Wireless Web service provider. To scroll through the screen, use the **Up** and **Down** keys.

To go to the startup homepage from any other screen in the Browser, use the **Home** option.

- In Idle mode, press **Menu** → **Browser** → **Home**.

Exiting the Browser

- To exit the browser at any time, simply press the  key.

Navigating the Browser

1. To scroll through browser items, press the **Up** or **Down** Navigation key.

2. To select browser items, press the  key.
3. To return to the previous page, press the **Back** soft key or the  key.
4. Press the **Back** soft key until the startup **Home** page displays.

Favorites

This menu stores preset URL addresses: My Account, Chat Group, News, Sports, Weather and MEdia Net, and nine others that you can designate.

To store a URL address:

- In Idle mode, press **Menu → Browser → Favorites** and press the **Select** soft key or the  key.

Enter URL

This menu allows you to manually enter the URL address of a web site that you wish to access and to add it to your Favorites.

- In Idle mode, press **Menu → Browser → Enter URL** and press the **Select** soft key or the  key.

Note: For further details about entering characters, see “*Entering Text*” on page 31.

Clear Cache

You can clear the information stored in the cache memory, the phone’s temporary memory that stores the most recently accessed Web pages.

- In Idle mode, press **Menu → Browser → Clear Cache** and press the **Select** soft key or the  key.

A confirmation message displays, “**Clear Cache?**” Press the **Yes** soft key to confirm the deletion or press the **No** soft key to discontinue.

Section 9: Games & Apps

This section outlines the applications available in the Games & Apps menu: Games, Music Player, Camera, Voice Recorder and Image Editor.

Games

You can download MIDlets (Java applications that run on mobile phones) from various sources using the browser and then storing them in your phone.

- In Idle mode, press **Menu → Games & Apps → Games**.

Music Player

You can organize music files stored on your Phone and Memory card into playlists. Music Player enables you to manage these music files and to add, rearrange and remove files.

- In Idle mode, press **Menu → Games & Apps → Music player**.

Camera

For information on using your camera, see “*Camera*” on page 73.

Voice recorder

In this menu, you can record an audio file up to one minute long and then immediately send it as a message.

- In Idle mode, press **Menu → Games & Apps → Voice Recorder**.

Image Editor

The Image Editor option allows you to edit the selected image by adding effects, adding a frame, emoticon or clip art. You can also set the edited image as wallpaper or a Picture ID icon.

- In Idle mode, press **Menu → Games & Apps → Image Editor**.

Section 10: My Folder

The My Folder menu provides access to stored files on your phone and on your memory card. You can access these storage locations: Sounds, Images, Videos, Music, Other Files, Memory Card and Memory Status, and you can create your own folders.

Sounds

In the Sounds menu, you can view the list of sounds downloaded from the web server or received in picture messages and you can keep a Voice List of your own audio clips. You can also set one of your stored sounds as the current ring tone.

► In Idle mode, press **Menu → My Folder → Sounds**.

Images

In the Images menu you can view your own photos taken with the built-in camera, the images you have downloaded from the web server or received in messages or the images stored on your memory card. You can set an image as the current background image.

► In Idle mode, press **Menu → My Folder → Images**.

Videos

In this menu, you can view the list of videos downloaded from the web server or received in picture messages. You can also view a video saved to your Videos folder or memory card.

► In Idle mode, press **Menu → My Folder → Videos**.

Music

The Music menu provides access to the music files stored in your music folder or on your memory card.

► In Idle mode, press **Menu → My Folder → Music**.

Other Files

The Other Files menu provides access to other files you have stored on your phone and to the files stored on your Memory Card.

- In Idle mode, press **Menu → My Folder → Other Files**.

Memory card

In this menu you can view and manage the memory card and the stored images: Videos, Music, Sounds, Other Files, Pictures, My_Videos, My_Ringtones, My_Music, My_Images, My very own pictures and Audio.

- In Idle mode, press **Menu → My Folder → Memory card**.

Memory Status

You can check the amount of memory being used and memory remaining for the My Folder categories: Sounds, Images, Videos, Music and Other files or the memory used and remaining for your Memory Card.

- In Idle mode, press **Menu → My Folder → Memory status**.

Section 11: Tools

This section outlines the various applications that are available on your phone Tools menu.

Tools

The Tools menu allows you to set alarms, schedule appointments, view the calendar, create a note, perform simple math calculations, calculate the amount of your tip, perform unit conversions, set a timer, use a stopwatch and check world time.

Alarm

The Alarm feature enables you to set up to 3 alarms to ring at specified times.

- ▶ In Idle mode, press **Menu → Tools → Alarm**. Then press **Select** or **OK**.

Calendar

With the Calendar feature, you can elect to view your calendar by month, week, or day; set schedules and note anniversaries; make a tasks list; write memos to keep track of your schedule; view a list of missed alarms events and view an overview of items on your calendar.

- ▶ In Idle mode, press **Menu → Tools → Calendar**. Then press **Select** or **OK**.

Notes

This option allows you to create notes to add to your events.

- ▶ In Idle mode, press **Menu → Tools → Notes**. Then press **Select** or **OK**.

Calculator

With this feature, you can use the phone as a calculator. The calculator provides the basic arithmetic functions; addition, subtraction, multiplication, and division.

- ▶ In Idle mode, press **Menu → Tools → Calculator**. Then press **Select** or **OK**.

Tip Calculator

The Calculator helps you compute the percentage amount for tip. Use the following procedures to calculate a tip amount.

- In Idle mode, press **Menu → Tools → Tip Calculator**. Then press **Select** or **OK**.

Converter

The Converter menu converts measurements and amounts in these categories: currency, length, weight, volume, area and temperature.

- In Idle mode, press **Menu → Tools → Converter**.

Timer

The Timer feature enables you to set a timer.

- In Idle mode, press **Menu → Tools → Timer**.

Stopwatch

This feature allows you to use a stopwatch. Press **Start** **OK** key to start the stopwatch. Press **Reset** to erase all previously recorded stopwatch times. Press **Lap** **OK** to view the lap time. You can view up to 3 lap times.

- In Idle mode, press **Menu → Tools → Stopwatch**.

World Time

This feature allows you to find out what time it is another part of world, using the **Left** and **Right** Navigation keys.

There are two time lines available. You can set the first setting to your home city and then use the second setting to check other city times.

- In Idle mode, press **Menu → Tools → World time**.

Section 12: Changing Your Settings

This section explains the sound and phone settings for your phone. It includes settings for sound options, display, phone, call settings, Bluetooth, browser and reset settings.

Sound Settings

You can customize various sound settings.

- ▶ In Idle mode, press **Menu → Settings → Sound Settings**.

Incoming Call

This menu allows you to select a ring melody, the volume and the alert type.

- ▶ In Idle mode, press **Menu → Settings → Sound Settings → Incoming Call**.

Message Tone

This menu allows you to set up the ringer for incoming messages. You can set the Tone, Alert Type, and Repetition.

- ▶ In Idle mode, press **Menu → Settings → Sound Settings → Message Tone**.

Keypad Tone

This menu allows you to select the key tone and volume that the phone sounds when you press a key.

- ▶ In Idle mode, press **Menu → Settings → Sound Settings → Keypad Tone**.

Power on/off Tone

This menu allows you to select the melody that the phone sounds when it is switched on and off.

- ▶ In Idle mode, press **Menu → Settings → Sound Settings → Power on/off Tone**.

Slide Tone

This menu allows you to choose from four tones, or **Off** when sliding the phone open.

Extra Tones

This menu allows you to choose to hear tones for Minute Minder, Connection Tone and Alerts On Call.

Vibration Mode

Vibration Mode is convenient when you wish to stop the phone from making any noise, (in a theater for example).

1. In Idle mode, press and hold the  key until the “**Vibration mode on**” message and the **Vibration Mode** icon () display.
2. Press and hold the  key until the “**Vibration mode off**” message displays. The **Vibration Mode** icon () no longer displays.

Display Settings

The Display Settings provide the following menus to choose how you view your display: Wallpaper, Main Menu Style, Info Display, Dialing Display and Backlight.

- In Idle mode, press **Menu → Settings → Display Settings**. Then press **Select** or .

Phone Settings

You can customize various phone settings.

- In Idle mode, press **Menu → Settings → Phone settings**.

Time & Date

This menu allows you to change the current time and date displayed.

- In Idle mode, press **Menu → Settings → Phone Settings → Time & Date**.

Language

This menu allows you to select a display language for Text language and Input mode. Choose from **Automatic**, **English** and **Español**.

Shortcuts

The Shortcuts menu allows you to reset the destination of the Right, Left, Up and Down Navigation keys in Idle mode.

1. Press **Menu → Settings → Phone Settings → Shortcuts**.
A diagram displays.
2. Press the **Right**, **Left**, **Up** and **Down** Navigation keys to see the current settings.
3. Press **Options** to select **Change**, **Remove** or **Remove all** and modify the settings.

Own Number

- Press **Menu → Settings → Phone Settings → Own Number** to view your own number.

Airplane Mode

Airplane Mode allows you to use many of your phone's features, such as Games, Voice Notes, 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.

Auto Key Lock

1. In Idle mode, press **Menu → Settings → Phone Settings → Auto Key Lock**.
2. Select **On** or **Off** and press **Save**.

HAC Mode

Enabling HAC will adjust audio for use with HAC Hearing Aids.

1. In Idle mode, press **Menu → Settings → Phone Settings → HAC Mode**.
2. Highlight **On** or **Off** and press **Save**. When you enable HAC mode, the message displays, “**Enabling HAC will adjust audio for use with HAC Hearing Aids. Continue?**”
3. Select **Yes** to enable HAC or **No** to discontinue.

USB Mode

1. In Idle mode, press **Menu → Settings → Phone Settings → USB Mode**.
2. Highlight your selection, **Modem** or **Mass Storage**, and press **Save**.

Security

The Security feature enables you to restrict the use of your phone by others and to restrict the types of calls.

Various codes and passwords are used to protect the features of your phone.

Lock Phone

1. In Idle mode, press **Menu → Settings → Phone Settings → Security → Lock Phone**.
2. Highlight **Enable** or **Disable** and press **Select** to save your setting. To Enable Lock Phone, you are prompted to **Enter password**.

Change Password

The Change password feature allows you to change your current phone password to a new one. You must enter the current password before you can specify a new one. Once you enter a new password, you are asked to confirm the change by entering the password again.

1. In Idle mode, press **Menu → Settings → Phone Settings → Security → Change Password**.

2. Enter a password in the **Enter new password** field and press **OK**.
3. Enter the new password again.

Note: If you change your password, be sure to record it and keep it in a safe place. If you forget your password, contact your Service Provider for assistance.

Check PIN Code

When the Check PIN code feature is enabled, you must enter your PIN each time you switch on the phone. Consequently, any person who does not have your PIN cannot use your phone without your approval.

Note: Before enabling or disabling the PIN Check feature, you must enter your PIN.

The following options are available:

- **Disable:** the phone connects directly to the network when you switch it on.
- **Enable:** you must enter the PIN each time the phone is switched on.

Change PIN Code

This feature allows you to change your current PIN, provided that the Check PIN code feature is enabled. You must enter the current PIN before you can specify a new one.

Once you enter a new PIN, you are asked to confirm the PIN number by re-entering it.

Set FDN Mode

FDN mode, if supported by your SIM card, allows you to restrict your outgoing calls to a limited set of phone numbers. For more information, refer to “*FDN Contacts*” on page 55.

To enable or disable FDN Mode, follow these steps:

1. In Idle mode, press **Menu → Settings → Phone Settings → Security → Set FDN Mode**.

2. Highlight **Enable** or **Disable** and press **Select** to save your setting. To Enable FDN Mode, you are prompted to **Enter PIN2 code**.

Change PIN2 code

- In Idle mode, press **Menu → Settings → Phone Settings → Security → Change PIN2 code**.

Memory Status

Your phone displays information about the phone usage and memory available: **Shared Memory, Messages, Files, Games, Tools** and **Contacts**.

- In Idle mode, press **Menu → Settings → Phone Settings → Memory Status**.

Messaging Key

You can change the assignment for the messaging key

1. In Idle mode, press **Menu → Settings → Phone Settings → Messaging Key**. A list of options displays: **Create Message, Inbox** and **Games**.
2. Highlight your selection and press **Assign** to continue or **Cancel** to discontinue.

Call Settings

The Call Settings menu allows you to change the settings for Answer Options, Auto Redial, Show My Number and Call Waiting.

- **Answer Options:** allows you to choose to answer your incoming calls by pressing the **Send Key** or by pressing **Any Key**.
- **Auto Redial:** allows you to turn **On** or **Off** the Auto Redial feature.
- **Show My Number:** allows you to select from these options: **Set By Network, Hide Number** or **Show Number**.
- **Call Waiting:** allows you to Activate or Deactivate Call Waiting for Voice calls, for Data calls or choose to Cancel All.

Bluetooth

Setting Up Your Bluetooth Devices

To pair your phone with a Bluetooth headset, make sure that both your headset and your phone are fully charged. To ensure a successful pairing, pair your devices in a private environment away from other devices with Bluetooth. Have your headset within a range of 30 feet from your phone.

1. In Idle mode, press **Menu** → **Settings** → **Bluetooth** → **My Devices**.

The message “**Search new device**” scrolls across your screen.

Note: Make sure your device is on and in Paring or Bonding Mode.

2. Press **Select**.
3. If your phone prompts “Bluetooth is currently turned off. Turn on?”
Select **Yes**.
4. Use the arrow keys to go to where your headset model is listed. Press **Select**.
5. If you are prompted to enter a Security Code, enter the security code and then press **OK**.

Note: Refer to the user guide of the device you are attempting to pair with for the default security code. The default security code for most devices is 0000.

6. Wait for your phone to pair up to your device. Your phone displays the message “**Connected**” once the pairing is completed.

Browser Settings

You can access the following Browser Settings in this menu: **Clear Cache**, **Empty Cookies**, **Cookie Options**, **Preferences**, **Certificates** and **About Browser**. Follow the screen prompts.

► In Idle mode, press **Menu** → **Settings** → **Browser Settings**.

Reset Settings

Reset Settings

The Reset Phone option resets your settings to factory defaults. You can choose from a list of settings to reset: All, Phone, Display, Sound, Bluetooth and Call Settings.

1. In Idle mode, press **Menu** → **Settings** → **Reset Settings** → **Reset Settings**.
The list of settings to reset displays.
2. Highlight your selection and press **OK** to check.
3. When you have made your selection, press **Reset**. The confirmation message “**Reset settings?**” displays.
4. Press **Yes** to reset or **No** to discontinue. You are prompted: “**Enter password.**”

Master Reset

The Master Reset option resets all settings to factory defaults and all user data is deleted. You can choose from the following options:

- **Clear User Data:** clears user data and deletes all information saved to the phone including pictures, messages and phonebook entries.
 - **Restore Settings:** Changes your device settings to factory conditions.
 - **Restore And Clear:** Restores your device to factory conditions. You will lose setting changes and information saved to the device.
1. In Idle mode, press **Menu** → **Settings** → **Reset Settings** → **Master Reset**.

2. Highlight your option and press **Select** or . The display describes the selected operation and prompts: **“If you want to continue, enter 6 zeros and press OK.”**
3. Enter 6 zeros in the field provided and press **OK** to continue or **Back** to discontinue.

Section 13: Camera

This section explains how to use the camera on your phone. You can take photographs by using the built-in camera functionality.

Using the Camera

Using the camera module in your phone, you can take photos of people or events while on the move. Additionally, you can send these photos to other people in a Picture Messaging message or set a wallpaper or picture ID image.

Note: Do not take photos of people without their permission.
Do not take photos in places where cameras are not allowed.
Do not take photos in places where you may interfere with another person's privacy.

Take and Send

Your camera produces photos in JPEG format.

Note: When you take a photo in direct sunlight or in bright conditions, shadows may appear on the photo.

1. In Idle mode, press **Menu** → **Games & Apps** → **Camera**.

Tip: Press the **Camera** key  on the right side of the phone as a shortcut to access the camera module.

2. Highlight **Take and Send** and press **Select** or .
3. Adjust the image by aiming the camera at the subject.
4. Press the **Left** soft key  to access the camera options.

Tip: You can use the keypad to quickly change the camera options.

5. Press the **Camera** key  or  key to take the photo.

Photos

1. In Idle mode, press **Menu** → **Games & Apps** → **Camera** → **Photos**.

When you access this menu, your phone displays the photos in Line view, which shows them as small images. Use the Navigation keys to scroll through the photos.

2. To view the photos on the full screen, press **OK**. To go back to Line view, press the **Back** soft key or the **C** key.

Deleting a Photo

You can delete photos one by one or all at one time.

1. From the **Photos** menu, highlight the photo you want to delete.
2. Press the **Options** soft key and select **Delete** then press the **Right** Navigation key.
3. Select **Selected** or **Multiple**. Then press **Select** or **OK**.
4. Press the **Yes** soft key to confirm the deletion.
5. Press **PWR END** when you are finished.

Record video

Tip: When shooting video in direct sunlight or in bright conditions, it is recommended that you provide your subject with sufficient light by putting the light source behind you.

1. In Idle mode, press **Menu** → **Games & Apps** → **Camera**.
2. Select **Record video**. Then press **Select** or **OK**.
3. Before filming the video, press **Menu** to access camcorder options.
4. Adjust the image by aiming the camera at the subject.
5. Press the **OK** key to begin shooting video.

6. Press **Stop** to stop the recording.

— or —

Press the  key to stop the recording and save the video file to your Videos folder.

7. Once the file saves, press the  key to play back your video for review.

Videos

In the Video menu, you can view a list of videos downloaded from the web server or received in multimedia messages. You can select a video clip from your Videos folder by scrolling to the video you want to view.

► In Idle mode, press **Menu → Games & Apps → Camera → Videos**.

When you access this menu, your phone displays the videos in Line view, which shows them as small images. Use the Navigation keys to scroll through the photos.

Section 14: Health and Safety Information

This section outlines the safety precautions associated with using your phone. These safety precautions should be followed to safely use your phone.

Health and Safety Information

Exposure to Radio Frequency (RF) Signals

Specific Absorption Rate (SAR) Certification Information

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the exposure limits for radio frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. government.

These FCC exposure limits are derived from the recommendations of two expert organizations, the National Council on Radiation Protection and Measurement (NCRP) and the Institute of Electrical and Electronics Engineers (IEEE).

In both cases, the recommendations were developed by scientific and engineering experts drawn from industry, government, and academia after extensive reviews of the scientific literature related to the biological effects of RF energy.

The exposure limit set by the FCC for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR is a measure of the rate of absorption of RF energy by the human body expressed in units of watts per kilogram (W/kg). The FCC requires wireless phones to comply with a safety limit of 1.6 watts per kilogram (1.6 W/kg).

The FCC exposure limit incorporates a substantial margin of safety to give additional protection to the public and to account for any variations in measurements.

SAR tests are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the 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. This is because the phone is designed to operate at multiple

power levels so as 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 new model phone is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the exposure limit established by the FCC. Tests for each model phone are performed in positions and locations (e.g. at the ear and worn on the body) as required by the FCC.

For body worn operation, this phone has been tested and meets FCC RF exposure guidelines when used with an accessory that contains no metal and that positions the handset a minimum of 1.5 cm from the body.

Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

The FCC has granted an Equipment Authorization for this mobile phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. The maximum SAR values for this model phone as reported to the FCC are:

- Head: 0.57 W/Kg.
- Body-worn: 0.74 W/Kg.

SAR information on this and other model phones can be viewed online at <http://www.fcc.gov/oet/ea>. To find information that pertains to a particular model phone, this site uses the phone FCC ID number which is usually printed somewhere on the case of the phone.

Sometimes it may be necessary to remove the battery pack to find the number. Once you have the FCC ID number for a particular phone, follow the instructions on the website and it should provide values for typical or maximum SAR for a particular phone. Additional product specific SAR information can also be obtained at www.fcc.gov/cgb/sar.

Please Note the Following Information When Using Your Handset

1. WARNING REGARDING DISPLAY

The display on your handset is made of glass or acrylic and could break if your handset is dropped or if it receives significant impact. Do not use if screen is broken or cracked as this could cause injury to you.

2. WARRANTY DISCLAIMER: PROPER USE OF A TOUCH SCREEN HANDSET

If your handset has a touchscreen display, please note that a touchscreen responds best to a light touch from the pad of your finger or a non-metallic stylus. Using excessive force or a metallic object when pressing on the touchscreen may damage the tempered glass surface and void the warranty.

Samsung Mobile Products and Recycling

Samsung cares for the environment and encourages its customers to recycle Samsung mobile phones and genuine Samsung accessories.

Go to: <http://mobile.samsungusa.com/recycling/index.jsp> or 1-800-822-8837 for more information.

UL Certified Travel Adapter

The Travel Adapter for this phone has met applicable UL safety requirements. Please adhere to the following safety instructions per UL guidelines.

FAILURE TO FOLLOW THE INSTRUCTIONS OUTLINED MAY LEAD TO SERIOUS PERSONAL INJURY AND POSSIBLE PROPERTY DAMAGE.

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS.

DANGER - TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS.

FOR CONNECTION TO A SUPPLY NOT IN NORTH AMERICA, USE AN ATTACHMENT PLUG ADAPTOR OF THE PROPER CONFIGURATION FOR THE POWER OUTLET. THIS POWER UNIT IS INTENDED TO BE CORRECTLY ORIENTATED IN A VERTICAL OR HORIZONTAL OR FLOOR MOUNT POSITION.

Consumer Information on Wireless Phones

The U.S. Food and Drug Administration (FDA) has published a series of Questions and Answers for consumers relating to radio frequency (RF) exposure from wireless phones. The FDA publication includes the following information:

What kinds of phones are the subject of this update?

The term wireless phone refers here to hand-held wireless phones with built-in antennas, often called "cell," "mobile," or "PCS" phones. These types of wireless phones can expose the user to measurable radio frequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of 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 well within the FCC's compliance limits.

Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radio frequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested

that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

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

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radio frequency energy (RF) at a level that is hazardous to the user. In such a case, 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, 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.

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
- Federal Communications Commission

- Occupational Safety and Health Administration
- National Telecommunications and Information Administration

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

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. FCC relies on FDA and other health agencies for safety questions about wireless phones.

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 primary subject of the safety questions discussed in this document.

What are the results of the research done already?

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

However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in 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 phones 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.

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

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years.

However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but ten or more years' follow-up may be needed to provide answers about some health effects, such as cancer.

This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

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

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). 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.

FDA and Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations.

CTIA-funded research is conducted through contracts to 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.

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.

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.

Do hands-free kits for wireless phones reduce risks from exposure to RF emissions?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that hands-free kits reduce risks. Hands-free kits can be used with wireless phones for convenience and comfort. These systems reduce the absorption of RF energy in the head because the phone, which is the

source of the RF emissions, will not be placed against the head. On the other hand, if the phone is mounted against the waist or other part of the body during use, then that part of the body will absorb more RF energy. Wireless phones marketed in the U.S. are required to meet safety requirements regardless of whether they are used against the head or against the body. Either configuration should result in compliance with the safety limit.

Do wireless phone accessories that claim to shield the head from RF radiation work?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that accessories that claim to shield the head from those emissions reduce risks. Some products that claim to shield the user from RF absorption use special phone cases, while others involve nothing more than a metallic accessory attached to the phone.

Studies have shown that these products generally do not work as advertised. Unlike "hand-free" kits, these so-called "shields" may interfere with proper operation of the phone. The phone may be forced to boost its power to compensate, leading to an increase in RF absorption. In February 2002, the Federal Trade Commission (FTC) charged two companies that sold devices that claimed to protect wireless phone users from radiation with making false and unsubstantiated claims.

According to FTC, these defendants lacked a reasonable basis to substantiate their claim.

What about wireless phone interference with medical equipment?

Radio frequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, 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 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. FDA has tested 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.

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

Additional information on the safety of RF exposures from various sources can be obtained from the following organizations (Updated 1/1/2010):

- FCC RF Safety Program:
<http://www.fcc.gov/oet/rfsafety/>
- Environmental Protection Agency (EPA):
<http://www.epa.gov/radiation/>
- Occupational Safety and Health Administration's (OSHA):
<http://www.osha.gov/SLTC/radiofrequencyradiation/index.html>
- National Institute for Occupational Safety and Health (NIOSH):
<http://www.cdc.gov/niosh/>
- World Health Organization (WHO):
<http://www.who.int/peh-emf/>
- International Commission on Non-Ionizing Radiation Protection:
<http://www.icnirp.de>
- Health Protection Agency:
<http://www.hpa.org.uk/radiation>
- US Food and Drug Administration:
<http://www.fda.gov/Radiation-EmittingProducts/RadiationEmittingProductsandProcedures/HomeBusinessandEntertainment/CellPhones/default.htm>

Road Safety

Your wireless phone gives you the powerful ability to communicate by voice, almost anywhere, anytime. But an important responsibility accompanies the benefits of wireless phones, one that every user must uphold. Always comply with road safety regulations on using a mobile phone while driving. Using a mobile phone while driving can be dangerous.

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

1. Get to know your wireless phone and its features, such as speed dial and redial. If available, these features help you to place your call without taking your attention off the road.
2. When available, use a hands-free device. If possible, add an additional layer of convenience and safety to your wireless phone with one of the many hands free accessories available today.
3. Position your wireless phone within easy reach. Be able to access your wireless phone without removing your eyes from the road. If you get an incoming call at an inconvenient time, let your voice mail answer it for you.
4. Let the person you are speaking with know you are driving. Suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow, ice and even heavy traffic can be hazardous.
5. Do not take notes or look up phone numbers while driving. Jotting down a "to do" list or flipping through your address book takes attention away from your primary responsibility, driving safely.

6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan calls when your car will be stationary. If you need to make a call, dial only a few numbers, check the road and your mirrors, then continue.
7. Do not engage in stressful or emotional conversations that may be distracting. Make people you are talking with aware you are driving and suspend conversations that have the potential to divert your attention from the road.
8. Use your wireless phone to call for help. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident or medical emergencies.
9. Use your wireless phone to help others in emergencies. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.
10. Call roadside assistance or a special non-emergency wireless assistance number when necessary. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or other special non-emergency number.

"The wireless industry reminds you to use your phone safely when driving."

For more information, please call 1-888-901-SAFE, or visit our web-site www.ctia.org.

Important!: If you are using a handset other than a standard numeric keypad, please call 1-888-901-7233.

Provided by the Cellular Telecommunications & Internet Association.

Responsible Listening

Caution!: Avoid potential hearing loss.

Damage to hearing occurs when a person is exposed to loud sounds over time. The risk of hearing loss increases as sound is played louder and for longer durations. Prolonged exposure to loud sounds (including music) is the most common cause of preventable hearing loss. Some scientific research suggests that using portable audio devices, such as portable music players and cellular telephones, at high volume settings for long durations may lead to permanent noise-induced hearing loss. This includes the use of headphones (including headsets, earbuds, and Bluetooth or other wireless devices). Exposure to very loud sound has also been associated in some studies with tinnitus (a ringing in the ear), hypersensitivity to sound and distorted hearing.

Individual susceptibility to noise-induced hearing loss and potential hearing problem varies. Additionally, the amount of sound produced by a portable audio device varies depending on the nature of the sound, the device settings, and the headphones that are used. As a result, there is no single volume setting that is appropriate for everyone or for every combination of sound, settings and equipment.

You should follow some commonsense recommendations when using any portable audio device:

- Always turn the volume down before plugging the earphones into an audio source.
- Set the volume in a quiet environment and select the lowest volume at which you can hear adequately.
- When using headphones, turn the volume down if you cannot hear the people speaking near you or if the person sitting next to you can hear what you are listening to.

- Do not turn the volume up to block out noisy surroundings. If you choose to listen to your portable device in a noisy environment, use noise-cancelling headphones to block out background environmental noise. By blocking background environment noise, noise cancelling headphones should allow you to hear the music at lower volumes than when using earbuds.
- Limit the amount of time you listen. As the volume increases, less time is required before your hearing could be affected.
- Avoid using headphones after exposure to extremely loud noises, such as rock concerts, that might cause temporary hearing loss. Temporary hearing loss might cause unsafe volumes to sound normal.
- Do not listen at any volume that causes you discomfort. If you experience ringing in your ears, hear muffled speech or experience any temporary hearing difficulty after listening to your portable audio device, discontinue use and consult your doctor.

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

American Academy of Audiology

11730 Plaza American Drive, Suite 300

Reston, VA 20190

Voice: (800) 222-2336

Email: info@audiology.org

Internet: <http://www.audiology.org>

National Institute on Deafness and Other Communication Disorders

National Institutes of Health

31 Center Drive, MSC 2320

Bethesda, MD 20892-2320

Email: nidcdinfo@nih.gov

Internet: <http://www.nidcd.nih.gov/>

National Institute for Occupational Safety and Health (NIOSH)

395 E Street, S.W.

Suite 9200

Patriots Plaza Building

Washington, DC 20201

Voice: 1-800-35-NIOSH (1-800-356-4647)

1-800-CDC-INFO (1-800-232-4636)

Outside the U.S. 513-533-8328

Email: cdcinfo@cdc.gov

Internet: <http://www.cdc.gov/niosh/topics/noise/default.html>

1-888-232-6348 TTY

Operating Environment

Remember to follow any special regulations in force in any area and always switch your phone off whenever it is forbidden to use it, or when it may cause interference or danger.

When connecting the phone or any accessory to another device, read its user's guide for detailed safety instructions. Do not connect incompatible products.

As with other mobile radio transmitting equipment, users are advised that for the satisfactory operation of the equipment and for the safety of personnel, it is recommended that the equipment should only be used in the normal operating position (held to your ear with the antenna pointing over your shoulder if you are using an external antenna).

Using Your Phone Near Other Electronic Devices

Most modern electronic equipment is shielded from radio frequency (RF) signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone. Consult the manufacturer to discuss alternatives.

Implantable Medical Devices

A minimum separation of six (6) inches should be maintained between a handheld wireless phone and an implantable medical device, such as a pacemaker or implantable cardioverter defibrillator, to avoid potential interference with the device.

Persons who have such devices:

- Should ALWAYS keep the phone more than six (6) inches from their implantable medical device when the phone is turned ON;
- Should not carry the phone in a breast pocket;
- Should use the ear opposite the implantable medical device to minimize the potential for interference;
- Should turn the phone OFF immediately if there is any reason to suspect that interference is taking place;
- Should read and follow the directions from the manufacturer of your implantable medical device. If you have any questions about using your wireless phone with such a device, consult your health care provider.

For more information see:

<http://www.fcc.gov/oet/rfsafety/rf-faqs.html>

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

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

The intent of the HAC Act is to ensure reasonable access to telecommunications services for persons with hearing disabilities.

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

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

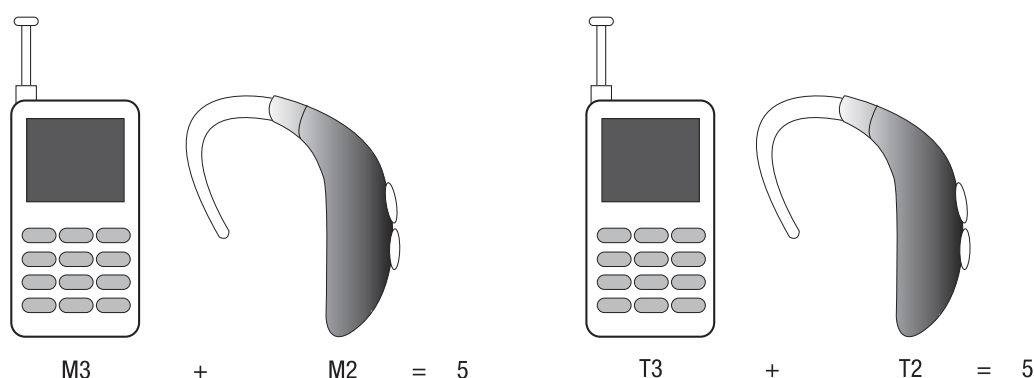
The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not be able to use a rated phone successfully. Trying out the phone with your hearing device is the best way to evaluate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

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

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

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

A sum of 5 is considered acceptable for normal use. A sum of 6 is considered for best use.



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

The M mark is intended to be synonymous with the U mark. The T mark is intended to be synonymous with the UT mark. The M and T marks are recommended by the Alliance for Telecommunications Industries Solutions (ATIS). The U and UT marks are referenced in Section 20.19 of the FCC Rules.

The HAC rating and measurement procedure are described in the American National Standards Institute (ANSI) C63.19 standard.

Other Medical Devices

If you use any other personal medical devices, 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. Switch 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 be using 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

Switch your phone off in any facility where posted notices require you to do so.

Potentially Explosive Environments

Switch 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.

Users are advised to switch the phone off while at a refueling point (service station). Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants or where blasting operations are in progress.

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include below deck on boats, 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.

Emergency Calls

This phone, like any wireless phone, operates using radio signals, wireless and landline networks as well as user-programmed functions, which cannot guarantee connection in all conditions areas or circumstances. Therefore, you should never rely solely on any wireless phone for essential communications (medical emergencies, for example). Before traveling in remote or underdeveloped areas, plan an alternate method of contacting emergency services personnel.

Remember, to make or receive any calls the phone must be switched on and in a service area with adequate signal strength. Emergency calls may not be possible on all wireless phone networks or when certain network services and/or phone features are in use. Check with local service providers.

To make an emergency call:

1. If the phone is not on, switch it on.
2. Key in the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.
3. Press the  key.

If certain features are in use (call barring, for example), you may first need to deactivate those features before you can make an emergency call. Consult this document and your local cellular service provider.

When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your phone may be the only means of communication at the scene of an accident; do not cut off the call until given permission to do so.

Restricting Children's access to your Phone

Your phone is not a toy. Do not allow children to play with it because they could hurt themselves and others, damage the phone or make calls that increase your phone bill.

FCC Notice and Cautions

FCC Notice

The phone may cause TV or radio interference if used in close proximity to receiving equipment. The FCC can require you to stop using the phone if such interference cannot be eliminated.

Vehicles using liquefied petroleum gas (such as propane or butane) must comply with the National Fire Protection Standard (NFPA-58). For a copy of this standard, contact the National Fire Protection Association:

NFPA (National Fire Protection Agency)

1 Batterymarch Park

Quincy, Massachusetts

USA 02169-7471

Internet: <http://www.nfpa.org>

Cautions

Any changes or modifications to your phone not expressly approved in this document could void your warranty for this equipment, and void your authority to operate this equipment. Only use approved batteries, antennas and chargers. The use of any unauthorized accessories may be dangerous and void the phone warranty if said accessories cause damage or a defect to the phone.

Although your phone is quite sturdy, it is a complex piece of equipment and can be broken. Avoid dropping, hitting, bending or sitting on it.

Other Important Safety Information

- Only qualified personnel should service the phone or install the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the device.
- Ensure that any mobile phones or related equipment installed in your vehicle are securely mounted.
- Check regularly that all wireless phone equipment in your vehicle is mounted and operating properly.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, its parts or accessories.
- For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including both installed or portable wireless equipment near or in the area over the air bag or in the air bag deployment area. If wireless equipment is improperly installed and the air bag inflates, serious injury could result.
- Switch your phone off before boarding an aircraft. The use of wireless phone in aircraft is illegal and may be dangerous to the aircraft's operation.
- Failure to observe these instructions may lead to the suspension or denial of telephone services to the offender, or legal action, or both.

Product Performance

Getting the Most Out of Your Signal Reception

The quality of each call you make or receive depends on the signal strength in your area. Your phone informs you of the current signal strength by displaying a number of bars next to the signal strength icon. The more bars displayed, the stronger the signal.

If you're inside a building, being near a window may give you better reception.

Understanding the Power Save Feature

If your phone is unable to find a signal after searching, a Power Save feature is automatically activated. If your phone is active, it periodically rechecks service availability or you can check it yourself by pressing any key.

Anytime the Power Save feature is activated, a message displays on the screen. When a signal is found, your phone returns to standby mode.

Understanding How Your Phone Operates

Your phone is basically a radio transmitter and receiver. When it's turned on, it receives and transmits radio frequency (RF) signals. When you use your phone, the system handling your call controls the power level. This power can range from 0.006 watts to 0.2 watts in digital mode.

Maintaining Your Phone's Peak Performance

For the best care of your phone, only authorized personnel should service your phone and accessories. Allowing unqualified personnel to service your phone may result in damage to your phone and may void the warranty.

There are several simple guidelines to operating your phone properly and maintaining safe, satisfactory service.

- To ensure that the Hearing Aid Compatibility rating for your phone is maintained, secondary transmitters such as Bluetooth and WLAN components must be disabled during a call.
- If your phone is equipped with an external antenna, hold the phone with the antenna raised, fully-extended and over your shoulder.
- Do not hold, bend or twist the phone's antenna, if applicable.
- Do not use the phone if the antenna is damaged.
- If your phone is equipped with an internal antenna, obstructing the internal antenna could inhibit call performance.
- Speak directly into the phone's receiver.
- If your phone has a SIM or memory card: (i) handle the SIM or memory card with care, (ii) do not remove a card while the phone is transferring or accessing information, as this could

result in loss of data and/or damage to the card of phone, (iii) protect cards from strong shocks, static electricity, and electrical noise from other devices, and (iv) do not touch gold-colored contacts or terminals with your fingers or metal objects (if dirty, wipe the card with a soft cloth).

- Avoid exposing your phone and accessories to rain or liquid spills. If your phone does get wet, immediately turn the power off and remove the battery. If it is inoperable, call Customer Care for service.

Availability of Various Features/Ring Tones

Many services and features are network dependent and may require additional subscription and/or usage charges. Not all features are available for purchase or use in all areas. Downloadable Ring Tones may be available at an additional cost. Other conditions and restrictions may apply. See your service provider for additional information.

Battery Standby and Talk Time

Standby and talk times will vary depending on phone usage patterns and conditions. Battery power consumption depends on factors such as network configuration, signal strength, operating temperature, features selected, frequency of calls, and voice, data, and other application usage patterns.

Battery Precautions

- Avoid dropping the cell phone. Dropping it, especially on a hard surface, can potentially cause damage to the phone and battery. If you suspect damage to the phone or battery, take it to a service center for inspection.
- Never use any charger or battery that is damaged in any way.
- Do not modify or remanufacture the battery as this could result in serious safety hazards. Use batteries only for their intended use.
- If you use the phone near the network's base station, it uses less power; talk and standby time are greatly affected by the signal strength on the cellular network and the parameters set by the network operator.
- Follow battery usage, storage and charging guidelines found in the user's guide.

- Battery charging time depends on the remaining battery charge and the type of battery and charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time (talk time and standby time) is noticeably shorter than normal, it is time to buy a new battery.
- If left unused, a fully charged battery will discharge itself over time and must be recharged before use.
- Use only Samsung-approved batteries and recharge your battery only with Samsung-approved chargers which are specifically designed for your phone. When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, since overcharging may shorten its life.
- Do not use incompatible cell phone batteries and chargers. Some Web sites and second-hand dealers, not associated with reputable manufacturers and carriers, might be selling incompatible or even counterfeit batteries and chargers. Consumers should purchase manufacturer or carrier recommended products and accessories. If unsure about whether a replacement battery or charger is compatible, contact the manufacturer of the battery or charger.
- Misuse or use of incompatible phones, batteries, and charging devices could result in damage to the equipment and a possible risk of fire, explosion, leakage serious injuries, damage to your phone, or other serious hazard.
- Extreme temperatures will affect the charging capacity of your battery: it may require cooling or warming first.
- Do not leave the battery in hot or cold places, (below 0 °C (32 °F) or over 45 °C (113 °F) such as in a car in summer or winter conditions, as you will reduce the charging capacity and lifetime of the battery. Always try to keep the battery at room temperature. A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0 °C (32 °F).
- Do not place the battery in, on or near areas that may get very hot, such as on or near a microwave oven, cooking surface, cooking appliance, iron, or radiator. Batteries may explode when overheated.

- Do not get your phone or battery wet. Even though they will dry and appear to operate normally, the circuitry could slowly corrode and pose a safety hazard.
- Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip or pen) causes a direct connection between the + and - terminals of the battery (metal strips on the battery), for example when you carry a spare battery in a pocket or bag. Short-circuiting the terminals may damage the battery or the object causing the short-circuiting.
- Do not permit a battery out of the phone to come in contact with metal objects, such as coins, keys or jewelry.
- Do not crush, puncture or put a high degree of pressure on the battery as this can cause an internal short-circuit, resulting in overheating.
- Dispose of used batteries in accordance with local regulations. In some areas, the disposal of batteries in household or business trash may be prohibited. Do not handle a damaged or leaking Lithium Ion (Li-Ion) battery. For safe disposal options for Li-Ion batteries, contact your nearest Samsung authorized service center. Always recycle. Do not dispose of batteries in a fire.

Care and Maintenance

Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you fulfill any warranty obligations and allow you to enjoy this product for many years.

- Keep the phone and all its parts and accessories out of the reach of small children.
- Keep the phone dry. Precipitation, humidity and liquids contain minerals that will corrode electronic circuits.
- Do not use the phone with a wet hand. Doing so may cause an electric shock to you or damage to the phone.
- Do not use or store the phone in dusty, dirty areas, as its moving parts may be damaged.
- Do not store the phone in hot areas (over 45 °C (113 °F)). High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.

- Do not store the phone in cold areas (below 0 °C (32 °F)). When the phone warms up to its normal operating temperature, moisture can form inside the phone, which may damage the phone's electronic circuit boards.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the phone. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.
- Do not paint the phone. Paint can clog the device's moving parts and prevent proper operation.
- Do not put the phone in, on or near areas that may get very hot, such as a microwave oven, cooking surface, cooking appliance, iron or a radiator. Do not dispose of the phone in a fire. The phone may explode when overheated.
- If your phone is equipped with an external antenna, use only the supplied or an approved replacement antenna. Unauthorized antennas or modified accessories may damage the phone and violate regulations governing radio devices.
- If the phone, battery, charger or any accessory is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.
- Dispose of phones in accordance with local regulations. In some areas, the disposal of phones in household or business trash may be prohibited. For safe disposal options for phones, contact your nearest Samsung authorized service center.