

Samsung R100

**P O R T A B L E
T R I - B A N D
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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Section 1: Getting Started

This section explains how to start using your Samsung R100.

Understanding this User Manual

The chapters of this manual generally follow the same order as the menus and sub-menus in your phone.

Notes and Tips

Throughout this manual there is text that is set apart from the rest, intended to point out important information, as follows:

- **Notes:** Explains alternative options within the current feature, menu, or sub-menu.
- **Tips:** Provides quick or innovative methods for performing functions related to the subject.
- **Important:** Points out important information about the current feature that could affect performance, or even damage your phone.
- **Example:** Gives an example of the procedure.

Text Conventions

This manual provides condensed information about how to use your phone. To make this possible, the following terms and icons appear in place of often-used procedural steps:

- highlight** Use the Navigation key to move a highlighting effect to a menu item or screen item of interest.
- select** After “highlighting” a menu item or screen item, press the **OK** key to launch, access, or save a highlighted menu item or screen field of interest.
- Used in place of “select” in long “drill down” procedure steps.

Example: “...Settings → Call Settings → Call Answer...”

Installing and Removing the Battery

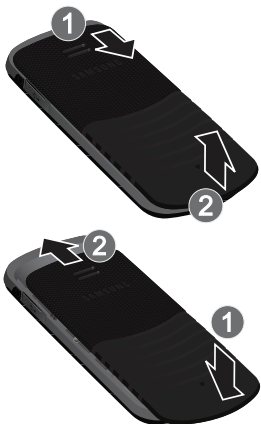
Note: Your phone comes packaged with a partially-charged rechargeable Li-Ion battery and travel adapter.

Important!: You must fully charge the battery the first time you use your phone, otherwise you could damage the battery.

Battery Cover

Remove the battery cover to access the battery.

- ▶ To **remove the battery cover**, press on the arrow while sliding the cover, then lift the battery cover slightly and slide the cover off.
- ▶ To **replace the battery cover**, press the top end of the battery cover down lightly, and slide it over the battery until it clicks into place.




Install the Battery



- ▶ Match the gold contacts on the battery to those on the phone, then press the battery down into the phone.

Remove the Battery

Before removing the battery, turn off the phone by pressing and holding the  key.



- ▶ Lift the end of the battery up and out of the phone.

Charging the Battery




Your phone is powered by a rechargeable standard Li-Ion battery.

Only use Samsung-approved charging devices and batteries.

Samsung accessories are designed to maximize battery life. **Use of other accessories may invalidate your warranty and may cause damage.**

Low battery indicator

The battery indicator in the upper-right corner of the display indicates power level. Monitor the battery strength and ensure your battery is adequately charged. If you continue to use your phone without charging its battery, the phone will shut down.

- Five bars  indicate a full charge.
- An empty battery icon  indicates a near-empty battery.
- A blinking empty battery icon  and a tone sounding indicate you have two to three minutes before the battery is too low to operate the phone.

Using the Travel Adapter

The travel adapter included with your phone is a convenient, light-weight charger that rapidly charges your phone from any 120/220 VAC outlet.

Important! For connection to an electrical supply not located in North America, you must use an adapter of the proper configuration for the power outlet. Use of the wrong adapter could damage your phone and void your warranty.

1. Plug the large end of the Travel Adapter into a standard 120 VAC or 220 VAC wall outlet.





2. Insert the small end of the Travel Adapter into the charger/accessory connector on the side of your phone. You must unplug the adapter before removing the battery from the phone during charging to avoid damage.

Activating Your Phone

Contact your Wireless Carrier and follow their instructions for obtaining service, if necessary. We suggest that you read this guide to fully understand the services your phone supports.

Turning Your Phone On


- ▶ Press and hold the  key until the display lights. The phone searches for a network signal, and the time, date, and day appear on the display.

If you are outside of your carrier's coverage or roaming area, the No Service icon  appears at the top of the phone's display. If you cannot place or receive calls, try later when service is available, or at another location.

Note: As with any other radio-transmitting device, do not touch the antenna while using your phone as this can affect call quality and can cause the phone to operate at a higher power level than is necessary.


Turning Your Phone Off

- ▶ Press and hold the  key for two or more seconds. Your phone powers off.


Note: If your phone is on and you press  for less than one second, the phone will not power off. This prevents your phone from being turned off accidentally.

Setting Up Your Voicemail

Voicemail allows callers to leave voice messages, which you can retrieve at any time.

- ▶ In Standby mode, press and hold the  key, or dial your mobile number to dial Voicemail. Follow the prompts in the new user tutorial to set up your mail box.

Listening to Voicemail

- ▶ In Standby mode, press and hold the  key or dial your mobile number. After connecting, you will hear your voice greeting, and the prompt to enter your password.

Note: Once your Voicemail account has been set up, you can use the **Voicemail** folder (under the **Message** menu) to view details of voice messages in your Voicemail box.

Attaching a Headset (Optional)

Your phone includes a jack for attaching an optional Headset/Headphones.



- ▶ Insert the Headset or Headphones into the Headset Connector on the right side of the phone.

Section 2: Understanding Your Phone

This section outlines some key features of your phone. It also describes the screen format and the icons that will be displayed when the phone is in use.

Features of Your Phone

- High speed data [CDMA 2000 1x Advanced Wireless Services (AWS) Technology]
- Bluetooth® Wireless Technology, supporting wireless headset, handsfree, file transfer, and object push profiles
- Global Positioning (GPS) Technology
- Personal Information Management tools, including Calendar, Alarm Clock, World Clock, Memo Pad, Calculator, Converter and Stop Watch
- Text (SMS) and Picture (MMS) Messaging
- Nuance® T9® Predictive Text Input
- Nuance® VSuite™ voice recognition
- Speakerphone

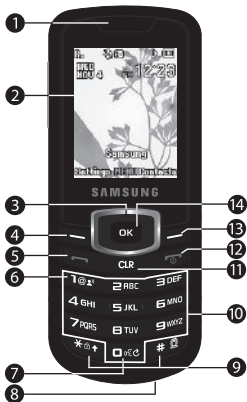
Side Views of Your Phone



1. **Volume Key** — In Standby mode, lets you adjust the Master Volume. When receiving a call, mutes the ringer. During a call, lets you adjust the voice volume.
2. **Headset Connector** — Used to connect optional hands-free headsets or headphones.
3. **Power / Accessories Connector** — Used to connect the Travel Adapter for charging or optional accessory cables.

Front View of Your Phone

- 1. Earpiece** — Lets you hear ring and alert tones, alarm tones, and parties to calls.
- 2. Display** — Indicates the status of your phone, including numbers dialed, features, icons, and message indicators and contents. For more information, refer to *“Understanding the Display Screen”* on page 19.
- 3. Navigation Key** — In Standby mode, pressing the Up, Down, Left or Right directional key launches selected functions. In menus, scrolls through the menu options.
- 4. Left Soft Key** — Navigates through menus and features, and selects the choice at the bottom left corner of the display.
- 5. Send Key** — Lets you place or receive a call. In Standby mode, pressing once opens the Call Logs.
- 6. Voicemail Key** — In Standby mode, press and hold to speed dial Voicemail to review voice messages.



- Voice SVC Key** — In Standby mode, press and hold to launch Voice SVC to operate many phone functions with spoken commands.
- Microphone** — Lets the other caller hear you clearly when you are speaking to them.
- Special Function Keys** — Enters special characters or performs various functions.
- Alpha-numeric Keys** — Enters numbers, letters, and symbols.
- CLR Key** — Deletes characters from the display when you are in text entry mode. When navigating features, press to return to the previous menu or screen.
- End Key** — Ends a call. Press and hold to power the phone On or Off. When a call is incoming, press to send the call to voicemail.
- Right Soft Key** — Navigates through menus and applications and selects the choice at the bottom right corner of the display.
- OK Key** — In Standby mode, launches the Main Menu. When navigating a menu, press to accept the highlighted option.

Rear View of Your Phone

- Speaker** — Lets you hear ring and alert tones, alarm tones, and parties to calls when using Speakerphone.



Command Keys

Soft Keys

Soft key functions are defined by what appears above in the display.




Left Soft Key

Some functions of the Left soft key  are as follows:



- In Standby mode, press  to open **Settings**.
- When entering text, press  to change the text entry mode.

Right Soft Key


Some functions of the Right soft key  are as follows:

- In Standby mode, press  to open the Contacts Find screen.
- When the Right soft key function is Options, press  for a pop-up menu of options.
- When the Right soft key function is Back, press  to back up one menu level.



OK Key




- In a menu, press the **OK** key  to accept the highlighted selection.
- When the **OK** key function is Edit, press  to edit a Draft message.

Navigation Key




- Use the directional keys on the Navigation key  to browse menus, sub-menus, and lists. In Standby mode, each directional key also acts as a shortcut to launch applications.

Clear Key


The **Clear** key  is used to erase or clear numbers, text, or symbols from the display. You can also use the  key to return to a previous menu or to return to Standby mode from any menu.







- If you enter an incorrect character, briefly press  to backspace (and delete) the character.
- To erase the entire sentence, press and hold .
- To back up one menu level, briefly press .

END Key




- Press and hold the **END** key  to turn on your phone on or off.
- Briefly press  once to disconnect a call.
- Press  to return to Standby mode, or to cancel the last input.

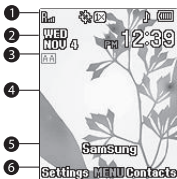
SEND Key

The **SEND** key  is used to answer calls, dial calls, and to recall the last number(s) dialed, received, or missed.

- Press  once to answer calls.
- Enter a number and briefly press  to make a call.
- Briefly press  in Standby mode to display a list of recent calls to and from your phone.
- Press  twice in Standby mode to call the most recent number.
- Press  to pick up a waiting call. Press  again to switch back to the other call.

Understanding the Display Screen

1. The top line of your phone's display contains icons that indicate network status, battery power, signal strength, connection type, and more.
2. This line contains the optional Clock showing the current day of the week, date, and time. For more information on setting the Clock Format, see *"Display Settings"* on page 64.
3. The Auto Answer icon indicates that the Auto Answer function is active. For more information, refer to *"Auto Answer"* on page 66.
4. The center portion of the display shows information such as call progress information, messages, and photos.
5. The Banner displays a text banner of your choice. For more information, refer to *"Banner"* on page 65.
6. The bottom line of the display shows current soft key functions. In the sample screen, pressing the Left soft key  displays the **Settings** menu, pressing **OK**  displays the **Menu**, and pressing the Right soft key  opens the **Contacts** Find screen.



Display Screen Icons

Your phone can show you definitions of the icons that appear on the top line of the display.

- ▶ In Standby mode, select **MENU** → **Settings** → **Phone Info** → **Icon Glossary**.



Backlights

Backlights illuminate the display and the keypad. When you press any key, the backlights come on. They go off when no keys are pressed within the period of time set in the **Backlight** setting. For more information, refer to “*Backlight*” on page 65.


Note: During a phone call, the display backlight dims immediately, and turns off after 10 seconds to conserve battery power, regardless of the **Backlight** setting. For more information, refer to “*Backlight*” on page 65.

Your Phone’s Modes

Call Answer Mode

Call Answer Mode occurs when a call is incoming. By default, you can answer a call by pressing the  key. With the Call Answer setting, you can also choose to answer a call by pressing any key except . For more information, refer to “*Call Answer*” on page 66.

Input mode


Input mode allows you to enter text, numbers, and symbols. At any text entry screen, press the Left soft key , then choose the text

entry mode from the pop-up menu using the Navigation key. For more information, refer to “*Entering Text*” on page 36.

Lock Mode

When the phone is in Lock Mode, you can receive calls and messages, but cannot place outgoing calls (except for emergency numbers). Lock Mode also restricts access to menus and the Volume key. Your phone offers two ways of locking/unlocking.

Without a lock code:

1. To lock the phone, press and hold the  key.
2. To unlock the phone, follow the prompts on the display.

With a lock code:

1. To lock the phone, select **MENU** → **Settings** → **Phone Settings** → **Security**. Enter the lock code (by default, the last four digits of your phone number).
2. Choose **Lock Phone**. You can choose to have the phone enter Lock Mode automatically every time you Power Up the phone.
3. To unlock the phone, follow the prompts on the display, entering the lock code when prompted. For more information, refer to “*Security*” on page 66.

Standby Mode



Standby mode is the state of the phone once it has found service and is idle. The phone goes into Standby mode:

- After you power the phone on.

- When you press  after a call or from within a menu.

Place Calls while in Standby Mode

You can place calls while in Standby mode.

1. Enter a phone number, and press  to place a call.
2. Press  to return to Standby mode.

Receive Messages in Standby Mode

You can receive messages in Standby mode. An alert tone sounds and a notification message appears in the display when a new message arrives. The following options appear:

- **View Now** — This selection allows you to view the messages now.
- **View Later** — This selection allows you to view the messages later.

Highlight the desired viewing option and then press . For more information, refer to “*Receive Messages*” on page 48.

Talk Mode

While in a call your phone is in Talk mode. Press **Options** to display a menu of options available while in Talk mode. For more information, refer to “*Call Options Menu*” on page 30.

Speakerphone Mode

To share a call with other people nearby, place your phone in Speakerphone Mode during the call by pressing **Options** and selecting **Speaker On**.


Caution: Keep the phone away from your ear while in Speakerphone Mode. For more information, refer to “*Responsible Listening*” on page 85.

To disable Speakerphone Mode, press **Options** and select **Speaker Off**, or end the call.


Vibrate Mode

Vibrate mode silences all tones your phone makes and replaces them with vibration.

To enter Vibrate Mode:

- ▶ In Standby mode, press and hold . “**Entering Vibrate Mode**” appears briefly and your phone returns to Standby mode. The Vibrate icon is displayed in the top line of the display.

To exit Vibrate Mode:

- ▶ While in Silent mode and Standby mode, press and hold . “**Exit Vibrate Mode**” appears briefly and your phone returns to Standby mode.

Tip: You can also place your phone in Vibrate mode while in Standby mode by pressing the Volume key  down until “Vibrate” appears in the display.

Adjust the Master Volume

To adjust the Master Volume:

1. In Standby mode, press  up or down.
– or –

Select **MENU** → **Settings** → **Sound Settings** → **Master Volume**.

2. Options are:

- Ringer Off
- Vibrate
- Low
- Low/Medium
- Medium
- Medium/High
- High

3. When you are satisfied with the setting, press **SET**.

Note: You can add vibration to any Master Volume setting between **Low** and **High** by pressing the **Vib. on** soft key.

The Vibrate icon  appears in the display when the phone is in Silent mode. The Vibrate/Ring icon  appears in the display when you add vibration to any Master Volume setting between **Low** and **High**.

Section 3: Call Functions

This section provides procedures for making and answering calls. This section also describes features, such as call logs and call timers, that help you make calls and manage your call time.

Making a Call

- ▶ In Standby mode, enter the telephone number you wish to call using the keypad and press  to place the call.


Call Block

You can prevent your number from displaying on another phone's caller ID screen by enabling **Call Block**.

1. In Standby mode, press , , .
2. Enter the number you wish to call, then press .

Emergency Calls

When you call an Emergency Number, such as 911, your phone locks itself in emergency mode, and will only allow you to make calls to the emergency call center you originally contacted. This also enables emergency operators to more easily dispatch aid, such as police, fire fighters, and emergency medical personnel.





- ▶ With the phone on, enter the Emergency Number you wish to call using the keypad, and press  to place the call.

Note: You can define up to 3 emergency numbers in your phone in the **Settings** → **Phone Settings** → **Security** → **Emergency #** menu.

Important: If you need to make an emergency (911) call while in Lock mode or Airplane mode, just dial the emergency number and press .


Three-way Calling

Call two other numbers and connect them to your call using three-way calling.

1. In Standby mode, enter the number for the first party in your call, then press .
2. When connected, ask the first party to remain on the line. Press  to place them on hold.
3. Enter the second party's phone number and press .
4. When the second party answers, press  to connect all three parties.

Manual Pause Calling

To manually call a number with pause(s) and without storing it in your Contacts list:

1. In Standby mode, enter the number you wish to call.
2. Press **Options**. The following pause options appear in the display:
 - **2-Sec Pause** — A 2-second pause after which dialing resumes.
 - **Wait** — A hard pause (waits for input from you).
3. Select the desired pause to enter it into the number sequence.
4. Press  to call the number.

Tip: If you plan to call the number frequently, press **Save** to store pauses along with the number.

Speed Dialing

Speed Dialing lets you place a call to any contact stored in your Contacts list by dialing the contact's Speed Dial number. For more information, refer to “*Speed Dial*” on page 44.

Example: To speed dial the Contacts entry assigned to speed dial 325, press


, press , then press and hold .

Voice Dialing

The voice recognition capabilities of your phone are exceptional due to advanced, speaker-independent technology. This means you do not need to “train” your phone to understand your voice. You can use your voice *in a natural manner* to dial numbers.

Note: End calls before relaunching the Nuance voice recognition software — When you use Voice Dialing to make a call, you must end that call before you can use other Voice Commands.

Use the **Call** command to dial any number stored in your Contacts list by saying the name of the contact (Name Dialing). You can also use **Call** to dial any telephone number by speaking the individual digits in the number (Digit Dialing).

- ▶ To access Voice Service, press and hold , then follow the spoken prompts.

Voice Dialing Tips:

- Wait for the beep before speaking.
- Speak clearly at a normal volume, as if you were talking to someone on the phone.
- When saying a name, say the first name then the last name.

Answering a Call

Incoming

When you receive a call, the phone displays one of the following:


- If the caller can be identified, the caller's number (or name if it's in your Contacts) appears in the display.
- If the caller cannot be identified, **Call from unavailable #**, **Call from restricted #**, or no number appears in the display.

Tip: Assign pictures to Contacts entries. The entry's assigned picture appears in the display when you receive a call from that entry. For more information, refer to *"Assigning a Picture to a Contact"* on page 43.



The phone continues to notify you of the call until one of the following events occur:

- You answer the call.
- The calling party ends the call.
- The call is sent to voicemail.

Call Answer

By default, you can answer a call by pressing the  key. You can also select




Select from two methods for answering calls. This option can be changed in the **Settings** menu.

- ▶ In Standby mode, select **MENU** → **Settings** → **Call Settings** → **Call Answer**. The following options appear in the display:
 - **Any Key** — Pressing any key except , the **Quiet** soft key, or the **Ignore** soft key answers a call.
 - **Send Key** — Only pressing  answers a call.

Call Waiting

If you're on a call, your phone beeps when you receive a second call. Call Waiting lets you answer the second call and alternate between both calls.

Note: Contact your Wireless Carrier for availability.


1. Press  to place the first call on hold, answer the second call, and ask the caller to remain on the line.
2. Press  to place the second call on hold and return to the first call.
3. Press  to alternate between calls.

Caller ID

Caller ID lets you identify who is calling you by displaying a caller's number. If the caller's name and number are stored in Contacts, the caller's name also appears. If you've assigned a picture to the entry, it appears in the display as well.

Silence an Incoming Ring

To temporarily silence the incoming call ringer:

- ▶ While your phone is ringing, press the Volume key  (on the left side of the phone) up or down or press **Quiet**.

Ignore an Incoming Call

Ignored calls are immediately forwarded to Voicemail.

- ▶ While your phone is ringing, press the **Ignore** soft key.

Call Options Menu

You can access a number of features while in a call.

1. To disable/enable your phone's microphone while in a call, press **Mute / Unmute**.
2. For other options while in a call, press **Options**. The following options pop-up in the display:
 - **Speaker On / Off** — Enables/disables Speakerphone mode.
 - **Messages** — Display the Messages menu.
 - **Contacts** — Display the Contacts Find screen.
 - **Recent Calls** — View Call Logs.
 - **Send DTMF** — Send your phone number as DTMF tones to the other person on the call.
 - **Voice Privacy** — Set encryption options. When set to Enhanced, the phone sounds an audible beep when you lose privacy (encryption) on a CDMA connection.
 - **Location** — Turn on GPS location services, or choose GPS location service for emergency calls only.

Recent Calls

Your phone has Call Logs that retain information about Outgoing, Incoming, and Missed Calls. The **Calls** menu lets you access this information for future reference, to return calls, and to add new Contacts. You can also view times for your last call and the total of all calls.

Tip: To quickly view a list of your 270 most recent calls (outgoing, incoming, and missed), briefly press  while in Standby mode. The **All Calls** screen appears in the display.

Outgoing Calls

The last 90 outgoing calls are stored in the Outgoing calls log. Review the Outgoing calls log for the time and date of a call, as well as other information.

- ▶ In Standby mode, select **MENU → Calls → Outgoing Calls**. A list of your outgoing calls appears in the display.

Incoming Calls

The last 90 Incoming calls are stored in your phone's Incoming calls log. You can review the Incoming calls log for time and date of each call, as well as other information.

- ▶ In Standby mode, select **MENU → Calls → Incoming Calls**. A list of your incoming calls appears in the display.

Missed Calls

The last 90 missed calls (calls you did not answer) are stored in the Missed calls log. Review the Missed Calls log for the time and date of the call, as well as other information.

- ▶ In Standby mode, select **MENU → Calls → Missed Calls**. A list of your missed calls appears in the display.

Erase All Calls

1. In Standby mode, select **MENU → Calls → All Calls**. The **All Calls** list appears in the display with the first call in the list highlighted.
2. Press **Options**, then select **Erase all**. “**Erase all entries?**” prompts you to confirm erasure of all Calls log entries.

Call Timer

View the duration of your last call, total calls, and calls made during the life of your phone using the Call timer feature. Call timer is not for billing purposes.

- ▶ In Standby mode, select **MENU → Calls → Call Timer**.

Data Counter

Use **Data Counter** to view the amount of data that has been sent or received (or a total of both) using the data services that your phone supports. The Data Counter can be a helpful tool for monitoring data usage, especially if your service agreement has specified limits.

- ▶ In Standby mode, select **MENU → Calls → Data Counter**.

Save Numbers from Call Logs

Store numbers from your **Outgoing, Incoming, Missed**, and **All** calls logs to Contacts.

1. In Standby mode, select **MENU → Calls**.
2. Highlight a call whose number you wish to store in Contacts.
3. Press **Options → Save → Create New** to add the number as a new Contacts entry.

– or –




Press **Options → Save → Update Existing** to find a Contact with which to associate the new number.


4. Follow the prompts to store the number to Contacts.

Section 4: Menu Navigation


This section explains the menu navigation for your phone.

Menu Navigation

Access the menus and sub-menus in your phone using the Navigation key  and soft keys  , or use a shortcut.

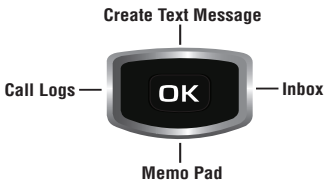
1. In Standby mode, select **MENU**. The first of several menus appears in the display.
2. Use the Navigation key to browse through the menus.
3. Press  to enter the menu or sub-menu that appears in the display.

Return to the Previous Menu

- Press the **Back** soft key to return to a previous menu or screen.
- When **Back** does not appear in the display, press  to return to the previous menu.

Navigation Key Shortcuts

In Standby mode, press the Navigation key Up, Down, Left, or Right to launch the corresponding application. The default applications are shown here.



Note: The shortcut keys can be modified to suit your needs in the Phone Settings. In Standby mode, press **MENU** → **Settings** → **Phone Settings** → **Shortcut Key**.

Section 5: Entering Text

This section outlines how to enter text using the phone keypad. This section also describes how to use the T9 predictive text entry mode to reduce the number of key strokes needed to enter text.

Changing the Text Entry Mode

In any text entry screen or field, the current text entry mode is shown in the lower left of the display. To change the text entry mode:

- ▶ Press the Left soft key, then choose from available text entry modes:
 - **T9 word**
 - **T9 Word**
 - **T9 WORD**
 - **abc**
 - **Abc**
 - **ABC**
 - **123**
 - **Symbols**
 - **Emoticons**
 - **Add T9 Word**

Using T9 Mode


T9[®] is a predictive text entry mode that recognizes common words matching the sequence of your key presses and inserts the word into your message. Using T9 mode is much faster than the traditional abc/Abc/ABC text entry methods and *requires only one key press per letter* of the word.



For example, to enter the word “Samsung”, press each of the following keys *only once*:



If more than one word shares the same sequence, T9 inserts the most common word, and displays additional words in a pop-up menu where you can select the desired word.


T9word mode enters all characters in lower case. **T9Word** mode enters characters with the first character of the first word capitalized. **T9WORD** mode enters characters as all upper case.

1. To switch to **T9** mode while composing a text message, press the Left soft key, then select **T9word**, **T9Word**, or **T9WORD**.
2. To switch between **T9word**, **T9Word**, and **T9WORD** modes, press the  key.
3. Enter words using the keypad:
 - Press each key only once to enter a word.

- If the right word isn't chosen automatically, choose the correct word from the pop-up menu.
- Press  to enter a space.
- Press  to choose common symbols such as a period, comma, "@" or "&" from a pop-up menu.

Adding Words to the T9 Word Dictionary



If pressing the keys corresponding to a word you want to enter does not display that word, do the following:



1. Press the Left soft key and select **Add T9 Word**.
2. Enter the word you want to add to the T9 Word dictionary, then press . The word is added to the T9 dictionary.

Note: In **Add T9 Word** mode, you enter a word using the same multiple keypress method as when in abc/Abc/ABC text entry mode.

Using abc/Abc/ABC Mode

abc mode enters all characters in lower case. **Abc** mode enters characters with the first character of the first word capitalized. **ABC** mode enters characters as all upper case.

1. To switch to **abc**, **Abc** or **ABC** mode while composing a text message, press the Left soft key, then select **abc**, **Abc** or **ABC**.
2. To switch between **abc**, **Abc** and **ABC** modes, press the  key.
3. Enter characters using the keypad:
 - Press the key repeatedly until the desired character appears in the display (for example, press  once for "G" and twice for "H").

- Pause briefly and the displayed character is accepted and inserted into your message.
- Press  to enter a space.
- Press  repeatedly to enter common symbols such as a period, comma, “@” or “&”.

Using 123 Mode

Enter numbers into a text message while in **123** mode.

1. To switch to **123** mode while composing a text message, press the Left soft key, then select **123**.
2. Enter numbers while in 123 mode by pressing the key labeled with the desired number.

Using Symbols

Enter symbols such as “@” or “%” into a text message.

1. To switch to **Symbols** mode while composing a text message, press the Left soft key, then select **Symbols**.
2. The first of three symbol screens is displayed. Use the Left and Right soft keys and Navigation key to browse the list.
3. Select a symbol to enter it in your message text.
4. To insert additional symbols, repeat Steps 1 through 3.

Using Emoticons

Enter emoticons into a text message to convey emotions.

1. To switch to **Emoticons** mode while composing a text message, press the Left soft key, then select **Emoticons**.

2. The first of two Emoticon screens is displayed. Use the Left and Right soft keys and Navigation key to browse the list.
3. Select a symbol to enter it in your message text.
4. To insert additional symbols, repeat Steps 1 through 3.

Section 6: Understanding Your Contacts

Up to 1000 entries can be stored in Contacts. Each entry can have up to five associated phone numbers and one e-mail address. Phone numbers can be up to 32 digits in length, including pauses, and associated names can be up to 32 characters in length. You can assign a Speed Dial number for each entry.

Finding a Contact

Shortcut Key/Menu Method

If you've stored a name entry in Contacts, **Find** allows you to find it quickly.

1. In Standby mode, select **MENU** → **Contacts** → **Find**.
– or –

Press the Right soft key **Contacts**.

The **Find** screen appears in the display with the **Go To** field and the first Contacts entry highlighted.

2. Press key(s) to show contacts matching the key sequence, using the abc text entry method.

Voice Method

Use the Voice Command **Lookup** of your phone's **Voice SVC** feature to view contact information for any named contact stored in your Contacts list by saying the name. To look up information for a specific contact:

1. In Standby mode, press and hold **OK** to launch **Voice Service**.
“**Say a Command**” appears in the display and is pronounced through the speaker.
2. Say “**Lookup**” and the name of the contact.

Adding a New Contact

Dial Method

1. Using the keypad, enter the number you wish to add to your **Contacts**.
2. Press **Save** and enter the Contact information.

Menu Method

1. Press **MENU** → **Contacts** → **Add New Entry**.
2. Enter the contact info of the new entry, then press **Save**.

Deleting a Contact

1. Find and select the Contact to be deleted. See “*Finding a Contact*” on page 41.
2. Press **Options** → **Erase**.

Editing a Contact

1. Find and select the Contact to be changed. See “*Finding a Contact*” on page 41.
2. Press **Edit** and make the desired changes.

Assigning a Picture to a Contact

When you assign a picture to a Contact, the picture you assign appears in the display when you receive a call from that Contact.

1. Find the Contact you want to edit, and press **Edit**. See “*Finding a Contact*” on page 41.
2. Highlight the Picture field at the top of the **Edit Contact** screen, press **Set**, and select a picture from **My Images**.

Assigning a Ringtone to a Contact

When you assign a ringtone to a Contacts entry, the phone plays that ringtone instead of the Voice Calls ringtone when you receive a call from that Contact.

1. Find the Contact you want to edit, and press **Edit**. See “*Finding a Contact*” on page 41.
2. Highlight the **Ringtone** field, press **Set**, and choose a tone from **My Ringtones**.

Saving a Number After a Call

Once you finish a call, you can store the caller’s number to your Contacts list.

Note: If the call was incoming and Caller ID information was unavailable, then the **Save** option is also unavailable.

1. After ending a call, the call time, length of call, phone number, and name of the party (if available) appear in the display.

2. Press **Save**, then select an option:
 - **Create New** — Create a new Contacts entry.
 - **Update Existing** — Add the number to an existing Contacts entry.

Speed Dial

Speed Dial allows you to quickly dial a contact by pressing a sequence of number keys assigned to the contact. You can assign one or more Speed Dial numbers to a Contacts entry during new entry creation or by editing an existing entry. Speed dial numbers can be one, two or three digits.

Assigning a Speed Dial Number

1. While entering a contact telephone number, press **Options** → **Set Speed Dial**.
– or –
Find the Contact you want to assign a speed dial number, and press **Edit**. See *“Finding a Contact”* on page 41. Highlight a telephone number and press **Options** → **Set Speed Dial**.
2. Choose an unassigned speed dial number and press **Set**.
3. Press **Yes** to confirm the addition.

Removing a Speed Dial Number

1. Find the Contact you want to edit, and press **Edit**. See *“Finding a Contact”* on page 41.
2. Highlight the contact telephone number, then press **Options** → **Remove Speed Dial**.

Contacts Groups

Groups let you easily send messages to multiple Contacts. You can also use Groups to find Contact entries and to add/remove Contacts names in a Group. You can use the default groups, or create your own Group.

Add Multiple Contacts to a Group

The Add option lets you add one or more existing Contacts to a Group.

1. Press **MENU** → **Contacts** → **Group**. The **Group List** appears in the display.
2. Highlight a group, then press **Options** → **Add**.
3. Mark contacts to add to the group by pressing **OK**, or press **Mark All**.
4. Press **Done** to add the contacts to the group.

Rename a Group

The Rename option lets you change the name of any Group except **No Group**.

1. Press **MENU** → **Contacts** → **Group**. The **Group List** appears in the display.
2. Highlight a Group name (other than **No Group**) that you wish to change, then press **Options** → **Rename**.
3. Enter changes to the group name and press **Save** **OK**.

Add a New Group

1. Press **MENU** → **Contacts** → **Group**. The **Group List** appears in the display.
2. Press **New**, enter a new group name, then press **Save** **OK**.

Erase a Group

1. Press **MENU** → **Contacts** → **Group**. The **Group List** appears in the display.
2. Highlight the Group you wish to delete, then press **Options** → **Erase**.

Note: When you delete a Group, any Contacts assigned to the group return to **No Group**.

Memory Info

The **Memory Info** menu option lets you view the amount of memory you have used to store Contacts entries, as well as the memory remaining to store more Contacts entries.

- ▶ From the **Contacts** menu, select **Memory Info**. The amount of memory used and remaining (Free) for Contacts entries is displayed.

Section 7: Messages

This section explains how to send and receive Text and Picture messages. This section also describes the features and functionality associated with messaging.

Your phone stores messages in one of five message boxes. The subsections that follow describe each message box in detail.

Note: Available memory is shared between all messages. You can store up to 100 messages. The exact number is dependent upon message length.

Create and Send Text Messages

- ▶ In Standby mode, select **MENU** → **Messages** → **Send Message** → **Text Message**.

– or –

Press the **Messages** shortcut (Up navigation) key.

Create and Send Picture Messages

Picture messages can be sent to recipients with compatible phones or devices. You can even accompany a Picture message with a voice memo or preloaded sound.

- ▶ In Standby mode, select **MENU** → **Messages** → **Send Message** → **Picture Message**.

Receive Messages

When you receive a message in Standby mode, the ringer sounds (unless turned off) and **New Message** appears in the display along with the closed envelope icon . The date and time of the message also appear in the display along with the following options:

- **View Now** — Opens the message, where you have the Option to:
 - **Forward** the message to another recipient.
 - **Reply With Copy** to the sender, including a copy of the original message.
 - **Save Quick Text** to save the message contents as a Quick Text entry.
 - **Lock** the message to prevent deletion.
 - **Add To Contacts** to save the sender's information to Contacts.
 - **Message Info** to display information about the message.
 - **Extract** the phone number of the sender, to call or send a message.
- **View Later** — Saves the message to your inbox where you can view it later, then returns your phone to Standby mode.

Messages and Lock Mode

Your phone can still receive messages while in Lock Mode. The time and date of the message appear in the display, but you cannot access the message until you enter the lock code.

Inbox

Text and Picture messages you receive are stored in the **Inbox**. To access the Inbox:

- ▶ From Standby mode, select **MENU** → **Messages** → **Inbox**.

Outbox

Your phone stores outgoing messages in the Outbox, regardless of whether the message was successfully transmitted. Verify if and when a message or e-mail was successfully received by enabling the Msg Receipt option when composing the message.

- ▶ From Standby mode, select **MENU → Messages → Outbox**.

Drafts

Messages in the Draft Box are those that have been composed but never sent. You can return to the Draft Box at any time to view, edit, or send a draft message.

- ▶ From Standby mode, select **MENU → Messages → Drafts**.

Voicemail

Voicemail messages are logged in the **Voicemail** box of the **Messages** menu. Open the Voicemail box to check for voicemail and listen to Voicemail messages.

- ▶ From Standby mode, select **MENU → Messages → Voicemail**.
– or –

From Standby mode, press and hold the **Voicemail** key .

Erasing Messages

You can erase all of the messages in any or all of message boxes using one convenient sub-menu.

- ▶ In Standby mode, select **MENU → Messages → Erase Messages**.

Message Settings

Use the **Msg Settings** sub-menus to define settings for text and picture messages.

- ▶ In Standby mode, select **MENU → Messages → Msg Settings**.

Quick Text

Quick Text are standard text messages that can be added to a new message to save time entering text. Your phone comes with default Quick Text, or you can create your own by saving text from a messages.

- ▶ In Standby mode, select the **MENU → Messages → Msg Settings → General → Quick Text**.

Section 8: Multimedia

This section describes the Multimedia features of your phone.

My Images

My Images lets you manage photos and pictures you download, and lets you choose the pictures that appear in your phone's display when you turn it on or off, while in Standby mode (wallpaper), and as Picture IDs for your contacts.

- ▶ From Standby mode, select **MENU → Multimedia → My Images**.

My Ringtones

My Ringtones lets you record and manage voice memo files and lets you assign ringtones for calls, alarms, and other alerts.

- ▶ In Standby mode, select **MENU → Multimedia → My Ringtones**.

Section 9: Browser

This section outlines how to launch Browser, how to navigate to pages on the web, and how the keys on the keypad are used with the web application.

Stored Web Content

Browser ends an Internet connection after a certain period of inactivity, however some information from your session remains stored in the phone (if you leave your phone turned on). You can access this information without reconnecting to the Internet.

However, if you are viewing stored information, and you select a link to a site that was not accessed in your last session, you automatically re-connect to the Internet.

Launching Browser

- ▶ In Standby mode, select **MENU** → **Browser** → **Get In Web**.

Exiting Browser



- ▶ To exit Browser, press  .

Using Browser

Browser presents on-screen items in any of the following ways:

- Text content.
- Fields for text or numeric input.
- Links embedded in content.
- Category links. Numbered items can be launched by navigating to the link, or by pressing the appropriate number key.

Using Links

Links have several purposes, such as jumping to a different page, to a different site, or even initiating a phone call. You can normally press  or the Left soft key  to select a link when it is highlighted, or pressing the appropriate number key for a numbered link.

Browser Command Keys

When you use Browser, some keys operate differently than during a phone call. The following table lists Browser keys and their functions.



Navigation key — Use to browse lists and options.



Back key — Press once to go back one page. Press and hold to go back to home page. When entering text, press to clear the last number, letter, or symbol entered. When entering text, press and hold to completely clear the text display.



SHIFT key — Press before entering text to enter uppercase characters.



Space Key — Press to insert a space in a text field.



Number keys 1 through 9 — Select items in a menu, if they are numbered.



End key — Press to exit Browser and return to Standby mode.



Left soft key — Press to activate the command that appears above it in the display.



Right soft key — Press to activate the command that appears above it in the display.

Section 10: Brew

With Mobile Shop, you can download full-featured applications over the air including games, personalized ring tones, pictures, and more.

Launching Brew

- ▶ In Standby mode, select **MENU** → **Brew** → **Brew**.

Note: For information on availability of applications and airtime charges, contact your Wireless Provider.

Follow the instructions in your phone's display.

Section 11: Tools

This section explains how you can use your phone's Tools functions to view today's calendar, schedule appointments, set an alarm, perform simple math calculations, and more.

Bluetooth

Bluetooth is a short-range wireless communications technology capable of exchanging information over a distance of about 30 feet, without requiring a physical connection.

Turn Bluetooth On/Off

- ▶ From Standby mode, select **MENU** → **Tools** → **Bluetooth** → **Bluetooth Settings**, then press **Enable** or **Disable**.

Add New Device

1. From Standby mode, select **MENU** → **Tools** → **Bluetooth** → **Registered List** → **Add New Device**. At the prompt, Turn Bluetooth on, if necessary.
2. Place the new Bluetooth device in discovery mode. (See the device's user manual for more information.)
3. Your phone will search for discoverable devices and display them. Use the navigation keys to highlight the device you want to pair with your phone, then press **Pair** **OK** to pair the selected device with the phone. You are prompted to enter the passkey or PIN for the selected device.

Registered List

The Registered List contains paired Bluetooth devices, and allows you to connect/disconnect from a device or modify settings for paired devices.

- ▶ From Standby mode, select **MENU → Tools → Bluetooth → Registered List**.

Bluetooth Settings

Bluetooth Settings allow you to set your phone's Bluetooth availability, and view and set information about your phone's Bluetooth capabilities.

- ▶ From Standby mode, select **MENU → Tools → Bluetooth → Bluetooth Settings**.

Calendar

Calendar allows you to view the current, past, or a future month and schedule events. While viewing the calendar, the current date is highlighted, and days with scheduled events are surrounded by a box.

- ▶ From Standby mode, select **MENU → Tools → Calendar**

Memo Pad

Create notes and store them in Memo Pad. Return to Memo Pad to review and edit your notes.

- ▶ From Standby mode, select **MENU → Tools → Memo Pad**.

Alarm Clock

Alarm Clock allows you to set up to three alarms that can be set to go off once, or to recur daily at a specific time. Once set, an alarm clock is easy to change or turn off completely.

Note: The alarm doesn't function when the phone is turned off. If the time for an alarm that was set for Daily has elapsed while the phone is off, the alarm occurs at the specified time on the next day.

- ▶ From Standby mode, select **MENU** → **Tools** → **Alarm Clock**.

World Time

World Time lets you view the time in any time zone around the world.

Note: World Time requires your Wireless Provider's digital service.

- ▶ From Standby mode, select **MENU** → **Tools** → **World Time**.

Calculator

You can perform calculations, including addition, subtraction, multiplication and division using your phone.

- ▶ From Standby mode, select **MENU** → **Tools** → **Calculator**.

Stop Watch

Stop Watch provides a timer, which you can use to record lap times.

- ▶ From Standby mode, select **MENU** → **Tools** → **Stop Watch**. To start, stop, and resume the timer, press **OK**.

Converter

The Converter converts values for currency, length, weight, volume, area, or temperature. In the currency converter, you can edit or add currency exchange rates.

- ▶ From Standby mode, select **MENU** → **Tools** → **Converter**.

Tip Calculator

Tip Calculator allows you to calculate a percentage amount for a tip, and the total due for multiple payers.


- ▶ From Standby mode, select **MENU** → **Tools** → **Tip Calculator**.

Section 12: Voice SVC

Your phone includes state-of-the-art Nuance voice recognition software that lets you use your voice to dial numbers, access your Contacts list, and open Menu items.

Voice Commands

To access the Voice Commands menu from Standby mode:

1. Press and hold .
– or –

Select **MENU** → **Voice SVC** → **Voice Commands**.

“**Say a Command**” appears in the display and plays through the earpiece. A list of available commands displays.

2. Follow the spoken prompts to use Voice SVC. Some commands are:
 - Use the **Call** command to dial the default number for any contact stored in Contacts by saying the name of the contact (Name Dialing), or speak the individual digits in a phone number (Digit Dialing) to dial any phone number, even if the number is not stored in Contacts.
 - Use the **Lookup** command to find contacts stored in Contacts by saying the name of the contact.
 - Use the **Go to** command to launch a feature from the MENU by saying the name of the feature.

Note: You can set your phone to start Voice SVC when you connect an optional headset. For more information, refer to “*Voice Launch*” on page 63.

Voice Command Tips:

- Wait for the beep before speaking.
- Speak clearly at a normal volume, as if you were talking to someone on the phone.
- When saying a name, say the first name, then the last name.

Voice Settings

Voice Settings allow you to customize the way Nuance interprets your voice commands. To access the Voice Settings menu:

- ▶ In Standby mode, select **MENU → Voice SVC → Voice Settings**.

Choice Lists

When Nuance cannot recognize a name or number, it displays a list of possible choices, and prompts you to confirm the correct one. You can select how Nuance will use choice lists. To change the way Nuance uses choice lists:

- ▶ In Standby mode, select **MENU → Voice SVC → Voice Settings → Choice Lists**.

Sensitivity

The sensitivity setting allows you to customize the sensitivity of the Nuance matching software. To set sensitivity:

- ▶ In Standby mode, select **MENU → Voice SVC → Voice Settings → Sensitivity**.

Digit Dialing

If you regularly have trouble with Nuance not recognizing the numbers you speak, try adapting digit dialing to your voice. Adapting can improve the accuracy of digit recognition, especially for people with strong accents.

Note: After you adapt Digit Dial, your phone is customized to your voice, and your voice only. Others will not be able to use it unless they reset the phone to factory defaults.

Adaptation involves recording several sequences of four digits each. The recording process takes about a minute.

Adapt Digits

To adapt digit dialing, do the following:

- ▶ In Standby mode, select **MENU** → **Voice SVC** → **Voice Settings** → **Digit Dialing** → **Adapt Digits**.

Reset Digits

You can choose to reset digit dialing to factory default settings.

- ▶ In Standby mode, select **MENU** → **Voice SVC** → **Voice Settings** → **Digit Dialing** → **Reset Digits**.

Tips for Adapting Digit Dialing

- Use Adapt Digits in a quiet place.
- Make sure you wait for the beep before starting to speak.
- Speak clearly, and say each digit distinctly.

- If you make a mistake while recording a sequence of digits, or if there is an unexpected noise that spoils the recording, re-record that sequence.
- Only adapt digits if you are regularly having problems with digit dialing. Once you adapt, digit dialing will not work as well for other people using your phone. (You can always reset digit adaptation to its original state.)

Sound

Sound lets you specify what (if any) text prompts you want your phone to provide to you through the earpiece during voice dialing.

- ▶ In Standby mode, select **MENU** → **Voice SVC** → **Voice Settings** → **Sound**.

Voice Launch

Voice Launch allows you to specify how to launch Voice Service. To set the key or action that launches Nuance Voice SVC, do the following:

- ▶ In Standby mode, select **MENU** → **Voice SVC** → **Voice Settings** → **Voice Launch**.

About

Displays version and build information for Nuance voice recognition software.

Section 13: Settings

This section explains how to configure your phone's language, network preferences, security options, and other settings.

Location

Use the **Location** setting to specify whether your phone passes your Global Positioning System (GPS) location to the network continually, or only when you make an emergency (911) call.

Note: Check with your Wireless Carrier to determine availability of location-based services.

- ▶ From Standby mode, select **MENU → Settings → Location**.
 - **Location On:** GPS information is available to the network continually.
 - **911 Only:** GPS information is only available during an emergency call.

Display Settings

Display Settings let you change your phone's menu appearance, display brightness and contrast, and display content to better meet your needs.

- ▶ From Standby mode, select **MENU → Settings → Display Settings**.
 - **Wallpaper** — Choose the image that appears as background on your phone's display while in Standby mode.
 - **Clock Format** — Choose whether the time and date are displayed, and the style of clock.

- **Theme** — Choose the color set used for menus and screens on your phone's display.
- **Dialing Font Size** — Select the size of font to display digits you dial.
- **Banner** — Select a banner to appear in the display while your phone is in Standby mode. Choose Personal, then enter text for the banner, or ERI (Extended Roaming Indicator).
- **Backlight** — Set the length of backlight time for the Main Display, Keypad, and Charging display, and select Brightness level for all displays.

Sound Settings

Sound Settings let you customize your phone's audio properties, such as master volume, ring tones, keypad tones, and alert tones.

- ▶ From Standby mode, select **MENU → Settings → Sound Settings**.
 - **Master Volume** — Set the default volume for all sounds produced by your phone. Choose from Ringer Off, Vibrate, Low, Low/Medium, Medium, Medium/High or High. Add vibration to any volume level by pressing the Vib. On soft key.
 - **Ringer Type** — Assign ring tones for Voice Calls, Messages, or the Roam Ringer.
 - **Alerts** — Set tones for Minute Beep, to play a beep every minute while in a call; Roam/SVC Alert, to play a tone when roaming or network service status changes; Call Connect, to play a tone when a call connects; Power On/Off, to play tones when the phone is powered on and off; and Voice Privacy Alert, to play a tone when Voice Privacy is active.
 - **Key Tone** — Adjust the Tone Level and Tone Length of sounds generated when you press keys.

Call Settings

Call Settings allow you to set options for calls, such as Call Answer options, Auto Retry, TTY Mode, Voice Privacy and more.

- ▶ From Standby mode, select **MENU → Settings → Call Settings**.
 - **Call Answer** — Choose how to answer incoming calls; by pressing Any Key, or by pressing only the Send Key.
 - **Auto Answer** — Choose whether the phone will automatically answer incoming calls After 1 Second, After 3 Seconds, or After 5 Seconds.
 - **Auto Retry** — Select whether the phone will automatically retry outgoing calls that are not answered, Every 10 Seconds, Every 30 Seconds, or Every 60 Seconds.
 - **TTY Mode** — Enable or disable TTY Mode, and set the type of TTY service fro TTY Full, TTY+Talk, TTY+Hear.
 - **Voice Privacy** — Choose the level of privacy: Standard or Enhanced. When set to Enhanced, the phone sounds an audible beep when you lose privacy (encryption) on a CDMA connection.

Phone Settings

Phone Settings allow you to customize the phone's operation.

- ▶ From Standby mode, select **MENU → Settings → Phone Settings**.
 - **Airplane Mode** — When On, disables all radio functions of your phone, but allows you to use other features safely in sensitive environments, such as on board an aircraft.
 - **Language** — Select English or Español for use by the phone.
 - **Security** — Set security options. To change settings you must enter the Lock Code, which by default is the last four digits of your phone number.

- **Lock Phone:** Choose Lock or Unlock to control lock mode manually, or On Power Up to have the phone lock automatically when turned on. Follow on-screen prompts to unlock the phone in Standby mode.
- **Change Lock:** The default Lock Code is the last four digits of your phone number. Use Change Lock to reset the Lock Code to a four-digit code of your choice.
- **Emergency #:** Enter numbers that can be dialed while in Lock Mode. Default emergency numbers are provided.
- **Reset Phone:** Changes all settings except Contacts to the defaults. The phone will restart automatically after the reset.
- **Erase All Entries:** Deletes all entries you've made to the phone, including Contacts.
- **Restriction:** For Incoming and Outgoing Calls, you can Allow All, Allow Contacts (to allow only calls to/from numbers stored in Contacts), or Allow None. For SMS Messages, MMS Messages or Data, you can Allow All or Allow None.
- **NAM Selection** — Set your preferred system, NAM1 or NAM2. Contact your Wireless Provider for more information. Changing this setting causes your phone to automatically restart.

Important!: If you do the following, you won't be able to access your phone, and you will be required to call the Service Center to unlock your phone.

- Set **Lock Phone** to **On Power Up**
- Change the **NAM Selection** setting without a number programmed into **NAM2**.

-
- **System Select** — Select Home Only to restrict your phone to your home network, or Automatic to allow roaming.

- **Set Time** — Set the time and date. These settings are automatic when your phone is in a service area, and can only be used when operating in out-of-service conditions.
- **Speed Dial** — Enable/disable speed dialing of Contacts entries.
- **Quick Search** — Enable/disable the use of Quick Search to locate Contacts by key entries in Standby mode.
- **Shortcut Key** — Assign an application to the Up, Down, Right and Left Navigation keys, to launch when the key is pressed.
- **Auto Key Lock** — Choose whether the phone keys are automatically disabled when the backlight goes out.

Memory Info

Memory Info shows the amount of memory used and available, and details the distribution of the used memory.

- ▶ From Standby mode, select **MENU** → **Settings** → **Memory Info**.

Phone Info

Phone Info contains information about your phone.

- ▶ From Standby mode, select **MENU** → **Settings** → **Phone Info**.
 - **Phone Number** — Display your phone number.
 - **Icon Glossary** — Display a list of all icons used on your phone's displays.
 - **Version** — Display the phone's hardware and software versions.

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

Certification Information (SAR)

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:** 1.00 W/Kg.
- **Body-worn:** 0.56 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.

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.

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: <https://fun.samsungmobileusa.com/recycling/index.jsp>, or call 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 12/1/2006):

- 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/homepage.html>
- 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/cellphones>

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.

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; if necessary, 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 while moving, 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 website 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:

- 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>

1-888-232-6348 TTY

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

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.

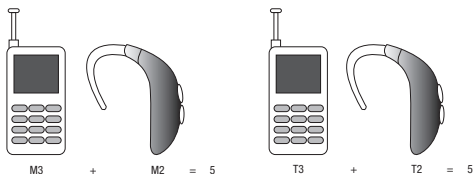
The wireless telephone industry has developed a rating system for wireless phones, to assist hearing device users find phones that may be compatible with their hearing devices. Not all phones have been rated. Phones that are rated have the rating on their box or a label located on the box.

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. Therefore, you should never rely solely on any wireless phone for essential communications (medical emergencies, for example).

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. Children should not be allowed 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.
- 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 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. Faulty service 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. For more information, refer to *“Turn Bluetooth On/Off”* on page 56.
- 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.
- 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.

- 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.
- Use only Samsung-approved batteries and recharge your battery only with Samsung-approved chargers. 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, 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, such as in a car in summer or winter conditions, as you will reduce the 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 phone in areas that may get very hot, such as on or near a cooking surface, cooking appliance, iron, or radiator.
- 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. 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. 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. 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 or on heating devices, such as a microwave oven, a stove or a radiator. 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.

Section 15: Warranty Information

Standard Limited Warranty

What is Covered and For How Long?

SAMSUNG TELECOMMUNICATIONS AMERICA, LLC ("SAMSUNG") warrants to the original purchaser ("Purchaser") that SAMSUNG's Phones and accessories ("Products") are free from defects in material and workmanship under normal use and service for the period commencing upon the date of purchase and continuing for the following specified period of time after that date:

Phone	1 Year
Batteries	1 Year
Leather Case	90 Days
Holster	90 Days
Other Phone Accessories	1 Year

What is Not Covered? This Limited Warranty is conditioned upon proper use of Product by Purchaser. This Limited Warranty does not cover: (a) defects or damage resulting from accident, misuse, abuse, neglect, unusual physical, electrical or electromechanical stress, or modification of any part of Product, including antenna, or cosmetic damage; (b) equipment that has the serial number removed or made illegible; (c) any plastic surfaces or other externally exposed parts

that are scratched or damaged due to normal use; (d) malfunctions resulting from the use of Product in conjunction with accessories, products, or ancillary/peripheral equipment not furnished or approved by SAMSUNG; (e) defects or damage from improper testing, operation, maintenance, installation, or adjustment; (f) installation, maintenance, and service of Product, or (g) Product used or purchased outside the United States or Canada.

This Limited Warranty covers batteries only if battery capacity falls below 80% of rated capacity or the battery leaks, and this Limited Warranty does not cover any battery if (i) the battery has been charged by a battery charger not specified or approved by SAMSUNG for charging the battery, (ii) any of the seals on the battery are broken or show evidence of tampering, or (iii) the battery has been used in equipment other than the SAMSUNG phone for which it is specified.

What are SAMSUNG's Obligations? During the applicable warranty period, SAMSUNG will repair or replace, at SAMSUNG's sole option, without charge to Purchaser, any defective component part of Product. To obtain service under this Limited Warranty, Purchaser must return Product to an authorized phone service facility in an adequate container for shipping, accompanied by Purchaser's sales receipt or comparable substitute proof of sale showing the date of purchase, the serial number of Product and the sellers' name and address. To obtain assistance on where to deliver the Product, call Samsung Customer Care at 1-888-987-4357. Upon receipt, SAMSUNG will promptly repair or replace the defective Product. SAMSUNG may, at SAMSUNG's sole option, use rebuilt,

reconditioned, or new parts or components when repairing any Product or replace Product with a rebuilt, reconditioned or new Product. Repaired/replaced leather cases, pouches and holsters will be warranted for a period of ninety (90) days. All other repaired/replaced Product will be warranted for a period equal to the remainder of the original Limited Warranty on the original Product or for 90 days, whichever is longer. All replaced parts, components, boards and equipment shall become the property of SAMSUNG.

If SAMSUNG determines that any Product is not covered by this Limited Warranty, Purchaser must pay all parts, shipping, and labor charges for the repair or return of such Product.

WHAT ARE THE LIMITS ON SAMSUNG'S WARRANTY/LIABILITY? EXCEPT AS SET FORTH IN THE EXPRESS WARRANTY CONTAINED HEREIN, PURCHASER TAKES THE PRODUCT "AS IS," AND SAMSUNG MAKES NO WARRANTY OR REPRESENTATION AND THERE ARE NO CONDITIONS, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, OF ANY KIND WHATSOEVER WITH RESPECT TO THE PRODUCT, INCLUDING BUT NOT LIMITED TO:

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- DESIGN, CONDITION, QUALITY, OR PERFORMANCE OF THE PRODUCT;
- THE WORKMANSHIP OF THE PRODUCT OR THE COMPONENTS CONTAINED THEREIN; OR

- COMPLIANCE OF THE PRODUCT WITH THE REQUIREMENTS OF ANY LAW, RULE, SPECIFICATION OR CONTRACT PERTAINING THERETO.

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Precautions for Transfer and Disposal

If data stored on this device is deleted or reformatted using the standard methods, the data only appears to be removed on a superficial level, and it may be possible for someone to retrieve and reuse the data by means of special software.

To avoid unintended information leaks and other problems of this sort, it is recommended that the device be returned to Samsung's Customer Care Center for an Extended File System (EFS) Clear which will eliminate all user memory and return all settings to default settings. Please contact the **Samsung Customer Care Center** for details.

Important! Please provide warranty information (proof of purchase) to Samsung's Customer Care Center in order to provide this service at no charge. If the warranty has expired on the device, charges may apply.

Customer Care Center:

1000 Klein Rd.

Plano, TX 75074

Toll Free Tel: 1.888.987.HELP (4357)

Samsung Telecommunications America, LLC:

1301 East Lookout Drive

Richardson, Texas 75082

Phone: 1-800-SAMSUNG (726-7864)

Important! If you are using a handset other than a standard numeric keypad, dial the numbers listed in brackets.

Phone: 1-888-987-HELP (4357)

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