

SCH-R631

**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 phone by activating your service, setting up your Voicemail, and getting an understanding of how this manual is put together.

Understanding this User Manual

The chapters of this manual generally follow the same order as the menus and sub-menus in your phone. A robust index for quick reference to most features begins on page 154.

Also included is important safety information that you should know before using your phone. Most of this information is near the back of the guide, beginning on page 104.

Text Conventions

This manual uses the following terms and icons appear in place of repeated procedural steps:

- select** Tap a menu item or screen item to launch, access, or save a highlighted menu item or field of interest.
- Used in place of “select” in long “drill down” procedure steps.

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

Notes and Tips

Throughout this manual some text is set apart from the rest. In this way, important information, quick methods for activating features, to define terms, and more are emphasized. The definitions for these methods are as follows:

- **Note:** Explains alternative options within the current feature, menu, or sub-menu.
- **Tip:** Provides quick or innovative methods for performing functions related to the topic.
- **Caution:** Provides advice to warn of potential consequences to an action or command.
- **Warning:** Points out important information about the topic that could affect performance, or even damage your phone.
- **Example:** Gives examples to illustrate the procedure or results.

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.

Battery

Your phone is powered by a rechargeable, standard Li-Ion battery, and comes with a travel adapter for charging. The battery comes partially charged. You must fully charge the battery before using your phone for the first time. A fully discharged battery requires up to 4

hours of charge time. After the first charge, you can use the phone while charging.

Warning! Use only Samsung-approved charging devices and batteries. Samsung accessories are designed to maximize battery life. Using other accessories may void your warranty and may cause damage.

Battery Indicator

The battery indicator  in the upper-right corner of the display shows battery power level, with 5 bars indicating a full charge. Two to three minutes before the battery becomes too low to operate, the empty battery icon blinks and a tone sounds. If you continue to operate the phone without charging, it will shut down.

Battery Cover

Your phone has a removable battery cover.

Removing the Cover

- ▶ Lay the phone face down and gently pull up on the slot at the base of the cover. Then, lift the cover up and away from the phone.



Installing the Cover

- ▶ Place the top end of the battery cover over the battery and press it gently into place

Installing the Battery

1. Remove the battery cover. See “*Removing the Cover*” on page 7.
2. Insert the top end of the battery into the phone, aligning the gold contacts on the top of the battery with phone’s gold contacts.
3. Press on the bottom end of the battery until it slips into place.
4. Install the battery cover. For more information, see “*Installing the Cover*” on page 7.



Removing the Battery

1. Press and hold  to turn off the phone.
2. Remove the battery cover. See “*Removing the Cover*” on page 7.
3. Lift the bottom end of the battery up and out of the phone.
4. Install the battery cover. For more information, see “*Installing the Cover*” on page 7.



Travel Adapter

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

Charging the Battery

Note: The battery comes partially charged. You must fully charge the battery before using your phone for the first time. A fully discharged battery requires up to 4 hours of charge time. After the first charge, you can use the phone while charging.

1. Insert the USB end of the Travel Adapter into the phone's Power/USB Connector.
2. Plug the Travel Adapter into a standard 120 VAC or 220 VAC wall outlet.
3. When charging is complete, unplug the travel adapter from the power outlet and remove the USB cable from the phone.



Warning! To avoid damage, always unplug the adapter before removing the battery from the phone.

Turning your Phone On and Off

Turning your Phone On

- ▶ Press and hold the **End** key , on the bottom right of the phone. The phone begins searching for a signal. When the phone finds a signal, the time and date appear in the display.



Press and Hold

Note: 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.

Turning Your Phone Off

- ▶ Press and hold the **End** key , on the bottom right of the phone, for two or more seconds.

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.

Memory Card (Optional)

Your phone supports the use of an optional, removable microSD™ or microSDHC™ memory card of up to 16GB capacity.

Note: Music Player requires the use of a memory card.

Installing a Memory Card

1. Pull the microSD cover out and turn it to expose the card slot.
2. Hold the card with the label facing up, and carefully slide the memory card into the slot until you feel it lock into place.
3. Replace the microSD cover.



Removing a Memory Card

1. Pull the microSD cover out and turn it to expose the card slot.
2. Carefully push on the memory card to release the lock, then release. The card will slide out a short distance.
3. Remove the memory card from the memory card slot.

Tip: For best results, format a previously-used microSD memory card with your phone before using it. For more information, see “*Formatting a Memory Card*” on page 102.

Voicemail

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

Note: After you set up your Voicemail account, you can view voicemail details in the Voicemail folder (in the Messaging menu).

Setting up Voicemail

1. In Standby mode, tap **Dialer** to display the Dialer screen.
2. Press and hold .
3. Follow the prompts to set up your Voicemail.

Listening to Voicemail

1. In Standby mode, tap **Dialer** to display the Dialer screen.
2. Press and hold .
3. Follow the prompts to listen to messages and manage your voicemail.

Locking and Unlocking

Your phone offers two lock modes: Display Lock and Phone Lock.

Locking and unlocking the display

Locking the display prevents unintentional key presses. By default, the display locks when the backlight goes out.

Locking the display manually

- ▶ Press the **Lock** key .

Unlocking the display

- ▶ Wake the screen by pressing the **Lock** key  or the **Clear** key , then drag your finger from any edge of the Lock screen toward the middle.

Tip: You can also unlock the display by pressing and holding the **Lock** key .

Locking and unlocking the Phone

Locking the phone prevents unauthorized access to information and features on the phone, but allows dialing of Emergency Numbers.

Locking and unlocking the phone requires the Lock code.

Locking the phone

1. From Standby mode, tap **Menu** → **Menu 1** → **Settings** → **Phone Settings** → **Security**.
2. At the prompt, enter the lock code. By default, the lock code is the last four digits of your phone number.
3. Tap **Lock Phone Now**. The Home screen displays in Locked mode.

Unlocking the phone

- ▶ Touch **Unlock** and enter the lock code at the prompt.

Section 2: Understanding Your Phone

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

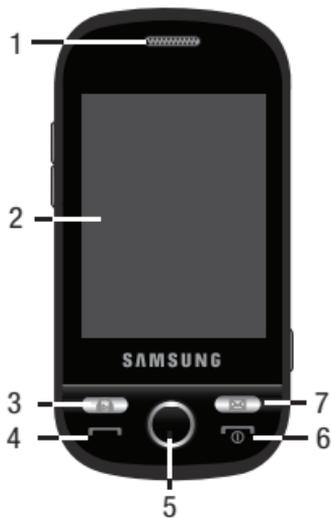
Features of Your Phone

- Full high-resolution, color Touch Screen
- Sliding QWERTY Keypad
- Widget menu
- Messaging, including Text, Picture and Video
- Built-in 2 Megapixel Digital wide-screen Camera/Camcorder
- High speed data (EVDO)
- Bluetooth® (v2.0) Wireless Technology
- Global Positioning (GPS) Technology
- Voice and Touch Keypad Dial
- Music (MP3) Player and Video (MP4) Player
- Support for optional microSD™ and microSDHC™ cards up to 16 GB
- Voice Recognition
- Speakerphone
- Personal Information Management Tools, including Calendar, Memo Pad, Alarm Clock, World Time, Stop Watch, Sketch Pad, Timer, Calculator, Tip Calculator, and Converter

Front View (Closed) of Your Phone

Features

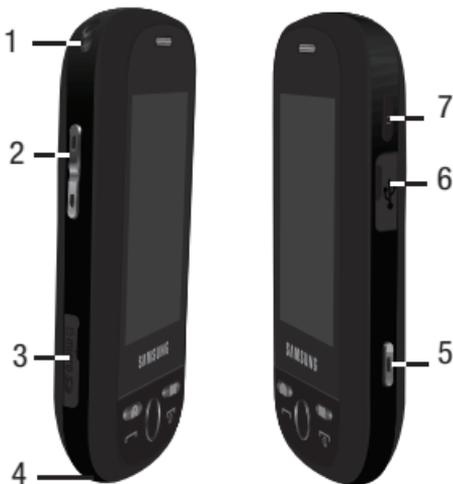
- 1. Earpiece:** Lets you hear other parties to calls, music, video sounds, and tones.
- 2. Touch Screen Display:** Indicates your phone's status, including numbers dialed, feature screens, status icons, message indicators and contents, and signal strength. Shows all touch controls.
- 3. Music Player Key:** Press to launch the Music Player.
- 4. Send Key:** Press to place or answer calls. In Standby mode, press once to access the Recent Calls log.
- 5. Clear Key:** Press to delete characters from the display in text entry mode. When navigating the phone's features and menus, press to return to the previous menu or screen.
- 6. Power On-Off/End Key:** Press and hold to turns the phone on and off. Press to end a call. Press to return to Standby mode from any feature, function, or menu.
- 7. Messaging Key:** Press to launch the Messaging menu.



Side Views of Your Phone

Features

- 1. Strap tab:** Attach an optional carrying strap (not included).
- 2. Volume Key:** Press to adjust ring volume in Standby mode, adjust the voice volume during a call, or mute the ringer for an incoming call.
- 3. Memory Card Slot:** Insert an optional microSD™ memory card for additional multimedia file storage.
- 4. Microphone:** Lets the other caller hear you clearly when you are speaking to them.
- 5. Camera Key:** Press to launch the Camera/Camcorder to take pictures or record videos.
- 6. Power / USB Connector:** Connect charging accessories or USB cables to your phone.
- 7. Lock Key:** Press to lock the display. When locked, press and hold to unlock the display.



Front View (Open) of Your Phone

Features



1. **Function (Fn) Key:** Toggles access to numbers or symbols at the top of the QWERTY keys.
2. **Shift Key:** Press and hold to toggle between Abc and XT9 text entry modes. Press to toggle capitalization within a mode.
3. **Space Key:** Inserts a space character in a text field.
4. **OK Key:** Press to select a highlighted item, or the command at the center of the bottom line of the display.
5. **Navigation Keys:** Press to scroll in menus or move the cursor.
6. **Next Line Key:** Move the cursor to the next line.
7. **Back / Clear Key:** When entering text, press to delete characters. Press to return to the previous menu or screen.

Closed View (Rear) of Your Phone

Features

1. **Headset Connector:** Connect a headset or TTY device to your phone.
2. **Camera Lens:** The lens of the built-in camera.
3. **Battery Cover:** Remove to access your phone's battery.
4. **Battery Cover Pull Slot:** Used to remove the Battery Cover.
5. **Speaker Grille:** Plays ringing and alert tones, alarm tones, and the other parties to calls.



Learning More About Your Phone

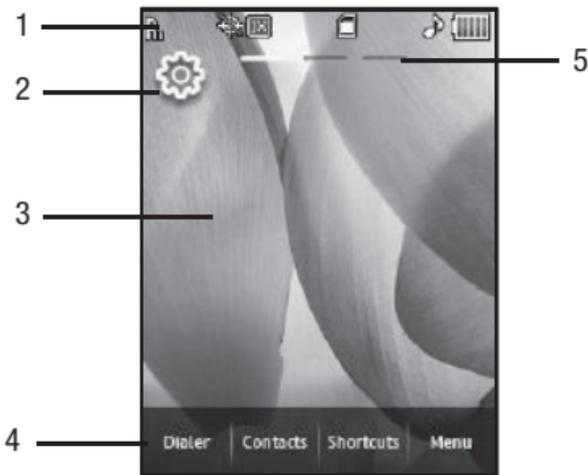
Your phone contains a Tutorial Widget for access to tutorials about many phone features.

To access the tutorials:

1. From a Home screen, tap the **Widgets** icon  to open the **Widget Tray**.
2. In the **Widget Tray**, tap the **Tutorial** widget  to place it on the Home screen.
3. Tap the **Tutorial** widget  to launch the tutorial. Touch a topic to view the tutorial:
 - **Physical Keys**
 - **Widget Tray**
 - **Shortcuts**
 - **Adjusting Volume**
 - **Making a Call**
 - **Contacts**
 - **Camera**
 - **Music Player**
 - **Widget and Menu**
 - **Zooming**

Home Screen

The Home screens are your starting point for using the features of your phone. Your phone includes 3 Home screens, which you can customize by placing widgets and changing wallpaper.



Portrait Mode

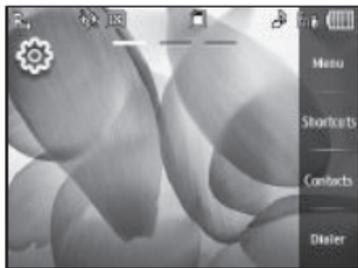
Caution! Your touch screen responds best to a light touch from the pad of your finger or a non-metallic stylus. Using excessive force or a metallic object when pressing on the touch screen may damage the tempered glass surface and void the warranty (see “Warranty Information” on page 140.)

Understanding the Home Screen

1. The top line displays icons to indicate network status, battery power, signal strength, connection type, and more.
2. Tap the Widgets icon to open the Widget Tray.
3. The center portion displays Widgets, call info, and alerts.
4. The bottom line contains available soft keys:
 - **Dialer**: Launches the Dialer screen to place calls.
 - **Contacts**: Launches Contacts.
 - **Shortcuts**: Launches the Shortcuts screen.
 - **Menu**: Launches the Menu.
5. Three lamps indicate which Home screen is currently showing, in this example, Home screen 1.

Landscape Mode

With the QWERTY keypad open, the display rotates automatically from portrait mode as shown at left, to landscape mode.



Landscape Mode

Icons

Your phone's Icon Glossary contains definitions of the icons that appear in the display.

- ▶ In Standby mode, tap **Menu** → **Menu 1** → **Settings** → **Phone Info** → **Icon Glossary**.

Shortcuts

You can add up to nine shortcuts to the Shortcuts screen to launch your favorite features or applications.

Note: The first time you launch Shortcuts, the screen is empty. Customize the Shortcuts screen to include your favorite features.

Accessing Shortcuts

1. From Standby mode, tap **Shortcuts**. The **Shortcuts** screen displays.
2. Tap a Shortcut icon to launch its sub-menu or application.

Customizing the Shortcuts Screen

Adding Shortcuts

- ▶ To add a shortcut, tap , then select a shortcut from the list.

Removing Shortcuts

1. To remove a shortcut, tap , then tap the Shortcut you wish to delete. Tap **Delete** to delete the Shortcut.
2. To delete all Shortcuts, tap **Mark All**, then tap **Delete**.



Widgets

Widgets are icons that you can place on any of the three Home screen to launch their menus or applications right from the Home screen.

Note: You can choose widgets to show in the Widgets Tray. For a list of all available widgets, see “*Widgets*” on page 84.

Using the Widget Tray

Accessing the Widget Tray

1. In Standby mode, tap the **Widgets** icon . The **Widgets Tray** appears at the bottom of the Home screen.
2. To hide the **Widget Tray**, tap the **Widgets** icon  again.

Navigating the Widget Tray

- ▶ Scroll through available Widgets by sliding your finger right or left along the Widget Tray.

Placing Widgets

1. Tap a widget to place it on the Home screen.
2. To **move** a widget on a Home screen, tap and hold on the widget until it moves, then slide it to a new location.
3. To **remove** a widget from a Home screen, tap the Widgets icon to open the Widget Tray, then touch and drag it to the tray.

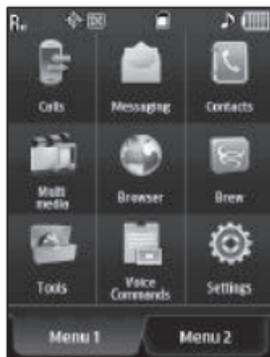


Menus

Your phone's Menus provide access to phone features and applications.

Accessing Menus

1. From Standby mode, tap **Menu** to display **Menu 1**.
2. Tap the **Menu 2** tab to display **Menu 2**.
3. Tap an icon to launch its sub-menu or application.



Entering Text

Your phone includes a slide-out QWERTY keypad, for quick and easy text input. Using the QWERTY keypad, you can enter text as you would on a computer keyboard.

Each key is labeled with a letter, and a number or symbol in blue. To enter characters, press the key corresponding to the character. Use these special keys when entering text:



Clear: Press to delete the previous character. Press and hold to delete the previous word.



Next Line: Press to move the insertion point to the next line, or to the next field.



Shift: Press to switch between **Abc** (initial case), **ABC** (upper case), and **abc** (lower case) modes. Press and hold to access **XT9** predictive text mode.



Space: Press to insert a space.



Function: Press to toggle entry mode between **Abc** (text), **Fn** (to access to the number or symbol in blue for the next key press) and **Fn**  (to lock access to the blue numbers or symbols).



Symbols: Tap to display the **Symbols** menu. Tap a symbol to insert it into your text.

Section 3: Call Functions

This section describes how to make, answer and end calls, and other call-related features.

Making Calls

Your phone offers multiple ways to make calls:

- Use the touchscreen Dialer to enter a telephone or speed dial number.
- Use the QWERTY keyboard to enter a telephone or speed dial number. Calls with the QWERTY keypad are made automatically in Speakerphone mode.
- Call a contact from Contacts.
- Return a call, or call a recent caller via the Calls logs.
- Voice dial with Voice Commands.

Making a Call Using the Dialer

1. In Standby mode, tap Dialer. The format of the Dialer screen depends on whether the phone is open.
2. Enter the number to call, using the touch keypad or the QWERTY keypad.
3. Press  to dial the call.



Making a Call Using Speed Dial

Use Speed Dialing to call to any stored Contact by dialing the Contact's assigned 1-, 2- or 3-digit speed dial number.

Note: To use Speed Dialing, you must enable One Touch Dial in Phone Settings. For more information, see *"One Touch Dial"* on page 100.

1. In Standby mode, tap **Dialer** to display the Dialer.
 2. Tap the digits of the Speed Dial number, holding down the last digit until the phone dials the associated phone number.
-

Example: For 1-digit Speed Dials, tap and hold the digit.
For 2-digit Speed Dials, tap the first digit and hold the second digit.
For 3-digit Speed Dials, tap the first two digits and hold the third digit.

Making Emergency Calls

When you dial 911, your phone locks itself in Emergency mode, only allowing you to make calls to the same 911 emergency call center you originally contacted. This allows emergency operators to more easily dispatch emergency services.

1. In Standby mode, tap **Dialer** to display the Dialer.
2. Enter 911, then press  to place the call.

Three-Way Calling

Call two numbers and connect them using Three-Way calling.

1. In Standby mode, tap **Dialer** to display the Dialer.
2. Enter the number for the first party and press .
3. While the first call is in progress, ask the other party to remain on the line, then tap the Dialer button.
4. Enter the second party's phone number and press .
5. When the second party answers, resume the conversation.

Voice Dialing

Use the **Call** command to dial any number stored in your Contacts list by saying the name of the contact (Name Dialing), or by speaking the digits of the number (Digit Dialing).

Tip: When Voice Commands prompts you for input, you will also see the prompts on screen, where you tap to make selections.

Name Dialing

Call numbers saved in your Contacts by saying the contact's name.

1. In Standby mode, tap **Menu** → **Menu 1** → **Voice Commands**.
2. At the voice prompt "**Please say a command**", say "**Call.**"
3. At the voice prompt, say the name of the contact. If Voice Commands recognizes the name, it repeats the name and dials the number.

4. If Voice Commands does not recognize the name, it displays a list of up to three names and prompts “**Did you say?**” followed by the first name on the list.
5. Say “**Yes**” to confirm the name or “**No**” to hear the next name.
6. If the contact has multiple phone numbers stored, Voice Commands prompts you with “**Which location?**”. Say the type of number, **Mobile 1**, **Mobile 2**, **Home**, **Business**, or **Fax**.

Number Dialing

Place calls by saying the telephone number.

1. In Standby mode, tap **Menu** → **Menu 1** → **Voice Commands**.
2. At the voice prompt “**Please say a command**”, say “**Call**.”
3. At the voice prompt, say the telephone number. If Voice Commands recognizes the digits you say, it repeats the digits and dials the number.
4. Say “**Yes**” to confirm the name or “**No**” to hear the next name.

Answering Calls

When you receive a call, the phone alerts you by displaying an alert containing the caller’s number and name, if the number is stored in Contacts.

Tip: You can quickly silence the ringer for an incoming call by pressing the **Volume** key  Down, or tapping **Quiet**.

Answering an Incoming Call

- ▶ Press .

Tip: You can choose other options for answering calls. For more information, see “Answer Options” on page 98.

Answering Call-Waiting Calls

When you receive a call while already on a call:

1. Press  to answer the incoming call. The first call is automatically placed on hold.
2. Pressing  places the current call on hold, allowing you to switch between calls.

Sending Calls to Voicemail

- ▶ Touch **Ignore + Msg** to send the call to Voicemail and send a text message to the caller.

– or –

Press the **End** key .

In-Call Options

While in a call, tap on-screen buttons for in-call options:

1. **Speakerphone:** Touch and slide to **On** to enable, or **Off** to disable, Speakerphone.
2. **Mute:** Touch and slide to control whether the other party can hear your voice.

3. **Dialer:** Launch the Dialer to make another call for three-way calling.
4. **Bluetooth:** Launch the Bluetooth menu, to switch the call's sounds to a paired Bluetooth device.
5. **Options:**
 - **Contacts:** Launch the Contact List, to look up contact information, or to place a new call for three-way calling.
 - **Recent Calls:** Launch the All Calls log, listing recent calls.
 - **Message:** Launch the Messaging menu.
 - **Send DTMF:** Send your phone number as DTMF (Dual-Tone Multi-Frequency) tones to the other party on the call.
 - **Voice Privacy:** Change the Voice Privacy setting.
 - **Location:** Change your phone's current Location setting.
 - **Bluetooth:** Launch the Bluetooth menu, where you can switch the call's sounds to a paired Bluetooth device.

Ending a Call

- ▶ Press the **End** key .

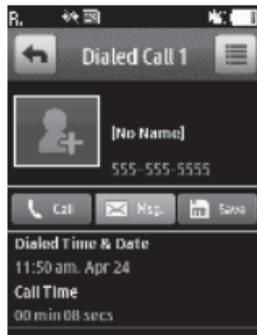
Calls

The Calls log saves information about all Missed, Received, and Dialed calls. Use the Calls logs for reference, to return calls, and to save information to Contacts. You can also view call times.

Tip: Launch the **All** calls log from Standby mode by pressing the **Send** key .

Viewing Calls Logs

1. In Standby mode, tap **Menu** → **Menu 1** → **Calls**.
2. Tap a log to view details:
 - **Missed:** Calls you did not answer.
 - **Received:** Calls you answered.
 - **Dialed:** Calls you made.
 - **All:** All calls.
 - **View Timers:** Details about calls.
3. In a call log, touch and drag to scroll the list of calls. Icons indicate the type:
 -  **Dialed**
 -  **Missed**
 -  **Received**
4. While viewing the list of calls, tap  for **Options**:
 - **Erase:** Mark call record(s) for deletion from the log.
 - **Lock/Unlock:** Lock call record(s) to prevent deletion, or unlock records.
 - **View Timers:** Display call record details.
5. Tap a call record to view the call details and use these functions:
 - **Call:** Dial the number.
 - **Msg.:** Create a new message.
 - **Save:** Save to Contacts.
 - For more options, tap :
 - **Erase:** Delete the selected call record.
 - **Lock/Unlock:** Lock the call record to prevent erasure, or unlock the record.



View Timers

View the duration of your last call, total calls, and calls made during the life of your phone using the View Timers feature.

Note: View Timers is not for billing purposes.

- ▶ In Standby mode, tap **Menu** → **Menu 1** → **Calls** → **View Timers**.
 - **Last Call:** Duration of your last call.
 - **All Calls:** Number and total duration of all calls to and from your phone since the last reset.
 - **Received Calls:** Number and total duration of all calls to your phone since the last reset.
 - **Dialed Calls:** Number and total duration of all calls from your phone since the last reset.
 - **Roaming Calls:** Number and total duration of all calls to and from your phone while roaming since the last reset.
 - **Transmit Data:** Amount of data sent by your phone.
 - **Received Data:** Amount of data received by your phone.
 - **Total Data:** Total amount of data sent and received by your phone.
 - **Last Reset:** Date and time you last reset all timers.
 - **Lifetime Calls:** Duration of all calls to and from your phone since activation (cannot be reset).
 - **Lifetime Data Counter:** Total amount of data sent and received your phone since activation (cannot be reset).

Reset Timers

1. In Standby mode, tap **Menu → Menu 1 → Calls → View Timers**.
2. Tap **Reset**.
3. Touch and drag to scroll the list of timers, tapping timer(s) to mark them to reset, or tap **Mark All** to reset all timers (except Lifetime Calls and Lifetime Data Counter).
4. Tap **Done**. At the prompt, confirm the reset by tapping **Yes**.

Storing Numbers from Call Logs

Store numbers from your Dialed, Received, Missed, and All call logs to Contacts.

Tip: In Standby mode, press  to display the All calls log. You can then select any call in the list to save to Contacts.

1. In Standby mode, tap **Menu → Menu 1 → Calls**.
2. Tap **Missed, Received, Dialed** or **All** to display a call log.
3. Touch and drag to scroll up or down to find a call record, then tap the record to display it.
4. Tap **Save**, then tap **Add New Contact**, or **Update Existing**.
5. Continue to enter Contact details. For more information, see *“Adding a Contact”* on page 35..

Section 4: Understanding Your Contacts

This section explains how to manage your daily contacts by storing up to 1000 contact entries, with up to five phone numbers and one e-mail address each, plus assign Speed Dial numbers for faster dialing.

To access the **Contacts List** for quick access to most functions:

- ▶ From Standby mode, tap **Contacts**.

To access **Contacts** for all contacts related functions:

1. From Standby mode, tap **Menu** → **Menu 1** → **Contacts**.
2. Touch and drag to scroll the list, then tap a selection:
 - **New Contact:** Create a new contact.
 - **Contact List:** View and manage your contacts.
 - **Groups:** Create and manage groups for categorizing your contacts.
 - **Speed Dials:** Assign manage Speed Dial numbers.
 - **Memory Status:** Display memory statistics for Contacts.

Adding a Contact

Add new contacts from the Contacts menu, from the Dialer, or from the Calls logs (see “*Storing Numbers from Call Logs*” on page 34.)

1. In Standby mode, tap **Contacts**.
2. In the **Contact List**, tap **Add New Contact** .
3. At the **New Contact** screen, open the phone, then tap fields to enter contact information using the QWERTY keypad.
4. When finished, tap **Save** to save the contact.

Adding a Contact from the Dialer

1. In Standby mode, tap **Dialer**.
2. Enter the telephone number, then tap **Save → Add New Contact**.
3. Tap **Mobile 1**, **Mobile 2**, **Home**, **Business**, or **Fax**.
4. At the **New Contact** screen, open the phone, then tap fields to enter contact information using the QWERTY keypad.
5. When finished, tap **Save** to save the contact.

Contacts Fields



Picture ID: Tap to set a picture to identify the caller,

- **Pictures:** Select a picture, then move the selection box to select an area of the picture to use as Picture ID. You can also drag the corners of the box to enlarge the selection area.
- **Camera:** Take a new picture.



Name (required): Enter a name of up to 32 characters.



Mobile 1: Enter a telephone number, up to 48 digits.



Home: Enter a telephone number, up to 48 digits.



Business: Enter a telephone number, up to 48 digits.



Personal Email: Enter the email address.



Group: Tap to assign the contact to group(s). Touch group(s) to mark them, then tap **Done**.



Ringtone: Set a ringtone for the contact, from Ringtones. See “*Ringtones*” on page 67.



Mobile 2: Enter a telephone number, up to 48 digits.



Fax: Enter a fax number, up to 48 digits.



Note: Enter a text note.

Finding a Contact

Use the Contact List to find contacts quickly.

1. In Standby mode, tap **Contacts**.
2. Touch and drag to scroll through the list of contacts.
– or –

Enter the first few letters of a contact’s name. As you enter letters, matching contacts display.

3. While viewing the list of contacts, you can use these features:
 - Tap  to call or send a message to the contact.
 - Tap  to erase contact(s).
4. Tap a contact to view its details.

Finding a Contact using Voice Commands

Use Voice Commands to find and view contact information.

Note: The **Contacts** command does not dial phone numbers for a Contact.

1. In Standby mode, tap **Menu** → **Menu 1** → **Voice Commands**.
2. At the prompt “**Say a Command**”, say “**Contacts**”.
3. At the prompt, “**Say the name**”, say the full name of the contact, exactly as it appears in your Contacts list.
 - If Voice Commands recognizes the name, it displays the information.
 - If Voice Commands does not recognize the name, a list of up to three names appears in the display, and Voice Commands prompts “**Did you say?**” followed by the first name on the list.
4. Say “**Yes**” to confirm, or “**No**” to hear the next name, or tap the correct name from the list. To repeat the command, tap **Repeat**.

Editing a Contact

1. Find the contact you wish to change. For more information, see “*Finding a Contact*” on page 37.
2. Tap the desired contact to display it, then tap **Edit**.
3. At the **Edit Contact** screen, open the phone, then tap fields to enter contact information using the QWERTY keypad.
4. When you’re finished editing the contact, press **Save**.

Erasing a Contact

1. In Standby Mode, tap **Contacts** → .
2. Tap Contact(s) to mark them for erasure, then tap **Done**.
3. At the prompt, tap **Yes** to confirm the erasure.

Groups

Groups allow you to categorize contacts to make finding contacts faster, or to send messages to multiple contacts.

Managing Groups

View the list of default groups, create new groups, and delete groups.

1. From Standby mode, tap **Menu** → **Menu 1** → **Contacts** → **Groups**.
2. A list of available groups displays. Default groups are **Business**, **Colleague**, **Family**, and **Friends**.
3. To add a new group, tap **New Group** , then tap the **Enter Name:** field and open the phone to enter contact information using the QWERTY keypad. Tap **Done** to save the new group.
4. To rename a group, tap  → **Rename Group**, then tap a group to rename. Tap the **Enter Name:** field and open the phone to enter contact information using the QWERTY keypad. Tap **Done** to save the new group name.
5. To erase a group, tap  → **Erase Group**, then tap a group to mark it for erasure. Tap **Done**, then tap **Yes** to confirm.

Add Contacts to a Group

You can assign a contact to a group when you add or edit the contact, or use the Add Members option to add one or more existing Contacts to a Group, at one time.

1. From Standby mode, tap **Menu** → **Menu 1** → **Contacts** → **Groups**.
2. Tap a Group to display it, then tap **Add Members** .
3. In the **Add Members** screen in the display, tap contacts to mark them for addition.
4. When you're finished marking Contacts, tap **Done**.

Speed Dials

Speed Dials are 1-, 2- or 3-digit shortcuts you assign to contact entries, to allow you to quickly dial the contact.

Note: Some Speed Dials are reserved by default, and cannot be assigned: Speed Dial 1 is reserved for Voicemail.
Speed Dial 311 is for non-emergency municipal service.
Speed Dial 411 is for directory assistance.
Speed Dial 611 is for customer service.
Speed Dial 711 is for telecom relay service
Speed Dial 911 is for emergencies.

Setting a Speed Dial

1. From Standby mode, tap **Menu** → **Menu 1** → **Contacts** → **Speed Dials**.
2. Tap the desired speed dial number.
3. Tap a contact to assign to the speed dial. At the prompt, tap **Yes** to set the speed dial.

Tip: To set Speed Dials when editing a contact, by tap  → **Set Speed Dial**.

Memory Status

View the amount of memory used to store contacts, as well as the memory remaining to store more contacts.

- ▶ In Standby mode, tap **Menu** → **Menu 1** → **Contacts** → **Memory Status**.

Top 5 Contacts

The Top 5 Contacts widget allows you to specify your top 5 contacts, to quickly call or send a message to a contact, right from the widget.

1. From Standby mode, tap the **Widgets** icon  to display the Widgets tray.
2. Tap the **Top 5 Contacts** widget  to place the widget on the Home screen. To activate the widget, tap it.

Assigning Top 5 Contacts

1. From the Home screen, tap the **Top 5 Contacts** widget  to activate it, then tap **Set**.
2. On the **Top 5 Setting** screen, tap , then tap contact(s) from the list and press **Done**. The contact appears as part of the Top 5 Contacts widget on the Home screen.

Erasing Top 5 Contacts

1. From the Home screen, tap the contact on the **Top 5 Contacts** widget .
2. On the **Top 5 Setting** screen, touch and hold the contact's icon, then drag it to . At the prompt, tap **Yes**.

Section 5: Messaging

This section explains how to send and receive messages, and other features and functionality related to messaging. Your phone can send and receive Text Messages (also known as SMS) and Picture Messages and Video Messages (also known as MMS).

Note: Instructions in this section use the QWERTY keypad, unless otherwise stated. Enter text using your phone's QWERTY keypad. If you tap a field that requires text input, your phone will prompt you to open the phone.

Creating and Sending Text Messages

Text Messages are simple messages containing text, which can be sent to another mobile phone or to an e-mail address.

1. In Standby mode, press the **Messaging** key , then tap **New Message → Text Message**.
-

Tip: You can also create a new text message using Voice Commands. For more information, see *“Using Voice Commands”* on page 69.

2. On the **New Txt Msg** screen, enter recipients:
 - Tap **Add** to select from the Contacts list, Recent Calls, or Groups.
 - Tap **New#** to enter a recipient's number or e-mail address. While entering an email address, tap **Add → Shortcut** to insert common web or e-mail phrases, such as .com or .org.
3. Tap **Text** to enter the text content of your message using the keypad. For more information, see *“Entering Text”* on page 25.

4. While composing a message, tap  for these options:
 - **Save As Draft:** Save the message to **Drafts** .
 - **Insert Quick Text:** Insert pre-composed text in your message.
 - **Priority Level:** Choose **Urgent** or **Normal**.
 - **Validity Period:** Enter a **Date** and **Time** to expire the message.
 - **Enh. Delivery Ack:** Choose **On** to request delivery confirmation.
5. Tap **Send** to send the message.

Creating and Sending Picture Messages

Picture Messages combine text, pictures and sound, and can be sent to other mobile phones, or to Email addresses.

1. In Standby mode, press the **Messaging** key , then tap **New Message** → **Picture Message**.

Tip: Slide the phone open immediately after taking a picture to create a new **Picture Message**.

2. On the **New PIC Msg** screen, enter recipients:
 - Tap **Add** to select from the Contacts list, Recent Calls, or Groups.
 - Tap **New#** to enter recipients manually. While entering an email address, tap **Add** → **Shortcut** to insert common web or e-mail phrases, such as .com or .org.
3. Tap the **Picture** field to add a picture to the message:
 - **Choose a picture from Pictures:** In **Pictures**, tap an image to preview it, then tap **Add** to add it to the message.
 - **Take a new picture:** In **Pictures**, tap  → **Take Picture**.

4. Tap **Text** to enter the text content of your message using the keypad. For more information, see “*Entering Text*” on page 25.
5. Tap **Sound** to add a sound, if desired.
6. Tap **Subject** to add a subject for the message, if desired.
7. While composing a message, tap  for these options:
 - **Preview:** View the message before sending.
 - **Save As Draft:** Save the message to your Drafts folder.
 - **Add Slide:** Create a new slide for a new picture.
 - **Insert Quick Text:** Insert pre-composed text in your message.
 - **Priority Level:** Choose **Low**, **Urgent** or **Normal**.
 - **Validity Period:** Enter a **Date** and **Time** to expire the message.
 - **Delivery Ack:** Choose **On** to request delivery confirmation.
8. Tap **Send** to send the message.

Creating and Sending Video Messages

Video Messages combine text and videos, and can be sent to other mobile phones or to e-mail addresses.

1. In Standby mode, press the **Messaging** key , then tap **New Message → Video Message**.

Tip: Slide the phone open immediately after recording a video to create a new **Video Message**.

2. On the **New Video Msg** screen, enter recipients:
 - Tap **Add** to select from the Contacts list, Recent Calls, or Groups.

- Tap **New#** to enter a number or e-mail address. Tap **Add → Shortcut** to insert common web or e-mail phrases, such as .com or .org.
3. Tap the **Video** field to add a video to the message:
 - **Choose a video from Videos:** In **Videos**, tap a video to preview it, then tap **Add** to add it to the message.
 - **Record a new video:** In **Videos**, tap  → **Record Video**.
 4. Tap **Text** to enter the text content of your message using the keypad. For more information, see “*Entering Text*” on page 25.
 5. Tap the **Subject** field to enter a subject, if desired.
 6. While composing a message, tap  for these options:
 - **Preview:** View the message before sending.
 - **Save As Draft:** Save the message to your Draft folder.
 - **Insert Quick Text:** Insert pre-composed text in your message.
 - **Priority Level:** Choose **Low**, **Urgent** or **Normal**.
 - **Validity Period:** Enter a **Date** and **Time** to expire the message.
 - **Delivery Ack:** Choose **On** to request delivery confirmation.
 7. Tap **Send** to send the message.

Receiving Messages

When you receive a message in Standby mode, the phone displays an alert and plays a sound (unless sounds are turned off). You can choose to:

- **View Now:** Retrieve and open the message for viewing.
- **View Later:** Dismiss the alert. The message is saved to **Messaging**, where you can view it later.

- **Reject:** (Picture and Video Messages) If the Picture/Video Msg Download setting is disabled, reject the message. The message is not saved.

Viewing Text Messages

1. Touch a message to view its contents.
2. Press  for these options:
 - **Forward:** Send a copy of this message to another recipient.
 - **Reply w. Copy:** Send a message to the sender, including a copy of the original message.
 - **Erase:** Delete the message.
 - **Save Quick Text:** Save the message text to the Quick Text list.
 - **Lock / Unlock:** Block/permit erasure of the message.
 - **Add To Contacts:** Save the sender's number to your Contacts.
 - **Extract Addresses:** Display phone numbers and addresses from the message.
 - **Message Info:** View details about the message.

Viewing Picture or Video Messages

1. Touch a message to view its contents. If necessary, the phone connects to the network to download the message, then begin begins playing any attached sound or video.
2. Press  for these options:
 - **Play Again:** Play the attached sound or video again.
 - **Forward:** Send a copy of this message to another recipient.
 - **Erase:** Delete the message.
 - **Save Picture / Save Video / Save Sound:** Save the attachment.
 - **Lock / Unlock:** Block/permit erasure of the message.

- **Add To Contacts:** Save the sender's number to your Contacts.
- **Extract Addresses:** Display numbers and addresses from the message.
- **Message Info:** View details about the message.

Messages

Text, Picture and Video Messages are stored in Messages.

1. In Standby mode, press the **Messaging** key , then tap **Messages**.
2. The **Messages** screen appears in the display, listing messages in a threaded view, by sender or recipients. While viewing the list of messages, tap  for these options:
 - **Sort Alphabetically:** Sort messages by contact name.
 - **Erase:** Delete selected, or all, unlocked messages.
 - **Erase All Messages:** Delete all unlocked messages.
 - **New Message:** Create and send a Text, Picture, or Video message.
3. Tap a message thread to view it. While viewing a message thread, tap  for these options:
 - **Play Again:** (Picture Messages Only) Replay the attached sound file.
 - **Forward:** Send a copy of this message to another recipient.
 - **Reply w. Copy:** Compose and send a reply message to the sender of the message, including a copy of the original message.
 - **Erase:** Delete this message from the Inbox.
 - **Lock / Unlock:** Block/permit erasure of the highlighted message.
 - **Save Quick Text:** Save the message text to the Quick Text list.
 - **Save Pic:** (Picture Messages Only) Save the attachment to Pictures.
 - **Save Sound:** (Picture Messages Only) Save the attached sound.
 - **Add To Contacts:** Save the sender's number to your Contacts.

- **View Contact:** View the sender's contact information.
- **Message Info:** View message details.
- **Extract Addresses:** Save addresses from the message.

Drafts

The Drafts folder stores messages that have not been sent. Return to the Drafts folder at any time to view, edit, or send a draft message.

1. In Standby mode, tap **Menu** → **Menu 1** → **Messaging** → **Drafts**. A list of draft messages appears in the display.
2. Tap  for these options:
 - **Sort by Recipient:** List messages by recipient name or number.
 - **Erase:** Delete one or more selected draft messages.
 - **Erase Drafts:** Delete all draft messages.

Voicemail

Voicemail messages are logged in the Voicemail folder of the Messages menu. Open the Voicemail folder to view message details.

When you receive a new voicemail message, you can:

- **Listen Now:** Calls your voice mailbox and allows you to listen to your messages.
- **Listen Later:** Returns you to Standby mode where you can later choose to call Voicemail and review your messages.

Tip: From Standby mode, you can press and hold  to dial Voicemail.

Message Settings

Use **Message Settings** to define settings for your messages.

1. Standby mode, tap **Menu** → **Menu 1** → **Messaging**. The **Messaging** menu appears in the display.
2. Tap  → **Settings** to change these settings:
 - **Message View Mode:** View messages to/from the same number/Contact as a “chat session”, or view messages individually.
 - **Entry Mode:** Choose the default method for entering text into messages (**Xt9 Word**, **Abc**, **ABC**, **123**).
 - **Auto Save Sent Msg:** Choose whether your messages are saved automatically when you send them (**Auto-Save**, **Don't Save**, **Prompt**).
 - **Auto Erase Received Msg:** Choose to automatically erase (**On**) or not erase (**Off**) old received messages after you view them and new messages require storage space.
 - **Text Msg Auto View:** Choose **On** to display the full content of a text message when the message is received.
 - **Picture/Video Msg Download:** Choose **On** to have your phone automatically download Picture and Video messages for viewing when they are received.
 - **Voicemail Number:** Edit or view your Voicemail number.
 - **Callback Number:** Choose whether to include a callback phone number with your outgoing messages, and enter the number to be included.
 - **Signature:** Choose whether to include a text signature in outgoing message text, and enter the text to be included.

Section 6: Pictures and Video

Use your phone's built-in digital Camera-Camcorder to take digital pictures and videos, display them on your phone's color display, and share them with family and friends.

Using the Camera

Use your phone's built-in camera to take single pictures, or take multiple pictures to combine into a photo mosaic.

1. From Standby mode, press the **Camera** key .
2. The Camera's default shooting mode is **Single**. You can continue with the default settings to take a single picture, or choose **Camera Settings**. For more information, see "*Camera Settings*" on page 52.

Tip: Tap the screen to hide **Camera Settings**.

3. Using the screen as a viewfinder, compose your picture by aiming the lens (on the back of the phone) at the subject.

Note: Press the **Volume** key **Up** to zoom in on your subject, or **Down** to zoom out (not available when Resolution is set to 1600x1200).

4. Press the **Camera** key  to take the picture.

Tip: Open the phone immediately after taking a picture to create a new **Picture Message** with the new picture attached.

5. After taking a picture, use Photo Options for the new photo:
-  **Back:** Discard the picture and return to the Camera.
 -  **Send via:** Send the picture in a Picture Message, or by Bluetooth.
 -  **Set As:** Set the picture as Wallpaper, or as Picture ID for a contact.
 -  **Erase:** Delete the new picture and return to the Camera.
 -  **Save:** Save the new picture to Pictures.

Camera Settings

Tip: In Camera Mode, tap the screen to show or hide Camera Settings.

-  **Back:** Return to Standby mode.
-  **Mode:** Switch between Camera and Camcorder.
-  **Shooting Mode:**
 - **Single:** Take a single picture.
 - **Continuous:** Take consecutive pictures.
 - **Frame:** Add a decorative frame to a picture.
 - **Mosaic:** Choose a template to create a photo mosaic.

 Options → 

- **White Balance:** Choose the light source, from **Auto**, **Sunny**, **Cloudy**, **Tungsten**, or **Fluorescent**.
- **Effects:** Choose an effect to apply, from **Normal**, **Black & White**, **Sepia**, **Aqua**, or **Negative**.
- **Metering:** Choose how to measure the light source, from **Matrix**, **Center-weighted**, or **Spot**.
- **Quality:** Set the quality of the photo, from **Super Fine**, **Fine**, or **Normal**.
- **Nightshot:** Choose **On** to adjust the exposure time to capture available light, or **Off**.

 Options → 

- **Guideline:** Choose **On** to display an on-screen grid to aid in picture composition, or **Off**.
- **Review:** Choose **On** to review each picture as you take it, or **Off** to save and continue shooting.
- **Shutter Sound:** Choose a sound when you take a picture from **Off**, **Shutter 1**, **Shutter 2**, **Shutter 3**.
- **Memory:** Choose the default storage location, **Phone** or optional **Card** (if installed).



Timer: Set a delay, **Off**, **3 seconds**, **5 seconds**, or **10 seconds**.

1600
1200

Resolution: Set the image size, from **1600x1200**, **1280x960**, **640x480**, or **320x240**.



Brightness: Adjust the brightness of the photo.



Quick View:

- **Back:** Return to the previous screen or option.
- **Slide Show:** View pictures as a slide show.
- **Edit:** Modify your picture with Dynamic Canvas.
- **Send via:** Send the picture in a Picture Message, or Via Bluetooth.
- **Set as:** Set the picture as Wallpaper, or as Picture ID for a contact.
- **Erase:** Delete the selected picture.
- **Info:** View details about the picture.

Pictures

Use **Pictures** to view, edit and manage pictures stored on your phone or on an optional installed memory card.

1. From Standby mode, tap **Menu** → **Multimedia** → **Pictures**.
2. Browse pictures by swiping up or down on the screen. Tap  for these **Options**:
 - **Send via Bluetooth**: Send selected picture(s) to a Bluetooth device.
 - **Erase**: Delete one or more selected, unlocked pictures.
 - **Take Picture**: Launch the Camera to take a new picture.
 - **Slide Show**: Make or play a slide show.
 - **Lock/Unlock**: Block/permit picture erasure.
 - **Move**: Move picture(s) between the Phone and an optional installed Memory Card.
 - **Copy**: Save picture(s) to the Phone's memory or an optional installed Memory Card.
 - **View by Location**: View pictures stored in Phone memory, on an optional installed memory card, or All stored pictures.
3. Tap a picture to enlarge the view. While viewing a picture, these options are available:
 - **Magnify** (zoom in on) the picture.
 - **Send** the picture in a Picture Message.
 - **Expand** the picture to full screen.
 - Tap **Options** for these options:
 - **Edit**: Use graphic tools to change the picture.
 - **Erase**: Delete this picture.
 - **Set As**: Set this picture as Wallpaper or as a contact's Picture ID.

- **Take Picture:** Launch the Camera to take a new picture.
- **Rename:** Change the filename for this picture.
- **Move To Card / Phone:** Move the picture between the Phone and Card memory (if an optional memory card is installed).
- **Copy to Card:** Move selected pictures to the Card memory (if an optional memory card is installed).
- **Lock / Unlock:** Block/permit picture erasure.
- **File Info:** View picture details.

Using the Camcorder

Use your phone's built-in Camera-Camcorder to capture videos, for saving or for sending in a Video Message.

1. From Standby mode, press the **Camera** key  on the right side of the phone.
2. Tap **Mode** to switch to Camcorder mode. You can continue with the default settings, or set **Camcorder Options**. For more information, see “*Camera Settings*” on page 52.
3. Tap **Recording Mode** to choose a mode:
 - **Limit for Send:** Limit the video to 15 seconds in length, for attachment to a Video Message.
 - **For Save:** Record a video of any length.
4. Using the display as a viewfinder, point the camera lens at your subject.

Note: Press the **Volume** key **Up** to zoom in on your subject, or **Down** to zoom out.

5. Press the **Camera** key  to start recording, then press the **Camera** key  again to stop recording.
6. After recording the video, choose from these video options:
 -  **Back:** Discard the video and return to the Camcorder.
 -  **Send via:** Send the video in a Video Message.
 -  **Erase:** Delete the new video and return to the Camcorder.
 -  **Save:** Save the new video to **Videos**.

Camcorder Settings

Tip: In Camcorder mode, tap the screen to show or hide Camcorder Settings.



Back: Return to Standby mode.



Mode: Switch between Camera and Camcorder.



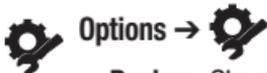
Recording Mode:

- **Limit for Send:** Record a video up to 15 seconds in length for sending in a Video Message.
- **For Save:** Record a video for saving.



Options → 

- **White Balance:** Choose the light source, from **Auto**, **Sunny**, **Cloudy**, **Tungsten**, or **Fluorescent**.
- **Effects:** Choose an effect to apply, from **Normal**, **Black & White**, **Sepia**, **Aqua**, or **Negative**.
- **Quality:** Set the quality, **Super Fine**, **Fine**, or **Normal**.



Options →

- **Review:** Choose **On** to review each video as you record it, or **Off** to save and continue shooting.
- **Start Sound:** Choose **Start Beep** to play a sound when you start recording, or **Off** for no sound.
- **End Sound:** Choose **Stop Beep** to play a sound when you stop recording, or **Off** for no sound.
- **Audio Recording:** Choose **On** to record sound with your video, or **Off** for no sound.
- **Memory:** Choose the default storage location, **Phone** or optional **Card** (if installed).



Timer: Set a timer for a delay between pressing the Camera Key and recording. Choose from **Off**, **3 seconds**, **5 seconds**, or **10 seconds**.

176
144

Resolution: Default resolution is 176x144. This setting cannot be changed.



Brightness: Adjust the brightness of the video. Slide your finger along the scale to select a setting.



Quick View: Scroll through saved videos, and choose options for a selected video.

- **Back:** Return to the previous screen or option.
- **Slide Show:** View saved videos as a slide show.
- **Send via:** Send the video in a Video Message.
- **Erase:** Delete the selected video.
- **Info:** View details about the video.

Videos

Use **Videos** to view and manage videos saved to your phone, or to an optional installed memory card.

1. In a Home screen, tap **Menu** → **Multimedia** → **Videos**.

Thumbnail images from the latest videos that you've saved appear in the display.

2. While browsing videos, tap  for these **Options**:

- **Erase**: Delete selected, unlocked video(s) from the Videos folder.
- **Record Video**: Launch the Camcorder to record a new video.
- **Lock/Unlock**: Prevents/allows deletion.
- **Move**: Move selected video(s) between the Phone and Card memory (if an optional memory card is installed).
- **Copy**: Save a copy of selected video(s) to the Memory Card (if an optional memory card is installed).
- **View by Location**: View videos stored in Phone memory, on an optional installed memory Card, or All stored pictures.

3. To view a video, tap its thumbnail image. The Video Player screen appears and the video begins playing.

4. While viewing a video, the following controls are available:

- Tap  to pause playback.
- Tap  to play.
- Tap  to skip to the previous video in Videos. Touch and hold  to scan backward in the video.
- Tap  to skip to the next video in Videos. Touch and hold  to scan backward in the video.

- To return to the Videos folder and choose another video file to play, press .
5. While viewing a video, tap  for these **Options**:
 - **Send Video Message**: Send the video in a Video Message.
 - **Rename**: Rename the highlighted video.
 - **File Info**: View video details.
 6. Select the desired option to perform its function or to enter its sub-menu.

Section 7: Multimedia and Web

This section outlines your phone's multimedia and web functions.

Multimedia

- ▶ From Standby mode, tap **Menu** → **Menu 1** → **Multimedia**.

Camera

Use your phone's built-in digital Camera to take full color digital pictures and share them with family and friends. For more information, see *"Using the Camera"* on page 51.

- ▶ From Standby mode, tap **Menu** → **Menu 1** → **Multimedia** → **Camera**.

Camcorder

Use your phone's built-in digital Camcorder to take full color digital videos and share them with family and friends. For more information, see *"Using the Camcorder"* on page 57.

- ▶ From Standby mode, tap **Menu** → **Menu 1** → **Multimedia** → **Camcorder**.

Pictures

Use **Pictures** to view, edit and manage pictures stored on your phone or on an optional installed memory card. For more information, see *"Pictures"* on page 55.

- ▶ From Standby mode, tap **Menu** → **Menu 1** → **Multimedia** → **Pictures**.

Videos

Use **Videos** to view and manage videos saved to your phone, or to an optional installed memory card. For more information, see “*Videos*” on page 61.

- ▶ From Standby mode, tap **Menu** → **Menu 1** → **Multimedia** → **Videos**.

Music Player

Music Player lets you play MP3s and unprotected AAC, AAC+ and WMA music files, loaded on an optional microSD™ memory card using a personal computer.

Note: You must have installed an optional memory card containing music files, to use Music Player.

1. From Standby mode, press the **Music Player** key . **Music Player** searches the installed memory card for music files, then displays Music Player with the first music file found.

Tip: You can also launch the Music Player from a Home screen by tapping **Menu** → **Menu 1** → **Multimedia** → **Music Player**.

2. To access music files, tap  → **Go to Library**. The **Library** menu displays with these options:
 - **Now Playing List:** Music files on the Memory Card that are playing or are queued to play.

- **All Songs:** All music files on the Memory Card. Choose music files to play now, or create a playlist.
 - **Playlists:** View, create and manage playlists.
 - **Artists:** Music files sorted by Artist. Choose music files to play now, or create a playlist.
 - **Albums:** Music files sorted by Album title. Choose music files to play now, or create a playlist.
3. To play a music file, tap it.
4. Tap  for these **Options:**
- **Go to Library:** Access music files lists that show the songs Now Playing, All Songs on your Memory Card, or all songs in Playlists or arranged according to Artists or Albums.
 - **Play Mode:** The following play modes are available:
 - **Normal:** Play song(s) in the order they appear in a music file list.
 - **Shuffle:** Play music files at random.
 - **Repeat One:** Repeatedly play one music file.
 - **Repeat All:** Repeatedly play all music files.
 - **Shuffle Repeat All:** Repeatedly play all music files at random.
 - **Add To Playlist:** Add the current file to a Playlist.
 - **Song Info:** Lists the Title, Artist, Album, File Name, File Size, Duration, Bit Rate, Downloaded and Copyright information, and Expired Songs of the highlighted music file.
 - **Memory Info:** Lists the Available card memory, the card memory already Used to store files, and the Total memory on the card.

Music Player Controls

While listening to music, use these controls:

- **Volume key:**

- To play a music file louder, press the **Volume key**  Up.
- To play a music file softer, press the **Volume key**  Down.

- **Music Navigation buttons:**

- To adjust playback volume, tap .
- To skip to the previous music file in the list, tap .
- To scan forward through the current music file, touch and hold .
- To pause playback, tap .
- To resume playback, tap .
- To skip to the next music file in the selected list, tap .
- To scan backward through the current music file, touch and hold .
- To close Music Player and return to Standby mode, tap .

Loading Music Files

1. Before loading music files on a Memory Card, do the following:
 - With your phone powered off, insert the Memory Card into your phone. For more information, see *“Installing a Memory Card”* on page 11.
 - Power your phone On.
2. Connect your phone to a personal computer with an optional USB data cable.
3. Open the Memory Card drive and the “Media/Music” folder.
4. Drag or download music files (MP3 and unprotected AAC, AAC+ and WMA) into the “Media/Music” folder.

Ringtones

Use **Ringtones** to assign ringtones (preloaded and downloaded) for calls, alerts, and as distinctive ringers for Contacts.

1. From Standby mode, tap **Menu** → **Menu 1** → **Multimedia** → **Ringtones**.
2. To play a ringtone, tap .
3. Tap a ringtone for these options:
 - **Send**: Send the file in a Picture Message .
 - **Set As**: Set the file as a Ringtone, Contact ID ringtone, or an Alert Tone.
 - **Rename**: Change the filename of the selected ringtone (only for ringtones you have created).
 - **File Info**: View file details.

Tip: When you add or edit a Contact, you can access **Ringtones** to set a Ringtone ID for the contact, right from **Contacts**.

Record New

Record new tones to assign as ringtones for calls, Contact ID ringtones, and other alert tones.

1. From Standby mode, tap **Menu** → **Menu 1** → **Multimedia** → **Ringtones**.
2. Tap **Record New**, then tap **Rec** to record a voice memo.
 - To pause the recording, tap **Pause**.
 - To stop and save the recording, tap **Stop**.

Erasing Ringtone Files

1. From Standby mode, tap **Menu** → **Menu 1** → **Multimedia** → **Ringtones**.
2. In the **Ringtones** screen, tap .

Note: You can only erase ringtones you've recorded or transferred to your phone.

3. Tap ringtone(s) to mark them for erasure, or tap **Mark All** to mark all ringtones. Check marks appear to the right of marked ringtones.
4. Tap **Done**, then tap **Yes** to confirm the erasure.

Browser

Use your phone's **Browser** to conveniently surf the web and download ringtones and wallpapers.

Each time you launch Browser, your phone connects to the Internet and the Data service icon  appears in the display.

- ▶ From Standby mode, tap **Menu** → **Menu 1** → **Browser**.

Brew

Use **Brew** to browse and download content for your phone.

Each time you launch Brew, your phone connects to the Internet and the Data service icon  appears in the display.

- ▶ From Standby mode, tap **Menu** → **Menu 1** → **Brew**.

Section 8: Tools

This section explains how to use your phone's Tools to schedule events, set reminders, perform calculations, and more.

- ▶ From Standby mode, press **Menu → Menu 1 → Tools**.

Voice Service

Voice Service is advanced speech recognition software that recognizes your spoken commands to dial phone numbers, create messages, and launch phone features such as Contacts, Calendar and My Music.

To use Voice Commands, speak naturally into your phone, at a distance of 3-12 inches. There is no need to “train” Voice Commands, it is designed to recognize natural speech.

Tip: Tap **Info** at any time to display helpful information for using Voice Commands.

Using Voice Commands

1. From Standby mode, press **Menu → Menu 1 → Tools → Voice Service → Voice Commands**.

– or –

From Standby mode, tap **Menu → Menu 1 → Voice Commands**.

Tip: You can set your phone to start **Voice Service** when you open the phone. For more information, refer to “*Voice Commands Settings*” on page 71.

2. At the audio prompt “**Say a Command**”, clearly speak a command:
 - **Call:** Place calls by saying a command:
 - “**Contact Name**” to call a contact stored in your contact list.
 - “**Telephone Number**” to call a telephone number, even if it is not stored in your Contacts list.
 - “**Voicemail**” to dial Voicemail to check voicemail messages.
 - “**Last number**” to call the last number you dialed.
 - **Send:** Say “**Text**”, “**Picture**”, or “**Video**” to create a new Text, Picture or Video message.
 - **Go to:** Launch shortcuts by saying the name of the shortcut.
 - **Check:** Check phone status items, including network coverage, signal strength, battery, voicemail, messages, missed calls, time, volume level, and phone number.
 - **Contacts:** Look up contact information by saying the name.
 - **Redial:** Redial the last number dialed.
 - **Help:** View information about Voice Commands.
3. At each step, Voice Commands displays a list of available commands. If Voice Commands does not recognize your command, it will prompt you to confirm.

Voice Commands Settings

Configure the Voice Commands feature.

1. From Standby mode, tap **Menu** → **Menu 1** → **Voice Commands**
2. Tap **Settings** to configure these settings:
 - **Confirm Choices:** Choose whether the phone prompts you with a list of potential matches to your voice command. Select **Automatic**, **Always Confirm**, or **Never Confirm**.
 - **Sensitivity:** Select a setting:
 - **More Sensitive:** If the phone does not recognize names, numbers, or commands.
 - **Automatic:** The default setting.
 - **Less Sensitive:** If the phone frequently recognizes a command, even if you said nothing.
 - **Adapt Voice:** Tap Adapt Voice, then follow the prompts to speak commands to train Voice Commands to recognize your voice.

Note: When you adapt Voice Commands to your voice, it may no longer recognize other people's voice commands. To reset adaptation to the default settings, choose **Adapt Voice** → **Reset Voice**.

- **Key Setting:** Select the method for launching Voice Commands:
 - **None:** Use the phone menu or define a Shortcut to launch Voice Commands.
 - **None / Headset:** When you attach a headset to your phone, you can make and end calls using Voice Commands by pushing the action button on the headset, then press  to stop Voice Commands.
- **About:** View information about the Voice Commands software.

Bluetooth

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

- ▶ In Standby mode, tap **Menu → Menu 1 → Tools → Bluetooth**.

Tip: You can also access Bluetooth from Standby mode by tapping **Menu → Menu 2 → Bluetooth**.

Turning Bluetooth On/Off

Turn Bluetooth On to exchange information with a Bluetooth device.

Turning Bluetooth On

- ▶ From Standby mode, tap **Menu → Menu 1 → Tools → Bluetooth → Turn On**. The Bluetooth enabled icon  displays.

Turning Bluetooth Off

- ▶ From Standby mode, tap **Menu → Menu 1 → Tools → Bluetooth → Turn Off**. The Bluetooth icon disappears from the display.

Adding a New Device

Add a new device to your phone's paired device list.

1. From Standby mode, tap **Menu → Menu 1 → Tools → Bluetooth**. If Bluetooth is off, at the prompt “**Turn Bluetooth on?**”, tap **Yes**.

2. At the prompt, “**Place device you are connecting to in discoverable mode**”, place the target device in discoverable mode. (See the target device’s user manual for more information.)
3. Tap **OK**. Your phone searches for discoverable devices and list available devices appears in the display.
4. Tap the device you want to pair with your phone. Your phone attempts to Autopair with the selected device.
5. Check your phone’s display, and the target device, to confirm that the same passkey is displayed on both. If the passkey matches, tap **Yes** on your phone and accept the prompt on the target device.

Note: When pairing your phone with a Bluetooth device other than a headset or headphones, the same passkey or PIN must be entered on both devices for the pairing to succeed.

6. At the prompt “**Before connecting to <target device>**”, set the incoming security for this device:
 - Tap **Always Ask** to have your phone prompt for confirmation before accepting pairing requests from this device.
 - Tap **Always Connect** to allow automatic pairings from this device.

Supported Profiles

Bluetooth profiles are specifications for services supported by individual devices. Your phone supports these profiles:

- **Headset:** HSP profile supports mono Bluetooth headsets.
- **Handsfree:** HFP profile supports Bluetooth headsets, and may also support other compatible Bluetooth devices with speakerphone capabilities .
- **Dial Up Networking:** DUN profile allows the phone to be used as a data modem with a compatible Bluetooth device, such as a laptop or PDA.
- **Stereo:** A2DP, AVRCP, GAVDP, AVDTP and AVCTP profiles support delivery of stereo audio to a compatible Bluetooth device.
- **Phonebook Access:** PBAP profile allows sharing of your name card and phonebook entries (as vCards) with a compatible Bluetooth device.
- **Object Push:** OPP profile allows sending and receiving of contact name cards (vCard) and calendar events (vCalendar) between devices.
- **File Transfer:** FTP profile allows the capability to send or receive non-protected data files to a compatible Bluetooth device.
- **Serial Port:** SPP profile allows the phone to act as a virtual serial port.

Note: You can find a list of supported Bluetooth profiles on your phone.
Tap **Menu** → **Tools** → **Bluetooth** →  → **Supported Profiles**.

Bluetooth Options

1. From Standby mode, tap **Menu** → **Menu 1** → **Tools** → **Bluetooth**.
2. Tap **Options**  to set these options:
 - **My Phone Name:** View or edit the your phone's visible name. To edit, open the QWERTY keypad, enter a new name, and tap **Done**.
 - **My Phone Info:** View your phone's device Type, Status, and Address.
 - **Discovery Mode:** Set to **On** to allow other devices to search your phone. When set to **Off**, your phone is not visible to other devices.
 - **Auto Pairing:** Set to **On** to allow your to attempt to automatically pair with a device. Set to **Off** to have the phone prompt you to enter a device's PIN to pair.
 - **Supported Profiles:** Lists Bluetooth profiles supported by your phone.

Calendar

Use **Calendar** to view a calendar, and create events.

1. From Standby mode, tap **Menu → Menu 1 → Tools → Calendar**.

Tip: You can also access Calendar from Standby mode by tapping **Menu → Menu 2 → Calendar**.

2. While viewing Calendar, use these navigation controls:
 - To move to another month, swipe the screen left or right.
 - To view a list of events for a particular date, tap the date.
 - To view an event from an event list, tap the preferred event.
3. Tap  for these **Options**:
 - **Weekly View / Monthly View:** Change the calendar format.
 - **Go to Date:** Jump to any date you specify.
 - **Erase All Old:** Delete past events.
 - **Erase All:** Delete all events.
 - **Search:** Find events on your Calendar.

Adding a New Event

1. From Standby mode, tap **Menu → Menu 1 → Tools → Calendar**.
2. Tap a date, then tap the date again and choose **Add New Event**.
3. Open the QWERTY keypad, tap an event field and enter or select details of the event. For more information about entering text, see “*Entering Text*” on page 25.
4. When you’re finished entering event details, tap **Save** to store the event in your calendar.

Memo Pad

Create and store notes with Memo Pad.

1. From Standby mode, tap **Menu** → **Menu 1** → **Tools** → **Memo Pad**.

Tip: You can also access Memo Pad from Standby mode by tapping **Menu** → **Menu 2** → **Memo Pad**.

2. While viewing the list of memos, use these controls:
 - To view a memo, tap it.
 - To view a memo, tap the memo.
 - To erase a memo, tap the memo, then tap **Erase**.
3. Tap  for these **Options**:
 - **Erase Memos:** Mark memos for deletion.
 - **Lock/Unlock:** Lock memos to protect them from erasure, or unlock.

Adding a Memo

1. From Standby mode, tap **Menu** → **Menu 1** → **Tools** → **Memo Pad**.
2. Tap **Add New Memo**. Open the QWERTY keypad and enter memo text. For more information, see “*Entering Text*” on page 25.
3. When you’re finished entering the memo, tap **Save**.

Alarm Clock

Use Alarm Clock to set up to three alarms.

1. From Standby mode, tap **Menu** → **Menu 1** → **Tools** → **Alarm Clock**. The **Alarm** screen appears in the display.

Tip: You can also access Alarm Clock from Standby mode by tapping **Menu** → **Menu 2** → **Alarm Clock**.

2. While viewing the Alarm list:
 - Tap **Add New Alarm** to add a new alarm.
 - To deactivate an alarm, tap the **On** button to the right of the alarm. It changes to **Off**.
 - To change the settings for an alarm, tap the alarm.
 - To erase alarm(s), tap , tap the alarm(s), then tap **Erase**.

Stop Watch

Use **Stop Watch** to measure the lap times, as well as total times.

1. From Standby mode, tap **Menu** → **Menu 1** → **Tools** → **Stop Watch**.
2. The following options are available:
 - To begin or resume the stop watch count, tap **Start**.
 - To record a lap completion time, tap **Lap**.
 - To end or pause the stop watch count, tap **Stop**.
 - To erase the stop watch all and lap times recorded, tap **Reset**.

World Time

World Time lets you view the time in time zones around the world.

1. From Standby mode, tap **Menu** → **Menu 1** → **Tools** → **World Time**.
2. To add a clock to the **World Time** screen, tap  to choose **United States** or **Other Countries**.
3. Find a city:
 - Search for a city by opening the QWERTY keypad, tapping the search field, and entering the first few letters of the city's name.
 - Browse the list by swiping up/down.
4. To add the desired city, tap the city's name.
5. To set World Time options, tap the desired clock. The following options are available:
 - **DST**: Turns Daylight Saving Time display on or off for this clock.
 - **Erase**: Remove this clock from the **World Time** screen.
 - **2nd clock set**: Designate this clock as 2nd clock.

Sketch Pad

Sketch Pad lets you use your phone to draw images and text.

1. From Standby mode, tap **Menu** → **Menu 1** → **Tools** → **Sketch Pad**.
2. The following options are available:
 - To draw on the Sketch Pad, drag your fingertip across the display.
 - To change the Sketch Pad background, tap **Style**.
 - To change the drawing line thickness, tap **Thickness**.
 - To change the drawing color, tap **Color**.
 - To include attach the sketch to a Picture message, tap **Send**.
 - To store a sketch in **Pictures**, tap **Save**.
 - To erase a drawing, tap **Erase** → **Clear All**.
 - To resume drawing, tap **Draw**.
 - To remove a line you just drew, tap **Undo**.

Timer

Timer lets you use your phone as a countdown timer. At the end of the count, an alert tone sounds.

1. From Standby mode, tap **Menu** → **Menu 1** → **Tools** → **Timer**.
2. Set the countdown timer by tapping the up/down arrows for **Hour** (00–23), **Minute** (00–59), and/or **Second** (00–59).
3. Start the timer by tapping **Start**, then use these controls:
 - To pause or end the count, tap **Stop**.
 - To resume the count, tap **Restart**.
 - To erase the current count, tap **Reset**.

Calculator

Use **Calculator** to perform mathematical calculations.

1. From Standby mode, tap **Menu** → **Menu 1** → **Tools** → **Calculator**.
2. Using the touch screen keypad, tap the first number in your equation.
 - To toggle a number's sign, tap **+/-**.
 - To “nest” calculations within a calculation, tap **()** before and after parts of the calculation you want to perform first.
3. Set the type of calculation by tapping the appropriate calculation operator (Division “/”, Multiplication “**X**”, Subtraction “-”, Addition “**+**”).
4. Tap the next number in your equation using the touch screen keypad.
5. To perform the calculation and view the result, tap **=**.
6. To perform another calculation, tap **C** to clear the calculation.

Tip Calculator

Use **Tip Calculator** to calculate a tip, and how much each person should pay.

1. From Standby mode, tap **Menu** → **Menu 1** → **Tools** → **Tip Calculator**. The Bill entry keypad screen appears in the display.
2. Using the touch screen keypad, enter the total amount of the bill.

3. Tap **Done** to calculate the **Tip**, **Split**, and **Each** fields with the defaults.
4. To change the **Bill**, **Tip**, or **Split** field entry, tap the desired field to enter a new value, then tap **Done**.
5. The amount of the Tip, the bill Total, and the amount Each person should pay appear in the screen.

Converter

Use Converter to convert values you enter into selected units.

1. From Standby mode, tap **Menu** → **Menu 1** → **Tools** → **Converter**.
2. Choose a conversion:
 - **Temperature**
 - **Length**
 - **Weight**
 - **Area**
 - **Volume**
 - **Currency**
3. Enter a value for conversion.
4. Specify the units by tapping the down arrow button to the right of the quantity field. Available units pop-up in the display.
5. Tap the desired units to display a list of converted quantities.

Tip: For Currency conversions, you can specify the conversion rate. After tapping conversion, just tap **Rate** to enter rate(s).

Device Search

Use Device Search to find information on your phone. After searching, tap a search result to go directly to the content.

Note: Device Search can only find items stored in your phone's memory.

1. From Standby mode, tap **Menu** → **Menu 1** → **Tools** → **Device Search**.
2. Open the phone to use the QWERTY keypad to enter search criteria.
3. Tap Options  to narrow your search:
 - **All**
 - **Contacts**
 - **Recent Calls**
 - **Calendar**
 - **Message**
 - **Picture**
 - **Video**
 - **Menu**
4. Tap **Search**. To go to an item found in the search, tap the item.

Section 9: Changing Your Settings

This section explains how to customize your phone.

- ▶ From Standby mode, tap **Menu** → **Menu 1** → **Settings**.

Location

Choose whether your phone's GPS (Global Positioning System) location is available to the network at all times, or only when you've dialed an Emergency Number, such as 911.

Note: Location service is required by some of your phone's features. Contact your Wireless Provider to determine availability of location-based service.

- ▶ From Standby mode, tap **Menu** → **Menu 1** → **Settings** → **Location**. The following options appear in the display:
 - **Location on:** GPS location setting is on whenever you make or receive a call, wherever the feature is available.
 - **E911 Only:** GPS location setting is on only when you dial 911.

Widgets

Select Widgets to display in the Widget Tray. For information on using Widgets, see “*Widgets*” on page 23.

1. In Standby mode, tap **Menu** → **Menu 1** → **Settings** → **Widgets**.
2. Tap widgets to mark them for display, or unmark to remove from the Widget Tray.
 - To remove all Widgets from the Widget bar, tap **Unmark all**.
 - To add all Widgets to the Widget bar, tap **Mark all**.

3. Choose from these widgets:



Browser: Launches the **Browser**.



Send Message: Launches the Send Message sub-menu.



Top 5 Contacts: Quickly call or send a message to any of five Contacts you assign.



Pictures: Opens **Pictures**.



Clock: Shows the current date and time.



Calendar: Launches the **Calendar** tool.



Date: Shows the current day and date.



Bluetooth: Launches **Bluetooth**.



Tutorial: Launches the **Tutorial**.



Google Search: Launches Google Search.



MySpace: Launches MySpace.



Facebook: Launches Facebook.



Twitter: Launches Twitter.

Sounds Settings

Use Sounds Settings to customize your phone's audio properties.

Master Volume

Use the Volume sub-menu to set the default volume for incoming calls and alarms, or set the phone to vibrate.

1. From Standby mode, tap **Menu → Menu 1 → Settings → Sounds Settings → Master Volume**.
2. Tap a setting on the Master Volume menu. Choose from **All Sounds Off, Alarm Only, Vibrate Only, 1 Low, 2 Medium Low, 3 Medium, 4 Medium High** or **5 High**.

Tip: Tap **Play** to hear an example of the **Master Volume** setting.

3. Tap **Set** to save the setting.

Call Sounds

Choose sounds and vibrations for call notifications.

1. From Standby mode, tap **Menu → Menu 1 → Settings → Sounds Settings → Call Sounds**.
2. Tap a setting to make selections:
 - **Call Ringtone:** Select a ringtone or sound file to play for new calls.
 - **Call Vibrate:** Select **On** to have your phone vibrate for new calls.
 - **Caller ID Readout:** Select **Ring Only** to have the phone ring for incoming calls, or **Caller ID + Ring** to show Caller ID while ringing, or **Name Repeat** to repeat the calling Contact's Name.

Alert Sounds

- ▶ From Standby mode, tap **Menu → Menu 1 → Settings → Sounds Settings → Alert Sounds**:
 - **Text Message**: Select alerts for new text messages.
 - **Tone**: Select a ringtone or sound file to play.
 - **Vibrate**: Choose **On** to have your phone vibrate for a new message.
 - **Reminder**: Choose a time period to have your phone repeat the alert, from **Once, Every 2 Minutes, Every 15 minutes**, or **Off** for no reminders.
 - **Multimedia Message**: Select alerts for new Picture or Video messages.
 - **Tone**: Select a ringtone or sound file to play for new messages.
 - **Vibrate**: Choose **On** to have your phone vibrate for a new message.
 - **Reminder**: Choose a time period to have your phone repeat the alert, from **Once, Every 2 Minutes, Every 15 minutes**, or **Off** for no reminders.
 - **Voicemail**: Select alerts for new voicemails.
 - **Tone**: Select a ringtone or sound file to play.
 - **Vibrate**: Choose **On** to have your phone vibrate for a new message.
 - **Reminder**: Choose a time period to have your phone repeat the alert, from **Once, Every 2 Minutes, Every 15 minutes**, or **Off** for no reminders.
 - **Missed Call**:
 - **Tone**: Select a ringtone or sound file to play.
 - **Vibrate**: Choose **On** to have your phone vibrate for a new alert.
 - **Reminder**: Choose a time period to have your phone repeat the alert, from **Once, Every 2 Minutes, Every 15 minutes**, or **Off** for no reminders.
 - **Device Connect**: Choose **On** to have your phone play a tone when your phone connects with another device.

Keypad Volume

Adjust the volume of the tones for keypad presses.

1. From Standby mode, tap **Menu → Menu 1 → Settings → Sounds Settings → Keypad Volume**.
2. Tap a setting on the **Keypad Volume** menu. Choose from **Sound Off, 1 Low, 2 Medium Low, 3 Medium, 4 Medium High** or **5 High**.
3. Tap **Set** to save the setting.

Service Alerts

Set your phone to sound an alert when you enter or leave your service area, every minute during a call, or when a call connects.

- ▶ From Standby mode, tap **Menu → Menu 1 → Settings → Sounds Settings → Service Alerts**.
 - **Roaming**: Choose **On** for an alert when you leave your service area.
 - **Minute Beep**: Choose **On** to play a beep each minute during calls.
 - **Call Connect**: Choose **On** to play an alert when a call is answered.

Power On/Off

Set a melody to play when you power your phone on or off.

- ▶ From Standby mode, tap **Menu → Menu 1 → Settings → Sounds Settings → Power On/Off**.
 - **Power On**: Choose **On** to play a melody when you turn the phone on, or **Off** for no melody.
 - **Power Off**: Choose **On** to play a melody when you turn the phone off, or **Off** for no melody.

Display Settings

Use Display Settings to customize your phone's displays.

Banner

Create a personalized text greeting to display while in Standby mode.

1. From Standby mode, tap **Menu → Menu 1 → Settings → Display Settings → Banner**.
2. Open the QWERTY keypad and enter up to 18 characters. For more information, see *“Entering Text”* on page 25.
3. Tap **Save** to save the new banner on the current Home screen.

Backlight

Set the duration and brightness of the display and keypad backlights.

Tip: The Backlight setting also determines how quickly the phone locks.

- ▶ From Standby mode, tap **Menu → Menu 1 → Settings → Display Settings → Backlight**.
 - **Backlight Time:** Set the length of time the display backlight remains on while in Idle mode. Choose **7 Seconds**, **15 Seconds**, **30 Seconds**, **Always On**, or **Always Off**.
 - **Brightness:** Tap on the scale to choose **Level 0** through **Level 5**.

Note: Prolonged backlight use drains your battery faster.

Wallpaper

Choose background pictures for the Home screens and Lock screen.

1. From Standby mode, tap **Menu → Menu 1 → Settings → Display Settings → Wallpaper**.
2. From **Pictures**, browse the thumbnail images by sliding your finger up or down on the touch screen
3. Tap a picture, then tap **Set**.
4. Tap **Lock screen, Home screen 1, Home screen 2, or Home screen 3** to set the selected picture as the wallpaper.

Fonts

Set the appearance of on-screen fonts in the Dialer and Lock screen.

- ▶ From Standby mode, tap **Menu → Menu 1 → Settings → Display Settings → Fonts**.
 - **Dial Font Size:** Choose **Normal** or **Large** font size.
 - **Lock Screen Font Color:** Tap a color to select one of 16 colors.

Unlock Screen

Select which key(s) can wake your phone's display when locked.

1. From Standby mode, tap **Menu → Menu 1 → Settings → Display Settings → Unlock Screen**.
 - **Lock Key Only:** Wake the screen by pressing the Lock key.
 - **Any Key:** Wake the screen by pressing any key.

Transition Effect

Select how one screen replaces another in the phone's display.

- ▶ From Standby mode, tap **Menu** → **Menu 1** → **Settings** → **Display Settings** → **Transition Effect**.
 - **On**: One screen replaces another by sliding from the left or right.
 - **Off**: One screen overwrites another.

Touch Settings

Enable or disable automatic locking of your phone, vibration feedback when you touch an active area on the display, and more.

- ▶ From Standby mode, tap **Menu** → **Menu 1** → **Settings** → **Touch Settings**.
 - **Auto Lock**: Choose **On** to have the phone lock automatically when the backlight goes out, or **Off** to never lock automatically.
 - **Vibrate**: Choose **On** to enable vibration feedback for screen touches, or **Off** for no vibration.
 - **Sound**: Choose a tone for sound feedback for screen touches, from **Beep**, **Glossy**, or **Click**.
 - **Volume Level**: Choose a volume level, from **Sound Off**, **Low**, **Medium Low**, **Medium High**, or **High**, then tap **Set**.
 - **Calibration**: Follow the on-screen instructions to adjust the screen to your touches.

Phone Settings

Configure Phone Settings to for your phone's behavior.

Airplane Mode

When Airplane Mode is set to **On**, all wireless functions of your phone are disabled, and you cannot send or receive calls or messages.

While in Airplane Mode is enabled, you can use other features of your phone, such as Calendar, Games, or Music Player.

- ▶ From Standby mode, tap **Menu → Menu 1 → Settings → Phone Settings → Airplane Mode**.
 - **On**: Disables the wireless functions of your phone.
 - **Off**: Enables the wireless features of your phone.

Language

Choose a language for your phone's operation.

- ▶ From Standby mode, tap **Menu → Menu 1 → Settings → Phone Settings → Language**.
 - **English**
 - **Español**

QWERTY Action

Choose how the phone reacts when you slide it open in Standby mode and begin entering characters on the QWERTY keyboard.

- ▶ From Standby mode, tap **Menu → Menu 1 → Settings → Phone Settings → QWERTY Action**.
 - **Off**: No action is taken.
 - **Text Message**: Creates a new Text Message.
 - **Contacts**: Opens the Contacts List to find a contact.
 - **Memo Pad**: Launches Memo Pad to create a new note.

Word Completion

Word Completion is a predictive text entry aid. When set to **On**, a list of words pops up as you enter characters. To complete a word, you can select it from the list.

- ▶ From Standby mode, tap **Menu → Menu 1 → Settings → Phone Settings → Word Completion**.
 - **On**: Enables predictive text entry.
 - **Off**: Disables predictive text entry.

Security

Lock your phone, set restrictions, and other security options.

Note: Access to all Security settings requires the lock code. The default lock code is the last four digits of your phone number.

Edit Code

Set a new lock code for your phone.

Caution! For security reasons, your phone does not display the lock code. If you change the lock code, be sure to record the new code.

1. From Standby mode, tap **Menu → Menu 1 → Settings → Phone Settings → Security**.
2. At the **Enter Code** prompt, enter the lock code. By default, the lock code is the last four digits of your phone number.
3. Tap **Edit Code**, then follow the prompts to change the lock code.

Restrictions

Set restrictions for calls, messages and data connections.

1. From Standby mode, tap **Menu** → **Menu 1** → **Settings** → **Phone Settings** → **Security**.
2. At the **Enter Code** prompt, enter the lock code. By default, the lock code is the last four digits of your phone number.
3. Tap **Restrictions**, then set the following options:
 - **Calls:**
 - **Incoming:** Choose **Allow All** to accept all incoming calls, **Allow Contacts** to accept calls only from Contacts, or **Allow None** to block all incoming calls.
 - **Outgoing:** Choose **Allow All** to permit all outgoing calls, **Allow Contacts** to permit calls only to Contacts, or **Allow None** to block all outgoing calls.
 - **SMS Messages:**
 - **Incoming:** Choose **Allow All** to accept all incoming text messages, or **Allow None** to block all incoming text messages.
 - **Outgoing:** Choose **Allow All** to permit all outgoing text messages, or **Allow None** to block all outgoing text messages.
 - **MMS Messages:**
 - **Incoming:** Choose **Allow All** to accept all incoming picture or video messages, or **Allow None** to block all incoming picture and video messages.
 - **Outgoing:** Choose **Allow All** to permit all outgoing picture or video messages, or **Allow None** to block all outgoing picture or video messages.
 - **Data:** Choose **Allow All** to permit data connections, or **Allow None** to block all data connections.

Emergency

Store up to three Emergency Numbers, which can be called at any time, even when your phone is locked or restricted.

1. From Standby mode, tap **Menu → Menu 1 → Settings → Phone Settings → Security**.
2. At the **Enter Code** prompt, enter the lock code. By default, the lock code is the last four digits of your phone number.
3. Tap **Emergency #**, then tap an emergency number to modify it.
4. Enter an emergency number (up to 32 digits), then tap **Save**.

Phone Lock Setting

Set the locking behavior of your phone. When the phone is locked, you must enter the lock code to use it, except when dialing Emergency Numbers.

1. From Standby mode, tap **Menu → Menu 1 → Settings → Phone Settings → Security**.
2. At the **Enter Code** prompt, enter the lock code. By default, the lock code is the last four digits of your phone number.
3. Tap **Phone Lock Setting** for these options:
 - **Unlocked:** The phone is always unlocked.
 - **On Power Up:** The phone locks automatically when you power it on. You can call Emergency Numbers, but must enter the lock code to access other features.

Lock Phone Now

Manually lock your phone, to prevent access until you unlock it with the lock code. This is a one-time lock, your phone returns to the Phone Lock Setting after you unlock it.

1. From Standby mode, tap **Menu → Menu 1 → Settings → Phone Settings → Phone Settings → Security**.
2. At the **Enter Code** prompt, enter the lock code. By default, the lock code is the last four digits of your phone number.
3. Tap **Lock Phone Now**. “**Phone locked**” pops-up in the display, and the Home screen displays in Phone Lock mode.

Reset Settings

Use Reset Settings to return all settings to their defaults. Resetting does not erase user data, such as your Contacts.

1. From Standby mode, tap **Menu → Menu 1 → Settings → Phone Settings → Security**.
2. At the **Enter Code** prompt, enter the lock code. By default, the lock code is the last four digits of your phone number.
3. Tap **Reset Settings**. At the prompt, tap **Yes** to confirm the reset. To keep your current settings and return to the **Security** sub-menu, tap **No**.

System Select

Select the roaming setting for your phone.

- ▶ From Standby mode, tap **Menu → Menu 1 → Settings → Phone Settings → System Select**.
 - **Home Only:** The phone operates only in your home system area.
 - **Automatic:** The phone uses your Wireless Provider's Preferred Roaming List (PRL) of networks to acquire service. If no preferred networks are found, the phone uses any available digital system.

NAM Select

Set the NAM (Number Assignment Module) settings for your phone. For more information about NAM settings, consult your Wireless Provider.

- ▶ From Standby mode, tap **Menu → Menu 1 → Settings → Phone Settings → NAM Select**.
 - **NAM1**
 - **NAM2**

PC Connection

Make a selection for exchanging files between a PC and your phone.

Tip: For more information on using **PC Connection**, contact your service provider.

- ▶ From Standby mode, tap **Menu → Menu 1 → Settings → Phone Settings → PC Connection**.
 - **USB:** Allow access your phone's memory and any optional microSD Memory Card, if installed, from your PC when you connect your phone to a PC with an optional USB Data Cable.
 - **Bluetooth:** Allow transfer of files, such as Contacts information, from your phone to a PC over a Bluetooth connection. This option requires that you pair your PC and phone. For more information, refer to *“Adding a New Device”* on page 72.
 - **No Connection:** Block your phone from connecting with a PC.

Call Settings

Use Call Settings to select how your phone handles calls.

Answer Options

Select a method for answering incoming calls.

- ▶ From Standby mode, tap **Menu → Menu 1 → Settings → Call Settings → Answer Options**.
 - **Slide Open:** Answer in Speakerphone mode by sliding the phone open.
 - **Any Key:** Answer by pressing any key except the End or Volume keys.
 - **Auto w/ Handsfree:** When using an optional handsfree device, calls are answered automatically after a delay.

Auto Retry

Select settings for automatic redialing of unanswered calls.

1. From Standby mode, tap **Menu** → **Menu 1** → **Settings** → **Call Settings** → **Auto Retry**.
2. Choose a redial interval, from **Every 10 Seconds**, **Every 30 Seconds**, **Every 60 Seconds**, or **Off**.

TTY Mode

Your phone is fully TTY compatible, allowing you to connect a TTY device to the phone's headset jack. Before you can use your phone with a TTY device, you'll need to enable TTY Mode.

1. From Standby mode, tap **Menu** → **Menu 1** → **Settings** → **Call Settings** → **TTY Mode**.
2. At the prompt “**Enabling TTY will disable headset audio. Continue?**”, tap **Yes** to choose from these options:
 - **TTY Full**: Enables TTY mode and disables microphone and earpiece.
 - **TTY + Talk (VCO)**: Enables TTY mode and microphone.
 - **TTY + Hear (HCO)**: Enables TTY mode and earpiece.
 - **TTY Off**: Disables TTY mode.

Note: While in TTY mode, the TTY icon  appears at the top of the display.

One Touch Dial

Use One Touch Dial to control the speed dialing feature. For more information about using speed dialing, see “*Speed Dials*” on page 40.

1. From Standby mode, tap **Menu** → **Menu 1** → **Settings** → **Call Settings** → **One Touch Dial**.
2. Choose **On** to enable One Touch Dial, or **Off** to disable.

Voice Privacy

Enable or disable encryption of voice signals for enhanced privacy.

1. From Standby mode, tap **Menu** → **Menu 1** → **Settings** → **Call Settings** → **Voice Privacy**.
2. Tap **Enhanced** to enable encryption, or **Standard** to disable.

DTMF Tones

Some automated phone systems recognize DTMF tones as input, where you may need to transmit DTMF tones to make selections.

1. From Standby mode, tap **Menu** → **Menu 1** → **Settings** → **Call Settings** → **DTMF Tones**.
2. Choose from **Normal** or **Long**.

Memory Manager

Use Memory Manager to manage memory settings for files saved to your phone’s internal memory and optional installed memory card.

Save Options

Choose the default location for pictures, videos and sounds.

1. From Standby mode, tap **Menu** → **Menu 1** → **Settings** → **Memory Manager** → **Save Options**.
2. Choose settings for these types of files:
 - **Pictures**: Choose **Phone** to save to the phone's memory, or **Card** to save to an optional installed memory card.
 - **Videos**: Choose **Phone** to save to the phone's memory, or **Card** to save to an optional installed memory card.
 - **Sounds**: Choose **Phone** to save to the phone's memory, or **Card** to save to an optional installed memory card.

Phone Memory

View usage statistics for the phone's internal memory.

1. From Standby mode, tap **Menu** → **Menu 1** → **Settings** → **Memory Manager** → **Phone Memory**.
2. Tap a selection to view memory statistics:
 - **Memory Usage**: View totals for **Available**, **Used** and **Total** memory, plus totals for **Pictures**, **Videos**, **Ringtones**, **Applications**, and **Multimedia Messages**.
 - **Pictures**: Pictures saved to the phone's internal memory. To free memory, select **Options**  → **Erase** to mark files for deletion.
 - **Videos**: Video files saved to the phone's internal memory. To free memory, select **Options**  → **Erase** to mark files for deletion.
 - **Ringtones**: Ringtones saved to the phone's internal memory. To free memory, select **Options**  → **Erase** to mark files for deletion.

Card Memory

View usage statistics and manage space on an optional installed memory card.

1. From Standby mode, tap **Menu** → **Menu 1** → **Settings** → **Memory Manager** → **Card Memory**.
2. Tap a selection to view memory statistics:
 - **Memory Usage:** View totals for **Available**, **Used** and **Total** memory, plus totals for **Pictures**, **Videos**, and **Music**.
 - **Pictures:** Pictures saved to the memory card. To free memory, select **Options**  → **Erase** to mark files for deletion.
 - **Videos:** Video files saved to the memory card. To free memory, select **Options**  → **Erase** to mark files for deletion.
 - **Music:** Music files saved to the memory card. To free memory, select **Options**  → **Erase** to mark files for deletion.
 - **Format Card:** Remove all files and prepare the card for use.

Formatting a Memory Card

Formatting a Memory Card erases all files from the card and creates directories compatible with your phone.

Caution! Repeated formatting of a microSD card reduces its service life. To free space on a memory card, use the Erase feature of Memory Manager.

1. From Standby mode, tap **Menu** → **Menu 1** → **Settings** → **Memory Manager** → **Card Memory** → **Format Card**.
2. At the prompt, tap **Yes** to format the card.

Phone Info

View software and hardware information for your phone, your assigned phone number, and a glossary of icons.

- ▶ From Standby mode, tap **Menu** → **Menu 1** → **Settings** → **Phone Info**. The following options appear in the display:
 - **My Number**: View the ten-digit number assigned to your phone.
 - **SW/HW Version**: View the software and hardware versions.
 - **Icon Glossary**: View icons and descriptions.
 - **Open Source License**: View the open source license.

Section 10: 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:** 0.96 W/Kg.
- **Body-worn:** 1.08 W/Kg.

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

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

Please Note the Following Information When Using Your Handset

1. WARNING REGARDING DISPLAY

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

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

If your handset has a touchscreen display, please note that a touchscreen responds best to a light touch from the pad of your finger or a non-metallic stylus. Using excessive force or a metallic object when pressing on the touchscreen may damage the tempered glass surface and void the warranty. For more information, refer to “*Standard Limited Warranty*” on page 140

Samsung Mobile Products and Recycling

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

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

UL Certified Travel Adapter

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

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

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS.

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

FOR CONNECTION TO A SUPPLY NOT IN NORTH AMERICA, USE AN ATTACHMENT PLUG ADAPTOR OF THE PROPER CONFIGURATION FOR THE POWER OUTLET. THIS POWER UNIT IS INTENDED TO BE

CORRECTLY ORIENTATED IN A VERTICAL OR HORIZONTAL OR FLOOR MOUNT POSITION.

Consumer Information on Wireless Phones

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

What kinds of phones are the subject of this update?

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

When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless phones," which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures well within the FCC's compliance limits.

Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radio frequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode.

Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

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

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radio frequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

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

- Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

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

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

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

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit

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

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

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

What are the results of the research done already?

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

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phones RF exposures.

However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

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

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

Epidemiological studies can provide data that is directly applicable to human populations, but ten or more years' follow-up may be needed to provide answers about some health effects, such as cancer.

This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-

to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

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

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radio frequency energy (RF).

FDA has been a leading participant in the World Health Organization international Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues.

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

CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a

broad assessment of additional research needs in the context of the latest research developments around the world.

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

If there is a risk from these products - and at this point we do not know that there is - it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radio frequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

- If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna.

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radio frequency energy (RF), the measures

described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.

Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000.

They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

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

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that hands-free kits reduce risks. Hands-free kits can be used with wireless phones for convenience and comfort. These systems reduce the absorption of RF energy in the head because the phone, which is the source of the RF emissions, will not be placed against the head. On the other hand, if the phone is mounted against the waist or other part of the body during use, then that part of the body will absorb more RF energy. Wireless phones marketed in the U.S. are required to meet safety requirements regardless of whether they are used against the head

or against the body. Either configuration should result in compliance with the safety limit.

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

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

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

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

What about wireless phone interference with medical equipment?

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

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

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

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

- FCC RF Safety Program:
<http://www.fcc.gov/oet/rfsafety/>

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

Road Safety

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

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.

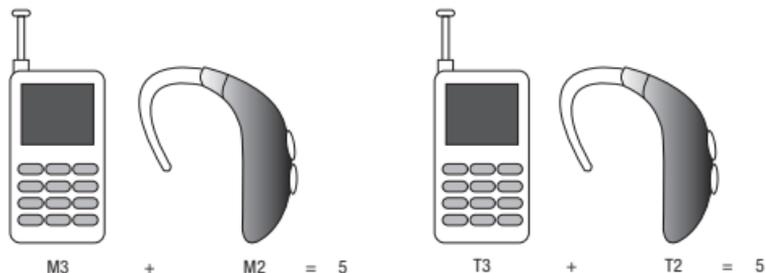
The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not be able to use a rated phone successfully. Trying out the phone with your hearing device is the best way to evaluate 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 *“Turning Bluetooth On/Off”* on page 72
- 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 11: 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, abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, neglect, unusual physical, electrical or electromechanical stress, or defects in appearance, cosmetic, decorative or structural items, including framing, and any non-operative parts unless caused by SAMSUNG; (b) defects or damage resulting

from excessive force or use of a metallic object when pressing on a touch screen; (c) equipment that has the serial number or the enhancement data code removed, defaced, damaged, altered or made illegible; (d) any plastic surfaces or other externally exposed parts that are scratched or damaged due to normal use; (e) malfunctions resulting from the use of Product in conjunction or connection with accessories, products, or ancillary/peripheral equipment not furnished or approved by SAMSUNG; (f) defects or damage from improper testing, operation, maintenance, installation, service, or adjustment not furnished or approved by SAMSUNG; (g) defects or damage from external causes such as collision with an object, or from fire, flooding, sand, dirt, windstorm, lightning, earthquake, or from exposure to weather conditions, or battery leakage, theft, blown fuse, or improper use of any electrical source; (h) defects or damage caused by cellular signal reception or transmission, or viruses or other software problems introduced into the Product; (j) any other acts which are not the fault of SAMSUNG; or (i) Product used or purchased outside the United States. 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 original 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 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:

- THE MERCHANTABILITY OF THE PRODUCT OR ITS FITNESS FOR ANY PARTICULAR PURPOSE OR USE;
- WARRANTIES OF TITLE OR NON-INFRINGEMENT;
- 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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BY ANY OTHER PARTY. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE. THIS LIMITED WARRANTY SHALL NOT EXTEND TO ANYONE OTHER THAN THE ORIGINAL PURCHASER OF THIS PRODUCT AND STATES PURCHASER'S EXCLUSIVE REMEDY. IF ANY PORTION OF THIS LIMITED WARRANTY IS HELD ILLEGAL OR UNENFORCEABLE BY REASON OF ANY LAW, SUCH PARTIAL ILLEGALITY OR UNENFORCEABILITY SHALL NOT AFFECT THE ENFORCEABILITY FOR THE REMAINDER OF THIS LIMITED WARRANTY WHICH PURCHASER ACKNOWLEDGES IS AND WILL ALWAYS BE CONSTRUED TO BE LIMITED BY ITS TERMS OR AS LIMITED AS THE LAW PERMITS.

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This Limited Warranty allocates risk of Product failure between Purchaser and SAMSUNG, and SAMSUNG's Product pricing reflects this allocation of risk and the limitations of liability contained in this Limited Warranty. The agents, employees, distributors, and dealers of SAMSUNG are not authorized to make modifications to this Limited Warranty, or make additional warranties binding on SAMSUNG. Accordingly, additional statements such as dealer advertising or presentation, whether oral or written, do not constitute warranties by SAMSUNG and should not be relied upon.

Samsung Telecommunications America, LLC

1301 E. Lookout Drive

Richardson, Texas 75082

Phone: 1-800-SAMSUNG

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

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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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