

Samsung Messenger™

(S C H - r 4 5 0 S e r i e s)

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 SCH-r450 phone by activating your service, setting up your Voicemail, or getting an understanding of how this manual is put together.

Understanding this User Manual

The chapters of this guide 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 142.

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 119.



Notes and Tips

Throughout this guide there is text that is set apart from the rest. These are intended to point out important information, quick methods for activating features, to define terms, and more. The definitions for these methods are as follows:

- **Notes:** Explain alternative options within the current feature, menu, or sub-menu.
- **Tips:** Provide quick or innovative methods for performing functions related to the subject at hand.
- **Important:** Points out important information about the current feature that could affect performance, or even damage your phone.

Text Conventions

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

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

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

Installing the Battery

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

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

1. Insert the top end of the battery first, matching the gold contacts on the inside of the battery to those on the phone.



2. Press lightly on the bottom end of the battery down into the phone until it slips into place.

3. Press lightly down and inward on the bottom of the battery cover.



4. Press lightly on the top end of the battery down over the battery until it clicks into place.


2. Press down on the battery cover release latch (1) and lift the cover (2) up at the top and away from the phone.



3. Lift the battery (3) up and away from the phone, bottom end first.



Remove the Battery

1. Press and hold the  key to turn off the phone (if on).

Charging the Battery

Your phone is powered by a rechargeable standard Li-Ion battery. Only use Samsung-approved charging devices and batteries. Samsung accessories are designed to maximize battery life. **Use of other accessories may invalidate your warranty and may cause damage.**

Use the Travel Adapter

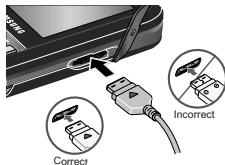
The travel adapter included with your phone is a convenient, light-weight charger that rapidly charges your phone from any 120/220 VAC outlet.



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


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




2. Insert the smaller end of the Travel Adapter into the charger/accessory connector at the bottom end of your phone.



Important! You must unplug the adapter before removing the battery from the phone during charging to avoid damage.

Low Battery Indicator

The battery indicator () in the upper-right corner of the display indicates power level. Monitor the battery strength and ensure your battery is adequately charged.

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

If you continue to use your phone without charging its battery, the phone will shut down.

Activating Your Phone

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


Turning Your Phone On

1. Press and hold the  key until the display lights.


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


2. The phone begins searching for a network signal.

3. Once the phone finds a signal, the time, date, and day appear near the top of the display.
4. You're now ready to place and receive calls.

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.

Turn Your Phone Off


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

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

Setting Up Your Voicemail


Voicemail allows callers to leave voice messages, which can be retrieved any time.

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

1. In standby mode, press and hold the  key or dial your own mobile number to dial Voicemail.

2. Follow the prompts in the new user tutorial to setup your mail box.

Listen to Voicemail

1. In standby mode, press and hold the  key or dial your own mobile number to dial Voicemail. After connecting, you will hear your voice greeting.
2. You are prompted to enter your password.

Memory Card (Optional)

Your phone has a Memory Card slot on its right side, behind the battery cover. You can install a microSD™ card to provide additional memory for storing files (such as, sound files and photos) in your phone.

Install a Memory Card

1. Open the battery cover from the back of your phone. (For more information, refer to Step 2 of *"Remove the Battery"* on page 5.)

2. Insert the memory card — label side facing up and smaller end pointing toward the phone — into the memory card slot.



3. Press the memory card up into the slot until the card locks into place.
4. Replace the battery cover.

Remove a Memory Card

1. Open the battery cover from the back of your phone. (For more information, refer to Step 2 of “*Remove the Battery*” on page 5.)

2. Press the memory card up into the slot until the card lock releases.
3. Remove the memory card from the memory card slot.
4. If desired, install another memory card. (For more information, refer to “*Install a Memory Card*” on page 7.)
5. Replace the battery cover.

Section 2: Understanding Your Phone

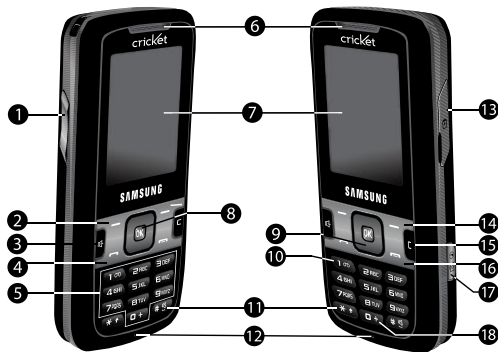
This section outlines some key features of your phone. It also describes the screen format and the icons that will be displayed when the phone is in use.

Features of Your Phone

- Domestic and international voice and text messaging service (available on participating networks).
- High speed data (CDMA 2000 1x Technology)
- Bluetooth® Wireless Technology (see Note)
- Global Positioning (GPS) Technology
- PIM Functions
- Picture (MMS) Messaging
- Text (SMS) Messaging
- E-mail Messaging
- QWERTY Keypad
- Built-in VGA Digital Camera
- Voice Dial
- Speakerphone

Note: The SCH-r450 supports the wireless handsfree profile and the serial port profile for Bluetooth® wireless technology. The SCH-r450 does not support Bluetooth OBEX profiles.

Closed View of Your Phone



Features

1. **Volume Key** — Lets you adjust the ring volume in standby mode, adjust the voice volume during a call, or mute the ringer during an incoming call.

2. **Left Soft Key** — Used to navigate through menus and applications and to select the choice indicated at the bottom left corner of the Main LCD.
3. **Speakerphone Key** — Lets you enable/disable speakerphone mode.
4. **SEND Key** — Lets you place or receive a call. In standby mode, press the key once to access the recent call log.
5. **Alpha-numeric Keys** — Use these keys to enter numbers, letters, and characters.
6. **Earpiece / Speaker** — Lets you hear ringing and alert tones, alarm tones, and the other parties to calls.
7. **Display** — Indicates the status of your phone, including numbers dialed, feature and function screens, status icons, message indicators, signal strength, and so on.
8. **OK Key** — Pressing when navigating through a menu accepts the highlighted choice in a menu.
9. **Navigation Key** — In Menu mode, lets you scroll through the phone menu options. In Standby mode, lets you access preset functions.
10. **Voicemail Key** — Lets you speed dial your Voicemail account to review your voice messages.
11. **Special Function Keys** — Enter special characters. Performs various functions.
12. **Microphone** — Lets the other party to a call hear you clearly when you are speaking to them.
13. **Power/Accessory Connector** — Used to plug in charging accessories and to connect a headset or any available accessory cables to your phone.
14. **Right Soft Key** — Used to navigate through menus and applications and to select the choice indicated at the bottom right corner of the Main Display.
15. **CLR Key** — Deletes characters from the display when you are in text entry mode. Press this key to return to the previous menu or screen when navigating features on your phone.
16. **END Key** — Ends a call. If you press and hold the END key, the power goes On or Off. When you receive an incoming call, press to send the call to voicemail.

17. **Camera – Music Player Key** — Launches the Camera or the Music Player feature of your phone.
18. **Voice Recognition Key** — In standby mode, pressing and holding this key launches VoiceSignal options.

Open View (Front) of Your Phone

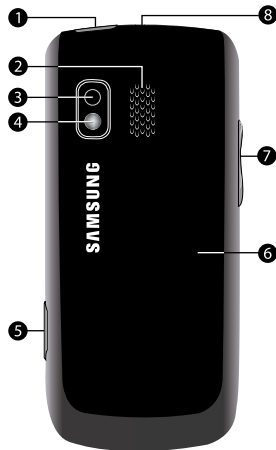


Features

1. **Earpiece / Speaker** — Lets you hear ringing and alert tones, alarm tones, and the other parties to calls.
2. **Display** — Indicates the status of your phone, including numbers dialed, feature and function screens, status icons, message indicators, signal strength, and so on.
3. **soft1 Key** — Left soft key — Used to navigate through menus and applications and to select the choice indicated at the bottom left corner of the Main LCD.
4. **shift Key** — Toggles **ABC** mode capitalization between **ABC**, **Abc**, and **abc**.
5. **Messaging Key** — Launches the **Messages** menu.
6. **Fn Key** — Text Function Key — Toggles text entry mode between **ABC** and **123** modes.
7. **space Key** — Inserts a space character in a text entry.
8. **Arrow (Navigation) Keys** — In Menu mode, lets you scroll through the phone menu options. In Standby mode, lets you access preset functions and one user-defined function.

9. **soft2 Key** — Right soft key — Used to navigate through menus and applications and to select the choice indicated at the bottom right corner of the Main Display.
10. **OK Key** — When navigating through a menu accepts the highlighted choice in a menu.
11. **Back/Clear Key** — Deletes characters from the display when you are in text entry mode. Press this key to return to the previous menu or screen when navigating features on your phone.
12. **Speakerphone Key** — Lets you enable/disable speakerphone mode.
13. **SEND Key** — Lets you place or receive a call. In standby mode, press the key once to access the recent call log.
14. **END Key** — Ends a call. If you press and hold the END key, the power goes On or Off. When you receive an incoming call, press to send the call to voicemail.





Closed Rear View of Your Phone



1. **Headset Connector** — Used to connect a headset or TTY device to your phone. (For more information, refer to “TTY Mode” on page 105.)
2. **Speaker Grill** — Lets you hear ringing and alert tones, alarm tones, and the other parties to calls.



3. **Camera Lens** — The lens of your built-in camera.
4. **Mirror** — Lets you position the Camera Lens to take self portraits.
5. **Camera – Music Player Key** — Launches the Camera or the Music Player feature of your phone.
6. **Battery Cover** — Lets you access your phone's battery.
7. **Volume Key** — Lets you adjust the ring volume in standby mode, adjust the voice volume during a call, or mute the ringer during an incoming call.
8. **Battery Cover Release Latch** — Lets you remove the battery cover.



Command Keys

Functions for the soft keys are defined by what appears above each in the display. There are two soft keys, the Left soft key ( or ) and the Right soft key ( or ).

Left Soft Key







Some functions of the Left soft key are as follows:

- In standby mode, press the **Settings** (left) soft key ( or ) to open the **Settings** menu.









- When the Left soft key function is Edit, press the **Edit** (left) soft key ( or ) to edit a Contact.

Right Soft Key





Some functions of the Right soft key are as follows.







- In standby mode, press the **Contacts** (Right) soft key ( or ) to launch the Contacts **Find** screen.
- When the Right soft key function is Options, press the **Options** (right) soft key ( or ) and a pop-up menu appears.
- When the Right soft key function is Back, press the **Back** (right) soft key ( or ) to back up one menu level.

OK Key




- In standby mode, press the **Menu** key ( or ) to launch the Main Menu.
- In a menu, press the **OK** key ( or ) to accept the highlighted selection.
- In camera mode, press the **OK** key ( or ) to take a photo or to create a Picture message.
- When the **OK** key function is Edit, press the **Edit** (OK) key ( or ) to edit a Draft message.

Clear Key


The **C/Back Arrow** key ( or ) is used to erase or clear numbers, text, or symbols from the display. You can also use the  or  key to return to a previous menu.






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

End Key


- Press and hold the **End** key  to turn on your phone.
- Briefly press  once to disconnect a call.
- Press  to return to standby mode from any menu, or to cancel the last input.

Send Key


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

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

Navigation Key

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

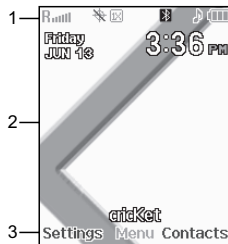
Camera – Music Player Key





Use the Camera-Music Player key () on the right side of the phone in standby mode to:

- Press and hold to activate the camera built into your phone. In Camera mode, press to take pictures.
- Press to activate the Music Player.

Understanding the Display Screen

1. The top line of your phone's display contains icons that indicate network status, battery power, signal strength, connection type, and more.
2. The center portion of the display shows information such as call progress information, messages, and photos.



3. The bottom line of the display shows current soft key functions. The sample screen shows that pressing the Left soft key ( or ) will display the **Settings** menu and pressing the Right soft key ( or ) will show the Contacts **Find** screen.

With the QWERTY keypad open, the display rotates automatically from portrait mode (as shown above) to landscape mode (as shown here).



Display Screen Icons

Your SCH-r450 phone can show you definitions of the icons that appear on the top line of the display.

To access the Icon Glossary:

- ▶ In standby mode, press the **Menu** key (), then press  (for **Settings**),  (for **Phone Info**), and  for **Icon Glossary**. A list appears showing all of

the icons that can appear on the top line of the display.

Dialogue Boxes

Dialogue boxes prompt for action, inform you of status, or warn of situations such as low battery. Dialogue boxes and their definitions are outlined below.

- **Choice**
 - Example: "Save Message?"
- **Reconfirm**
 - Example: "Erase All Messages?"
- **Performing**
 - Example: "Sending..." "Connecting..."
- **Completed**
 - Example: "Message Saved"
- **Information**
 - Example: "New Message"
- **Error**
 - Example: "System Error!"
- **Warning**
 - Example: "Low Battery," "Memory Full!"

Backlights




Backlights illuminate the display and the keypad. When you press any key or open the phone, the backlights come on. They go off when no keys are pressed within a period of time set in the **Backlight** menu.

Note: During a phone call, the display backlight dims and turns off after 10 seconds to conserve battery power, regardless of the Backlight setting.



For more information, refer to “*Backlight*” on page 102.

Your Phone’s Modes


Call Answer Mode

You can choose to answer a call by pressing any key except the  key or  key, or by pressing only the  key. (For more information, refer to “*Call Settings*” on page 104.)

Input mode

Input mode determines how you enter text, numbers, and symbols. While at any text entry screen, press the Left soft key ( or ) , then choose the input mode from the pop-up menu using the Navigation key. Optional input modes are **T9 Word**, **Abc**, **ABC**, **Symbol**, and **123**. (For more information, refer to “*Entering Text*” on page 33.)

Note: With the QWERTY keypad open, **T9 Word** is not available. Also, use **123** mode instead of **Symbol** to enter symbols and punctuation in your text.


Tip: With the phone closed, you can also cycle between **T9 Word**, **Abc**, and **123** by repeatedly pressing and holding the  key until the phone beeps.

Lock Mode

When the phone is in Lock Mode, restrictions are placed on phone use. You can receive calls and messages, but cannot place outgoing calls (except for emergency numbers) until you unlock the phone. Lock Mode also restricts access to menus and the volume key. Unlock your phone by entering the lock code when prompted. (For more information, refer to “*Change Lock*” on page 108.)



Standby Mode

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

- After you power the phone on.
- When you press  after a call or from within a menu.


In standby mode, you will see the time, day, and date as well as all phone status icons.

Place Calls in Standby Mode

1. While in standby mode, enter a phone number, and press  to place a call.
2. Press  to return to standby mode.

Receive Messages in Standby Mode

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

- **View Now** — This selection allows you to view the messages now.
 - **View Later** — This selection allows you to view the messages at a later date.
- ▶ Highlight the desired viewing option and then press .

Talk Mode


You can place and receive calls only when your phone is on. While in a call your phone is in talk mode. Press the **Options** soft key to display a list of menu options. (For more information, refer to “*In-Use Menu*” on page 25.)

Speakerphone Mode

To use your phone handsfree or to share a call with other people nearby, place your phone in Speakerphone Mode by pressing and

holding the Speakerphone key () until “**Speakerphone On**” appears in the display.



Caution!: Keep the phone away from you ear while in Speakerphone Mode. (For more information, refer to “*Responsible Listening*” on page 128.)

To disable Speakerphone Mode, press and hold  until “**Speakerphone Off**” appears in the display.


Note: Your phone automatically enters Speakerphone Mode when you dial a call using the QWERTY keypad and the called phone begins ringing.

Enter/Exit Silent Mode

Silence the tones your keypad makes when you press a key.



- To enter Silent Mode:
 - ▶ In standby mode, press and hold . “**Entering Silent Mode**” briefly appears in the display and your phone returns to standby mode.
- To exit Silent Mode:
 - ▶ While in Silent mode and standby mode, press and hold . “**Exit Silent Mode**” briefly appears in the display and your phone returns to standby mode.






Vibrate Mode

- ▶ In standby mode, repeatedly press the volume key () down until **Vibrate** appears in the display.

The volume key is on the upper right side of phone.

Adjust the Ringer

1. In standby mode, press the volume key () on the right side of the phone up or down. Options are:
 - Ringer Off
 - Vibrate
 - Low
 - Low/Medium
 - Medium
 - Medium/High
 - High
 - Vibrate/High
2. When you are satisfied with the setting, press the  key.
Your phone returns to standby mode.



Tip: You can also enter the **Volume > Voice Calls** sub-menu by pressing the **Menu** key () , then pressing the  ,  ,  , and  keys. Use the Volume key on the right side of your phone to adjust the ringer volume setting.

Note: The Vibrate icon () appears in the display when the phone is in Vibrate mode. The **Vibrate/Ring** icon () appears in the display when the phone is in **Vibrate/High** mode.

Camera Mode

Camera mode lets you activate your phone's camera to take pictures. In Camera mode, you can also adjust the resolution and appearance of your pictures.

For more information, refer to “*Multimedia*” on page 76.


- **Entering Camera Mode** — In standby mode, press the Camera/Music Player key () down and hold it — on the right side of the phone.
- **Exiting Camera Mode** — Press the  key.

Section 3: Call Functions

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

Note: Although the procedures in this section are written for the phone keypad, you can also perform these procedures using the QWERTY keypad.

Making a Call


1. With the phone on, enter the number you wish to call using the keypad.
2. Press  to place the call.


Emergency Calls

When you call an Emergency Number, such as 911, your SCH-r450 phone locks itself in emergency mode, only allowing you to make calls to the emergency call center you originally contacted. This enables emergency operators to more easily dispatch aid, such as police, fire fighting, and emergency medical personnel.

1. With the phone on, enter the Emergency Number you wish to call using the keypad.





Note: You can define up to 3 emergency numbers in your phone. (For more information, refer to “*Emergency #*” on page 108.)

2. Press  to place the call.

Tip: If you need to make an emergency (911) call with Airplane mode enabled, just dial the emergency number and press . (For more information, refer to “*Airplane Mode*” on page 106.)




Three-way Calling

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

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

Manual Pause Calling

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

1. In standby mode, enter the number you wish to call.
2. Press the **Options** soft key. The following pause options appear in the display:
 - **2-Sec Pause** — A 2-second pause after which dialing resumes.
 - **Wait** — A hard pause (waits for input from you).
3. Use the Up/Down navigation or arrow keys to highlight the desired pause.
4. Press the  key or  key to enter the highlighted pause into the number sequence.
5. Press  to call the number.

Tip: Press the **Save** soft key to store pauses along with the number if you plan to call the number frequently.



Speed Dialing

Speed Dialing lets you place a call to any Contact stored in your Contacts list by dialing the Contact's Location number.

1-Touch Dialing

Use 1-touch dialing to speed dial Contacts from 1 (Voicemail) through 9.





- ▶ In standby mode, press and hold the number key corresponding to the desired Contact's speed dial number.

Example: To speed dial the Contact assigned speed dial 5, press and hold the  key or the  key.

2-Touch Dialing

Use 2-touch dialing to speed dial Contacts from 10 through 99.

1. In standby mode, press and release the number key representing the first digit of the desired Contact's speed dial number.
2. Press and hold the number key representing the second digit of the desired Contact's speed dial number.

Example: To speed dial the Contact assigned speed dial 35, press  or  then press and hold the  key or the  key.

3-Touch Dialing

Use 3-touch dialing to speed dial Contacts from 100 through 999.

1. In standby mode, press and release the number key representing the first digit of the desired Contact's speed dial number.
2. Press the number key representing the second digit of the desired Contact's speed dial number.
3. Press and hold the number key representing the third digit of the desired Contact's speed dial number.

Example: To speed dial the Contacts entry assigned to speed dial 325, press  or , press  or , then press and hold the  key or the  key.

Voice Dialing

The voice recognition capabilities of your SCH-r450 are exceptional due to advanced, speaker-independent technology. This means you do not need to “train” your phone to understand your voice. You can use your voice *in a natural manner* to dial numbers.

Note: End Calls Before relaunching the VoiceSignal voice recognition software — When you use Voice Dialing to make a call, you must end that call before you can use other Voice Commands. For more information, refer to “Voice SVC” on page 95.



Use the **Call** command to dial any number stored in your Contacts list by saying the name of the contact (Name Dialing). You can also use **Call** to dial any telephone number, even numbers not stored in your contact list, by speaking the individual digits in the number (Digit Dialing).

Voice Dialing Tips:

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

Dialing a Name

To dial a name, do the following:

1. In standby mode, press and hold the  key or the  key.
“**Say a Command**” appears in the display and is pronounced through the earpiece.
2. Say, “**Call**”.
You are prompted to “**Say the name or number**”.

3. Speak clearly and say the name of a person in your Contacts list, first name followed by last name.

If the name is recognized, Voice Dial repeats the name and dials the number.

If Voice Dial is not sure which name you said, it displays a choice list of up to three names and prompts you with **“Did you say?”** followed by the first name on the list.

4. Say **“Yes”** to confirm the name or **“No”** to hear the next name, or use the keypad to select the correct name from the list. (For more information, refer to *“Voice SVC”* on page 95.)

- Press the **Repeat** soft key to say the name again.
- Press  to exit VoiceSignal without dialing.

If the recognized name has multiple numbers stored for it (that is, Mobile, Work, Home, and so on), Voice Dial displays the possible choices and prompts you with **“Which number?”**



5. Say one of the following number types:
 - **“Home”**
 - **“Work”**
 - **“Mobile 1”**

- **“Mobile 2”**

Voice Dial dials the specified number.

Dialing a Number

To dial a number using Voice Dial, do the following:

1. In standby mode, press and hold the  key or the  key.
“Say a Command” appears in the display and is pronounced through the speaker.
2. Say **“Call”**.
VoiceSignal prompts you to **“Say the name or number.”**
3. Speak clearly and say the telephone number of the person you want to call.

For example, say “7 8 1 9 7 0 5 2 0 0.”

If it recognizes the number, Voice Dial repeats it and dials the number. If Voice Dial is not sure it has recognized the number, it displays a choice list of up to three numbers and prompts you with **“Did you say?”** followed by the first number on the list.

4. Say “**Yes**” to confirm the number or “**No**” to hear the next one, or use the keypad to select the correct number from the list. (For more information, refer to “*Voice SVC*” on page 95.)

- Press the **Repeat** soft key to say the name again.
- Press  to exit VoiceSignal without dialing.

Pause Dialing From a Contacts Entry

- If you voice dial a contact that contains 2-Sec Pause(s) simply wait for the pauses to pass and the dialing to complete.
- If you voice dial a contact that contains Wait(s), wait for the appropriate prompt(s) from the number you are calling (credit card number, bank account number, and so on) and enter the appropriate response(s).

Answering a Call

Incoming

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

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

Tip: Assign pictures to Contacts entries. The entry's assigned picture appears in the display when you receive a call from that entry. For more information, refer to “*Assigning a Picture to a Contacts Entry*” on page 41.

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

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

Call Notification Features

Your phone notifies you of a call in a variety of ways.



- Eight ring volume settings: **Ringer Off**, **Vibrate**, **Low**, **Low/Medium**, **Medium**, **Medium/High**, **High**, or **Vibrate/High**.
- Different ring types or melodies to distinguish callers.
- Name display with caller ID. (If the caller's name is programmed into your Contacts).
- Information about the last 90 each of incoming, missed, and outgoing calls are automatically stored to a call log.






Set Call Ringer Volume

1. In standby mode, press the Volume key on the right side of the phone.

2. Press the Volume key up or down to set the call ringer volume as desired.

Adjust the Ringer

1. In standby mode, press the Volume key () on the right side of the phone up or down. Options are:
 - **Ringer Off**
 - **Vibrate**
 - **Low**
 - **Low/Medium**
 - **Medium**
 - **Medium/High**
 - **High**
 - **Vibrate/High**
2. Press  once you're satisfied with the setting. The phone returns to standby mode.

Tip: You can also enter the **Volume > Voice Calls** sub-menu by pressing the **Menu** key () , then pressing the , , , and  keys. Use the Volume key on the right side of your phone to adjust the ringer volume setting.

Note: The Vibrate icon () appears in the display when the call ringer is set to **Vibrate**. The Vibrate/Ring icon () appears in the display when the call ringer is set to **Vibrate/High**.





Call Answer

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

1. In standby mode, press **Menu**, then select **Settings** → **Call Settings** → **Call Answer**.




Tip: You can also carry out this procedure using the QWERTY keypad.

The following options appear in the display:

- **Any Key** — Pressing any key on either keypad except , , or the **Ignore** soft key answers a call.
 - **Send Key** — Only pressing  answers a call.
2. Use the Up/Down navigation keys to highlight the Call Answer option of your choice.
 3. Press  to activate the method for answering calls.

Call Waiting

If you're on a call, your phone beeps when another call is incoming. Contact your Wireless Carrier for availability.





1. Press  to connect and ask the calling party to remain on the line.
2. Press  and the second caller is placed on hold and you're returned to the original caller.
3. Press  to alternate between calls.

Caller ID

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

Call Block

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

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

Silence an Incoming Ring

During an incoming call, any of the following keys can be pressed to silence the ringer:

- The up or down volume key () on the right side of the phone.


Ignore an Incoming Call

Ignored calls are immediately forwarded to Voicemail.

- ▶ During an incoming call, press the **Ignore** soft key. The incoming call is forwarded to Voicemail.


In-Use Menu

You can access a number of menus and features even while in a call.

1. While in a call, press the **Mute/Unmute** soft key to disable/enable the microphone.
2. While in a call, press the **Options** soft key. The following options appear in the display:
 - **Message** — Display the Messages menu.
 - **Contacts** — Display the Contacts menu.
 - **Recent Calls** — View your recent calls log.
 - **Send DTMF** — Send your phone number as DTMF tones to the other person on the call.
 - **Voice Privacy** — When set to **Enhanced**, the phone sounds an audible beep when you loose privacy (encryption) on a CDMA connection. For this option to work correctly, you must have the Enhanced privacy option enabled in the Security settings. (This option is enabled by default.)
 - **Location** — Turn your GPS location on or set GPS location for emergency calls only.
3. Within the above menu list, do one of the following:
 - Use the navigation key to highlight a menu or feature. Press  to open the highlighted menu or to activate the highlighted feature.
 - Press the **Cancel** soft key to exit the menu.


Calls


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

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

Outgoing Calls


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

1. In standby mode, press **Menu**, then select **Calls** → **Outgoing Calls**. A list of your outgoing calls appears in the display.
2. Use the Up and Down navigation keys to highlight a call, then press  to view further information about the call.
3. Press the **Options** soft key. The following options appear in the display:
 - **Save** — Save the number to your Contacts.

- **Details** — Contacts calls only — Lets you view the Contacts entry for the recipient of this call.
 - **Erase** — Erase the selected call from your Outgoing call list.
 - **Lock/Unlock** — Blocks/permits erasure of the selected call from your Outgoing call list.
 - **Erase all** — Erase all unlocked calls from your Outgoing call list.
 - **View Timer** — Call Timer screen appears in the display listing the number and types of calls and their total durations. (See “*Call Timer*” on page 28 for more information.)
4. Use the Up and Down navigation keys to highlight an option.
 5. Press  to perform the highlighted option’s function.

Incoming Calls

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

1. In standby mode, press **Menu**, then select **Calls** → **Incoming Calls**. A list of your Incoming calls appears in the display.
2. Use the Up and Down navigation keys to highlight a call, then press  to view further information about the call.

3. Press the **Options** soft key to display a pop-up menu containing the following options:
 - **Save** — Save the number to your Contacts.
 - **Details** — Contacts calls only — Lets you view the Contacts entry for the originator of this call.
 - **Erase** — Erase the selected call from your Incoming call list.
 - **Lock/Unlock** — Blocks/permits erasure of the selected call from your Incoming call list.
 - **Erase all** — Erase all unlocked calls from your Incoming call list.
 - **View Timer** — Call Timer screen appears in the display listing the number and types of calls and their total durations. (See “*Call Timer*” on page 28 for more information.)
4. Use the Up and Down navigation keys to highlight an option.
5. Press **OK** to perform the highlighted option’s function.

Missed Calls

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

1. In standby mode, press **Menu**, then select **Calls → Missed Calls**. A list of your missed calls appears in the display.

2. Use the Up and Down navigation keys to highlight a call, then press **OK** to view further information about the call.
3. Press the **Options** soft key to display a pop-up menu that contains the following options:
 - **Save** — Save the number to your Contacts.
 - **Details** — Contacts calls only — Lets you view the Contacts entry for the originator of this call.
 - **Erase** — Erase the selected call from your Missed call list.
 - **Lock/Unlock** — Blocks/permits erasure of the selected call from your Missed call list.
 - **Erase all** — Erase all unlocked calls from your Missed call list.
 - **View Timer** — Call Timer screen appears in the display listing the number and types of calls and their total durations. (See “*Call Timer*” on page 28 for more information.)
4. Use the Up and Down navigation keys to highlight an option.
5. Press **OK** to perform the highlighted option’s function.

Erase Logs

You can erase Outgoing, Incoming, Missed, or All Calls.

Erase All Calls

1. In standby mode, press **Menu**, then select **Calls → All Calls**. The **All Calls** list appears in the display.

2. Press the **Options** soft key to display a pop-up menu that contains the following options:
 - **Save** — Save the number to your Contacts.
 - **Details** — Contacts calls only — Lets you view the Contacts entry for the originator of this call.
 - **Erase** — Erase the selected call from your All Calls list.
 - **Lock/Unlock** — Blocks/permits erasure of the selected call from your All Calls list.
 - **Erase all** — Erase all unlocked calls from your All Calls list.
 - **View Timer** — Call Timer screen appears in the display listing the number and types of calls and their total durations. (See “*Call Timer*” on page 28 for more information.)
3. Use the Up and Down navigation keys to highlight **Erase all**, then press the **OK** key.
4. “**Erase all entries?**” appears in the display as well as the options **Yes** and **No**.
5. To Erase all calls, press the **Yes** soft key.
To keep the calls, press the **No** soft key.

Call Timer

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


1. In standby mode, press **Menu**, then select **Calls → Call Timer**. The following options appear in the display:
 - **Last Call** — Shows the duration of your last call.
 - **Home Outgoing** — Shows the number and total duration of all calls originated by your phone since the last reset.
 - **Home Incoming** — Shows the number and total duration of all calls made to your phone since the last reset.
 - **Roaming Calls** — Shows the number and total duration of all calls originated by and made to your phone while roaming and since the last reset.
 - **All Calls** — Shows the number and total duration of all calls originated by and made to your phone since the last erasure.
 - **Last Reset** — Shows the date and time you last reset all counters (except Lifetime Calls).
 - **Lifetime Calls** — Shows the duration of all calls on your phone since activation (Lifetime timers cannot be reset).
2. Use the Up and Down navigation keys to highlight a particular timer.
3. Press the **Reset** soft key to reset the highlighted timer.
Press the **Reset All** soft key to reset all of the timers except **Lifetime Calls**.
4. Press **OK** to exit the **Call Timer** screen.

Note: Although Total call timers can be erased, LifeTime call timers can never be erased.

Data Counter

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


1. In standby mode, press **Menu**, then select **Calls → Data Counter**. The following options appear in the display:
 - **Transmit** — Shows the amount of data (in kilobytes) that your phone has transmitted since last being reset.
 - **Received** — Shows the amount of data (in kilobytes) that your phone has received since last being reset.
 - **Total** — Shows the amount of data (in kilobytes) that your phone has transmitted and received since last being reset.
 - **Last Reset** — Shows the date and time you last reset all counters (except Lifetime Data Counter).
 - **Lifetime Data Counter** — Shows the amount of data (in kilobytes) that your phone has transmitted and received since being activated.
2. To reset a timer other than Lifetime Data Counter, use the Up/Down navigation keys to highlight the timer you want to reset and press the **Reset** soft key.





3. To reset all timers except Lifetime Data Counter, press the **Reset All** soft key.
4. Press  to exit the **Data Counter** screen.

Note: Although other data counters can be reset, only the Lifetime Data Counter can never be reset.

Store Numbers from Call Logs

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

Tip: In standby mode, briefly press  to display the **Recent Calls** list. You can then select any call in the list to save to **Contacts**.

1. In standby mode, press **Menu**, then select **Calls**.
2. Press the corresponding number on the keypad to view call logs for the following call types.
 -  for **Outgoing Calls**
 -  for **Incoming Calls**
 -  for **Missed Calls**
 -  for **All Calls**
3. Select the number you wish to store in Contacts.
4. Press the **Options** soft key, then select **Save**.






5. Select **Create New** to add the number as a Contacts entry, or select **Update Existing** to find a Contact with which to associate the new number.
6. Follow the prompts to store the number to Contacts.


Section 4: Menu Navigation

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



Note: Although all procedures in this section are written for the phone keypad, you can also perform these procedures using the QWERTY keypad.


Menu Navigation

Access the menus and sub-menus in your phone using the navigation key () and soft keys (  or  ) or use a shortcut.


1. In standby mode, press **Menu** (). The first of several menus appear in the display.

Note: More than one menu may appear in your display. This setting can be modified in the **Display / Menu Style** menu. (For more information, refer to “Menu Style” on page 101.)


2. Use the navigation key to browse through the menus.
3. Press  or  to enter the menu or sub-menu that appears in the display.

4. Press the **Back** soft key or the  key to return to the previous menu.

Return to the Previous Menu

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

Menu Shortcuts

Use shortcuts to quickly access menus and sub-menus. Press the **Menu** key (), then press the number to the left of the menu to jump to the desired menu, sub-menu, or feature.

Example: To jump to the **Outbox** sub-menu, press **Menu** () , then press  (for **Messages**) and  (for **Outbox**).

Navigation Key Shortcuts

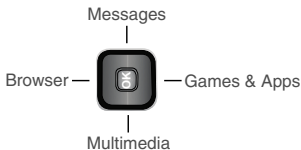
QWERTY Keypad Closed

In standby mode and with the QWERTY keypad closed, press a navigation key to launch the key's corresponding application in the pattern shown here.



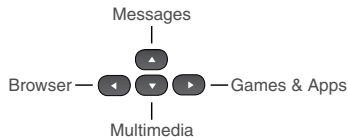
QWERTY Keypad Open

In standby mode and with the QWERTY keypad open, the navigation key application pattern rotates 90° as shown here.





QWERTY Keypad Shortcuts




In standby mode and with the QWERTY keypad open, you have the option of using the arrow keys on the keypad itself to launch applications, as shown here.



Navigate Using a Shortcut

You can also access menus and sub-menus using menu numbers. Enter the menu number after pressing the **Menu** key () to go directly to the menu or sub-menu of your choice. Before you can navigate using a shortcut, you'll need the menu or sub-menu number that you wish to access.

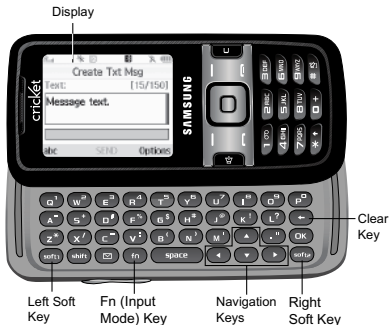
1. In standby mode, press **Menu** () .
2. Press the number of the menu, sub-menu, and so on for the feature that you wish to access.

Example: Press **Menu** () , then press  ,  . This takes you to the **Tools** (Menu 7), and then to the **Calendar** (sub-menu 2).

Section 5: Entering Text

This section outlines how to select the desired text entry mode when entering characters using the phone keypad or the nested, QWERTY keyboard-style keypad. This section also describes how to use the T9 predictive text entry system to reduce the number of key strokes needed to enter text.

Built-in QWERTY Keypad



Your r450 has a built-in, keyboard-style keypad, commonly called QWERTY, that you can access by sliding it open from beneath the top section of the phone. This also automatically

rotates the image in the display to show information in a wider, landscape format. Using the QWERTY keypad, you can type letters, numbers, punctuation, and other special characters into text entry fields or other applications simpler and faster than using the telephone keypad.

Note: Two of your phone's functions (@metro and MetroWEB) call for you to use the QWERTY keypad. Other functions requiring text entry (such as, Messaging and Memo Pad) accept text entry from whichever keypad you prefer.

Changing the Text Entry Mode

Text messages can be made up of alphabetical characters, numbers, and symbols. You can use the following text entry modes to simplify text entry:

- **T9 Word** — Press each phone key only once to enter the letter of the word that you're spelling. T9 WORD mode letter options are:
 - **T9 Word** — Enter initial capital letters
 - **T9 WORD** — Enter all upper case letters
 - **T9 word** — Enter all lower case letters

Note: T9 Word does not support the QWERTY keypad, which does not need this function.

- **Abc** — Enter letters, numbers, and symbols by using the QWERTY keypad or by repeatedly pressing each phone key until the desired character (as shown on the key) appears in the display. ABC mode letter options are:
 - **Abc** — Enter initial capital letters
 - **ABC** — Enter all upper case letters
 - **abc** — Enter all lower case letters
- **123** — Enter numbers by pressing the corresponding keys on the phone keypad or the QWERTY keypad.

Tip: Using the QWERTY keypad, also use **123** mode to enter symbols into your message simply by pressing the keys labeled with the symbols you want.

- **Symbols** — Using the phone keypad, enter a symbol into your message by pressing the number above the symbol in the **SYMBOLS** pop-up window.

The current text entry mode (**T9 Word**, **Abc**, **ABC**, **123**, or **Symbols**) is indicated in the lower part of a text entry screen. To change the text entry mode, do the following:

1. While composing a text message, press the Left soft key.

The following options appear in the display:

- **T9Word**
- **Abc**
- **ABC**
- **123**

- **Symbols**

2. Use the Up and Down navigation keys to highlight the desired text entry mode, then press **OK** or **OK**.



Using T9[®] Mode (Phone Keypad Only)

T9 Word recognizes commonly used words for the numeric sequence of key presses and inserts the word into your message. T9 Word is much faster than the traditional method of text entry (**Abc**) and *requires only one key press per letter* of the word that you're spelling.






1. While composing a text message, press the Left soft key. Use the Up and Down navigation keys to highlight **T9Word**, then press **OK**.
 - For practice, enter the word "Samsung" by pressing each of the following keys *only once*.



T9 Word recognizes that the most commonly used word for the numeric sequence you just entered is "Samsung." If more than one word shares the same numeric sequence, T9 Word provides the most commonly used word. Alternate words, if available, pop-up in the display. Select the desired word in the pop-up list.

Note: To enter a space, press the  key. To enter a period, press the  key. These key functions apply to both **T9 Word** and **Abc** modes. For other symbols, see “*Entering Symbols*” on page 35.

Using Abc Mode

1. While composing a text message, press the Left soft key, then select **Abc**.
2. Enter characters while in Abc mode by using one of following keypads:
 - Using the QWERTY keypad, press the key labeled with the desired character (such as, press  for “G” and  for “H”).
 - Using the phone keypad:
 - Press the key repeatedly until the desired character appears in the display (such as, press  once for “G” and twice for “H”).
 - Pause briefly and the displayed character is accepted and inserted into your message.
 - Press  to enter a space and press  to enter a period.

Entering Numbers


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

1. While composing a text message, press the Left soft key, then select **123**.
2. Enter numbers while in 123 mode by using one of following keypads:

- Using the QWERTY keypad, press the key labeled with the corresponding number that you wish to insert into your message.
- Using the phone keypad, press the key labeled with the corresponding number that you wish to insert into your message.

Entering Symbols

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

- ▶ While composing a text message, enter symbols by using one of following keypads:
 - Using the QWERTY keypad:
 - Press the Left soft key, then select **123** (not **Symbols**).
 - Press the key(s) labeled with the corresponding symbol(s) that you wish to insert into your message.
 - To return to **Abc** mode, press the Left soft key, then select **Abc**.
 - Using the phone keypad:
 - Press the Left soft key, then select **Symbols**. The first of three symbol screens appear in the display.
 - Use the Left and Right soft keys to page through the other symbols, if desired.
 - Press the key that corresponds with the symbol that you wish to enter. For example, press  for an exclamation point (!).
 - Repeat these steps to insert additional symbols into your message.

Section 6: Understanding Your Contacts

This section details how you can manage your daily contacts by storing their names and numbers in your Contacts list. You can have your Contacts entries sorted by name.

Note: Although the procedures in this section are written for the phone keypad, you can also perform these procedures using the QWERTY keypad.

Contacts

Up to 500 entries can be stored in Contacts. Each entry can have up to five associated phone numbers and one e-mail address. Each phone number can be up to 32 digits in length, including **2-Sec** or **Wait** pauses (for more information, refer to “*Manual Pause Calling*” on page 20), and associated names can be up to 32 characters in length. You can assign the Speed Dial numbers of your choice for each entry. You can also mark your Contacts list as Restricted to prevent unauthorized viewing. (For more information, refer to “*Restriction*” on page 109.)

Tip: Speed Dial **One-Touch Dialing**, **Two-Touch Dialing**, and **Three-Touch Dialing** allow you to call numbers stored in Contacts faster.

Open Contacts

1. In standby mode, press **Menu** () , then select **Contacts**.

The following options appear in the display:

- **Find** — Find a phone number By Name.

Tip: You can also access the **Find** option from standby mode, by pressing the **Contacts** soft key.

- **Add New Contact** — Add a number or e-mail address to your Contacts.
- **Speed Dial** — Assign a Contacts entry to a Speed Dial number. (See “*Speed Dial*” on page 44 for more information.)
- **Group** — Review, send messages to, add Contacts to, or rename four out of your five groups. (See “*Contacts Groups*” on page 45 for more information.)
- **Memory Info** — Display used and available memory for Contacts entries.

Tip: To launch the Contacts menu using a voice command — In standby mode, press and hold  until the phone prompts, “**Say a command.**” Say “**Go to Contacts**” into the microphone.

2. Select the option of your choice.

Tip: You can also press the keypad number key that corresponds to the menu option number.


Finding a Contacts Entry




Voice Method

Use the VoiceSignal **Lookup** command to view contact information for any named contact stored in your Contacts list by saying the name.

Note: The **Lookup** command shows the requested contact information in the display but does not dial any phone numbers for the contact.

To look up information for a specific contact:

1. In standby mode, press and hold  to launch **VoiceSignal**.
“**Say a Command**” appears in the display and is pronounced through the speaker.
2. Say “**Lookup**”.
VoiceSignal prompts you to “**Say the name.**”
3. Speak clearly and say the full name of the person you want to call, exactly as it is entered in your Contacts list.
 - If VoiceSignal recognizes the name you said, the contact information for that name appears in the display.
 - If VoiceSignal does not recognize the name you said, a choice list of up to three names appears in the display, and VoiceSignal prompts you with “**Did you say?**” followed by the first name on the list.

4. Say “**Yes**” to confirm the name or “**No**” to hear the next name, or use the keypad to select the correct name from the list. (For more information, refer to “*Choice Lists*” on page 96.)
 - To say the name again, press the **Repeat** soft key.
 - To exit VoiceSignal without dialing, press .
5. The contact information for the name you selected appears in the display.
 - Press  to dial the number associated with the name.
 - Press the **Erase** soft key to erase this entry from your Contacts list.
 - Press the **EDIT** key () to add or change information for this entry.
 - Press the **Options** soft key and the following options popup in the display:
 - **Send Txt Msg**
 - **Send Pic Msg**
 - **Call**
 - **Send Name Card Via Bluetooth**

Shortcut Key Method

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

1. In standby mode, press the **Contacts** soft key.

The **Find** screen appears in the display with the **Go To** field highlighted, followed by the first few names in your Contacts list.

Tip: You can also access the **Find** screen from standby mode by pressing **Menu** (☰), then selecting **Contacts** → **Find**.

2. Enter a name *as entered in Contacts*.

Example: If you saved the name as “Amy Smith”, begin the search by pressing **ABC** (for “A”).

As you enter letters, the names of the closest matches appear in the display.

3. When the desired entry is listed in the display, highlight the entry, then do one of the following:
- Press **☎** to dial the number associated with the name.
 - Press the **Edit** soft key to add or change information for this entry.
 - Press the **VIEW** key (👁) to show information about the entry.
 - Press the **Options** soft key. The following options appear in the display:
 - **New Contact** — Add a new entry to Contacts.
 - **Erase** — Erase the name and associated information.
 - **Send Txt Msg** — Create and send a text message to the selected Contact.

- **Send Pic Msg** — Create and send a picture message to the selected Contact.
- **Call** — Dial the number associated with the name.
- **Send Name Card Via Bluetooth** — Send a copy of a Contacts entry to another Bluetooth device.

Select the desired option. The selected option's sub-menu appears in the display.

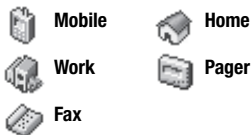
Adding a New Contacts Entry

You can use either of two methods to add an entirely new entry to Contacts.

Dial Method

1. Using the keypad, enter the number you wish to add to your Contacts.
2. Press the **Save** soft key. The following options appear in the display:
 - **Create New** — Lets you create a new Contacts entry.
 - **Update Existing** — Lets you add the number you entered to an existing Contacts entry.

3. Select **Create New**. The Select Type screen appears in the display showing the following icons:



4. Select the number type that matches your new entry.
5. Use the keypad to enter a name to associate with the Contacts entry.
6. Press **OK** to save the entry.

Menu Method

1. In standby mode, press **Menu** (**OK**), then select **Contacts** → **Add New Contact**.

The **Add New Entry** screen appears in the display with the **Name** field highlighted.

2. Enter the name of the new entry using the keypad. (For more information, refer to “*Entering Text*” on page 33.)
3. Highlight one of the following fields:

- **Mobile**
- **Home**
- **Work**
- **Pager**
- **E-Mail**
- **Group**
- **Ringtone**
- **Fax**



4. Enter a phone number in the highlighted field.
5. Repeat steps 3 and 4 as needed.
6. Press **OK** to save the new entry.

Editing a Contacts Entry


Editing Contacts Name and Numbers

1. Find the Contacts entry you wish to change. See “*Finding a Contacts Entry*” on page 37 for more information.
2. Select the desired entry. The **View Contact** screen appears in the display showing the highlighted entry’s information.
3. Use the Up/Down navigation keys to review the information for the entry that you wish to change, then press **EDIT** (**OK**). The **Edit Contact** screen appears in the display.

4. Highlight the particular information you want to add or change.

- Press  to backspace and delete numbers or letters.
- Press and hold  to clear all numbers or letters in the highlighted field.
- Press the **Options** soft key. The following options popup in the display:
 - **Set Speed Dial / Remove speed dial** — Assign/remove a speed dial number (see “*Speed Dial*” on page 44. for more information).
 - **Set as default** — Set the number the phone will dial when Contacts dialing, speed dialing, or voice dialing.
 - **Wait** — A hard pause (waits for input from you).
 - **2-Sec Pause** — A 2-second pause after which dialing resumes (see “*Add Pauses to Contacts Numbers*” on page 40. for more information).

Select the desired option.

5. When you're finished changing the contents of a field, press . Your changes are saved and a confirmation message appears in the display.

Add Pauses to Contacts Numbers

Calls to automated systems such as banking services often require a password or account number. Instead of manually entering these numbers, you can store them in a Contacts entry

with the phone number and with special characters called pauses, up to a maximum of 32 digits.

- **Wait** — Stops the calling sequence until the phone receives further input.
- **2-Sec Pause** — Stops the calling sequence for two seconds, then sends the remaining digits.




Note: You can enter multiple Waits to extend the length of a pause. For example, two consecutive Waits cause a total pause time of four seconds. Keep in mind that pauses count as digits towards the 32-digit maximum.

To add pauses to a Contacts entry number, do the following:

1. Find the Contacts entry associated with the number you want to include one or more pauses. See “*Finding a Contacts Entry*” on page 37 for more information.
2. Select and edit the desired number. See “*Editing a Contacts Entry*” on page 39 for more information.
3. Press the **Options** soft key. The following pause options appear in the display:
 - **Wait** — A hard pause (waits for input from you).
 - **2-Sec Pause** — A 2-second pause after which dialing resumes.
4. Select the pause option of your choice to it into the number sequence.


5. When you're finished entering information, press  to store the number to Contacts.

Pause Dial from Contacts

1. If you stored the number using 2-second pause(s), simply recall the number from Contacts, and press  to dial the number.
2. If you stored the number using Wait(s), recall the number from Contacts, press  to dial the number, then wait for the appropriate prompt from the dialed number.
3. Enter a response to the prompt and press  to send the digits you entered.

Edit an Existing E-mail Address

1. Find the Contacts entry you want to edit. See *"Finding a Contacts Entry"* on page 37 for more information.
2. Highlight the desired Contacts entry, then press the **Edit** soft key.
The **Edit Contact** screen appears in the display.
3. Highlight the **E-Mail** field.

4. Use the keypad to edit the e-mail address. (For more information, refer to *"Entering Text"* on page 33.)
5. Press  to save your changes.

Assigning a Picture to a Contacts Entry

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

1. Find the Contacts entry you want to edit. See *"Finding a Contacts Entry"* on page 37 for more information.
2. Highlight the desired Contact, then press the **Edit** soft key.
The **Edit Contact** screen appears in the display.
3. Highlight the **Picture ID** field (at the top of the **Edit Contact** screen), then press the **Set** soft key.
A photo gallery screen appears in the display, showing a series of thumbnail photos. (For more information, refer to *"My Images"* on page 76.)
4. Highlight the picture that you wish to assign to the Contacts entry.

If there are no pictures, or if you cannot find an appropriate picture, press the **Camera** soft key.

- The camera viewfinder screen appears in the display.
5. Press **TAKE** (📷). “**Picture saved**” pops-up in the display and you are returned to the Camera viewfinder screen.
 6. Press the **My Images** soft key. You are returned to the photo gallery screen.
 7. Highlight the picture that you wish to assign to the Contacts entry, then press (OK). The Contacts entry screen appears in the display with a thumbnail view of the selected image in the Picture ID field.
 8. Press (OK) to save the picture assignment to the selected Contacts entry.

Assigning a Ringtone to a Contacts Entry

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

1. Find the Contacts entry you want to edit. See “*Finding a Contacts Entry*” on page 37 for more information.
2. Highlight the desired Contact, then press the **Edit** soft key. The **Edit Contact** screen appears in the display.

3. Highlight the **Ringtone** field, then press the **Set** soft key. The **Contact Tone** menu showing the following options appears in the display:
 - **My Ringtones**
 - **My Sounds**
4. Select the desired option. The **My Ringtones** or the **My Sounds** file list appears in the display.
5. Select the ringtone or sound that you wish to assign to the Contacts entry. The Contacts entry screen appears in the display with the name of the selected file in the **Ringtone** field.
6. Press (OK) to save the ringtone assignment to the selected Contacts entry.

Saving a Number After a Call

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

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

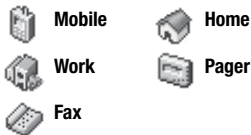
1. Press (END) to end your call. The call time, length of call, phone number, and name of the party (if available) appear

in the display.

2. Press the **Save** soft key. The following options appear in the display:
 - **Create New** — Lets you create a new Contacts entry.
 - **Update Existing** — Lets you add the number you entered to an existing Contacts entry.
3. Follow the instructions in the upcoming sections depending on whether the number is a new entry or you wish to add it to an existing entry.

Create a New Entry

1. Select **Create New**. The **Create New** screen appears in the display showing the following number type options:

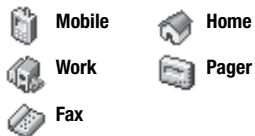


2. Select the number type that matches your new entry.
3. Enter a name for the new entry. (For more information, refer to “*Entering Text*” on page 33.)

4. Press . The new entry is saved to your Contacts list.

Add to an Existing Entry

1. Select **Update Existing**. The **Update Existing** screen appears in the display showing your Contacts list with the **Go To** field and the first Contacts entry highlighted.
2. Find the Contacts entry to which you want to add the new number. See “*Finding a Contacts Entry*” on page 37 for more information.
3. Press . The following number type options appear in the display:



Number types that are already assigned a number show the number instead of the number type label.

4. Select the desired unassigned number type. The Contacts entry information appears in the display with the new number posted in the appropriate number type field.

5. Press **OK** again to save your changes to the existing entry.

Speed Dial

A Contacts entry's Speed Dial number corresponds to the number keys you press to speed dial one of that entry's numbers. For example:

- To speed dial the Contacts entry assigned to Location 5, press and hold **SJKL**, (1-touch dialing).
- To speed dial the Contacts entry assigned to Location 35, press **DEF** then press and hold **SJKL**, (2-touch dialing).
- To speed dial the Contacts entry assigned to Location 235, press **RBC**, press **DEF**, then press and hold **SJKL** (3-touch dialing).

You can assign one or more Speed Dial numbers to a Contacts entry during new entry creation or by editing an existing entry.

Assignment During Entry Creation

To assign a Speed Call number to a new Contacts entry number, do the following:

1. Follow either of the New Contacts entry procedures (see *"Adding a New Contacts Entry"* on page 38) until you enter a name for the entry.
2. After entering the Contacts entry name, **do not press OK**. Highlight the number field.

3. Press the **Options** soft key. The following options appear in the display:

- **Set Speed Dial** — Assign a speed dial number.
- **Set as default** — Set the number the phone will dial when Contacts dialing, speed dialing, or voice dialing.
- **Wait** — A hard pause (waits for input from you).
- **2-Sec Pause** — A 2-second pause after which dialing resumes (see *"Add Pauses to Contacts Numbers"* on page 40. for more information).


Select **Set Speed Dial**. The **Speed Dial** screen appears in the display.

4. Highlight an **Unassigned** Speed Dial number or enter an **Unassigned** Speed Dial number in the **Go To** field using the keypad.


Important! Do not enter Speed Call numbers 1 or 911. These numbers are already assigned to Voicemail (001) and to emergency use (911).

5. Press **SET** (**OK**). You are prompted to confirm your Speed Dial number assignment.
6. Press the **Yes** soft key to save your Speed Dial assignment and return to the **Add New Entry** screen.

Note: Press the **No** soft key to discard the assignment and return to the **Speed Dial** screen.

7. Press  to save your changes.

Changing a Speed Dial Location

1. Find the Contacts entry you want to edit. See “*Finding a Contacts Entry*” on page 37 for more information.
2. Highlight the desired entry, then press the **Edit** soft key.
3. Highlight the number field marked by the Speed Dial icon () , then press the **Options** soft key. The following options appear in the display:
 - **Remove speed dial** — Unassign the current speed dial number.
 - **Set as default** — Set the number the phone will dial when Contacts dialing, speed dialing, or voice dialing.
 - **Wait** — A hard pause (waits for input from you).
 - **2-Sec Pause** — A 2-second pause after which dialing resumes (see “*Add Pauses to Contacts Numbers*” on page 40 for more information).

Select **Remove speed dial**. “**Remove Speed Dial?**” pops up in the display to confirm your desire to remove the entry.

4. Press the **Yes** soft key to remove the Speed Dial assignment. “**Speed Dial Removed**” pops up in the display, and you are returned to the **Edit Contact** screen.
5. Do steps 3 through 7 of the “Assignment During Entry Creation” procedure on page 44.

Contacts Groups

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

Add Contacts Entry to a Group


Using Add New/Edit Contact Option

To add a Contact to a Group using either the Add New Contact option or the Edit Contact option, do the following:

1. Create a Contacts entry (see “*Adding a New Contacts Entry*” on page 38 for more information) or find a Contacts entry (see “*Finding a Contacts Entry*” on page 37 for more information) that you want to add to a Group.
2. Highlight the **Group** field, then press the **Set** soft key. The Select Group screen appears in the display showing Groups similar to the following:

- No Group
 - Business
 - Colleague
 - Family
 - Friends
3. Select the Group to which you want to assign the new Contact.

You are returned to the **Add New Entry/Edit Contact** screen and the selected Group name populates the **Group** field.

4. Press  to save your changes.

Using Group Add Option

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

1. In standby mode, press **Menu** () , then select **Contacts** → **Group**.

The **Group List** screen appears in the display showing Groups similar to the following:


- No Group
- Business
- Colleague
- Family


- Friends
2. Highlight a Group, then press the **Options** soft key. The following options popup in the display:

- Send Txt Msg
- Send Pic Msg
- Rename
- Erase
- Add

3. Select **Add**. The **Add Contacts** screen appears in the display showing a list of Contacts entries.

4. Do one of the following:



- Highlight an entry you want to add to the group, then press **MARK** (). A check mark appears in the entry's checkbooks. Repeat as needed to check all the desired Contacts.
- Press the **Mark All** soft key.

Note: To unmark a marked Contact, highlight the Contact and press **MARK** () to clear the chicanery.

5. When you have marked the Contacts you want to add to the group, press the **Done** soft key. “**Contact added to group**” appears in the display, followed by the selected Group list including the added Contacts.



Rename a Group

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

1. In standby mode, press **Menu** () , then select **Contacts** → **Group**. The **Group List** screen appears in the display.
2. Highlight the Group name other than **No Group** that you wish to change, then press the **Options** soft key. The following options popup in the display:
 - **Send Txt Msg**
 - **Send Pic Msg**
 - **Rename**
 - **Erase**
 - **Add**
3. Select **Rename**. The **Rename Group** screen appears in the display.
4. Enter changes to the group name using the keypad. (For more information, refer to “*Entering Text*” on page 33.)
5. When you have completed your changes to the Group name, press **SAVE** ().
“**Group Renamed**” appears in the display followed by the Group List screen showing your renamed Group.

Add a New Group

The New option lets you add Groups.

1. In standby mode, press **Menu** (), then select **Contacts** → **Group**. The **Group List** screen appears in the display.
2. Press the **New** soft key. The **New Group** screen appears in the display.
3. Enter a new group name using the keypad. (For more information, refer to “*Entering Text*” on page 33.)
4. When you have completed entering the new Group name, press **SAVE** (). “**Group Saved**” appears in the display followed by the Group List screen showing your new Group.

Erase a Group

The **Erase** option lets you delete a Group, thus freeing you to reassign the Contacts formerly in the Group.

1. In standby mode, press **Menu** (OK), then select **Contacts** → **Group**. The **Group List** screen appears in the display.
2. Highlight the Group that you wish to delete, then press the **Options** soft key. The following options popup in the display:
 - **Send Txt Msg**
 - **Send Pic Msg**
 - **Rename**
 - **Erase**
 - **Add**
3. Select **Erase**. You are prompted to confirm the Group erasure.
4. To confirm erasure of the highlighted Group, press the **Yes** soft key. To retain the Group, press the **No** soft key.

Deleting a Contacts Entry

1. Find the Contacts entry you want to delete. (See “*Finding a Contacts Entry*” on page 37 for more information.)

2. Highlight the desired entry, then press the **Options** soft key. The following options appear in the display:
 - **New Contact**
 - **Erase**
 - **Send Txt Msg**
 - **Send Pic Msg**
 - **Call**
 - **Send Name Card Via Bluetooth**
3. Select **Erase**. The phone prompts you to confirm the erasure.
4. To confirm erasure of the selected Contact, press the **Yes** soft key. To retain the Contact, press the **No** soft key.

Memory Info

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

- ▶ In standby mode, press **Menu** (OK), then select **Contacts** → **Memory Info**.

The **Memory Info Contacts** screen appears in the display showing the amount of memory Used and remaining (Free) for Contacts entries.

Section 7: Messaging

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

Note: Although the procedures in this section are written for the phone keypad, you can also perform these procedures using the QWERTY keypad.


Types of Messages


Your phone is able to send and receive Text and Picture messages to compatible phones and devices. Text messages can be up to 160 characters in length.

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

Create and Send Text Messages

1. In standby mode, press the Messages shortcut (Up navigation) key, then select **Send Message → Text Message**. The **Create Txt Msg** screen appears in the display showing the **To:** list.

Tip: To launch the **Create Txt Msg** screen using a voice command — In standby mode, press and hold  until the phone prompts, “**Say a command.**” Say “**Send Text**” into the microphone. You are then prompted to say a Contact name or a number for the first recipient of the message.

2. Enter the phone number or e-mail address of the recipient, then press . The **Text:** appears in the display.
3. Enter the text content of your message using the keypad. (For more information, refer to “*Entering Text*” on page 33.)

At any point while composing a message:

- Press the **Options** soft key to complete the message text and set message send options. The following options appear in the display:
 - **Preset Msgs** — Insert pre-composed text in your message.
 - **Save As Draft** — Save the message to your Draft folder.
 - **Save As Preset** — Save the text in this message as a new Preset Msg.
 - **Add To Contacts** — Save the recipient’s number or e-mail address as a Contacts list entry.
 - **Delivery** — Request a Msg Receipt, set delivery Priority, add your Callback number (CB#), and/or add Signature text.

- **Cancel Msg** — Prompts you to save this message as a Draft, then closes the **Create Txt Msg** screen.

4. Once you're finished entering your message, press .


Receive Text Messages

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

- **View Now** — Opens the message, where you have the option to Forward, Reply With Copy, Save Quick Text, Lock, Add To Contacts, Message Info, or Extract.
- **View Later** — Saves the message to your inbox, where you can view it later, then returns your phone to standby mode.

Select your choice.

Receive Messages While in a Call

When you receive a message while in a call, **New Message** appears in the display along with the closed envelope icon (). The date and time of the message also appear in the display along with the following options:

- **View Now** — Opens the message, where you have the option to Forward, Reply With Copy, Save Quick Text, Lock, Add To Contacts, Message Info, or Extract.



- **View Later** — Saves the message to your inbox, where you can view it later, and returns your phone to call mode.

Select the desired option.


Send Picture Messages in Camera Mode

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

Tip: You can send a Picture message to up to ten recipients. Enter each recipient's address or phone number in a separate **Send to** field of the Picture message composer.

1. In standby mode, press and hold the Camera-Music Player key (). The camera viewfinder screen appears in the display.
2. Using the display as a viewfinder, when the image that you wish to send appears in the display, press **TAKE** () to take a picture. "**Picture saved**" pops-up in the display and you are returned to the Camera viewfinder screen.

Note: For more information about using the camera feature in your phone, see "*Camera*" on page 65.

3. Press the **My Images** soft key. A thumbnail view of your new photo appears in the display with up to three thumbnails of other images.
4. Press the Options soft key, then select **Send**. The **Send** menu appears in the display.
5. Select **Picture Message**. The **Create Pic Msg** screen then appears in the display with the **Send To** list highlighted.
6. Enter the phone number or e-mail address of the recipient of the Picture message, then press .

Tip: Press the **Add** soft key to display a pop-up menu containing: **Contacts**, **Groups**, and **Recent Calls**. These options allow you to find and add recipients to the **Send To** list.

7. The **Subject:** field appears in the display. Enter a subject for the Picture message using the keypad. (For more information, refer to “*Entering Text*” on page 33.)
8. Press the Down navigation key until the **Text:** field is highlighted, then enter the message text using the keypad. (For more information, refer to “*Entering Text*” on page 33.)
9. Your new picture appears in the **PIC:** field.

10. If you wish to insert a sound into your Picture message, use the Down navigation key to highlight the **Sound:** field and do the following; otherwise, proceed to step 10.

- Press the **Sounds** soft key. The **My Sounds** screen appears in the display showing the following options:
 - **Record New** — Record a new memo to insert into the message.

Note: You can record and insert a voice memo of up to 60 seconds in length, if you record first before attaching a picture. If a picture is attached before recording, the size of the voice memo is limited to the amount of remaining memory.

- **Audio files list** — Select from the list of previously recorded voice memos and preloaded audio files on your phone.


Select an option and select the desired sound file to be inserted into your message.

11. Press the **Options** soft key to complete the message text and set message send options. The following options appear in the display:

- **Preview** — View the picture as the recipient will see it.
- **Add Preset Msg** — Add pre-composed text to your message.
- **Save As Draft** — Save the message to your Draft folder.
- **Priority Level** — Choose **Urgent** or **Normal**.
- **Validity Period** — Enter the **Date** when this message will cease to be valid, then use the Left and Right navigation keys to choose the **Time**.

- **Delivery Ack** — Choose **On** or **Off** — Requests confirmation when your message is received.
- **Remove Pic** — Remove the picture from your message.
- **Remove Sound** — Remove the sound file from your message.
- **Add To Contacts** — Save the recipient's number or e-mail address as a Contacts list entry.

Select an option.


12. Press  to send the message. “**Pic Msg Sending**” appears in the display and a progress bar indicates the send status.


Send Picture Messages in Standby Mode

Send Picture messages to recipients with a compatible phone or other device, and accompany the Picture message with a voice memo, ring tone, or downloaded melody.

Tip: You can send a Picture message to up to ten recipients. Enter each recipient's address or phone number in a separate **Send To** field of the Picture message composer.

1. In standby mode, press the Messages shortcut (Up navigation) key, then select **Send Message → Picture Message**. The **Create Pic Msg** screen then appears in the display with the **Send To** tab highlighted and showing the **To:** list.

Tip: To launch the **Create Pic Msg** screen using a voice command — In standby mode, press and hold  until the phone prompts, “**Say a command.**” Say “**Send Picture**” into the microphone. You are then prompted to say a Contact name or a number for the first recipient of the message.

2. Enter the phone number or e-mail address of the recipient using the keypad, then press .


Tip: Press the **Add** soft key to display a pop-up menu containing: **Contacts**, **Groups**, and **Recent Calls**. These options allow you to find and add recipients to the **Send To:** list.

3. The **Subject:** field appears in the display. Enter a subject for the Picture message using the keypad. (For more information, refer to “*Entering Text*” on page 33.)
4. Press the Down navigation key until the **Text:** field is highlighted, then enter the message text using the keypad. (For more information, refer to “*Entering Text*” on page 33.)
5. Press the Down navigation key until the **Pic:** field is highlighted, then press the **My PIC** soft key. A photo gallery of thumbnail images appears in the display.

6. Use the navigation keys to highlight a picture to be added to your message, then do the following:

- If you want, press the **View** soft key to expand the highlighted picture to full-screen size.
- If you want to include a new picture, press the **Camera** soft key.

Note: For more information about using the camera feature in your phone, see “*Camera*” on page 65.


- Press  to add the highlighted picture to your message. You are returned to the **Create Pic Msg** screen with the selected picture in the **Pic:** field.

7. If you wish to insert a sound into your Picture message, use the Down navigation key to highlight the **Sound:** field and do the following; otherwise, proceed to step 8.

- Press the **Sounds** soft key. The **My Sounds** screen appears in the display showing the following options:
 - **Record New** — Record a new memo to insert into the message.

Note: You can record and insert a voice memo of up to 60 seconds in length, if you record first before attaching a picture. If a picture is attached before recording, the size of the voice memo is limited to the amount of remaining memory.


- **Audio files list** — Select from the list of previously recorded voice memos and preloaded audio files on your phone.

- Select and insert a sound into your message.
- Press  to exit the pop-up menu without inserting a sound.

8. Press the **Options** soft key to complete the message text and set message send options. The following options appear in the display:

- **Preview** — View the picture as the recipient will see it.
- **Add Preset Msg** — Add pre-composed text to your message.
- **Save As Draft** — Save the message to your Draft folder.
- **Priority Level** — Choose **Urgent** or **Normal**.
- **Validity Period** — Enter the **Date** when this message will cease to be valid, then use the Left and Right navigation keys to choose the **Time**.
- **Delivery Ack** — Choose **On** or **Off** — Requests confirmation when your message is received.
- **Remove Pic** — Remove the picture from your message.
- **Remove Sound** — Remove the sound file from your message.
- **Add To Contacts** — Save the recipient’s number or e-mail address as a Contacts list entry.

9. Select an option to perform its function.

10. Press **SEND** () to send the message. “**Pic Msg Sending**” appears in the display and a progress bar indicates the send status.

Receive Picture Messages

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

- **View Now** — Retrieves and opens the message, where you have the option to Reply, Forward, Delete, Save Text, Save Pic, or Save Msg.
- **View Later** — Saves the message to your inbox, where you can view it later, then returns your phone to standby mode.

Select the desired option.

View a Picture Message Now

1. After you select the **View Now** option, “**Connecting**” appears in the display followed by “**Retrieving**” and a progress bar indicating that the message is downloading to your phone.
2. After the Picture message has downloaded, an alert sounds, and the new Picture message appears in the display. If the message includes a sound file, the phone begins playing it.
3. While viewing your message press the **Options** soft key. The following options appear in the display:

- **Play Again** — Play the sound file included in the picture message again.
 - **Forward** — Send a copy of this message to another recipient.
 - **Erase** — Discard (delete) this message.
 - **Save Pic** — Save the picture included in this message to the My Images folder.
 - **Save Sound** — Save the sound file included in this message to the My Sounds folder.
 - **Save Quick Text** — Save the text in this message as a new Quick Text.
 - **Lock / Unlock** — Block/permit erasure of the highlighted message.
 - **Add To Contacts** — Save the sender's number to your Contacts.
 - **Message Info** — Shows message delivery status, addressee, size, and so on.
 - **Extract** — Calls the sender of the received message.
4. Select an option to perform its function.

Note: For more information on received picture message options, see “*Inbox*” on page 55.

View a Picture Message Later

1. In standby mode, press the Messages shortcut (Up navigation) key, then select **Inbox**. The Inbox appears in the display.

2. If the new picture message is not highlighted, use the Up and Down navigation keys to highlight the new message.
3. Press **View** (📄). “**Connecting**” appears in the display followed by “**Retrieving**” and a progress bar indicating that the message is downloading to your phone.
4. Once a Picture message has been downloaded to your phone, the new Picture message appears in the display. If the message includes a sound file, the phone begins playing it.

Note: For more information on viewing and managing received picture messages, see “*Inbox*” on page 55.

Message Boxes

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

Inbox

Received messages of all types (except Voicemail) are stored in the **Inbox**.

1. In standby mode, press the Messages shortcut (Up navigation) key, then select **Inbox**. The Inbox appears in the display.

Tip: While in a call, press the **Options** soft key, then select **Messages** → **Inbox**.

2. Select the message that you wish to view.
3. While viewing your message, press the **Options** soft key.

The following options appear in the display:

- **Play Again** — Picture Messages Only — Play the sound file included in the picture message again.
 - **Forward** — Send a copy of this message to another recipient.
 - **Reply With Copy** — Compose and send a reply message to the originator of the received message and include a copy of the original message.
 - **Erase** — Delete this message from the Inbox.
 - **Save Pic** — Picture Messages Only — Save the picture included in this message to the My Images folder.
 - **Save Sound** — Picture Messages Only — Save the sound file included in this message to the My Sounds folder.
 - **Save Quick Text** — Save the text in this message as a new Quick Text.
 - **Lock / Unlock** — Block/permit erasure of the highlighted message.
 - **Add To Contacts** — Save the sender’s number to your Contacts.
 - **Message Info** — Shows message delivery status, sender, size, and so on.
 - **Extract** — Calls the sender of the received message.
4. Select an option to perform the function for that option.

Managing Inbox Messages

1. In standby mode, press the Messages shortcut (Up navigation) key, then select **Inbox**. The Inbox appears in the display.
2. Highlight a message in the list.
3. Press the **Erase** soft key to remove the highlighted message from the Inbox.

– or –

Press the **Options** soft key. The following options appear in the display:

- **Reply** — Compose and send a reply message to the originator of the received message.
- **Reply With Copy** — Text Message Only — Compose and send a reply message to the originator of the received message along with a copy of the original received message.
- **Forward** — Send a copy of this message to another recipient.
- **Lock / Unlock** — Block/permit erasure of the highlighted message.
- **Add To Contacts** — Save the sender's number to your Contacts.
- **Erase Inbox** — Delete all unlocked messages from the Inbox.
- **Message Info** — Shows message delivery status, addressee, size, and so on.

Select an option to perform the function for that option.

Outbox

Your phone stores messages in the Outbox, regardless of whether the message was successfully transmitted. Verify if and when a message or e-mail was successfully received by enabling the Enh. Delivery Ack/Delivery Ack feature.

Review Messages in the Outbox

1. In standby mode, press the Messages shortcut (Up navigation) key, then select **Outbox**. Your list of sent messages appear in the display.

Tip: While in a call, press the **Options** soft key, then select **Messages** → **Outbox**.

2. Select the message that you wish to view.
3. While viewing your message press the **Options** soft key.

The following options appear in the display:

- **Play Again** — Picture Messages Only — Play the sound file included in the picture message again.
- **Erase** — Delete this message from the Outbox.
- **Forward** — Send the highlighted message to another recipient.
- **Lock / Unlock** — Block/permit erasure of the highlighted message.
- **Save Quick Text** — Save the message text as Quick Text for insertion into other messages.

- **Add To Contacts** — Save the recipient's number to your Contacts.
- **Message Info** — Shows message delivery status, addressee, size, and so on.
- **Extract** — Call the recipient of this message.

4. Select an option to perform the function for that option.

Messages and Lock Mode

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

Managing Outbox Messages

1. In standby mode, press the Messages shortcut (Up navigation) key, then select **Outbox**. Your list of sent messages appear in the display.
2. Highlight a message.
3. Press the **Erase** soft key to remove the highlighted message from the Inbox.

– or –

Press the **Options** soft key. The following options appear in the display:

- **Forward** — Send the highlighted message to another recipient.

- **Resend** — Re-send the highlighted message to the original recipient.
- **Lock / Unlock** — Block/permit erasure of the highlighted message.
- **Add To Contacts** — Save the recipient's number to your Contacts.
- **Erase Outbox** — Delete all unlocked messages from the Outbox.
- **Message Info** — Shows message delivery status, addressee, size, and so on.

Select an option to perform the function for that option.

Draft Box

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

Create a Draft Message

1. In standby mode, press the Messages shortcut (Up navigation) key, then select **Send Message** and one of the following Send Message options:

- **Text Message**
- **Picture Message**

The **Create Txt Msg** screen or **Create Pic Msg** screen appears in the display showing the **To:** list.

2. Enter the phone Number or E-Mail address of a recipient, then press **OK**.
3. Compose your message using the keypad, then press the **Options** soft key.
4. Select **Save As Draft**. A confirmation message appears in the display and your message is saved to the Drafts box.

View and Edit Draft Text Messages


1. In standby mode, press the Messages shortcut (Up navigation) key, then select **Drafts**. A list of any draft messages that you've saved appears in the display.
2. Highlight a text message that you wish to view or edit, then press **EDIT** (**OK**). The message text edit screen appears in the display.
3. Enter or change the recipient's number and/or e-mail address and the message text using the keypad. (For more information, refer to "Entering Text" on page 33.)
4. Press the **Options** soft key to complete the message text and set message send options. The following options appear in the display:
 - **Preset Msgs** — Insert pre-composed text into your message text.

- **Save As Draft** — Save the message to your Drafts box.
- **Save As Preset** — Save text of this message as Preset Msg.
- **Add To Contacts** — Save the recipient's number or e-mail address to your Contacts.
- **Delivery** — Request a Msg Receipt, set delivery Priority, add your Callback number (CB#), and/or add Signature text.
- **Cancel Msg** — Prompts you to save this message as a Draft, then closes the **Create Txt Msg** screen.

5. Select an option to perform the function for that option.
6. When you have completed composing your message, press **OK** to send it.

View and Edit Draft Pic. Messages

1. In standby mode, press the Messages shortcut (Up navigation) key, then select **Drafts**. A list of any draft messages that you've saved appears in the display.
2. Highlight the picture message that you wish to view, then press **EDIT** (**OK**). The message edit screen appears in the display.
3. Make any needed changes and press the **Options** soft key. The following options appear in the display:
 - **Preview** — Shows the message contents.

- **Add Preset Msg** — Insert pre-composed text into your message text.
 - **Save As Draft** — Saves the changed message to the Draft Box.
 - **Priority Level** — Choose **Urgent** or **Normal**.
 - **Validity Period** — Enter the **Date** when this message will cease to be valid, then use the Left and Right navigation keys to choose the **Time**.
 - **Delivery Ack** — Choose **On** or **Off** — Requests confirmation when your message is received.
 - **Remove Pic** — Remove image included in draft message.
 - **Remove Sound** — Remove sound file included in draft message.
 - **Add To Contacts** — Save the recipient's number or e-mail address to your Contacts.
4. Select an option to perform the function for that option.
 5. When you have completed composing your message, press  to send it.

Managing Draft Messages

1. In standby mode, press the Messages shortcut (Up navigation) key, then select **Drafts**. A list of any draft messages that you've saved appears in the display.
 2. Highlight a message, then press the **Erase** soft key to remove the highlighted message from the **Drafts** box.
- or –

Press the **Options** soft key. The following options appear in the display:

- **Send** — Send the highlighted message to the original recipient, if the recipient's number and/or e-mail address is included with the draft message.
 - **Lock / Unlock** — Block/permit erasure of the highlighted message.
 - **Add To Contacts** — Save the recipient's number and/or e-mail address to your Contacts.
 - **Save Quick Text** — Save the message text as Quick Text for insertion into other messages.
 - **Erase Drafts** — Delete all unlocked draft messages.
3. Select an option to perform the function for that option.

Voicemail

Messages in your voice mailbox are logged in the Voicemail box of the **Messages** menu. Open the Voicemail box to view the **Callback #** (if available), **Urgency**, and other details of the Voicemail message.

Listen to Voicemail Now

Once you've received a new voicemail message, you have the option to either:

- **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 your mailbox and review your messages.



- ▶ Select the desired option.


Listen to Voicemail Now

When you choose to review your new voicemail message(s) right away, your phone calls your voice mailbox so that you can listen to the message(s). (For more information, refer to “Listen to Voicemail” on page 7.)

Listen to Voicemail Later

If you have chosen to review your voicemail messages at a later time:

1. In standby mode, press the **Messages** shortcut (Up navigation) key, then select **Voicemail**. The Voicemail screen appears in the display, showing the number of new voicemail messages received and the date and time the latest message was received.
2. Press  or  to call your voice mailbox and listen to the message.

Note: From standby mode, you can press and hold  to dial your voice mailbox.

Erase Messages

You can erase all of the messages in each your boxes from one convenient location.

Note: This function erases all messages in the selected box. To delete a single message, open the box from the **Messages** menu, then delete the message from the **Options** menu while viewing the message content.

1. In standby mode, press the **Messages** shortcut (Up navigation) key, then select **Erase Messages**. The following options appear in the display:
 - **Inbox** — Deletes all unlocked messages stored in the Inbox.
 - **Outbox** — Deletes all unlocked messages stored in the Outbox.
 - **Drafts** — Deletes all unlocked messages stored in the Drafts box.
 - **All Messages** — Deletes all unlocked messages stored in all of the message boxes, except Voicemail.
2. Select the box containing the messages that you wish to delete. You're prompted to confirm the erasure of all messages in the selected box or in all boxes.
3. To delete the messages, press the **Yes** soft key. To cancel deleting the messages, press the **No** soft key.

Message Settings

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

1. In standby mode, press the Messages shortcut (Up navigation) key, then select **Msg Settings**.

The following options appear in the display:


- **Notification** — Choose to be advised of newly received messages by an on-screen message and icon or by an icon only.
- **Auto Save** — Choose whether your messages are saved automatically when you exit them (**Auto Save, Do not save, Prompt**).
- **Auto Erase** — Choose to receive (**On**) or not receive (**Off**) a warning message when you delete a message.
- **Auto View** — On/Off — With Auto View **On**, the full content of a text message appears in the display as the messages is received.
- **Entry Mode** — Choose the default method for entering text into messages (**T9 Word, Abc, ABC, 123**).
- **CB#** — Choose whether to include a callback phone number with your outgoing messages, and enter the number to be included.
- **VM#** — Edit or view your Voicemail number.
- **Signature** — Choose whether to include a text signature in outgoing message text, and enter the text to be included.
- **Preset Msgs** — **Erase, EDIT**, or add **New** Preset Msgs.

- **Auto Scroll** — On/Off — With Auto Scroll **On**, the full content of a text message automatically rolls upward on the display, one screen-full at a time.
 - **Messaging Font Size** — Set the messaging font size to **Large** or **Normal**.
2. Select an option to perform the function for that option.

Section 8: Browser

This section outlines how to launch Browser, how to navigate to other pages on the web, and how the keys on the keypad are used with the web application. Additionally, links to other sites are briefly discussed.

Browser

With Browser, you can conveniently surf the web and download ringtones and wallpapers using your phone. Each time you launch Browser, your phone connects to the Internet and the service indicator icon () appears in the display.

Stored Web Content

Browser ends an Internet connection after a certain period of inactivity, however some information from your session remains stored in the phone (if you leave your phone turned on). You can access this information without reconnecting to the Internet. However, if you are viewing stored information, and you select a link to a site that was not accessed in your last session, you automatically re-connect to the Internet.

Launching Browser



1. Open the QWERTY keypad.

Note: The **Browser** is only accessible using the QWERTY keypad.



2. In standby mode, do one of the following to launch

Browser:


- Press the Left navigation key.
- Press **Menu**, then select **Browser → Go to Web**.

Note: The first time you launch Browser, the warning message “**Browse & Download use airtime.**” pops up in your display. To have this message repeat the next time you launch Browser, press **Continue** () . To stop this message repeating, press **Remove** () .

A list of categories (each representing one or more web sites) appears in the display.

3. Use the navigation keys to browse the categories.
4. Once the desired category is highlighted, press  () to enter the category list.

Exit Browser

- ▶ Press  to exit **Browser**.

Using Browser



When you use Browser, some of the keys operate differently than during a normal phone call.

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


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

You can act upon options or links by using the soft keys.

Browser soft keys

The bottom of the Browser display is a bar that contains browser commands. The Left and Right ( ) soft keys on the QWERTY keypad are used to execute the command that appears above them in the display. These are called “soft keys” because their function changes depending on the application.

Using Links

Links have several purposes, such as jumping to a different page, to a different site, or even initiating a phone call. Links are shown inside of brackets ([]). You can normally use the Left soft key () to select a link when it is highlighted.

How Browser Keys Work

The following table lists Browser keys and their functions.



Navigation keys — Use to browse lists and options.



BACK Key — A browse, back-up key. Press once to back up one page. Press and hold to go back to home page. Press to clear the last number, letter, or symbol entered. Press and hold to completely clear the display.



Shift Key — Press before entering text to enable uppercase characters.



Last Key — Press to enter a zero (0), or to move to the last item in a menu.



Pound/Space Key — Press to insert a space when entering text.



Number 1 through 9 — Use the number keys to select items in a menu if they are numbered.



End Key — Press to exit the Browser and return the phone to standby mode.



Left Soft Key — Press to activate the command that appears above it in the display.



Right Soft Key — Press to activate the command that appears above it in the display.

Section 9: Games & Apps

This section explains the Games & Apps features where users can download multimedia, applications, games, and check news and sports.

Finding Applications

With Games & Apps, you can download full featured applications over the air including games, personalized ring tones, pictures, and more.

1. Open the QWERTY keypad.

Note: Games & Apps is only accessible using the QWERTY keypad.

2. In standby mode, do one of the following to launch **Games & Apps**:
 - Press the Right navigation key.
 - Press **Menu**, then select **Games & Apps** → **Games & Apps**.

Note: The first time you launch Games & Apps, the warning message “**Browse & Download use airtime.**” pops up in your display. To have this message repeat the next time you launch Games & Apps, press **Continue** (OK). To stop this message repeating, press **Remove** (soft).

The Games & Apps screen appears in the display with the **Games & Apps** icon (🛒) highlighted. You have the following options:


- Press **OK**. The **Games & Apps** menu appears in the display. You can use the items in this menu to browse or search for, purchase, and download applications.
- Use the navigation keys to select an application on your phone that you wish to launch.

Section 10: Camera

Use your The r450 phone to take full color digital pictures, display them on your phone's vivid color display, and instantly share them with family and friends. It's fun, and as easy to use as a traditional point-and-click camera. This section explains how you can do the following:

- Take pictures with your phone's built-in digital camera.
- Send and receive pictures taken with your phone's camera.
- Set the several options associated with the camera that help you take crisp, clear pictures.

Activating Your Camera

1. In standby mode, press and hold the Camera-Music Player key () on the right side of the phone.

Note: You can also activate the camera by pressing **Menu**, then selecting **Multimedia** → **Camera**.

The message "**Loading**" appears in the display followed by a camera view finder screen. (For more information, refer to "*Camera Screen Layout*" on page 67.)





Your phone is now in camera mode.


Taking Pictures

Taking pictures with the built-in camera is as simple as choosing a subject, pointing the lens (located on the rear of your phone, at the top), and pressing a button.

Taking Snap Shots (Single Pictures)

To take a single picture using the current camera settings, do the following:

1. In camera mode, point the camera lens at your subject.
2. When the image that you wish to capture appears in the display, press **TAKE** () or  . The soft keys change giving you the following options:

- Save your new photo by pressing the **Save** soft key.
- Save your new photo and include it as part of a Picture message by pressing **SEND** ().
- Discard your new photo by press the **Erase** soft key.

Press the desired key, and you are returned to the Camera viewfinder screen.

3. To view the new picture, press the **My Images** soft key. A thumbnail image of your new photo appears in the display along with any other thumbnail images, if available.

To enlarge the picture, highlight it and press **VIEW** (OK).

4. To erase the new picture, highlight it and do the following:
 - Press the **Options** soft key, then select **Erase**. You are prompted to confirm that you want this photo erased.
 - To erase this photo, press the **Yes** soft key. To retain this photo, press the **No** soft key.
 - To return to the camera viewfinder screen, press the **Camera** soft key.

Taking Multi Shot Pictures

When taking pictures of moving subjects or subjects you cannot pose, such as children and pets, the camera's Multi Shot mode simplifies the process of taking multiple pictures in quick succession. After taking Multi Shot pictures, the camera automatically displays thumbnail views of the pictures you have just taken so you can select the best picture(s) and discard the rest.

1. In camera mode, press the **Options** soft key. The options menu bar appears in the display with the **Self Timer** icon (🕒) highlighted.



2. Use the Left/Right navigation keys to highlight the **Multi Shot** icon (📷).

The following **Multi Shot** options appear in the display:

- **Off** — Lets you take one photo each time you press **TAKE** (OK).
 - **On** — Lets you take a series of three photos each time you press **TAKE** (OK).
3. When you select **On**, the Series Shot progress bar (📷 0/3) appears in the display.

Tip: You can change a number of the camera's settings to suit particular uses for your pictures. (For more information, refer to "Camera Options" on page 69.)

4. Using the display as a viewfinder, point the camera lens in the back of your phone at your subject.
5. When the image that you wish to capture appears in the display, press **TAKE** (OK). The camera takes three pictures in quick succession, then displays the pictures for your approval, each with a check mark in its check box.

The soft keys change giving you the following options:

- To save all of the photos, press the **Done** soft key.
- To save some of the photos and discard the rest, use the Navigation key to highlight each photo you want to discard and press  to unmark it, then press the **Done** soft key to save the marked photo(s).
- To discard all of the photos, press .

You are returned to the Camera viewfinder screen.

6. To view the new pictures, press the **My Images** soft key.

Thumbnail images of your new photos appear in the display along with another thumbnail image, if available.

To enlarge a picture, highlight it and press **VIEW** (.


7. To erase the new pictures, highlight each new photo in turn and do the following:

- Press the **Options** soft key, then select **Erase**. You are prompted to confirm that you want this photo erased.
- To erase this photo, press the **Yes** soft key. To retain this photo, press the **No** soft key.
- To return to the camera viewfinder screen, press the **Camera** soft key.

Camera Screen Layout

When you activate your phone's camera, the second line of the display is reserved for the current camera resolution setting and the picture counter. The center of the display shows a viewfinder image of the subject at which the camera is pointed. The soft key labels on the bottom line of the display change to the following:



- **My Images** — Pressing the **My Images** soft key opens the **My Images** multimedia folder so you can view or manage your stored pictures. (For more information, refer to “*The Photo Gallery*” on page 73.)
- **TAKE** — Pressing **TAKE** () takes a picture of the image currently appearing on the display.
- **Options** — Pressing the **Options** soft key opens a menu bar of camera options and settings.

Camera Screen Icons


Your camera displays status icons as shown.




Camera — Indicates the camera is active.





Night Shot — Indicates the camera is set to take pictures in low light.


 **Quality** — Indicates camera's picture quality setting. (You can change the picture quality setting. For more information, refer to “Quality” on page 70.)



 **Camera Resolution** — Indicates camera's current resolution setting. (You can change the camera resolution setting. For more information, refer to “Camera Options” on page 69.)



 **Brightness** — Brightens or darkens the image from -4 to +4.

 **Zoom** — Enlarges the image from X0 to X9 before you take a picture. (Depending on the camera resolution setting.)


 **Photo Limit** — Indicates the available number of photos you can take. (Depending on the camera resolution setting.)

 **White Balance** — Indicates camera's white balance setting. (You can change the camera white balance setting. For more information, refer to “White Balance” on page 70.)

 **Self Timer in use** — Delays the camera shutter from 2 to 10 seconds after you press .

 **Memory** — Indicates where new photos will be stored: in the phone (as shown) or on an optional Memory Card (). (For more information, refer to “Memory Card (Optional)” on page 7.)





Multi Shot in use — Takes three pictures when you press **TAKE** (.

Saving Pictures


After you've taken a picture, it is automatically saved in the **My Images** folder, which is a part of your phone's memory (and that of an optional Memory Card, if installed) that is devoted to storing, browsing, and viewing saved pictures.

You can do the following with your saved pictures:

- **Enlarge a picture for better viewing** by pressing **VIEW** (). (To return to the thumbnail image, press **VIEW** () again.)
- **Send a picture** to someone else by pressing the **Options** soft key, then selecting **Send**.
(For a detailed procedure, refer to “Send Picture Messages in Camera Mode” on page 50.)
- **Discard a picture** by pressing the **Options** soft key, then selecting **Erase**. (You are prompted to confirm your erasure of the picture.)


Camera Options


The Camera Options let you adjust the default camera settings to suite available lighting, the subject of the photo, or the purpose of the photo. To access Camera Options, do the following:


1. In camera mode, press the **Options** soft key. The following sub-menus appear in the display:
 - **Self Timer**
 - **Multi Shot**
 - **Quality**
 - **Resolution**
 - **White Balance**
 - **Color Effects**
 - **Settings**
 - **Memory**
 - **Shutter Sounds**
 - **Reset Settings**
 - **Night Shot**
 - **Auto Save**
2. Highlight the desired option and/or setting value, then press  to save the selected value.

Self Timer

Self Timer lets you delay taking a picture long enough to let you join others in a picture.

1. In camera mode, press the **Options** soft key and select **Self Timer**. Highlight one of the following **Self Timer** options:
 - **Off**
 - **2 Seconds**
 - **5 Seconds**
 - **10 Seconds**
2. Press . If you select **2 Seconds**, **5 Seconds**, or **10 Seconds**, the Self Timer icon appears in the camera screen in the display.


The next time you press , the countdown timer indicates the time remaining before the camera takes the picture. The phone reads the countdown timer value beginning with two or three and continuing to zero, when the picture is taken.


Tip: To stop the countdown timer without resetting it, press the  key.

Multi Shot

Multi Shot lets you take three pictures in succession at the touch of a key.

1. In camera mode, press the **Options** soft key, then select **Multi Shot** and one of the following Multi Shot options:
 - Off
 - On
2. Select the desired option setting.


Note: When a Multi Shot option is set to **On**, the Series Shot progress bar ( 0/3) appears in the viewfinder screen.

The next time you press **TAKE** () , the camera takes several pictures in rapid succession.

Quality


You can affect how much your photo is compressed, thereby reducing it's overall size (not to be confused with resolution).

1. In camera mode, press the **Options** soft key, then select **Quality**.
2. The following options appear in the display: **Fine**, **Normal**, or **Economy**.

3. Highlight the desired Quality setting, then press  .
You're returned to the camera viewfinder screen.

Resolution

Change the size (in bytes) of your pictures using the Resolution setting.

1. In camera mode, press the **Options** soft key, then select **Resolution** options:
 - **960x1280** (pixels)
 - **480x640** (pixels)
 - **240x320** (pixels)
 - **120x160** (pixels)
2. Highlight the desired resolution setting, then press  .
You're returned to the camera viewfinder screen.

Note: The Resolution setting affects zoom capabilities. When Resolution is set to **1280 X 960**, zoom is not available. When Resolution is set to any value lower than **1280 X 960**, zoom settings **1 – 8** are available.

White Balance

White Balance allows you to adjust picture quality according to available light.

1. In camera mode, press the **Options** soft key, then select **White Balance**.

2. Select one of the following White Balance values:

- **Auto** — The camera automatically adjusts picture quality to available light.
- **Sunny** — Use this setting when taking pictures in full sun.
- **Cloudy** — Use this setting when taking pictures in cloudy conditions.
- **Tungsten** — Use this setting when taking pictures under incandescent lights.
- **Fluorescent** — Use this setting when taking pictures under fluorescent lights.

Each option, as you highlight it, shows the effects it has on a picture.

3. When you decide on the White Balance you wish to use, press **OK**. The camera viewfinder screen appears in the display with your selected White Balance applied.

The next time you press **TAKE** (**OK**), the camera applies your selected White Balance to your picture.

Color Effects

Change the look of your pictures with Color Effects. Choose from six available settings such as Sepia, Negative, and Aqua. The selected Color Effect previews in the display before you take the picture.

1. In camera mode, press the **Options** soft key, then select **Color Effects**.

2. Press **OK**. The following options appear in the display:

Note: Choose **Normal** to disable **Color Effect**.

- **Normal** — Subjects and pictures appear with normal hues.
- **Black&White** — Subjects and pictures appear in black and white.
- **Sepia** — Subjects and pictures appear in a brownish-gray hue.
- **Negative** — Subjects and pictures appear in inverted colors.
- **Green** — Subjects and pictures appear in a greenish hue.

3. Highlight the color effect of your choice, then press **OK**. You're returned to the camera viewfinder screen.

When you take your next picture, the phone's display shows your subject image with the selected Color Effect.

Settings

Most camera options apply only during the current camera session. Camera settings, however, apply to all camera sessions until you change or reset their values.


Memory

1. In camera mode, press the **Options** soft key. The options menu bar appears in the display.

2. Use the Left and Right navigation keys to highlight **Settings**.
3. Select **Memory**. The following Memory options appear in the display:
 - **Phone** — Stores pictures in phone memory.
 - **Card** — Stores pictures on an optional microSD™ Memory Card.
4. Select the memory location of your choice. You're returned to the camera viewfinder screen.

Shutter Sounds

Choose from four different sounds whenever you take a picture. Aside from being a cool sound effect, Shutter Sounds acts as an audible reminder that your camera has taken a picture.

1. In camera mode, press the **Options** soft key, then select **Settings → Shutter Sounds**. The following shutter sounds appear in the display:
 - **Off**
 - **Shutter**
 - **OK**
 - **Ding Dong**
2. Highlight the shutter sound setting of your choice, then press . You're returned to the camera viewfinder screen.

Reset Settings

1. In camera mode, press the **Options** soft key, then select **Settings → Reset Settings**. You are prompted to confirm reset of all camera settings.
 - To reset the camera settings to default values, select the **On** option.
 - To keep the current camera settings, select the **Off** option.

Night Shot

Night Shot lets you take pictures in low light conditions.

1. In camera mode, press the **Options** soft key, then select **Settings → Night Shot**. The following options appear in the display:
 - **Off**
 - **On**
2. Select the Night Shot setting of your choice. You're returned to the camera viewfinder screen.

Auto Save

Auto Save lets you choose whether the camera automatically saves new photos as they are taken.

1. In camera mode, press the **Options** soft key, then select **Settings → Auto Save**.

The following options appear in the display:

- **Off** — Default Value — You are prompted to save a new photo.
- **On** — New photos are saved automatically.

2. Select the Auto Save setting of your choice. You're returned to the camera viewfinder screen.

Zoom

Zoom lets you temporarily enlarge the pictures you take. Increasing the Zoom (**1 – 8**) enlarges your pictures or videos (**0** is normal).


- ▶ In camera viewfinder screen, use the Left and Right navigation keys to adjust the Zoom (the screen image enlarges to show the affects of your changes).

The next time you press **TAKE** () , the camera takes an enlarged picture according to your selected Zoom setting.

Brightness

Brightness lets you temporarily lighten the pictures you take. Increasing the Brightness (**-4 – +4**) lightens your pictures (**0** is normal).

- ▶ In camera viewfinder screen, use the Up and Down navigation keys to adjust the Brightness (the screen image lightens or darkens to show the affects of your changes).

The next time you **TAKE** () , the camera takes a lighter or darker picture according to your selected Brightness setting.


The Photo Gallery

Saved pictures are stored in the My Images folder. You can browse the pictures one at a time (expanded mode), or view several pictures at once in thumbnail format.

1. In camera mode, press the **My Images** soft key.
Thumbnail images of the first 4 of any pictures that you've saved appear in the display.

Tip: You can also access **My Images** in standby mode by:

- Pressing the Down navigation key and selecting **My Images**.
 - Pressing **Menu**, then select **Multimedia** → **My Images**.
-

2. Use the Navigation key to browse pictures in the gallery.
3. Press **VIEW** () to expand a selected photo to fill the screen or to reduce the selected photo to a thumbnail image.
4. Press the **Options** soft key while viewing photos in the My Images folder. The following options appear in the display:

- **Send** — Send the currently displayed or highlighted photo as a Picture Message or Via Bluetooth to another device. (For more information, refer to “Bluetooth” on page 84.)
 - **Set As** — Assign the currently displayed or highlighted photo to be standby screen Wallpaper or as a Picture ID for someone in your Contacts list.
 - **Rename** — Rename the currently displayed or highlighted picture.
 - **Copy** — Copy the highlighted image to Phone memory or Card Memory.
 - **Move** — Move the highlighted image to Phone memory or Card Memory.
 - **Lock / Unlock** — Lock the currently displayed or highlighted image so that it cannot be deleted, or unlock the photo so that it can be deleted.
 - **Erase** — Mark and erase selected unlocked photos.
 - **Erase All** — Erase all unlocked photos.
 - **Photo Info** — View the Title, time and date created, size, and resolution of the currently highlighted or displayed photo.
5. Select the desired option to perform the function for the option or enter its sub-menu.



Switch From Expanded to Thumbnail Mode

1. Highlight a picture that you wish to view full size, press **VIEW** (⏏).
2. Press **VIEW** (⏏) again to return to the thumbnail view of your photos.

Point, Click, and Send Pictures

Take a picture and send it to anyone with a compatible device in a few easy steps.

1. In standby mode, press and hold the Camera-Music Player key (⏏) to activate the camera.
2. Using the display as a viewfinder, when the image that you wish to send appears in the display, press **TAKE** (⏏) to take a picture. “Picture saved” pops-up in the display and you are returned to the Camera viewfinder screen.
3. Press the **My Images** soft key. A thumbnail view of your new photo appears in the display with up to three thumbnails of other images.
4. Press the Options soft key, then select **Send**. The **Send** menu appears in the display.
5. Select **Picture Message**. The **Create Pic Msg** screen then appears in the display with the **Send To** list highlighted.
6. Enter the recipient’s phone number or e-mail address using the keypad or find and select a Contact by pressing the **Add** soft key.

7. Press  to save the address(es) and move to the **Subject** field. Use the Navigation keys to move to the other message fields. (For more information, refer to “*Send Picture Messages in Camera Mode*” on page 50.)
8. When you are finished composing your message, press **SEND** () to send the Picture message to the intended recipients.

Section 11: Multimedia

This section outlines your phone's multimedia functions and key features associated with multimedia.

Accessing Multimedia

1. In standby mode, press **Menu**, then select **Multimedia**.

The following Multimedia options appear in the display:

- **Camera** — Lets you launch and set up your phone's camera. (For more information, refer to “*Camera*” on page 65.)
 - **My Images** — Lets you choose the multi-media or pictures that appear in your phone's display.
 - **Music Player** — Lets you play music (MP3 and unprotected AAC, AAC+, WMA) files.
 - **My Ringtones** — Lets you assign melody tones for calls, alarms, and other alerts.
 - **My Sounds** — Lets you assign melody tones for calls, alarms, and other alerts.
 - **Ringback Tones** — Lets you download and assign ringback tones.
2. Select an option to enter its sub-menu. The following sections describe the above listed sub-menus in greater detail.

My Images

My Images lets you choose the pictures that appear in your phone's display while in standby mode (wallpaper) and as picture IDs for your contacts.

1. From the **Multimedia** menu, select **My Images**.
 - If there are no pictures stored in your phone or on a Memory Card, “**No Image**” appears in the My Images screen. [To launch the camera to take a picture, press the **Camera** soft key. (For more information, refer to “*Camera*” on page 65.)]
 - If there are pictures stored in your phone, up to four thumbnail images of your pictures appear in the display.



Tip: You can also access My Images from:

- The Camera screen, by pressing the **My Images** soft key.
- The **Edit Contact** screen, by selecting the picture ID field and pressing **Set** (📷).

-
2. Highlight a picture and press **VIEW** (📷) to expand the selected picture to fill the screen.
 3. Press the **Options** soft key. A pop-up menu containing the following options appears in the display:

- **Send** — Lets you send the selected image to a specified recipient in a Picture Message or to another device Via Bluetooth.
- **Set As** — Lets you assign the selected picture as the **Main Wallpaper** or as the **Picture ID** for a Contact.
- **Rename** — Lets you rename the picture.
- **Copy** — Copies the picture to Phone memory or to an optional Memory Card.
- **Move** — Moves the picture to Phone memory or to an optional Memory Card.
- **Lock / Unlock** — Lets you protect the picture from being deleted.
- **Erase** — Erases the selected, unlocked picture.
- **Erase All** — Erases all unlocked pictures.
- **Photo Info** — Displays information about the picture, such as the picture **Name**, creation **Date** and **Time**, **Resolution**, and the data **Size**.




4. Select an option.

5. To return to the previous menu, press . To return to standby mode, press .

Using Your Music Player

Music Player lets you play MP3 and unprotected AAC, AAC+, WMA music files, loaded onto an optional microSD™ Memory Card using a personal computer. (For information on loading music files on a Memory Card, see “Loading Music Files” on page 79.)

Launching the Music Library Menu

1. In standby mode, press  or , then select **Multimedia** → **Music Player**. The **Library** menu appears in the display showing the following options:
 - **All** — Lists all music files on the Memory Card and lets you play individual music files or play multiple music files by creating a temporary music playlist.
 - **Artists** — Lists artist names for music files on the Memory Card and lets you play one or more music files by a selected artist.
 - **Albums** — Lists album titles for music files on the Memory Card and lets you play one or more music files from a selected album.
 - **Genres** — Lists music categories for music files on the Memory Card and lets you play one or more music files of a particular music category.
 - **Playlists** — Lists any playlists you have saved and lets you create, save, and manage playlists.
2. Use the Navigation key or Arrow keys to highlight a music file, then:
 - To play the file, press the **Play** soft key.
 - To select the file for playing or other options, press **MARK** .
 - To select and apply any of the following options to the highlighted or marked music file(s), press the **Options** soft key:
 - **Mark All** — Marks all listed music files for playing, removal, or assignment of player settings.

- **Remove** — Deletes highlighted or marked music file(s) from the Memory Card.
- **Properties** — Lists the title, artist, album, genres, copyright information, time length, file size, and bit rate of the highlighted music file.
- **Player Settings** — Lets you assign a particular Visualizer to highlighted or marked music file(s).

Select the desired option.

Playing Music

1. At the **Multimedia** menu, select **Music Player**. The **Library** screen appears in the display, showing the following

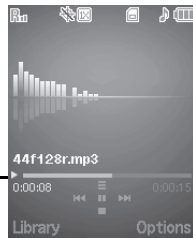
options:

- **All**
- **Artists**
- **Albums**
- **Genres**
- **Playlists**

2. Highlight the desired option, press **VIEW** (OK), and then do one of the following:

- **All option** — Highlight a music file, then press the **Play** soft key to play the file.

Tip: To play additional files, use the Left and Right navigation keys, or highlight and mark additional files for playback. (For more information, see “*Launching the Music Library Menu*” on page 77.)



- **Other options** — Use the Navigation key to highlight an Artist, Album, Genre, or Playlist, then press **VIEW** (OK).

Use the Navigation key to highlight a music file, then press the **Play** soft key to play the file.


The **Music Player** screen appears in the display and the selected music file/playlist begins playing.

Music Player 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.

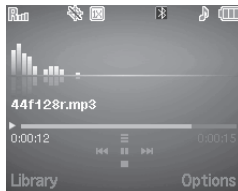
- **Navigation key:**

- To pause/resume playing a music file, press .
- To stop playing a music file, press the Down navigation key.
- To skip play to an earlier music file in the selected list, press the Left navigation key.
- To skip play to a later music file in the selected list, press the Right navigation key.
- To return to the selected list and choose another music file to play, press the Up navigation key.

- **Library** soft key — Returns you to the **Library** screen.

- **Options** soft key — Shows the following sub-menus and options:


- **Play Mode** — Lets you change the play mode from Normal, Shuffle, Repeat One, Repeat All, or Shuffle Repeat All.
- **Add to Playlist** — Moves you to the **Playlists** menu to let you add the selected music file to a playlist.
- **Remove** — Deletes the selected music file from the Memory Card



- **Properties** — Lists the title, artist, album, genre, copyright information, time length, file size, and bit rate of the highlighted music file.
 - **Visualizer** — Lets you change the Music Player visualization to Simple View, Equalizer, Album Art, or Lyrics.
 - **Memory Info** — Displays the **Memory Usage** screen which lists Memory Card usage and availability amounts.
- Select the desired option to launch the option or to access the sub-menu.

Loading Music Files

To transfer music to a microSD™ Memory Card, do the following:

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 *“Install a Memory Card”* on page 7.)
 - Power your phone on.
 - When the Memory Card icon () appears in the display, remove the Memory Card from your phone. (For more information, see *“Remove a Memory Card”* on page 8.)
2. Insert the Memory Card into a compatible card reader.

Note: Card readers vary. Follow the installation instructions included with your card reader and personal computer.

3. Open the Memory Card reader drive and the “My_Music” folder.
4. Drag or download music (MP3) files into the “My_Music” folder.
5. Remove the Memory Card by following the removal instructions for the Memory Card reader and for your personal computer.
6. Insert the Memory Card into your phone. (For more information, see “*Install a Memory Card*” on page 7.)

My Ringtones

My Ringtones lets you assign ringtones (preloaded and downloaded) for calls, alerts, and as distinctive ringers for Contacts.

1. From the **Multimedia** menu, select **My Ringtones**. A list of ringtones appears in the display.

Tip: You can also access My Ringtones from:



-A **Set Alarm** screen by selecting the **Ringer** option, highlighting the second (file name) field, pressing the Left or Right navigation key, and selecting **My Ringtones**.

-The **Edit Contact** screen by selecting the **Ringtone** field, pressing the **Set** soft key, and selecting **My Ringtones**.

2. Use the Navigation key to highlight a particular ringtone.
 - Press **OK** to **PLAY** the ringtone.
 - Press the **Options** soft key to show the file name and file type.
3. Press the **Set As** soft key to assign the highlighted ringtone. The following options appear in the display:
 - **Ringtone** — Lets you assign the selected ringtone to incoming voice calls.
 - **Contact ID** — Lets you assign the selected ringtone as the distinctive ringer for a Contact.
 - **Alert Tone** — Lets you assign the selected ringtone to **All Msg**, **Text Msg**, **Picture Msg**, or **Voicemail Msg**.
Select an option.
4. When using a downloaded ringtone, press the **Options** soft key and the following options appear in the display:
 - **Lock / Unlock** — Lets you prevent/permit file deletion.
 - **Erase** — Erases the selected file.
 - **Rename** — Lets you rename the selected file.

- **Ringtone Info** — Displays information about the selected file, such as the file name, the file type, and the data size.
- **Get More Ringtones** — Launches the Browser so that you can download ringtones.

Select an option.

5. Press  to return to the previous menu, or press  to return to standby mode.

My Sounds


My Sounds lets you record voice memos and lets you assign preloaded and downloaded sound files as ringers for calls, alarms, and other alerts.

1. From the **Multimedia** menu, select **My Sounds. Record New** and a list of sound files appears in the display.

Tip: You can also access My Sounds from:

-A **Set Alarm** screen by selecting the **Ringer** option, highlighting the second (file name) field, pressing the Left or Right navigation key, and selecting **My Sounds**.

-The **Edit Contact** screen by selecting the **Ringtone** field, pressing the **Set** soft key, and selecting **My Sounds**.

2. Select **Record New**, then press  to record a voice memo. (See “Voice Memo” on page 82. for more information.)

3. Press the **Options** soft key.

- For a recorded sound file, a pop-up menu containing the following options appears in the display:
 - **Send** — Lets you send the selected sound file to a specified recipient in a Picture message.
 - **Set As** — Lets you assign the selected sound file as the **Ringtone** or as the **Contact ID** for a Contact or an **Alert Tone** for Text, Picture, or Voicemail messages.
 - **Rename** — Lets you rename the sound file.
 - **Lock / Unlock** — Lets you protect the sound file from being deleted.
 - **Erase all** — Erases all sound files.
 - **Sound Info** — Displays information about the sound file, such as the title, file size, file type, and date.
- For a preloaded sound file, a pop-up menu containing the following options appears in the display:
 - **Send** — Lets you send the selected sound file to a specified recipient in a Picture message.
 - **Set As** — Lets you assign the selected sound file as the **Ringtone** or as the **Contact ID** for a Contact or an **Alert Tone** for Text, Picture, or Voicemail messages.
 - **Erase all** — Erases all sound files.
 - **Sound Info** — Displays information about the sound file, such as the title, file type, and the data size.
- For a downloaded sound file, the following options appear in the display:

- **Set As** — Lets you assign the selected sound file as the **Ringtone** or as the **Contact ID** for a Contact or an **Alert Tone** for Text, Picture, or Voicemail messages.
- **Rename** — Lets you rename the sound file.
- **Lock / Unlock** — Lets you protect the sound file from being deleted.
- **Erase all** — Erases all sound files.
- **Sound Info** — Displays information about the sound file, such as the title, file type, and the data size.

Select an option.

4. Press the **OK** key to return to the previous menu, or press the **Back** key to return to standby mode.

Voice Memo

You can use your phone to record voice memos for later playback.

Note: The maximum length for a single voice memo is 60 seconds.

You can save as many voice memos as will fit in the empty memory capacity.

Record a Voice Memo

1. From the **Multimedia** menu, select **My Sounds**. A list of sound files appears in the display with **Record New** highlighted.

2. Press **OK**. The **Record New** screen appears in the display.
3. Press **REC** (**OK**), then start speaking. As it is recording the phone displays a countdown timer that shows the seconds remaining for the recording.
 - To pause the memo, press the **Pause** soft key. When a memo is paused, select **Resume** to continue recording.
4. Press **SAVE** (**OK**) once you're finished recording. The new recording is saved, and the **My Sounds** menu appears in the display.

Review Voice Memos

If you've saved any voice memos, you can review them anytime.

1. From the **Multimedia** menu, select **My Sounds**. A list of sound files appears in the display.
 2. Highlight the voice memo you wish to review.
 3. Press **PLAY** (**OK**) to play the voice memo.
 - To stop playing the memo, press **STOP** (**OK**). Press **OK** again to restart playing the memo.
- When the voice memo finishes playing, the selected voice memo remains highlighted in the list of sound files.

Erase One Voice Memo

1. From the **Multimedia** menu, select **My Sounds**. A list of sound files appears in the display.
2. Highlight the voice memo you wish to erase.
3. Press the **Erase** soft key. “**Erase Sound?**” appears in the display.
4. To erase the selected voice memo, press the **Yes** soft key. To return to the list of sound files, press the **No** soft key.

Erase All Voice Memos at One Time

1. From the **Multimedia** menu, select **My Sounds**. A list of sound files appears in the display.
2. Highlight a voice memo, then press the **Options** soft key. The following options appear in the display:
 - **Send** — Lets you send a copy of this voice memo as part of a Picture Message or to another device Via Bluetooth.
 - **Set As** — preloaded sound files only — Lets you set this sound file as a Ringtone, Contact ID ringer, or Alert Tone.
 - **Rename** — Lets you change the name of this voice memo.
 - **Lock/Unlock** — Blocks/permits erasure of this voice memo.
 - **Erase all** — Erases all unlocked sound files that are not preloaded.
 - **Sound info** — Shows you the title, file size, file type, and date for this sound file.

3. Select **Erase all**. “**Erase All Sounds?**” appears in the display.
4. To erase all unlocked the sound files, press the **Yes** soft key. To return to the list of sound files, press the **No** soft key.

Section 12: Tools

This section explains how to use your phone's digital assistant functionality to schedule events, set reminders, create a "to do" list, perform calculations, and more.


Tools Menu

Tools is a suite of Personal Information Management (PIM) applications such as a Calendar, To Do List, and Memo Pad that run on your phone. You can use your phone to schedule events, set reminders, create a to do list, perform calculations, and more with the functions provided by this useful feature.

Opening Tools Menu

1. In standby mode, press **Menu**, then select **Tools**. The following sub-menus appear in the display:
 - **Bluetooth** — Lets you access Bluetooth functions.
 - **Calendar** — Lets you view the current, past, or future month in a monthly calendar layout.
 - **Memo Pad** — Lets you store and review useful information.
 - **Alarm Clock** — Lets you set an alarm to go off once, or daily, at a specified time.
 - **World Time** — Lets you view the current time of day or night in another part of the world.
 - **Calculator** — Lets you perform calculations, including addition, subtraction, multiplication, and division.

- **Stop Watch** — Lets you view the amount of time.
- **Converter** — Lets you convert currencies (according to the latest rates) and weights, measures, and temperatures from one system or increment to another.
- **Tip Calculator** — Lets you quickly calculate service gratuities with a minimum of keypresses.

2. Highlight an application, then press .

The following sections provide detailed descriptions of the applications and how to use their functions.

Bluetooth

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

Unlike infrared, you don't need to line up the devices to beam information with Bluetooth. If the devices are within a range of one another, you can exchange information between them, even if they are located in different rooms.

The Bluetooth wireless technology settings menu provides the ability to view and change the device name, show the visibility, and set the security for the device.

Turn Bluetooth On/Off

When the Bluetooth is turned on, you can use the Bluetooth features available. When the Bluetooth is turned off, you cannot send or receive information via Bluetooth. To save battery life or in situations where Bluetooth use is prohibited, such as airline traveling, you can turn off the Bluetooth wireless technology headset.

Add New Device

To search for available Bluetooth devices:

1. From the **Tools** menu, select **Bluetooth**. The following options appear in the display:
 - **Add New Device**
 - **Registered List**
 - **Bluetooth Settings**
2. Select **Add New Device**.

If Bluetooth is off, you are prompted to “**Turn bluetooth on?**”.

- To leave Bluetooth off and return to the **Bluetooth** menu, press the **No** soft key.
- To turn Bluetooth on, press the **Yes** soft key.

“**Place device you are connecting to in discoverable mode**” appears in the display.

3. Place the Bluetooth device in discoverable mode. (See the device user manual for more information.)
4. Press **OK**. Names of the available devices appears in the display.
5. Highlight the device you want to pair with your phone.
6. Press **PAIR** (**OK**) to pair the selected device with the phone. You are prompted to enter the passkey or PIN for the selected device.

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

7. Enter the device passkey or PIN and press **OK**.

Registered List

This menu provides a list of Bluetooth wireless technology devices discovered by your handset.

1. From the **Tools** menu, select **Bluetooth → Registered List**. A list of registered devices appears in the display.

Connecting to a Bluetooth Device

From the Device list,

1. Highlight the device and press **OK**.
2. If you are unable to pair with the device a popup appears in the display. Press the **Yes** soft key to retry.

Bluetooth Settings

1. From the **Tools** menu, select **Bluetooth → Bluetooth Settings**. The following options appear in the display:

Enable/Disable

Selecting this option turns Bluetooth on or off.

Discovery Mode

Allows other users to see your accessibility. Select **On** for other devices to see your device for 1 minute, or **Off** for no visibility.

Device Name

Shows the handset name. To change this name, enter a new name and press **OK**.

Supported Profiles

Lists and explains the Bluetooth profiles your phone supports.

Device Info

Shows the Bluetooth Type, Status, and Address of your phone.

Calendar

Calendar lets you view the current, past, or future month in a monthly calendar layout. While viewing the calendar, the current date is highlighted and days with scheduled events are surrounded by a box.

View an event

1. From the **Tools** menu, select **Calendar**.

A calendar appears in the display with the current date highlighted. The month and year also appear.

2. Use the Navigation key to move around within the calendar screen. The following controls are also available:
 - Press the **Add** soft key to add an event to the highlighted date.
 - Press **OK** to open the highlighted date.
 - To view previous months, press the Volume key Up.
 - To view future months, press the Volume key Down.
 - Press the navigation keys to move to an individual day, one day or one week at a time.
 - Press the **Options** soft key while viewing the calendar. The following options appear in the display:
 - **Go to Date** — Lets you jump to any date you specify.
 - **Go to Today** — Lets you jump to any date you specify.
 - **Erase Old** — Lets you erase past events.
 - **Erase all** — Lets you erase all events.

Select the desired option to perform the related process.


Add a New Event

1. From the **Tools** menu, select **Calendar**.
A calendar appears in the display with the current date highlighted. The month and year also appear.
2. Highlight the date of the new event, then press the **Add** soft key. The **New Event** screen appears in the display.
3. Use the Navigation key and the keypad to select and enter details of the event. (For more information, refer to “Entering Text” on page 33.)

Note: Enter the dates and times for the event using 2 digits for day, month, hour, and minute entries. Use 4 digits for year entries.

Use the Left/Right navigation keys to change between **AM** and **PM**.

Tip: You can also press  for **AM** or press  for **PM**.

4. When you're finished entering event details, press  to store the event in your calendar.

Note: If you set a notification **Alert**, an alert (tone/vibration/light) will notify you prior to the event.


Memo Pad

You can create a notes and store them in Memo Pad. You can't prioritize or set an alert for stored notes. Return to Memo Pad anytime you wish to review and edit your notes.


Add a Memo

1. From the **Tools** menu, select **Memo Pad**.

If you have any stored memos, they appear as a list in the display. If this is your first time in **Memo Pad**, “**No memos**” appears in the display.

2. To add a new memo, press the **Add** soft key. A numbered **Memo** screen appears in the display.
3. Enter a memo using the keypad. (For more information, refer to “Entering Text” on page 33.)
4. When you're finished entering details for the memo, press  to save your memo.

View, Edit, and Erase Memos


- ▶ From the **Tools** menu, select **Memo Pad**, then highlight a memo.
 - To view the memo, press **VIEW** (.
 - To edit the memo you are viewing, press the **Edit** soft key.



- Edit the memo using the keypad. (For more information, refer to “Entering Text” on page 33.)
- To erase the memo you are viewing, press the **Options** soft key, then select **Erase**. You are prompted to verify the erasure.
 - To erase the memo, press the **Yes** soft key.
 - To keep the memo, press the **No** soft key.

Alarm Clock

Your phone has an alarm clock that can be set to go off once, or daily at a specified time. Once set, the alarm clock is easy to change or turn off completely.


Note: The alarm doesn’t function when the phone is turned off. If the time for an alarm that was set for **Once** has elapsed and the phone is off, the alarm occurs at the same time on the following day.

1. From the **Tools** menu, select **Alarm Clock**. The following options appear in the display:
 - **Alarm 1**
 - **Alarm 2**
 - **Alarm 3**
2. Use the navigation keys to highlight an Alarm selection, then press . A Set Alarm screen appears in the display containing the following options:
 - **Alarm** — Turns the alarm Off or On.

- **Time** — Use the numeric keys to enter the time, and use the Left and Right navigation keys to select AM or PM.
 - **Frequency** — Lets you repeat the alarm Daily, Mon – Fri, Weekends, or Once.
 - **Ringer** — Lets you set the alarm ringer to a particular Tone, to Vibrate, or to Light Only.
3. Use the Up and Down navigation keys to select options, and use the Left and Right navigation keys to select values for the options.
 4. Use the keypad to enter the time for the alarm.
 5. When you’re finished . The alarm is set and the alarm icon () appears in the top line of the display.

When an Alarm Sounds

An animated alarm clock appears in the display with the options **Snooze** or **Dismiss**, and an alert sounds when the specified time for the alarm arrives.


- ▶ Use the Navigation key to highlight **Dismiss**, then press  to silence the alarm.
 - If the alarm was set as a Daily alarm, the alarm icon remains in the top of the display.
 - If the alarm was set as a Mon.-Fri. alarm, the alarm icon remains in the top of the display.

- If the alarm was set as a Weekends only alarm, the alarm icon remains in the top of the display.
- If the alarm was set as a Once only alarm, the alarm icon disappears from the top of the display.

Disabling Alarms

Turn Off the Alarm


Turning an Alarm to Off allows you to retain the current settings for later reuse.

1. From the **Tools** menu, select **Alarm Clock**. The following options appear in the display:
 - **Alarm 1**
 - **Alarm 2**
 - **Alarm 3**
2. Select an active Alarm selection. The associated Alarm screen appears in the display with the **Alarm** option highlighted.
3. Use the Left/Right navigation keys to select **Off**, then press . The selected alarm is turned off.

Reset the Alarm(s)

1. From the **Tools** menu, select **Alarm Clock**. The following options appear in the display:
 - **Alarm 1**

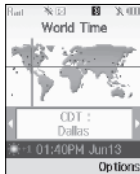
- **Alarm 2**
- **Alarm 3**

2. Select an active Alarm selection.
3. Highlight an active alarm.
4. Press the **Options** soft key. The following options pop-up in the display:
 - **On / Off** — Enables/disables the highlighted Alarm using the current settings.
 - **Reset Alarm** — Disables the highlighted Alarm and resets its settings to default values.
 - **Reset All** — Disables all Alarms and resets all of their settings to default values.
5. Use the navigation keys to highlight the desired option, then press .

World Time

World Time lets you view the time of day or night in another part of the world. World Time displays time in any of 45 different cities and/or time zones around the world.

- From the **Tools** menu, select **World Time**. A world map appears in the display.
- Use the Left/Right navigation keys to display the time zone and city that you wish to view.



The following time zones/cities are supported:








EST/EDT: Detroit Washington D.C New York Montreal Boston	Caracas	Brasilia	Mid Atlantic
Cape Verde	London	Paris	Rome
Berlin	Athens	Helsinki	Jerusalem
Moscow	Baku	Abu Dhabi	Tashkent
Alma-ata	Bangkok	Jakarta	Hong Kong
Beijing	Seoul	Tokyo	Guam
Sydney	Okhotsk	Wellington	Samoa

Midway	HAST/HADT: Honolulu	AKST/AKDT: Alaska	PST/PDT: Seattle San Francisco Los Angeles
MST/MDT: Denver Arizona	CST/CDT: Dallas Chicago Houston Mexico City		


- Press the **Options** soft key and select to display (**DST On**) or not display (**DST Off**) Daylight Savings Time (DST) for the selected time zone.
- Do one of the following:
 - To set the selected time zone as the home time zone for your phone, press **OK**.
 - To return to the **Tools** menu without setting a new home time zone, press **C**.

Calculator

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

1. From the **Tools** menu, select **Calculator**. The **Calculator** appears in the display.
2. Enter the first number in your equation using the keypad (numbers can be up to nine digits long).
 - Press  to enter a decimal point. (Calculator only accepts 2 digits after a decimal point.)
 - Press  to change the sign for a number to a negative.
3. Use the **Navigation** key to set the type of calculation that you wish to perform. Your choices are as follows:
 - **Up** navigation key —  Multiplication
 - **Left** navigation key —  Subtraction
 - **OK** key —  Equals/Total
 - **Right** navigation key —  Addition
 - **Down** navigation key —  Division
4. Use the keypad to enter the second number into your equation.


For additional equation entry options, press the **Operator** soft key. The following options appear in the display:

 - **(** — Beginning of nested equation
 - **)** — End of nested equation
 - **Power** — Raise the entered number to a power
5. Press  to perform the calculation and view the result.

To perform another calculation, press the **Clear** soft key.

Stop Watch

You can use this menu to set a stop watch.

1. From the **Tools** menu, select **Stop Watch**.
2. Press  to start, stop, and resume the stopwatch count.
3. Press the **Record** soft key at the start of each succeeding event/lap to record the completion time for the previous event/lap.
4. Press the **Reset** soft key to erase all stop watch (lap) times recorded.


Converter

The conversion menu provides the following conversion categories:

- Currency
- Length
- Weight
- Volume
- Area
- Temperature

To convert a currency, length, weight, volume, area, or temperature, do the following:




1. From the **Tools** menu, select **Converter** and the conversion feature you wish to use.
2. Use the Navigation key to select the units to be converted **From** and **To**.
3. Enter the quantity you want converted in the **From** field. The converted quantity appears in the **To** field.

Note: To include a decimal point, press the  key.

Currency — Reviewing/Editing Exchange Rates

The Currency Converter includes long-term average exchange rates as default values. To review and/or change a default exchange rate to the current exchange rate, do the following:

1. From the **Tools** menu, select **Converter → Currency**.
2. Press the **Rate** soft key. The **Exchange Rate** list for the **USD** currency appears in the display.
3. Use the Left/Right navigation keys to display the **Exchange Rate** list for the currency to be converted **From**.
4. Use the Up/Down navigation keys to highlight the currency Exchange Rate to be changed.


5. Press **EDIT** (). The **EDIT EXCHANGE RATE** screen appears in the display.
6. Use the keypad to change the exchange rate. (For more information, refer to “*Entering Numbers*” on page 35.)
7. Press  to save the changed exchange rate.
8. Press  to return to the Currency Converter screen.

Currency — Adding Exchange Rates


You can use the Currency Converter to convert from and to obscure currencies by adding exchange rates for these currencies. To add a currency and its exchange rate to the Currency Converter, do the following:

1. From the **Tools** menu, select **Converter → Currency**.
2. Press the **Rate** soft key. The **Exchange Rate** list for the **USD** currency appears in the display.
3. Press the **Add** soft key. The **ADD EXCHANGE RATE** screen appears in the display with the **Base** field highlighted.
4. Use the Left/Right navigation keys to select the **Base** currency to be converted from.
5. Press the Down navigation key to highlight the **Currency** field.

6. Enter an identifier of up to 5 characters for the new currency using the keypad. (For more information, refer to “*Entering Text*” on page 33.)
7. Press the Down navigation key to highlight the **Exchange Rate** field.
8. Enter a decimal exchange rate or the new currency using the keypad. (For more information, refer to “*Entering Numbers*” on page 35.)

Note: Press the  key to enter the decimal point.

The **Exchange Rate** field only accepts two digits after the decimal point.

9. Press **SAVE** () to save the new exchange rate.

Currency — Erasing Exchange Rates

You cannot erase the preloaded currencies from the Exchange Rate list. You can erase a currency that you have added to the list by doing the following:

1. From the **Tools** menu, select **Converter → Currency**.
2. Press the **Rate** soft key. The **Exchange Rate** list for the **USD** currency appears in the display.

3. Use the Up/Down navigation keys to highlight the currency exchange rate to be erased.
4. Press the **Erase** soft key. You are prompted to confirm the erasure.
5. To erase the selected exchange rate, press the **Yes** soft key.

To return to the Exchange Rate list without erasing the selected exchange rate, press the **No** soft key.

Tip Calculator

Tip Calculator automatically calculates the following amounts:

- Gratuity (tip)
- Individual payment (for groups)

Calculations are based on the total amount of the check, a selected percentage, and the number of people paying.

1. From the **Tools** menu, select **Tip Calculator**. The **Tip Calculator** screen appears in the display with the **Bill** field highlighted.
2. Use the keypad to enter the total amount of the bill. (For more information, refer to “*Entering Numbers*” on page 35.)


3. If needed, press the Down navigation key to highlight the **Tip** field.
4. Use the keypad to enter a tip percentage. (For more information, refer to “*Entering Numbers*” on page 35.)
5. If needed, press the Down navigation key to highlight the # **Paying** field.
6. Use the keypad to enter the number of persons paying. (For more information, refer to “*Entering Numbers*” on page 35.)
7. The amount of the Tip, the bill Total, and the amount Each person should pay appear in the lower half of the screen.

Section 13: Voice SVC

This section explains how to use your phone's digital assistant functionality to schedule events, set reminders, create a “to do” list, perform calculations, and more.


Launching Voice Service

VoiceSignal is state-of-the-art voice recognition software for your mobile phone that lets you dial numbers, lookup contact information, and open applications using your voice. To access your phone's voice settings, do the following:

1. In standby mode, press **Menu**, then select **Voice SVC**. The following options appear in the display:
 - **Voice Commands**—Lets you place calls, access your Contacts List, review your appointments, and more by speaking commands into your phone. Also see “*Voice Dialing*” on page 21 and “*Voice Method*” on page 37 for more information.
 - **Voice Settings**—Lets you tailor VoiceSignal to better respond to your voice and your phone use preferences.
2. Highlight the desired sub-menu, then press .

Voice Commands

To start VoiceSignal, do one of the following:

- In standby mode, press and hold the  key.
- From the **Voice SVC** menu, select **Voice Commands**.

“**Say a Command**” appears in the display and is pronounced through the earpiece, followed by a list of available commands.

Note: You can also set your phone to start VoiceSignal when you open the phone. (For more information, refer to “*Voice Launch*” on page 99.)

VoiceSignal includes the following commands:

- **Call** — Lets you dial the phone by saying any name stored in your contact list, without ever having to record, or “train” that name. VoiceSignal automatically voice-activates all your contacts, even if you have hundreds of them stored on your phone. You can also dial any telephone number, even if it is not stored in your contact list, by saying the digits in the number. (For more information, refer to “*Voice Dialing*” on page 21.)
- **Send Text** — Lets you launch the Create Text Msg screen. (For more information, refer to “*Create and Send Text Messages*” on page 49.)
- **Send Picture** — Lets you launch the Create Pic Msg screen. (For more information, refer to “*Send Picture Messages in Standby Mode*” on page 52.)
- **Lookup** — Lets you look up and display contact information for any name stored in your Contacts list by saying the name. (For more information, refer to “*Finding a Contacts Entry*” on page 37.)

- **Go to** — Lets you access the Voice Memo, Calendar, and Contacts List features of your phone. (See “*Voice Memo*” on page 82, “*Calendar*” on page 86, and “*Contacts*” on page 36 for more information.)
- **Check** — Lets you check your phone's status (that is, network coverage, signal strength, and battery in the same report), network coverage, signal strength, battery, and phone number.

Note: Speaking clearly, say the command that you want to use. If, after a few seconds, the device has not recognized a command, it prompts you to repeat the command. If, after a few more seconds, it still has not recognized a command, it tells you “Sorry, no match found,” and cancels voice recognition.

Voice Command Tips:

- Make sure you wait for the beep before speaking.
- Speak clearly at a normal volume, as if you were talking on the phone.

Voice-Activating Your Contacts List

When you first start VoiceSignal, it reads your Contacts list and voice-activates all the names stored there. When you have add or change contacts, VoiceSignal automatically reloads and voice-activates the entire list.

Ending Calls Before Restarting the VoiceSignal Software

When you use VoiceSignal to make a call, you must end that call before you can use VoiceSignal again.

Voice Settings

Choice Lists

VoiceSignal uses choice lists when it is not confident it has correctly recognized a name or number. In this case, it can display a list of up to three possible choices, and prompt you to confirm the correct one.

You can change the way that VoiceSignal uses choice lists with name dialing, digit dialing, and contacts. For each feature, you can choose to always see a choice list (even if there is only one choice), or never see a choice list (even if there are multiple choices). If you leave the setting at “Automatic,” VoiceSignal displays a choice list only when it is not confident it has correctly recognized the name or number.

To change the way VoiceSignal uses choice lists:

1. From the **Voice SVC** menu, select **Voice Settings** →

Choice Lists the following options appear in the display:

- **Automatic**—VoiceSignal displays a choice list only when it is not sure if it has correctly recognized the name or number.
- **Always On**—VoiceSignal always displays a choice list, even when there is only one choice.
- **Always Off**—VoiceSignal never displays a choice list.

Use the navigation keys to highlight the Choice List behavior you prefer, then press the **OK** key to accept the new setting.

Sensitivity

1. From the **Voice SVC** menu, select **Voice Settings** → **Sensitivity**. The **Sensitivity** screen appears in the display.
2. Use the Up/Down navigation key to adjust the Sensitivity setting to **Reject More** spoken commands or names or to **Reject Less** spoken commands or names.
3. To accept the new setting, press the **OK** soft key.

Digit Dialing

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

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

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

Tips for Adapting Digit Dialing

- Use Adapt Digits in a quiet place.
- Make sure you wait for the beep before starting to speak.
- Speak clearly, and say each digit distinctly.
- If you make a mistake while recording a sequence of digits, or if there is an unexpected noise that spoils the recording, re-record that sequence.
- Only adapt digits if you are regularly having problems with digit dialing. Once you adapt, digit dialing will not work as well for other people using your phone. (You can always reset digit adaptation to its original state, as described below.)

Adapt Digits

To adapt digit dialing, do the following:

1. From the **Voice SVC** menu, press **Voice Settings** → **Digit Dialing**. The following options appear in the display:
 - **Adapt Digits**
 - **Reset Digits**
2. Select **Adapt Digits**. Your phone displays the first digit sequence and **“Please say”** plays through the speaker followed by the four digits appearing in the display.

3. Wait for the beep and say the digits using your normal tone of voice. After a moment, the phone plays back the recording and prompts “Did the recording sound ok?”
 - If the recording was good, say “**Yes.**”
 - If you need to re-record, say “**No.**”If you say “**No,**” the phone prompts you to pronounce the digits again. Wait for the beep and then say the digits. Repeat this step until you’re satisfied with the recording.
4. After confirming that the recording sounds “ok”, continue the recording process with the next set of digits.
5. After 10 sets of digits, “**Adaptation complete**” plays through the speaker and you are returned to the **Digit Dialing** menu.

Reset Digits

To reset digit dialing to factory default settings, do the following:

1. From the **Voice SVC** menu, select **Voice Settings → Digit Dialing**.

The following options appear in the display:


- **Adapt Digits**
- **Reset Digits**

2. Select **Reset Digits**. The phone prompts you to confirm digit adaptation rest.

To reset your digit adaptation, press the **OK** soft key. To cancel and retain your digit adaptation, press the **Back** soft key.





Sound

Sound lets you specify what (if any) text prompts you want your phone to read to you through the earpiece.

1. From the **Voice SVC** menu, select **Voice Settings → Sound**. The following options appear in the display:
 - **Prompts** — Enables or disables audio prompts.
 - **Digits** — Enables or disables audio digit playback.
 - **Names** — Enables or disables audio name playback.
 - **Name Settings** — Lets you adjust the speed and volume of your phone’s audio name playback.
2. Highlight the desired setting.
3. Press  to accept the new setting.

Voice Launch

To set the key or action that launches VoiceSignal, do the following:

1. From the **Voice SVC** menu, select **Voice Settings → Voice Launch**. The following options appear in the display:
 - **Key Only** — Press and hold  to activate VoiceSignal for one call.
 - **Key / EarMic** — Attach a headset to your phone. Press and hold  to activate VoiceSignal. Now, you can make and end calls using VoiceSignal by pushing the button on the headset. Press  to release VoiceSignal.
2. Highlight the option you want, then press  to save and exit.

About VoiceSignal

This option causes the **About VoiceSignal** screen to appear in the display, showing version and build information about the VoiceSignal software included on your phone.

- ▶ From the **Voice SVC** menu, select **Voice Settings → About**.

The **About VoiceSignal** screen appears in the display showing the version level of the VoiceSignal software currently installed on your phone.

Section 14: Changing Your Settings

This section explains how to customize your phone to suit your needs and preferences.

Accessing Your Settings

- ▶ To access your phone's settings from standby mode, do one of the following:

- Press the **Settings** soft key.
- Press **Menu**, then select **Settings**.

The **Settings** menu appears in the display.

Location

This function identifies your location to the network via the Global Positioning System (GPS). You can set this function for continuous operation or to operate only in the event that you dial 911.

Note: Contact your Wireless Provider to determine whether, when, or where location-based services are available.

1. At the **Settings** menu, select **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.

- **911 Only** — GPS location setting is on only when you dial 911.

2. Select the desired Location setting. You're returned to the **Settings** menu.

Display Settings

Using the **Display** menu, you can set the menu style, set the standby mode animation, customize the backlight settings, and more.

1. At the **Settings** menu, select **Display Settings**. The following options appear in the display:

- **Menu Style** — Lets you choose whether the Main Menu appears as a matrix of icons or as a list of menus.
- **Wallpaper** — Lets you choose the picture(s) or animation that display(s) on your phone when in standby mode.
- **Clock Format** — Lets you choose whether to show the time in the display in digital or analog format.
- **Theme** — Lets you select the main menu color scheme.
- **Dialing Font Size** — Lets you choose how the number will display on the display screen.
- **Banner** — Lets you create your own personalized greeting that appears in the display when your phone is in standby mode.
- **Backlight** — Lets you set backlight options for the Main Display, the Keypads, and Charging, and set the Brightness.

2. Select the desired display option. The following sections describe the above listed display sub-menus in greater detail.

Menu Style


Menu Style allows you to choose how main menus appear in your display.

1. At the **Settings** menu, select **Display Settings → Menu Style**. The following options appear in the display:
 - **Icon** — Display main menus as icons.
 - **List** — Display main menus in a list format.
2. Select the desired setting.

Wallpaper


Wallpaper lets you choose the pictures that appear in your phone's display while in standby mode.

1. At the **Settings** menu, select **Display Settings → Wallpaper**. The following options appear in the display:
 - **My Images** — Choose a picture to appear in the display when the phone is in standby mode.
 - **Preset Images** — Choose a preset image to appear in the display when the phone is in standby mode.
 - **Slide Show** — Choose a pre-loaded, Screen Saver.

2. Select the desired option. Up to four pictures, images, or animations appear in the display.
3. Highlight a picture, image, or animation; then press  to set the highlighted picture, image, animation to display when the phone is in standby mode.

Clock Format

Clock Format lets you choose whether to show the time in the display in digital or analog format.

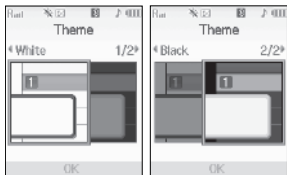
1. From the **Settings** menu, select **Display Settings → Clock Format**. The following clock format options appear in the display:
 - **Digital** — Large numerical time and date display
 - **Analog** — 12-hour clock face with moving hour and minute hands
 - **Off** — Default small digital time and date displayHighlight the desired setting, then press  to save the setting.

Theme

Theme lets you select the color scheme your phone uses to highlight menu items and scroll bar positions.

1. At the **Settings** menu, select **Display Settings → Theme**.

The following options appear in the display:



2. Highlight the desired setting, then press **OK** to save the setting.

Dialing Font Size

Dialing Font Size lets you select the size of displayed dialed numbers.

1. At the **Settings** menu, select **Display Settings → Dialing Font Size**. The following options appear in the display:
 - **Normal**
 - **Large**
2. Highlight the desired font size, then press **OK** to save the setting.

Banner

Create your own personalized text greeting that appears in the display while your phone is in standby mode.

1. At the **Settings** menu, select **Display Settings → Banner**. The **Banner** text entry screen appears in the display.

Note: If necessary, press and hold the **⌫** key to erase an existing banner.

2. Enter a word or short phrase (up to 12 characters) to appear in your phone's display while in standby mode. (For more information, refer to “*Entering Text*” on page 33.)
3. To save the new banner, press **OK**. To discard your changes, press the **Cancel** soft key.

Backlight

You can set the backlight for your display or keypad to remain on or off or to remain on for a specified period of time.

Note: Prolonged backlight use drains your battery faster.

1. At the **Settings** menu, select **Display Settings → Backlight**. The following sub-menus appear in the display:
 - **Main Display** — Sets the amount of time the main display backlight remains on with the phone idle. Optional settings are **7**, **15**, and **30 Seconds** and **Always On** (this setting uses much more power than the timed settings) and **Always Off**.
 - **Keypad** — Sets the amount of time the keypad backlight remains on with the phone idle. Optional settings are **7**, **15**, and **30 Seconds**

and **Always On** (this setting uses much more power than the timed settings) and **Always Off**.

- **Brightness** — Use the Navigation key to select between any of 5 optional settings.
 - **Charging** — Sets display backlight to stay On but dim or to go Off while charging, according to the time set for **Main Display**.
2. Select the desired option to launch its sub-menu and select settings as desired.

Sound Settings

The sound menu provides a variety of options to customize audio properties for such things as ringers, keypad tones alerts, and more.

Volume


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

1. At the **Settings** menu, select **Sound Settings → Volume**.

The following options appear in the display:

- **Voice Calls** — Lets you set the volume and/or vibration for the incoming calls ringer.
- **Messages** — Lets you set the volume and/or vibration for the incoming messages ringer.
- **Alarms** — Lets you set the volume and/or vibration for the alarm ringer.

2. Select a Volume option.


3. Use the Volume key (on the left side of the phone) or the Navigation key to select a volume level (or vibrate mode) for the selected Volume option.
4. Press  to save the setting.

Ringer Type

You can assign ringer types and melody tones for calls, alarms, and other alerts, in the Ringer Type sub-menu.

1. At the **Settings** menu, select **Sound Settings → Ringer Type**. The following options appear in the display:
 - **Voice Calls** — Lets you set which ringtone or sound file plays when you receive a voice call.
 - **Messages** — Lets you set which ringtone or sound file plays when you receive a Text Message, Picture Message, and/or Voicemail message.
When you select **Messages**, the following options appear in the display:
 - **Text Message**
 - **Picture Message**
 - **Voicemail**
 - **Msg Reminder**
2. Select the desired sub-menu.

The following options appear in the display:

- **My Ringtones**
 - **My Sounds**
3. Select the desired option and highlight a Ringer, then press  to save the changed Ringer setting.


Alerts

You can set your phone to sound an alert whenever you enter or leave your service area, connect or disconnect a call, as well as other options.

1. At the **Settings** menu, select **Sound Settings → Alerts**.

The following Alerts sub-menus appear in the display:

- **Minute Beep** — Sounds an alert ten seconds before each elapsed minute of a call.
 - **Roaming** — Sounds an alert when you leave your home service area.
 - **Call Connect** — When you make a call, an alert sounds when the call is answered.
 - **Power On/Off** — Plays a melody when you turn the phone on or off.
 - **Charge Alert** — Plays a melody when you connect the Travel Adapter and when the battery is fully recharged.
2. Select the desired alert, then use the Navigation key to highlight **On** or **Off**.

3. Press  to save your selection.




Key Tone

Key Tone lets you adjust the volume level and length of tone that the keypad generates each time you press a key.

1. At the **Settings** menu, select **Sound Settings → Key Tone**. The following options appear in the display:

- **Tone Level** (volume)
- **Tone Length**

Tone Level is highlighted.

2. Press  to adjust the Key Tone volume.
 - Use the Volume key or Navigation key to set the keypad tones volume.
 - Press **SET** () when the desired key tone volume setting is reached. You are returned to the **Key Tone** sub-menu.
3. Select **Tone Length**, then use the Navigation key to highlight **Short** or **Long**.
4. Press  to save your setting. You are returned to the **Key Tone** sub-menu.

Call Settings

You can use Call Settings to select how your phone handles calls, both voice and data calls.


Call Answer

You can select a specific answer mode when you receive an incoming call. (For more information, refer to “*Call Answer*” on page 25.)

Tip: You can set your phone to answer calls automatically, without any input from you. (For more information, refer to “*Auto Answer*” on page 105.)


Auto Answer

Auto Answer enables your phone to automatically answer calls after a period of time that you specify.

1. At the **Settings** menu, select **Call Settings → Auto Answer**. The following options appear in the display:
 - **Off** — Disables automatic answering of calls.
 - **After 1 Second** — Phone automatically answers calls after 1 second.
 - **After 3 Seconds** — Phone automatically answers calls after 3 seconds.
 - **After 5 Seconds** — Phone automatically answers calls after 5 seconds.
2. Highlight the desired setting, then press .

Auto Retry

Auto Retry automatically re-dials a number if the connection fails. Depending upon your location, the number of times your phone automatically dials the number may vary.


1. At the **Settings** menu, select **Call Settings → Auto Retry**. The **Auto Retry** sub-menu with the following options appears in the display:
 - **Off** — Disables automatic re-dialing of numbers.
 - **Every 10 Seconds** — Phone automatically re-dials a number every 10 seconds.
 - **Every 30 Seconds** — Phone automatically re-dials a number every 30 seconds.
 - **Every 60 Seconds** — Phone automatically re-dials a number every 60 seconds.
2. Highlight the desired setting, then press .

TTY Mode

Your phone is fully TTY compatible. TTY equipment is connected to your phone through the headset connector on the left side of the phone. TTY must be enabled before you can use your phone with a TTY device.

1. At the **Settings** menu, select **Call Settings → TTY Mode**. You are prompted to confirm you want to change the current TTY Mode setting.


Note: The “**Enabling TTY may impair headset use and non-TTY accessory performance.**” message pops up when you select **TTY Mode**.

2. To access the TTY Mode options, press the **Yes** soft key.
To return to the **Call Settings** sub-menu, press the **No** soft key.
3. When you press the **Yes** soft key, the following options appear in the display:
 - **TTY Full** — Enables TTY mode and disables microphone and earpiece.
 - **TTY + Talk** — Enables TTY mode and microphone.
 - **TTY + Hear** — Enables TTY mode and earpiece.
 - **TTY Off** — Disables TTY mode.
4. Use the Navigation key to highlight your selection, then press  to save your selection and return to the **Call Settings** sub-menu.

Note: The TTY icon () appears in the top of the display.

Voice Privacy

Voice Privacy when enabled (that is, set to **Enhanced**), turns on advanced voice encryption.

1. At the **Settings** menu, select **Call Settings → Voice Privacy**. The following options appear in the display:
 - **Standard** — Voice privacy is disabled.
 - **Enhanced** — Voice privacy is enabled.
2. Use the Navigation key to highlight the Voice Privacy setting of your choice, then press  to save your setting.

Phone Settings

Airplane Mode

When set to **On**, Airplane Mode disables all radio functions of your phone. This prevents you from receiving or making calls (except emergency calls), but allows you to use other features (such as the camera and the Tools) safely in sensitive environments, such as on board an aircraft.


1. At the **Settings** menu, select **Phone Settings → Airplane Mode**. The following options appear in the display:
 - **On** — Disables the radio transmitter and receiver in your phone.
 - **Off** — Enables the radio transmitter and receiver in your phone.
2. Select the desired option.
 - When you select **On**, the “**Will disable all incoming and outgoing call?**” prompt appears in the display.
 - When you select **Off**, the “**Will enable all incoming and outgoing call?**” prompt appears in the display.

3. To apply your selection, display/remove the Airplane Mode icon (*Phone Off*), and return to standby mode, press the **Yes** soft key.

To make another selection, press the **No** soft key.

Language

The language option on your phone can change the language of voice prompts, menus, and key-input.

1. At the **Settings** menu, select **Phone Settings** → **Language**. The following options appear in the display:
 - **English**
 - **Español**
2. Use the Navigation key to highlight your language preference, then press  to implement your preferred language.

Security

Use the Security menu to lock your phone, set up emergency numbers, enable or disable voice privacy, set restrictions, as well as other security options.

Lock Phone


Locking the phone limits all outgoing calls except calls to 911 emergency and the three user-programmable emergency numbers. You can lock the phone manually during use, or set the phone to lock automatically when it is turned on. With the phone in lock mode, you can answer incoming calls, but you must unlock the phone to place outgoing calls (except to emergency and secret numbers).

1. At the **Settings** menu, select **Phone Settings** → **Security**. You're prompted to enter the lock code.

Note: The default lock code is the last four digits of your telephone number.

2. Enter the lock code, then select **Lock Phone**.

The following Device Lock Mode options appear in the display:

- **Lock** — Locks the phone immediately (The phone stays locked until you enter the lock code.)
 - **Unlock** — Unlocks the phone.
 - **On Power Up** — The phone locks automatically the next time your phone is powered ON. (The phone stays locked until you enter the lock code.)
3. Use the Navigation key to highlight the desired Device Lock Mode, then press  to invoke your setting.

Change Lock

The default lock code for your phone is generally the last four digits of your phone number. It is advisable to change the default lock code to a secret code for security purposes.

1. At the **Settings** menu, select **Phone Settings → Security**.
You're prompted to enter the lock code.

Note: The default lock code is the last four digits of your telephone number.

2. Enter the lock code, then select **Change Lock**. You're prompted to enter the New Lock Code.
3. Enter the New Lock Code. You're prompted to re-enter the New Lock Code for verification.
4. Enter the New Lock Code again. Your changes are stored.

Note: Your phone does not allow you to view the lock code for obvious security reasons. If you change the lock code, be sure to write down or memorize the new code.

Emergency

Your phone provides the option of storing three emergency numbers. Each number can be up to 32 digits in length. All emergency numbers can be manually called at any time, even

when your phone is locked or restricted. This can be a useful feature for controlling outgoing calls from your phone.

Note: Emergency number 911 is hard-coded into your phone. You can dial this number any time, even when the phone is locked or restricted. If you call 911 an audible tone is heard and an Emergency prompt appears in the display for the duration of the call.

Important!: Because of various transmission methods, network parameters, and user settings necessary to complete a call from your wireless phone, a connection cannot always be guaranteed. Therefore, emergency calling may not be available on all wireless networks at all times.

Important!: DO NOT depend on this phone as a primary method of calling 911 or for any other essential or emergency communications.


Remember to always turn your phone on and check for adequate signal strength before placing a call.

Store Emergency Numbers


1. At the **Settings** menu, select **Phone Settings → Security**.
You're prompted to enter the lock code.

Note: The default lock code is the last four digits of your telephone number.

2. Enter the lock code, then select **Emergency #**.

3. Select one of the three emergency number entries.
4. Enter an emergency number (up to 32 digits in length).
5. Press  to save the number you entered.

Call Emergency Numbers in Lock Mode

1. In standby mode with the phone locked, enter the emergency number.
2. Press  to place the call.

Resetting Your Phone

Reset Phone returns all Settings options to their factory default.

1. At the **Settings** menu, select **Phone Settings → Security**. You're prompted to enter the lock code.

Note: The default lock code is the last four digits of your telephone number.

2. Enter the lock code, then select **Reset Phone**. You are prompted to confirm that you wish to reset your phone's Settings to default values (except for your Contacts list and Voice Dial).
3. To reset your Settings to default values, press the **Yes** soft key.

To keep your current Settings and return to the **Security** sub-menu, press the **No** soft key.

Erase All Entries

Erase All Entries erases your Contacts list entries and My Images photos. This feature is useful if you want to give your phone to someone else.

1. At the **Settings** menu, select **Phone Settings → Security**. You're prompted to enter the lock code.

Note: The default lock code is the last four digits of your telephone number.

2. Enter the lock code, then select **Erase All Entries**. You are prompted to enter the lock code a second time.

Note: The default lock code is the last four digits of your telephone number.

3. You are prompted to confirm erasure of all entries.
4. Press the **Yes** soft key to erase all entries or press the **No** soft key to return to the **Security** sub-menu.


Restriction

Restriction lets you restrict the use of your phone for outgoing calls, incoming calls, and access to your Contacts.

1. At the **Settings** menu, select **Phone Settings → Security**.

You're prompted to enter the lock code.

Note: The default lock code is the last four digits of your telephone number.

2. Enter the lock code, then select **Restriction**. The following options appear in the display:
 - **Outgoing** — Blocks/allows all outgoing calls.
 - **Incoming** — Blocks/allows all incoming calls.
 - **Contacts** — Blocks/allows all access to Contacts list entries.
3. Select the desired Restriction. The following options appear in the display:
 - **On** — Enable the selected Restriction.
 - **Off** — Disable the selected Restriction.
4. Use the Navigation key to highlight **On** or **Off**, then press  to save and implement your new setting.

System Select

The **System Select** menu allows you to select the roaming setting for your phone.

1. At the **Settings** menu, select **Phone Settings → System Select**. The following roaming options appear in the display:
 - **Home only** — Your phone is available for normal operation only within your designated coverage area.

- **Automatic** — Your Wireless Provider's Preferred Roaming List (PRL) of networks is used to acquire service. If no preferred networks are found, any digital system is acquired.

2. Select the desired roaming option. Your setting is saved, and you are returned to the **Phone Settings** menu.


Set Time




Use the **Set Time** option to set the current date and time while in an analog network.

Note: In digital service mode, the Set Time feature is disabled. The network adjusts time and date automatically.

1. At the **Settings** menu, select **Phone Settings → Set Time**.


The following options appear in the display:

- **Set Date**
 - **Set Time**
2. Select the desired option.
 - For **Set Date**, the **Set Date** screen appears in the display.
 - Enter the current date in mm/dd/yyyy format using your keypad. The month and day entries require two digits each. The year must be entered using all four digits.
 - Press  to save your Date setting.
 - For **Set Time**, the **Set Time** screen appears in the display.

- Enter the current time using your keypad. The hour and minute must be entered using two digits each and in 12/24-hour format.
- Use the Up/Down navigation keys to highlight the time-of-day setting (am/pm) field.
- Use the Left/Right navigation keys to select **am**, **pm**, or **24 Hours**. [You can also press  (for **am**) or  (for **pm**).]
- Press  to save the your Time setting.

Quick Search

Quick Search is an easy way to locate Menu items and Contacts.

1. At the **Settings** menu, select **Phone Settings** → **Quick Search**. The following options appear in the display:
 - **On** — Quick Search is enabled
 - **Off** — Quick Search is disabled
2. Use the Navigation key to highlight the desired Quick Search option, then press the  key to save your setting.


Searching for a Menu Item

1. In standby mode, press the first few numeric keys that correspond to the letters of the Menu item name.

For example, to search for “Inbox” you would enter:



2. Press the Down navigation key. The **Menu List** screen appears in the display showing a list of menu items that match your entry.
3. Select the desired menu item to access the content of the menu item.


Tip: If the menu item you are searching for does not appear in the **Menu List** screen, try expanding your search by pressing  to delete the last digit of your entry.

Searching for a Contact

1. In standby mode, press the first few numeric keys that correspond to the letters of the contacts name.

For example, to search for “Sally” you would enter:



2. Press the Up navigation key. The **Find** screen appears in the display showing a list of Contact names that match your entry.
3. Highlight the desired Contact, then press  to call the highlighted Contact.

PC Connection

PC Connection lets you allow or block PC connections to your phone, using an optional USB Data Cable.


1. From the **Settings** menu, select **Phone Settings** → **PC Connection**. The following settings appear in the display:
 - **USB Mass Storage** — Your phone appears as a removable disk drive to your PC, allowing you to transfer files (such as, music or text files) to and from your phone.
 - **No Connection** — Blocks connection and file transfers with a PC.
2. Select the desired setting.

Auto Key Lock

With Auto Key Lock set to On, your phone automatically disables its keys when the screen backlight goes out with the phone closed.

1. From the **Settings** menu, select **Phone Settings** → **Auto Key Lock**. The following settings appear in the display:
 - **On**
 - **Off**
2. Select the desired option.

To unlock the keys:

1. Open the QWERTY keypad,
– Or –
Turn the screen backlight on by pressing any key.
2. Press the Unlock soft key. “**Press * to unlock keys**” pops-up in the display.
3. Press .

Memory Info

Memory Info lets you quickly and easily review and manage your phone memory usage. To access **Memory Info**, do the following:

1. At the **Settings** menu, select **Memory Info**.

The following options appear in the display:

- **Save Options** — Lets you specify whether your images and videos will be stored in your phone or on an optional Memory Card.
- **Phone Memory** — Lets you review your phone's available memory and manage your files stored there.
- **Card Memory** — Lets you review a removable Memory Card's available memory, manage your files stored there, and format new Memory Cards.

Save Options

Lets you specify where you want your images and videos stored. To access **Save Options**, do the following:


1. At the **Settings** menu, select **Memory Info → Save Options → Images**. The following storage options appear in the display:
 - **Phone Memory** — saves the selected type of files in your phone's memory.
 - **Card Memory** — saves the selected type of files in a removable microSD memory card.
2. Select the desired storage location. “**Save Options set**” appears in the display, and you are returned to the **Save Options** menu.

Phone Memory

Lets you review your phone's available memory and manage your files stored there.

Memory Usage

Memory Usage lets you review your usage of your phone's memory.

1. At the **Settings** menu, select **Memory Info → Phone Memory → Memory Usage**. The **Memory Usage** screen appears in the display showing the following information:
 - **Total Used** memory usage
 - **Available** unused memory
 - **My Images** memory usage
 - **My Ringtones** memory usage
 - **My Sounds** memory usage
 - **Applications** memory usage
 - **PIC Msg** memory usage
2. Press  to return to the **Phone Memory** menu.

Freeing Memory

Phone Memory sub-menus let you list files in your multimedia folders and let you erase or move files as needed to free up memory on your phone for reuse.


1. At the **Settings** menu, select **Memory Info → Phone Memory**. The **Phone Memory** screen appears in the display listing the following options:

- **Memory Usage**
- **My Images**
- **My Ringtones**
- **My Sounds**

2. Select the desired folder. A list of all files in the related folder appears in the display.


Files are listed by name, and each file entry shows the name and size of each file.



3. To erase files, do the following:

- Press the **Erase** soft key.
 - Or –
 - Press the **Options** soft key. The following options appear in the display:
 - **Erase**
 - **Move**
 - **Copy**
- Select **Erase**.
- Highlight a file you want to erase, then press  to mark the file for erasure. (Press the **Mark All** soft key to mark all files for erasure.)
- Press the **Done** soft key. You are prompted to confirm erasure of the selected file(s).

- Press the **Yes** soft key to erase all marked files or press the **No** soft key to return to the **Erase** screen.

4. To move/copy image files to the Memory Card, do the following:

- Press the **Options** soft key. The following options appear in the display:
 - **Erase**
 - **Move**
 - **Copy**
- Select **Move/Copy**.
- Highlight a file you want to move, then press  to mark the file for moving. (Press the **Mark All** soft key to mark all files for moving.)
- Press the **Done** soft key. You are prompted to confirm moving the selected file(s) to the Memory Card.
- Press the **Yes** soft key to move all marked files or press the **No** soft key to return to the **Move** screen.

5. Press  to return to the **My Images / Ringtones / Sounds** sub-menu. Press  to return to standby mode.

Card Memory

Card Memory lets you review a removable, microSD Memory Card's available memory, manage your files stored there, and format new microSD Memory Cards.

Memory Usage

Memory Usage lets you review your usage of your Memory Card.

1. At the **Settings** menu, select **Memory Info → Card Memory → Memory Usage**. The **Memory Usage** screen appears in the display showing the following information:
 - **Total Used** memory usage
 - **Available** unused memory
 - **My Images** memory usage
 - **My Music** memory usage
 - **My Ringtones** memory usage
 - **My Sounds** memory usage
2. Press **OK** to return to the **Card Memory** menu.





Freeing Memory

Card Memory sub-menus let you list files in your multimedia folders and let you erase or move files as needed to free up space on your Memory Card for reuse.

1. At the **Settings** menu, select **Memory Info → Card Memory**. The **Card Memory** screen appears in the display listing the following options:
 - **Memory Usage**
 - **My Images**

- **My Music**
- **My Ringtones**
- **My Sounds**
- **Format Card**

2. Select the desired folder. A list of all files in the folder appears in the display.
Files are listed by name, and each file entry shows the name and size of each file.
3. To erase Image files, do the following:
 - Press the **Options** soft key. The following options appear in the display:
 - **Erase**
 - **Move**
 - **Copy**
 - Select **Erase**.
 - Highlight a file you want to erase, then press **OK** to mark the file for erasure. (Press the **Mark All** soft key to mark all files for erasure.)
 - Press the **Done** soft key. You are prompted to confirm erasure of the selected file(s).
 - Press the **Yes** soft key to erase all marked files or press the **No** soft key to return to the **Erase** screen.
4. To erase Music/Ringtone/Sound files, do the following:
 - Press the **Erase** soft key.

- Highlight a Music/Ringtone/Sound file you want to erase, then press  to mark the file for erasure. (Press the **Mark All** soft key to mark all Music files for erasure.)
 - Press the **Done** soft key. You are prompted to confirm erasure of the selected file(s).
 - Press the **Yes** soft key to erase all marked files or press the **No** soft key to return to the **Erase** screen.
5. To move or copy image files to the phone, do the following:
- Press the **Options** soft key. The following options appear in the display:
 - **Erase**
 - **Move**
 - **Copy**
 - Select **Move** or **Copy**.
 - Highlight an image file you want to move or copy, then press  to mark the file for moving. (Press the **Mark All** soft key to mark all files for moving.)
 - Press the **Done** soft key. You are prompted to confirm moving or copying the selected file(s) to the phone.
 - Press the **Yes** soft key to move or copy all marked files or press the **No** soft key to return to the **Move** or **Copy** screen.
6. Press  to return to the **My Images / Music / Ringtones / Sounds** sub-menu. Press  to return to standby mode.

Formatting a Memory Card

Formatting a microSD Memory Card erases any data currently on the card and creates multimedia directories compatible with your phone. To format a Memory Card, do the following:

1. At the **Settings** menu, select **Memory Info → Card Memory → Format Card**. You are prompted to confirm formatting of the Memory Card.
2. Press the **Yes** soft key to format the Memory Card or press the **No** soft key to return to the **Card Memory** screen.


Phone Info

Phone Info options let you identify important information about your phone, such as the hardware and software versions of your phone, the meanings of your phone's status icons, and the phone number assigned to your phone.

Phone Number


This option causes the Phone Number screen to appear in the display and show the ten-digit number assigned to your phone by your Wireless Provider.

1. At the **Settings** menu, select **Phone Info → Phone Number**. The phone number assigned by your Wireless Provider appears in the display.

2. Press  to return to the **Phone Info** menu.


Icon Glossary

This option causes the ICON GLOSSARY list to appear in the display and show the icons that can appear in the display and the names of the icons.

1. At the **Settings** menu, select **Phone Info → Icon Glossary**. A list of the icons that can appear on the top line of the display shows in the display.
2. Press  to return to the **Phone Info** menu.


Version

You can view both the software and hardware version of your phone using this feature. This feature is helpful if you need to contact Customer Service.

1. At the **Settings** menu, select **Phone Info → Version**.
Your phone's hardware and software version information appears in the display.
2. Press  to return to the **Phone Info** menu.

ESN / MEID

You can view the ESN (Electronic Serial Number)/MEID (Mobile Equipment Identifier) values for your phone in both Decimal and Hex values from this menu.

1. At the **Settings** menu, select **Phone Info → ESN/MEID**.
The ESN/MEID information displays in Dec and Hex.
2. Press  to return to the **Phone Info** menu.

Warranty Date Code

Your phone provides a customer warranty date code. The code (date MM/DD/YYYY and time HH:MM) is populated into the phone after 10 minutes of CDMA usage time. This Date Code value may be used to determine the device warranty status.

You can view the Warranty data code for your phone.

- ▶ At the **Settings** menu, select **Phone Info → Warranty Date Code**.
The Warranty Date Code information appears in the display.

Refurbish

If your phone has been refurbished by the manufacturer, your phone records the date and time it was last refurbished and the number of times it has been refurbished.

- ▶ At the **Settings** menu, select **Phone Info** → **Refurbish**. The following information appears in the display:
 - Date and Time your phone was last refurbished.
 - **Refurbish counter** — Shows number of times your phone has been refurbished.

Section 15: Health and Safety Information

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

Health and Safety Information

Exposure to Radio Frequency (RF) Signals

Certification Information (SAR)

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

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

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

The exposure limit set by the FCC for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR is a measure of the rate of

absorption of RF energy by the human body expressed in units of watts per kilogram (W/kg). The FCC requires wireless phones to comply with a safety limit of 1.6 watts per kilogram (1.6 W/kg).

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

SAR tests are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

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

For body worn operation, this phone has been tested and meets FCC RF exposure guidelines when used with an accessory that

contains no metal and that positions the handset a minimum of 1.5 cm from the body.

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

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

- **Head:** 1.42 W/Kg.
- **Body-worn:** 0.998 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.

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://www.samsung.com/us/consumer/type/type.do?group=mobilephones&type=mobilephones> for more information.

UL Certified Travel Adapter

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

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

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS.

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

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

Consumer Information on Wireless Phones

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

What kinds of phones are the subject of this update?

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

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

Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radio frequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

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

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

health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

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

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

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

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

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

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones.

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

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

What are the results of the research done already?

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

cancer-causing chemicals so as to be pre-disposed to develop cancer in absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health.

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

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

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

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

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

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

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

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

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

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

CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

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

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

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

away from your body or use a wireless phone connected to a remote antenna.

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

What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radio frequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.

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

They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it

was not based on scientific evidence that any health hazard exists.

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

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

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

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

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

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

What about wireless phone interference with medical equipment?

Radio frequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical Instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested

wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a compatible phone and a compatible hearing aid at the same time. This standard was approved by the IEEE in 2000.

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

Additional information on the safety of RF exposures from various sources can be obtained from the following organizations (Updated 12/1/2006):

- FCC RF Safety Program:
<http://www.fcc.gov/oet/rfsafety/>
- Environmental Protection Agency (EPA):
<http://www.epa.gov/radiation/>
- Occupational Safety and Health Administration's (OSHA):
<http://www.osha.gov/SLTC/radiofrequencyradiation/index.html>
- National Institute for Occupational Safety and Health (NIOSH):
<http://www.cdc.gov/niosh/homepage.html>
- World Health Organization (WHO):
<http://www.who.int/peh-emf/>

- International Commission on Non-Ionizing Radiation Protection:
<http://www.icnirp.de>
- National Radiation Protection Board (UK):
<http://www.hpa.org.uk/radiation>
- US Food and Drug Administration:
<http://www.fda.gov/cellphones>

Road Safety

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

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

1. Get to know your wireless phone and its features, such as speed dial and redial. If available, these features help you to place your call without taking your attention off the road.
2. When available, use a hands-free device. If possible, add an additional layer of convenience and safety to your wireless phone with one of the many hands free accessories available today.

3. Position your wireless phone within easy reach. Be able to access your wireless phone without removing your eyes from the road. If you get an incoming call at an inconvenient time, let your voice mail answer it for you.
4. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow, ice and even heavy traffic can be hazardous.
5. Do not take notes or look up phone numbers while driving. Jotting down a "to do" list or flipping through your address book takes attention away from your primary responsibility, driving safely.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.
7. Do not engage in stressful or emotional conversations that may be distracting. Make people you are talking with aware you are driving and suspend conversations that have the potential to divert your attention from the road.
8. Use your wireless phone to call for help. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident or medical emergencies.
9. Use your wireless phone to help others in emergencies. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.
10. Call roadside assistance or a special non-emergency wireless assistance number when necessary. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or other special non-emergency number.

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

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

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

Provided by the Cellular Telecommunications & Internet Association.

Responsible Listening

Caution!: Avoid potential hearing loss.

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

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

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

- 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, you 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

Voice: (301) 496-7243

Email: nidcdinfo@nih.gov

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

National Institute for Occupational Safety and Health

Hubert H. Humphrey Bldg.

200 Independence Ave., SW

Washington, DC 20201

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

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.

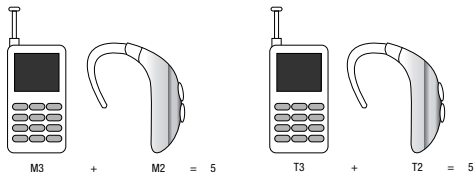
The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not be able to use a rated phone successfully. Trying out the phone with your hearing device is the best way to evaluate 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, One Batterymarch Park, Quincy, MA 02269, Attn: Publication Sales Division.

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 “*Bluetooth*” on page 84.
- 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 16: Warranty Information

Standard Limited Warranty

What is Covered and For How Long?

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

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

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

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

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

What are SAMSUNG's Obligations? During the applicable warranty period, SAMSUNG will repair or replace, at SAMSUNG's sole option, without charge to Purchaser, any defective component part of Product. To obtain service under this Limited Warranty, Purchaser must return Product to an authorized phone service

facility in an adequate container for shipping, accompanied by Purchaser's sales receipt or comparable substitute proof of sale showing the date of purchase, the serial number of Product and the sellers' name and address. To obtain assistance on where to deliver the Product, call Samsung Customer Care at 1-888-987-4357. Upon receipt, SAMSUNG will promptly repair or replace the defective Product. SAMSUNG may, at SAMSUNG's sole option, use rebuilt, reconditioned, or new parts or components when repairing any Product or replace Product with a rebuilt, reconditioned or new Product. Repaired/replaced leather cases, pouches and holsters will be warranted for a period of ninety (90) days. All other repaired/replaced Product will be warranted for a period equal to the remainder of the original Limited Warranty on the original Product or for 90 days, whichever is longer. All replaced parts, components, boards and equipment shall become the property of SAMSUNG.

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

WHAT ARE THE LIMITS ON SAMSUNG'S WARRANTY/LIABILITY?

EXCEPT AS SET FORTH IN THE EXPRESS WARRANTY CONTAINED HEREIN, PURCHASER TAKES THE PRODUCT "AS IS," AND SAMSUNG MAKES NO WARRANTY OR REPRESENTATION AND THERE ARE NO CONDITIONS, EXPRESS OR IMPLIED, STATUTORY

OR OTHERWISE, OF ANY KIND WHATSOEVER WITH RESPECT TO THE PRODUCT, INCLUDING BUT NOT LIMITED TO:

- 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.

NOTHING CONTAINED IN THE INSTRUCTION MANUAL SHALL BE CONSTRUED TO CREATE AN EXPRESS WARRANTY OF ANY KIND WHATSOEVER WITH RESPECT TO THE PRODUCT. ALL IMPLIED WARRANTIES AND CONDITIONS THAT MAY ARISE BY OPERATION OF LAW, INCLUDING IF APPLICABLE THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY LIMITED TO THE SAME DURATION OF TIME AS THE EXPRESS WRITTEN WARRANTY STATED HEREIN. SOME STATES/PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. IN ADDITION, SAMSUNG SHALL NOT BE LIABLE FOR ANY DAMAGES OF ANY KIND RESULTING FROM THE PURCHASE, USE, OR MISUSE OF, OR INABILITY TO USE THE PRODUCT OR ARISING DIRECTLY OR INDIRECTLY FROM THE USE

OR LOSS OF USE OF THE PRODUCT OR FROM THE BREACH OF THE EXPRESS WARRANTY, INCLUDING INCIDENTAL, SPECIAL, CONSEQUENTIAL OR SIMILAR DAMAGES, OR LOSS OF ANTICIPATED PROFITS OR BENEFITS, OR FOR DAMAGES ARISING FROM ANY TORT (INCLUDING NEGLIGENCE OR GROSS NEGLIGENCE) OR FAULT COMMITTED BY SAMSUNG, ITS AGENTS OR EMPLOYEES, OR FOR ANY BREACH OF CONTRACT OR FOR ANY CLAIM BROUGHT AGAINST PURCHASER BY ANY OTHER PARTY. SOME STATES/PROVINCES 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/PROVINCE TO PROVINCE. 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. THE PARTIES UNDERSTAND THAT THE PURCHASER MAY USE THIRD-PARTY SOFTWARE OR EQUIPMENT

IN CONJUNCTION WITH THE PRODUCT. SAMSUNG MAKES NO WARRANTIES OR REPRESENTATIONS AND THERE ARE NO CONDITIONS, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, AS TO THE QUALITY, CAPABILITIES, OPERATIONS, PERFORMANCE OR SUITABILITY OF ANY THIRDPARTY SOFTWARE OR EQUIPMENT, WHETHER SUCH THIRD-PARTY SOFTWARE OR EQUIPMENT IS INCLUDED WITH THE PRODUCT DISTRIBUTED BY SAMSUNG OR OTHERWISE, INCLUDING THE ABILITY TO INTEGRATE ANY SUCH SOFTWARE OR EQUIPMENT WITH THE PRODUCT. THE QUALITY, CAPABILITIES, OPERATIONS, PERFORMANCE AND SUITABILITY OF ANY SUCH THIRD-PARTY SOFTWARE OR EQUIPMENT LIE SOLELY WITH THE PURCHASER AND THE DIRECT VENDOR, OWNER OR SUPPLIER OF SUCH THIRD-PARTY SOFTWARE OR EQUIPMENT, AS THE CASE MAY BE.

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.

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 St.

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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