Sound Settings

The Sound menu provides the ability to access the following menus:

Master Volume

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 3 **Sound Settings**. The **Sound Settings** menus are listed in the display.
2. Press 1 **Master Volume**.
3. Use the **Up** and **Down** navigation keys to adjust the volume. Press the left soft key **Play** to hear the volume.
4. Press OK **SET** to save.

Call Sounds

Ringer Settings

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 3 **Sound Settings**. The **Sound Settings** menus are listed in the display.
2. Press 2 **Call Sounds**. Press 1 **Call Ringtone**. Available options are:
   - **My Ringtones**: You can get new ringtones from the web or choose from the list.
   - **My Sounds**: You can record new sounds to use or choose from the list.
3. Press 2 **Call Vibrate** to set the Call Sounds to vibrate.

Note: Call Vibrate does not turn on VibeTonz. See "VibeTonz®" on page 104 for information on how to turn on VibeTonz.

4. Press OK to save the setting. The phone returns to the Call Sound menu.

Alert Sounds

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 3 **Sound Settings**. The **Sound Settings** menus are listed in the display.
2. Press 3 **Alert Sounds**. For the following options, you can set the tone for the message alerts. You can also set vibration on and set a reminder for messages.
   - **TXT Message**
   - **PIX Message**
   - **Voicemail Msg**
   - **Device Connect**

Keypad Volume

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 3 **Sound Settings**. The **Sound Settings** menus are listed in the display.
2. Press 4 **Keypad Volume**.
3. Use the **Up** and **Down** navigation keys to adjust the keypad volume.
4. Press OK **SET** to save.

Earpiece Volume

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 3 **Sound Settings**. The **Sound Settings** menus are listed in the display.
2. Press 5 **Earpiece Volume**.
3. Use the **Up** and **Down** navigation keys to adjust the keypad volume.
4. Press OK **SET** to save.

Service Alerts

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 3 **Sound Settings**. The **Sound Settings** menus are listed in the display.
2. Press 6 **Service Alerts**. For the following options, you can the Service Alert **On** or **Off**.
   - **ERI**
   - **Minute Beep**
   - **Call Connect**

Power On/Off

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 3 **Sound Settings**. The **Sound Settings** menus are listed in the display.
2. Press 7 **Power On/Off**. You can set the sounds for Power On and Power Off to either **On** or **Off**.

VibeTonz®

VibeTonz® makes your phone vibrate in sync with the rhythm of a selected ringtone with VibeTonz® capability.

Note: VibeTonz display the VibeTonz icon.

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1. In standby mode, press **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press **Sound Settings**. The **Sound Settings** menus are listed in the display.
2. Press **VibeTonz**. You can set the vibration for either **On** or **Off**.

Display Settings

The **Display** menu affects the menu style, standby mode animation, backlight settings, and more.

1. In standby mode, press **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press **Display Settings**. The **Display Settings** menus are listed in the display.
   - **Banner**: Create your own personalized greeting that appears in the display when your phone is in standby mode or turn Off/On the ERI Banner which displays the network in which you have subscribed.
   - **Backlight**: Choose settings for the LCD or Keypad.
   - **Contrast**: Choose the setting for the front LCD
   - **Wallpaper**: Choose PIX (Pre-loaded or personal) to use as the background display for your Main LCD or Front LCD.
   - **Display Themes**: Choose from 4 preset colors used for menu display.

- **Clock Format**: Choose digital or analog format for time display on Main or Front LCD.
- **Power On/Off**: Choose the media that appears in the display when you turn the phone on and off.
- **Dialing Font**: Choose a dialing font style. You can also turn hyphenation On or Off.

2. Use the navigation key to highlight the display menu that you wish to edit, then press OK.
3. Use the navigation key to select from the menu options that appear in the display, then press OK. Your settings are saved.

Banner

Banner allows you to create your own personalized greeting that appears in the display while your phone is in standby mode. Or you can display the network to which you are subscribed.

To create a personal banner:

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 4 **Display Settings**. The **Display Settings** menus are listed in the display. Press 1 **Banner**.
2. Press 1 **Personal** to create a customized **banner** for your handset that will appear in the display on the second line below the top status bar.

Note: Press and hold CLR to erase an existing banner, if necessary.

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3. Enter a word or short phrase (12 characters or less) to appear in your phone's display when the phone is in standby mode.
4. Press OK to save the new banner.

To turn Off/On the ERI banner:

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 4 **Display Settings**. The **Display Settings** menus are listed in the display. Press 1 **Banner**.
2. Press 2 to set the **ERI Banner** for your handset.
3. Select On or Off and press OK to save the new setting.

Backlight

Set the **backlight** for the display or keypad to remain on for a specified period of time or to remain on as long as the flip is open.

Note: Prolonged backlight use drains your battery faster.

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1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 4 **Display Settings**. The **Display Settings** menus are listed in the display. Press 2 **Backlight**. The menus listed appear in the display.

- **Display**: The following options are for the Main LCD.
  - **Duration**: Can be set to 7 seconds, 15 seconds, 30 seconds, Always On, or Always Off.
  - **Brightness**: Use the Navigation keys to adjust the brightness.
- **Keypad**: The following options are for the keypad.

- **7 Seconds**: The backlight is on for 7 seconds.
- **15 Seconds**: The backlight is on for 15 seconds.
- **30 Seconds**: The backlight is on for 30 seconds.
- **Always On**: The backlight is always on.
- **Always Off**: The backlight is always off.

2. Use the navigation key to highlight a menu.
3. Press OK to enter the highlighted option's menu and change settings as desired.

Contrast

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 4 **Display Settings**. The **Display Settings** menus are listed in the display. Press 3 **Contrast**. .
2. Use the left/right navigation key to set **Contrast** level for the front LCD and press OK.

Wallpaper

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 4 **Display Settings**. The **Display Settings** menus are listed in the display. Press 4 **Wallpaper**. **Main Screen** and **Front Screen** appear in the display.
2. Use the navigation key to highlight **Main Screen** or **Front Screen**, then press OK.
3. Use the navigation key to highlight **My PIX** or **Pre-loaded PIX,** then press OK.

4. Use the navigation key to highlight your selection, then press OK to select the wallpaper that will appear in the Main LCD or Front LCD display while your phone is in standby mode.

Display Themes

Choose from 4 preset colors used for menu display.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 4 **Display Settings**. The **Display Settings** menus are listed in the display. Press 5 **Display Themes**.
2. Use the navigation keys to select the Display Theme you wish, then press OK.

Clock Format

This menu allows you to have time displayed in digital or analog format.

- Main Clock: Set to Digital, Analog, or Off
- Front Clock: Set to Digital, Analog, or Off.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 4 **Display Settings**. The **Display Settings** menus are listed in the display. Press 6 **Clock Format**. The **Clock Format** menus are listed in the display.
2. The following options appear in the display. Highlight one of the following options and press OK to save.
   - **Main Clock**

- **Digital:** Time appears in digital format, for example, 12:54pm.
- **Analog**: Time appears in clock format. Digital format is still present in the display.
- **Off**: No time is displayed.

- **Front Clock**
  - **Digital:** Time appears in digital format, for example, 12:54pm.
  - **Analog**: Time appears in clock format.
  - **Off**: No time is displayed.

Power On/Off

Animation allows you to choose pre-loaded animation (displays when you turn your phone on/off) or pictures (displays when you turn your phone on) that appear in your phone's display.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 4 **Display Settings**. The **Display Settings** menus are listed in the display. Press 7 **Power On/ Off**.
2. Use the navigation key to highlight **Power On** or **Power Off**, then press OK.
3. Use the navigation keys to select **Animation 1** or **Animation 2**, and press OK to save settings.

Dialing Font

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 4 **Display Settings**. The **Display Settings** menus are listed in the display. Press 8 **Dialing Font**.

2. The following options appear in the display:
   - **Size**: numbers appear in selected font size when dialing a number. Choose Normal or Large font.
   - **Style**: numbers appear in selected font style and color when dialing a number. Choose from Normal, Quill Pen, Sticky Notes, Color Dial.
   - **Hyphenation**: turn on to add hyphens to dialed numbers. Example, 222-222-2222.
3. Use the navigation keys to select dialing font preferences, then press OK.

Phone Settings

The Phone Settings menu provides the ability to access the following menus:

Standalone Mode

With **Standalone Mode** on, all RF functions for your phone are disabled, and you cannot use your phone to place or receive calls.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 5 **Phone Settings**. The **Phone Settings** menus are listed in the display.
2. Press 1 **Standalone Mode**. Use the **Up** or **Down** navigation key to select **On** or **Off** and press OK.

Shortcut Key

Shortcut Key allows you to select from up to 18 applications that appear in the display when you press the down navigation key in standby mode.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 5 **Phone Settings**. The **Phone Settings** menus are listed in the display. Press 2 **Shortcut Key**.
2. Use the navigation key to select the menu item shortcut of your choice, then press OK.

Language

Change the display language from English to Spanish or vice versa using the **Language** menu.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 5 **Phone Settings**. The **Phone Settings** menus are listed in the display. Press 3 **Language**.
2. Use the navigation key to select the language of your choice, then press OK.

Location

Note: This feature is only available on the Verizon Wireless network.

The **Location** (GPS) setting identifies your location to the network. You can fully enable this setting or set GPS to work only in the case that you dial 911 from your phone.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 5 **Phone Settings**. The **Phone Settings** menus

are listed in the display.

2. Press 4 **Location**. The Location screen displays.
   - **Location On**: GPS location setting is on wherever the feature is available.
   - **E911 Only**: GPS location setting is on whenever you dial 911 only.
3. Use the navigation key to highlight an option.
4. Press OK to select the highlighted setting.

Security

The **Security** menu allows you to lock your phone, set restrictions, and other security options.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 5 **Phone Settings**.
2. Use the navigation key to highlight **Security**, press OK.
3. Enter the lock code (factory settings are the last four digits of your telephone number). The following options display:
   - **Common Code**: Common code On, uses a common password for both device and location lock code. Common code Off, uses separate passwords for both device and location.
   - **Lock Mode**: Allows you to lock the **Device** or **Location**.
   - **Edit Code**: Allows you to change the **Lock Code** for the **Device** or **Location**.
   - **Reset Phone**: All settings (except Contacts) are reset to factory default settings.

Lock Phone

Lock Phone restricts the use of your phone with the exception of outgoing calls to 911. Lock Phone allows you to answer calls, but to place calls (except to emergency numbers) you have to unlock the phone.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 5 **Phone Settings**. The **Phone Settings** menus are listed in the display.
2. Press 5 **Security**. You're prompted to enter the lock code. The default lock code is the last four digits of your telephone number.
3. Enter the **Lock Code**. Several security menus appear in the display.
4. Press 2 **Lock Mode**. Use the navigation key to highlight **Device** and press OK. The following options display:
   - **Lock**: Your phone returns to standby mode. The Lock Code is required immediately to access any functions, except receiving a call or placing an emergency call to 911.
   - **Unlock**: If locked, unlocks the phone.
   - **On Power Up**: The Lock Code is required whenever you power up the phone.
5. Press OK to perform the function for the highlighted option.

Lock Location

Lock Location restricts the user from changing location setting until Lock Code is entered.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 5 **Phone Settings**. The **Phone Settings** menus are listed in the display.
2. Press 5 **Security**. You're prompted to enter the lock code. The default lock code is the last four digits of your telephone number.
3. Enter the **Lock Code**. Several security menus appear in the display.
4. Press 2 **Lock Mode**. Use the navigation key to highlight **Location**. Press OK.

   The following options display:

   - **Lock**: The Lock Code is required to change Location setting.
   - **Unlock**: Allows user to have access to Location setting without Lock Code.
5. Press OK to perform the function for the highlighted option.

Edit Lock Code

The default lock code is the last four digits of your phone number. **Edit Code** allows you to change this code to a lock code of your preference.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 5 **Phone Settings**. The **Phone Settings** menus are listed in the display.

2. Press 5 **Security**. You're prompted to enter the lock code. The default lock code is the last four digits of your telephone number.
3. Press 3 **Edit Code**. Two options are available **Device** and **Location.** Use the navigation keys to highlight your choice and press OK.
4. At the "**ENTER NEW LOCK CODE**" or "**ENTER NEW LOCATION LOCK CODE**" prompt, enter the new lock code. You're prompted to confirm the new lock code.
5. "**DEVICE CODE SET**" or "**LOCATION LOCK CODE SET**" message appears in the display confirming that your lock code has been changed.

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.

Resetting Your Phone

Reset Phone returns all setup options to their factory default.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 5 **Phone Settings**. The **Phone Settings** menus are listed in the display.
2. Press 5 **Security**, and enter the lock code. Press 4 **Reset Phone**. A prompt appears in the display asking if you wish to restore default settings (except for the Contacts).

3. Press **Yes** to restore default settings or press **No** to return to the Security list.

Emergency

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: 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.

Call Emergency Numbers in Lock Mode

In Lock Mode, you can dial 911 to place an emergency call.

Note: If you dial 911, your phone dials the emergency number immediately (no prompt).

System Select

The **System Select** menu allows you to set your roaming options. For information on roaming options, see "Roaming Options" on page 37.

NAM Selection

Your phone provides the option of selecting between two NAMs (Number Assignment Modules) or phone numbers. Select either NAM1 or NAM2.

Quick Search

Quick Search is an easy way to locate contacts in your Address Book and Menu items. Quick Search default setting is **Off**. To turn **On** perform the following.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 5 **Phone Settings**. The **Phone Settings** menus are listed in the display.
2. Press 8 **Quick Search**.
3. Select **On** and press the OK key.

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

   7 2 5 5 9

   S A L L Y

2. Press the **Up** navigation key. The contact name is highlighted.
3. Press the SEND key to call the contact.

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 item is highlighted.
3. Press the OK key to access the content of the menu item.

PC Connection

PC Connection allows you to select how you want your a870 to connect to your PC. Choose either **USB**, or **Bluetooth** and press OK. Select **No Connection** to disable PC Connection.

Time & Date

Time & Date allows you to set the time displayed in both the front and main LCD.

Note: If you have roamed onto an Analog network in a different time zone. This setting does not apply when you are operating on a CDMA/1X digital network.

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1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 5 **Phone Settings**. The **Phone Settings** menus are listed in the display.

2. Press OK **Time & Date**.
3. Press 1 **Set Time** to set the time when in Analog Mode.
   Press 2 **Set Date** to set the date when in Analog Mode.

Note: When in Analog Mode the A icon will display in the status bar.

Call Settings

The **Call Settings** menu allows you to select the method for answering incoming calls, setting redial options, setting data rates for data calls, voice privacy, and more.

Answer Options

The **Answer Options** menu allows you to select the method for answering incoming calls.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 6 **Call Settings**. The **Call Settings** menus are listed in the display.
2. Press 1 **Answer Options**. The following options appear in the display:
   - Flip Open: Calls are answered when the flip is opened.
   - Any Key: Calls are answered when any key is pressed.
   - Send Only: Calls are answered when the SEND key is pressed.
   - Auto Answer: Calls are answered automatically with a 1, 3 or 5 second delay.
3. Use the navigation key to highlight the method you wish to use for answering calls, then press OK.

Auto Retry

Auto Retry automatically redials busy numbers after a preset period of time.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 6 **Call Settings**. The **Call Settings** menus are listed in the display.
2. Press 2 **Auto Retry**. The following options appear in the display:
   - **Off**
   - **Every 10 Seconds**
   - **Every 30 Seconds**
   - **Every 60 Seconds**
3. Highlight an option and press OK, or press CLR to return to the Call Settings menu without making a selection.

TTY Mode

Before you can use your phone with a TTY device, you'll need to enable TTY functions in the phone. See "TTY" on page 38 for more information.

One Touch Dial

You can use this option to enable or disable the speed dialing feature.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 6 **Call Settings**. The **Call Settings** menus are listed in the display.

2. Press 4 **One Touch Dial**. Select **On** or **Off**. Press OK **OK** to save.

   See "Speed Dialing" on page 75 for more information.

Voice Privacy

Note: This feature is only available on the Verizon Wireless network.

Voice Privacy (at the Enhanced setting) allows you to prevent those you call from seeing your number in their display when receiving your call. Voice privacy options are Standard and Enhanced.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 6 **Call Settings**. The **Call Settings** menus are listed in the display.
2. Press 5 **Voice Privacy**. The menus listed appear in the display. **Standard** and **Enhanced** appear in the display.
3. Use the navigation key to highlight the **Voice Privacy** option of your choice, then press OK. Your settings are saved.

Call Restrictions

Call Restriction allows you to restrict outgoing and incoming calls when set to On. You can also restrict access to your Contacts list.

Note: This feature is most helpful when used in combination with Lock Phone setting.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 6 **Call Settings**. The **Call Settings** menus are listed in the display.
2. Press 6 **Call Restrictions**.
3. Use the navigation key to select **Outgoing**, **Incoming**, or **Contacts**, then press OK.
4. Use the navigation key to highlight **On** or **Off**, then press OK. Your settings are saved.

Data Settings

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 6 **Call Settings**. The **Call Settings** menus are listed in the display.
2. Press 7 **Data Settings**. The following options appear in the display. Highlight one of the following options and press OK.
   - **Data Off:** Phone operates in normal voice call mode.
   - **Data For Next Call**: Data call is enabled for next call only. Phone will reset to Data Off mode after call.
   - **Data Until Powered**: Phone will remain in Data Mode until phone is powered off.

DTMF Tones

Use this menu to set DTMF tones to Normal, or Long.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press **Call Settings**. The **Call Settings** menus are listed in the display.
2. Press 8 **DTMF Tones**. The following options appear in the display. Highlight one of the following options and press OK.
   - **Normal**
   - **Long**

Ringer ID

The **Ringer ID** menu allows you to set the Ringer ID option to **On** so that you can associate different ringtones with different numbers. See "Get Tunes & Tones" on page 131 for more information.

Picture ID

The **Picture ID** menu allows you to set the Picture ID option to **On** so that you can associate a picture with a Contact. See "Get PIX" on page 133 for more information

Bluetooth Settings

About 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.

Note: For optimal user experience when using the Bluetooth earpiece, enable the Key/EarMic option in the Voice Commands Voice Dial menu. This will allow you to place calls with a Bluetooth earpiece using the Voice Dial feature in hands-free mode.

Bluetooth Service Profiles

Actually, the Bluetooth specification is a protocol that describes how the short-range wireless technology works, whereas individual profiles describe the services supported by individual devices. Profiles reduce the chance that different devices will not work together.

Your phone supports the following profile service:

- HSP: Mono-headset profile
- Bluetooth handsfree kit support *

* For vehicle/accessory compatibility, go to www.verizonwireless.com/bluetoothchart
Phone does not support Bluetooth OBEX profiles.

The following Bluetooth options are available:

On/Off

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

1. In standby mode, press OK **MENU** key and use the right navigation key to highlight **SETTINGS & TOOLS**. Press 7 **Bluetooth**. The **Bluetooth** menus are listed in the display.
2. Press i to turn Bluetooth On or Off.

Note: If activated, the Bluetooth icon displays on the top status bar.

Search

This option searches for a recognized Bluetooth wireless technology device.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 7 **Bluetooth**. The **Bluetooth** menus are listed in the display.
2. **Add New Device** is highlighted, press OK twice.

Note: If you have NOT already activated Bluetooth on the phone, the message “TURN BLUETOOTH ON?” displays. Highlight **Yes** to activate or **No** to exit and press OK.

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3. A list of found Bluetooth devices will be displayed. Use the **Up** and **Down** navigation keys to highlight a Bluetooth device. Press OK to pair the devices.
4. Enter the passkey (0000 for most devices) and press OK to pair with the device you selected.

Bluetooth Settings

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.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 7 **Bluetooth**. The **Bluetooth** menus are listed in the display.
2. Press **Settings**. The Bluetooth menu displays with the following options:
   - **My Phone Name**: allows you enter a customized name.
   - **Discovery Mode**: allows other users to see your accessibility. Select **On** for other devices to see your device, or **Off** for no visibility.
   - **My Phone Info**: shows the handset information.

Memory

The Memory menu allows you to view memory info to see how much space you've used (and have left) for stored media.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 8 **Memory**. The **Memory** menus are listed in the display. The following options are available:
   - **Memory Usage**: Allows you to view memory usage of everything stored on your phone.
   - **My PIX**: Allows you to view memory usage pictures you saved in My PIX.
   - **My Ringtones**: Allows you to view memory usage of ringtones you saved in My Ringtones.
   - **My Sounds**: Allows you to view memory usage of sounds you saved in My Sounds.

Phone Info

The **Phone Info** menu allows you to view the software and hardware information, your assigned number, and an icon glossary for your phone.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 0 **Phone Info**. The **Phone Info** menus are listed in the display.
2. **My Number** is highlighted. Press OK to display the Mobile Device and Identification numbers.
3. Press 2 **SW Version** to view the software, PRL, ERI, Browser, Get it Now, and Hardware version available on your phone.
4. Press 3 **Icon Glossary** to view the list of icons with a brief description.
5. Press OK to return.

Section 9: Multimedia

Topics Covered

- Get It Now
- Get Tunes & Tones
- Get PIX
- Get Fun & Games
- Get News & Info
- Get Going
- Get Extras

This section describes how you receive tunes, tones, images, games, news and information. You can also take and send pictures from your phone.

Get It Now

The Get It Now menu provides sub-menus to Get Tunes & Tones, Get PIX, Get Fun & Games, Get News & Info, Get Going and Get Extras. You can also view memory info to see how much space you've used (and have left) for stored media. Use the following steps for each **GET IT NOW** sub-menu.

1. In standby mode, press OK **MENU**, use the left navigation key to highlight **GET IT NOW**. Press the right soft key **Info**.

Note: you can directly access the **GET IT NOW** menu by pressing the right navigation key while in standby mode.

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2. Press 1 **App. Memory** to display the memory available. Press the CLR key to return.
3. Press 2 **Content Memory** to view the memory used for the following items. Press the CLR key to return.
   - **My Ringtones**
   - **My Sounds**
   - **My PIX**
   - **Applications**
4. Press 3 **View Log** to see the file transfer activity. Press the CLR key to return.
5. Press 4 **Help** to display a list of frequently asked questions. Use the navigation key to highlight an item and press OK to display help text. Press the CLR key to return.

Get Tunes & Tones

This menu allows you to get new tunes and tones, record new sounds, and set tunes and tones as your ringtone. It also allows you to access your music files.

Get New Ringtones

You can use this option to download new ringtones from the Internet.

1. In standby mode, press OK **MENU**, use the left navigation key to highlight **GET IT NOW**. The **Get Tunes & Tones** menu is highlighted, press OK.
2. Highlight 1 **Get New Ringtones** and press OK.
3. Highlight 1 **Get New App.** and press OK.
4. You are connected to the web server and presented with available provider ringtone applications.
5. To return to standby mode, press the END key.

My Ringtones

1. In standby mode, press OK **MENU**, use the left navigation key to highlight **GET IT NOW**. The **Get Tunes & Tones** menu is highlighted, press OK.
2. Highlight 2 **My Ringtones** and press OK.
3. Select 1 **Get New Ringtones** to access the web to download new ringtones. Or if you have already downloaded ringtones, highlight your selection and press OK.
4. To return to standby mode, press the END key.

VibeTonz®

VibeTonz® brings the powerful sensation and realism of touch to your SCH-a870 handset, dramatically enhancing the quality of your communication experience. By providing the VibeTonz technology high fidelity touch sensations, the VibeTonz system allows you to interact with your phone in a way that fits your personal taste and lifestyle.

Ringers enhanced by VibeTonz technology include a track of touch sensations synchronized to the music.

To activate VibeTonz see "VibeTonz®" on page 104 for more information.

Note: VibeTonz display the VibeTonz icon.

My Sounds

1. In standby mode, press OK **MENU**, use the left navigation key to highlight **GET IT NOW**. The **Get Tunes & Tones** menu is highlighted, press OK.
2. Highlight 3 **My Sounds** and press OK.
3. **Record New** is highlighted. Press OK to launch the **Record New** screen.
4. Press OK **REC** to begin recording.
5. Press the left soft key **Pause** to pause and resume the recording appropriately.
6. Press OK **STOP** to stop the recording and save it to My Sounds.

Get PIX

This menu allows you to get new PIX from the internet or take new PIX using your phone's camera. You can also view the saved pictures.

Get New PIX

1. In standby mode, press OK **MENU**, use the left navigation key to highlight **GET IT NOW**. Press 2 **Get PIX**.
2. To get new PIX press 1 **Get New PIX**. Press 1 **Get New App.** You are connected to the internet. Follow the on-screen prompts.

My PIX

1. In standby mode, press OK **MENU**, use the left navigation key to highlight **GET IT NOW**. Press 2 **Get PIX**.
2. Press 2 **My PIX** to view My PIX photo gallery.
3. Use the navigation key to make your selection and press OK **View** to view the highlighted picture.
4. Press the left soft key **Camera** to activate camera.
5. Press the right soft key **Options** to select from the following options:
   - **Send**: Launches the Create PIX Msg screen.
   - **To PIX Place**: Transfers the PIX file to the online PIX Place gallery.
   - **Get New**: Launches the internet to get online pictures.
   - **Set As**: Set the picture as the Main Wallpaper, Front Wallpaper, or Picture ID for a Contact.

- **Create Postcard**: Adds text to a picture selected from the My PIX gallery.
- **Rename**: Allows you to rename the picture.
- **Lock**: Locks the picture to prevent deletion.
- **Erase**: Erases the selected picture from the gallery.
- **Erase All**: Erases all pictures from the gallery.
- **PIX Info**: Provides the name, date, time, resolution, and size.

6. Use the navigation key to make your selection and press OK.

PIX Place

View PIX in your online PIX Place gallery.

Note: You must first setup your account on the Verizon Wireless website: www.verizonwireless.com before establishing a connection.

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1. In standby mode, press OK **MENU**, use the left navigation key to highlight **GET IT NOW**. Press 2 **Get PIX**.
2. Highlight **PIX Place** and press OK. The PIX Place sign-on screen displays.
3. Enter your **Mobile Number** and **Password**. Use the navigation key to highlight **LOGIN** and press OK. You are now connected to your online PIX Place gallery.

Take PIX

This menu launches the camera.

1. In standby mode, press OK **MENU**, use the left navigation key to highlight **GET IT NOW**. Press 2 **Get PIX**.
2. Press 4 **Take PIX**. The camera is now active.
3. Press the right soft key **Options**, to choose the specific camera settings. The following categories are available:
   - **Resolution**: High(640X480), Med(320X240), Low(160X120)
   - **Self Timer**: Off, 3 Seconds, 5 Seconds, 10 Seconds
   - **Flash**: Off, On, Auto, Only This Shot
   - **White Balance**: Auto, Sunny, Cloudy, Tungsten, Fluorescent
   - **Quality**: Fine, Normal, Economy
   - **Shutter Sound**: Shutter, Okay, Chime
   - **Color Effects**: Normal, Black & White, Sepia, Green, Aqua, Antique, Cool, Warm, Sketch
4. Press the left/right navigation key to zoom in or zoom out on an image.

   Press the up/down navigation key to adjust brightness.

Note: Zoom is not functional when the resolution setting is set to High(640X480).

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5. Press OK **TAKE** to capture a picture. Press the right soft key **Erase** to delete it or press the left soft key **Save**. The picture is saved to the My PIX gallery.

6. To exit the camera, press the END key.

Get Fun & Games

Select from several fun and interesting applications or a broad category of games that you can play on your phone.

1. In standby mode, press OK **MENU**, use the left navigation key to highlight **GET IT NOW**. Press 3 **Get Fun & Games**.
2. Press 1 **Get New App**.
3. Use the navigation keys to make a selection and press OK.
4. Choose the charge, either Subscription or Unlimited, then press OK. Follow in screen prompts to apply.

Get News & Info

1. In standby mode, press OK **MENU**, use the left navigation key to highlight **GET IT NOW**. Press 4 **Get News & Info**.
2. The browser is launched and a pop up screen with available applications is displayed.
3. Use the navigation key to browse the categories.
4. Once the desired category is highlighted, press OK to enter the category list.

When you use Get News & Info, some of the keys operate differently than during a normal phone call.

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

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

You can utilize the options or links by using the soft keys.

Get Going

Download applications that keep you in touch with the world, keep you organized, and help you find the coolest spots.

1. In standby mode, press OK **MENU**, use the left navigation key to highlight **GET IT NOW**. Press 5 **Get Going**.
2. **Get New App.** is highlighted. Press OK.
3. Highlight the application you wish to download and press OK.
4. Follow on screen subscription prompts and press OK. The download process begins.
5. At the "App installed successfully. Would you like to run it?" prompt, press **Yes** to launch application, or **No** to return to category list.

Note: The GET GOING menu will display all downloaded applications, with the most current download first.

Get Extras

Get Extras is a backup assistant for your Address Book. Get Extras saves your address book entries to a databases to protect them in the event that your phone is damaged or stolen.

Section 10: Tools

Topics Covered

- Voice Commands
- Calculator
- Calendar
- Alarm Clock
- World Clock
- Stop Watch
- Notepad

The topics covered in this section allow you to schedule appointments, view the calendar, set an alarm, view time zones, take notes, and perform simple math calculations.

Voice Commands

For more information see, "VoiceSignal™" on page 39.

Calculator

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

1. In standby mode, press OK **MENU**, then press the right navigation key to **SETTINGS & TOOLS**. Press 2 **Tools**, 2 **Calculator**, 1 **Normal**. The Calculator opens.
2. Enter the first number in your equation using the keypad. (Numbers can be up to nine digits long.)
3. Press the right soft key **Operator** to display a pop-up menu which allows you to enter a Parenthesis or Power if desired.
4. Press # to change the sign for a number to a negative.
5. Press the * to add a decimal point.
6. Use the navigation keys to set the type of calculation that you wish to perform. Your choices are as follows:
   - **Up key:** [+] Addition
   - **Down key:** [-] Subtraction
   - **Right key:** [x] Multiplication
   - **Left key:** [÷] Division
7. Use the keypad to enter the second number into your equation.
8. Press OK to perform the calculation and view the result.

Tip

Calculates the tip and determine how much each person should pay for the meal.

1. In standby mode, press OK **MENU**, then press the right navigation key to **SETTINGS & TOOLS**. Press 2 **Tools**, 2 **Calculator**, 2 **Tip**. The **Tip Calculator** opens.
2. Populate the following fields. Use the up/down navigation key to move from one field to another:
   - **Bill**: enter the amount of the bill.
   - **Tip**: enter the tip percentage.
   - **# Paying**: enter the amount of people paying.

Note: Press the key to enter a decimal.

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3. The tip is automatically calculated and shown in the lower half of the screen.
4. Press **Cancel** to exit.

Converter

The **Conversion** menu provides the following conversion categories:

- Temperature
- Length
- Weight
- Area
- Volume

- Currency

To convert any of the above categories, do the following:

1. Scroll to the conversion feature you wish to use and press the OK key.
2. Use the **Left** or **Right** navigation keys to select the **From** units of money or measure for the quantity you want converted.
3. Enter the quantity you want converted in the **From** text box.

Note: Press the key to enter a decimal.

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4. Use the Left or Right navigation keys to select the **To** units of money or measure for the quantity you want converted.
5. The converted amount or quantity is automatically shown in the **To** text box.
6. Press **Cancel** to exit.

Calendar

Schedule up to eight events for any day by indicating each event's start and end time. Set alarms for events so that you can be alerted before an event takes place. Events scheduled for future dates automatically appear on your **Today** events schedule for the present day.

Add a new event

1. In standby mode, press OK **MENU**, then press the right navigation key to **SETTINGS & TOOLS**. Press 2

Tools **Calendar**. The calendar appears in the display with the current date highlighted.

2. To view available options, press the right soft key **Options**. A pop-up menu appears in the display that contains the menu items.
   - **Go To Date**: Go to any date that you specify.
   - **Go To Today**: View today's events.
   - **Erase Old**: Select a past event to delete.
   - **Erase All**: Delete all events in your calendar
3. Press the left soft key **Add** to add a new event.
4. The **Appointment Name** field is highlighted. Enter the name and use the down navigation key to move to the following fields:

- **Start Date**: Enter the start date for the event.
  - **Start Time**: Enter the start time for the event (hh:mm).
  - **am/pm**: Select from am or pm for the start time.
- **End Date**: Enter the end date for the event.
  - **End Time**: Enter the end time for the event (hh:mm).
  - **am/pm**: Select from am or pm for the end time.
- **Alert**: Sets the alarm for the event. Select from Tone, Vibrate, or Light Only.
- **Reminder**: Set the reminder to sound before the event takes place. Select Off, Once, Every 2 minutes, or Every 15 minutes.
- **Alert Time**: Set the Alert Time to sound up to 1 day before the event.

5. Press **SAVE** to save the event.

View an event

1. In standby mode, press OK **MENU**, then press the right navigation key to **SETTINGS & TOOLS**. Press 2 **Tools** 3 **Calendar**.
2. A calendar appears in the display with the current date highlighted.
3. Use the navigation keys to highlight the date containing the event that you wish to view. Press the right soft key **Options**.

Tip: Use the volume key to move between months in the calendar.

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4. In the pop-up menu that appears in the display, use the navigation key to highlight **Go To Date**, then press OK.
5. Enter the desired date in the box, then press OK. The month that you entered appears in the display with the event date highlighted.
6. Press OK **VIEW** to view event details for the date.
7. To edit the event, press the left soft key **Edit**. Make changes, then press OK **SAVE**.
8. Press the right soft key **Options**. A pop-up menu appears in the display.
9. To erase the current event, press 2 **Erase**. A pop-up menu appears with **Yes** highlighted. press OK to erase, or highlight **No** to cancel.

Select **Erase All** to erase all events from your phone. A pop-up menu appears with **Yes** highlighted. press OK to erase, or highlight **No** to cancel.

10. To see the selected date in a month view, press 1 **Monthly**.

Alarm Clock

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

Set An Alarm

1. In standby mode, press OK **MENU**, then press the right navigation key to **SETTINGS & TOOLS**. Press 2 **Tools** 4 **Alarm Clock**. The **Alarm Clock** menu displays with the **Alarm 1** highlighted.
2. The following options appear in the display:
   - **Alarm 1**
   - **Alarm 2**
   - **Alarm 3**
3. Use the navigation key to highlight the alarm that you wish to enable, then press OK. The Set Alarm (1, 2, or 3 depending on your selection) screen appears in the display.
4. The Alarm field is highlighted. Use the left/right navigation keys to select **On** or **Off**.
5. Press the down navigation key to highlight the **Time** field, then enter the time (hh:mm) that you wish for the alarm to sound.

6. Press the down navigation key once to highlight the am/pm field. Use the left/right navigation keys to select **am** or **pm**.
7. Press the down navigation key once to highlight the **Frequency** field. Use the left/right navigation keys to set the frequency (occurrence) of the alarm. Below lists and defines the options for this field.
   - **Once**: The alarm sounds only once, at the time specified.
   - **Daily**: The alarm sounds every day at the time specified.
   - **Mon.-Fri.**: The alarm sounds Monday through Friday at the time specified.
   - **Weekends:** The alarm sounds Saturday through Sunday at the time specified.
8. Press the down navigation key once to highlight the first **Ringer** field. Use the left/right navigation keys to set the ringer to Tone, Vibrate, or Light Only.
9. If you selected Tone, press the down navigation key again to highlight the second field. Use the left/right navigation keys to set the alert tone to VZW Default Tone, or select a tone from your My Ringtones or My Sounds folders.
10. When all fields have correct information entered, press OK **SAVE** to save your settings.

Disable an alarm before it sounds

1. In standby mode, press OK **MENU**, then press the right navigation key to **SETTINGS & TOOLS**. Press 2 **Tools** 4 **Alarm Clock**. The **Alarm Clock** menu displays with the **Alarm 1** highlighted.

2. Use the navigation keys to highlight the alarm you wish to disable, then press the right soft key **Options**. A pop-up menu appears in the display.
3. Press **Off** to turn the highlighted alarm off. Press **Reset** to reset the highlighted alarm or press **Reset All** to reset all of the alarms.

Snooze

When an alarm sounds, a menu screen displays that allows you to either turn the alarm off or to have the alarm ring again after 5 minutes. This is called Snooze.

To use this feature follow these steps:

1. Set one of your phone's 3 alarms. For more information about setting an alarm, see "Set An Alarm" on page 145.
2. When an alarm sounds, use the up/down navigation key to highlight **Snooze** or **Dismiss**. To snooze, highlight **Snooze** and press to set it to ring again after 5 minutes. Or, highlight **Dismiss** to turn the alarm off completely. The alarm turns off and the standby screen displays.

World Clock

World Clock allows you to view the time of day or night in any part of the world.

1. In standby mode, press **MENU**, then press the right navigation key to **SETTINGS & TOOLS**. Press **Tools** **World Clock**.
2. Use the left soft key **Cities** to display the 46 supported cities. Press to save your entry.

3. Press the right soft key **Options** to view the following options:
   - **Set As Local Time**: Sets the time according to the city chosen in the Cities field.
   - **DST On**: Sets the Daylight Savings time option.
4. You can scroll through other cities by pressing the navigation keys.
5. Press to return to standby mode.

Stop Watch

This feature allows you to use a stopwatch. Press the **START** to start the stopwatch. Press **STOP** to stop stopwatch. Press the right soft key **Reset** to erase recorded stopwatch time.

1. In standby mode, press **MENU**, then press the right navigation key to **SETTINGS & TOOLS**. Press **Tools** **Stop Watch**. The **Stop Watch** appears in the display.
2. Press the **START** to start the stopwatch.
3. Press **STOP** to stop stopwatch.
4. Press the right soft key **Reset** to erase recorded stopwatch time.

Notepad

Create and store notes in Notepad. Return to Notepad anytime to review and edit your notes.

1. In standby mode, press OK **MENU**, then press the right navigation key to **SETTINGS & TOOLS**. Press 2 **Tools** 7 **Notepad**. The **Note Pad** menu opens.
2. If you have any stored notes, they appear as a list in the display. If this is your first time in Notepad, **No Notes** displays.
3. To add a new memo, press the left soft key **Add**, then enter the memo using the keypad.
4. While entering a memo, press the left soft key **Abc**, to display a pop-up menu with the following text entry modes
   - **Word**
   - **Abc**
   - **ABC**
   - **123**
   - **Symbols**
5. Use the navigation keys to select the other available text entry modes of 123, Word, and Symbol, or press CLR to exit the pop-up menu.
6. When you're finished entering details for the note, press OK. The note is saved.

Review, Add, Edit, and Erase Memos

1. In standby mode, press OK **MENU**, then press the right navigation key to **SETTINGS & TOOLS**. Press 2 **Tools** 7 **Notepad**. The **Note Pad** menu opens. If you have any stored notes, they appear as a list in the display.
2. With a memo highlighted, press the right soft key **Options.** A pop-up menu with the options listed in the following table appears in the display:
   - **Edit**: Edit the note currently highlighted or appearing in the display.
   - **Erase**: Erase the note currently highlighted or appearing in the display.
   - **Erase All**: Erase all notes.
   - **Lock/Unlock**: Locks messages. When a message is locked it cannot be deleted until it is unlocked.
3. Use the navigation keys to highlight an option or press CLR to exit the pop-up menu.
4. Press OK to perform the highlighted option's function.

Section 11: Mobile Web

Topics Covered

- Mobile Web
- Launching Mobile Web
- Exit Mobile Web
- Navigate the Web
- Mobile Web Soft keys
- Links
- Place a Call While Using Mobile Web

This section outlines the available gaming options and accessories for your phone. For more information, contact your service provider.

Mobile Web

Mobile Web allows you to surf the web from your wireless phone.

If you receive a call while using Mobile Web, the web session is suspended during the call. Once the call ends, your Mobile Web session resumes where you left off.

Note: This feature is currently unavailable outside of the United States. Only available within the Verizon Wireless Enhanced Services Area.

Any time the service indicator icon is visible, you are connected to the Internet and billed accordingly. Rates and prices vary according to your service contract. For further information on billing contact Verizon Wireless.

Launching Mobile Web

Note: This feature is currently unavailable outside of the United States. Only available within the Verizon Wireless Enhanced Services Area.

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1. In standby mode, press the up navigation key. Mobile Web and a list of categories (representing one or more web sites) appears in the display.
2. Use the navigation key to browse the categories.
3. Once the desired category is highlighted, press OK to enter the category list.

Exit Mobile Web

To exit the Mobile Web, press the END key.

Navigate the Web

Note: This feature is currently unavailable outside of the United States. Only available within the Verizon Wireless Enhanced Services Area.

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

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

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

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

Mobile Web Soft Keys

Note: This feature is currently unavailable outside of the United States. Only available within the Verizon Wireless Enhanced Services Area.

At the bottom of the Mobile Web display contains the browser commands. The left and right soft keys on the keypad are used to perform the commands in the display. These are called "soft keys" because their function changes depending where you are in the application.

How Mobile Web keys work

The following table lists Mobile Web keys and functions.

Navigation Key: Use the navigation key to browse lists and highlight options.

CLR Key: A browser back-up key. Press once to back up one page. Press and hold to go back to Mobile Web home page.

Press to clear the last number, letter, or symbol entered. Press and hold to completely clear the display.

Asterisk/Shift Key: Press before entering text to enable upper case characters (in Abc mode).

0/Next Key: Press to enter a zero (0), or to display another word in the dictionary when in Word entry mode.

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

Numbers 1 - 9: Use the number keys to select items in a menu if they are numbered.

END Key: Press to exit Mobile Web and return the phone to standby mode.

Left Soft Key: Press the left soft key to go to the highlighted web link and/or perform the function above it in the display.

Right Soft Key: The right soft key is the Menu key. Press this key to display a pop-up menu with several options.

SEND Key: Press to dial a highlighted number.

Links

Note: This feature is currently unavailable outside of the United States. Only available within the Verizon Wireless Enhanced Services Area.

Links can serve several purposes, such as jumping to a different page, to a different site, or initiating a phone call. Links are underlined (__). Normally, the left soft key is used to select a highlighted link.

Place a Call While Using Mobile Web

Note: This feature is currently unavailable outside of the United States. Only available within the Verizon Wireless Enhanced Services Area.

You can place a call while using Mobile Web if the website supports this feature. Press the appropriate soft key to call the number. In most cases you can also press END to call the number. The Internet connection terminates when you initiate the call. After you end the call, your phone returns to standby mode.

Section 12: Health and Safety Information

Topics Covered

- Health and Safety Information
- Consumer Information on Wireless Phones
- Road Safety
- Operating Environment
- Using Your Phone Near Other Electronic Devices
- Potentially Explosive Environments
- Emergency Calls
- FCC Notice and Cautions
- Other Important Safety Information
- Product Performance
- Availability of Various Features/Ring Tones
- Battery Standby and Talk Time
- Battery Precautions
- Care and Maintenance

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 Counsel 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.

When approval test is done, no Samsung supplied accessories are available but maybe available later after approval.

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: 1.2 W/kg
- Body-worn: 1.23 W/kg

SAR information on this and other model phones can be viewed on-line at www.fcc.gov/oet/fccid. 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.

UL Certified Travel Adapter

The Travel Adapter for this phone has met UL 1310 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 THE U.S.A., USE AN ATTACHMENT PLUG ADAPTOR OF

THE PROPER CONFIGURATION FOR THE POWER OUTLET.

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:

- 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/topics/emf/
- 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/
- Updated 7/16/2003: 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 voicemail 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. Remember, it is a free call on your wireless phone!
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.wow-com.com

Provided by the Cellular Telecommunications & Internet Association.

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.

Pacemakers

Pacemaker manufacturers recommend that a minimum distance of 15 cm (6 inches) be maintained between a wireless phone and a pacemaker to avoid potential interference with the pacemaker.

These recommendations are consistent with the independent research and recommendations of Wireless Technology Research.

Persons with pacemakers:

- should always keep the phone more than 15 cm (6 inches) from their pacemaker when the phone is switched on.
- should not carry the phone in a breast pocket.
- should use the ear opposite the pacemaker to minimize potential interference.

If you have any reason to suspect that interference is taking place, switch your phone off immediately.

Hearing Aid Compatibility with Mobile Phones

When some mobile 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 ratings for some of their mobile phones, to assist hearing device users in finding 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 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 be more usable with a hearing device's telecoil ("T Switch" or "Telephone Switch") than unrated phones. T4 is the better/higher of the two ratings. (Note that not all hearing devices have telecoils in them.)

Hearing devices may also be measured for immunity to this type of interference. Your hearing device manufacturer or hearing health professional may help you find results for your hearing device. The more immune your hearing aid is, the less likely you are to experience interference noise from mobile phones.

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 Send 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 15 minutes of 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.

- 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.

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.
- Use the battery only for its intended purpose.
- 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.
- 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 has 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 13: Warranty Information

Topics Covered

- Standard Limited Warranty

This section explains the warranty information for your new phone.

Standard Limited Warranty

What is Covered and For How Long? SAMSUNG TELECOMMUNICATIONS AMERICA, L.P. ("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/ Pouch	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

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Hearing Aid Compatibility with Mobile Phones

When some mobile 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 ratings for some of their mobile phones, to assist hearing device users in finding 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 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 be more usable with a hearing device's telecoil ("T Switch" or "Telephone Switch") than unrated phones. T4 is the better/higher of the two ratings. (Note that not all hearing devices have telecoils in them.)

Hearing devices may also be measured for immunity to this type of interference. Your hearing device manufacturer or hearing health professional may help you find results for your hearing device. The more immune your hearing aid is, the less likely you are to experience interference noise from mobile phones.

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