SCH-R630 Series

P O R T A B L E   D U A L - B A N D
M O B I L E   P H O N E

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

SAMSUNG

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Table of Contents

Section 1: Getting Started

This section explains how to start using your SCH-R630 phone by activating your service, setting up your Voicemail, or getting an understanding of how this manual is put together.

Understanding this User Manual

The chapters of this manual generally follow the same order as the menus and sub-menus in your phone. A robust index for quick reference to most features begins on page 133.

Also included is important safety information that you should know before using your phone. Most of this information is near the back of the guide, beginning on page 105.

Notes and Tips

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

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

Text Conventions

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

select   Tap a menu item or screen item to launch, access, or save a highlighted menu item or screen field of interest.

➔   Used in place of "select" in long "drill down" procedure steps.

> **Example:** "…**Settings** ➔ **Call Settings** ➔ **Answer Options**…"

Charging the Battery

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

Use the Travel Adapter

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

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

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

Correct

Incorrect

2. If needed, install the battery in the phone. (For more information, refer to *"Install the Battery"* .)

3. Insert the smaller end of the Travel Adapter into the charger/accessory connector on the upper left side of your phone.

Warning!: Your touch screen responds best to a light touch from the pad of your finger or a non-metallic stylus. Using excessive force or a metallic object when pressing on the touch screen may damage the tempered glass surface and void the warranty (see *"Warranty Information"* on page 125).

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

Low battery indicator

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

• Five bars ( ) indicate a full charge.

• An empty battery icon ( ) indicates a near empty battery.

• A blinking empty battery icon ( ) and a tone sounding indicate you have two to three minutes before the battery is too low to operate the phone.

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

Activating Your Phone

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

Install the Battery

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

Important!: You must fully charge the battery the first time you use your phone, otherwise you could damage the battery. From fully discharged to fully charged, the battery requires up to 4 hours of charge time.

1. If needed, lay the phone face down and insert a small coin into the slot at the bottom of the battery cover and gently pry it away from the phone. Then, lift the cover away from the phone (2).

2. First, insert the top end of the battery, matching the gold contacts on the battery to those on the inside of the phone.

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

4. Place the top end of the battery cover over the battery (1) and press the battery cover down into place (2).

Remove the Battery

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

2. Lay the phone face down and insert a small coin into the slot at the bottom of the battery cover and gently pry it away from the phone. then lift the cover away from the phone (2).

3. Lift the battery up (1) and away (2) from the phone, bottom end first.

Turn Your Phone On

1. Press and hold the End key ( ), on the bottom right of the phone.

Press & Hold
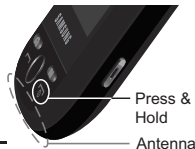
Antenna

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

2. The phone begins searching for a network signal.

3. Once the phone finds a signal, the time, date, and day appear in the second line of the display.

4. You're now ready to place and receive calls.

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

Turn Your Phone Off

▶ Press and hold the End key ( ), on the bottom right of the phone, for two or more seconds. Your phone powers off.

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

Setting Up Your Voicemail

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

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

To dial Voicemail:

1. In Standby mode, press the **Dialer** soft key. The Dialer screen appears in the display.

2. Press and hold or dial your own mobile number and press . (For more information, refer to *"Making a Call"* on page 20.)

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

Listen to Voicemail

1. In Standby mode, press the **Dialer** soft key.

2. Press and hold `1 ` (or dial your own mobile number and press). (For more information, refer to *"Making a Call"* on page 20.)

3. You are prompted to enter your password.

Storage Card (Optional)

You can install a microSD™ or microSDHC™ Storage Card to provide additional memory for storing files (such as, music/sound files and photos/videos) in your phone.

Note: Using the Music Player requires that you first install a Storage Card.

Tip: Storage Cards with a storage capacity of over 16 GB will not work with this phone.

Install a Memory Card

1. Open the microSD cover on the left hand side of the phone, as shown.

2. Hold the card with the label facing up and the gold contacts of the card facing down, as shown, then carefully slide the memory card into the memory card slot until you feel it click into place.

Incorrect   Correct

Tip: Memory Cards written to and/or formatted by other devices are likely to slow your phone's response to commands and produce other unwanted results. To avoid such problems, format a used microSD Memory Card after inserting it in your handset. (For more information, refer to *"Formatting a Memory Card"* on page 103.)

3. Replace the microSD cover.

Remove a Memory Card

1. Open the microSD cover on the left hand side of the phone.

2. Carefully press the memory card inward until you feel it release.

3. Slowly release your pressure on the card. It will slide outward a short distance.

4. Remove the memory card from the memory card slot.

5. If desired, install another memory card and replace the microSD cover. (For more information, refer to *"Install a Memory Card"* on page 8.)

Section 2: Understanding Your Phone

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

Features of Your Phone

• Full-screen Touch Screen [high-resolution (240 x320 pixels), color]

• Widget menu

• Messaging (Text, Picture, Video, and E-mail) with sliding QWERTY Keypad

• Built-in 2 Megapixel Digital wide screen Camera-Camcorder

• High speed data (EVDO)

• Bluetooth® Stereo (v2.0) Wireless Technology (see Note)

• Global Positioning (GPS) Technology

• PIM Functions

• Voice and Touch Keypad Dial

• Music (MP3) Player and Video (MP4) Player

• Memory Card slot (for optional microSD™ cards up to 16 GB)

• Voice Recognition

• Speakerphone

Note: The SCH-R630 supports the wireless handsfree profile and the serial port profile for Bluetooth® wireless technology. The SCH-R630 does not support Bluetooth OBEX profiles.

Side Views of Your Phone

Features

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

2. **Memory Card Slot** — Used to plug in an optional microSD™ memory card for additional multimedia file storage.

3. **Music Player Key** — Launches the Music Player. (Requires a Memory Card be installed. For more information, refer to *"Install a Memory Card"* on page 8.)

4. **Send Key** — Lets you place or receive a call. In Standby mode, press the key once to access the Recent Calls log.
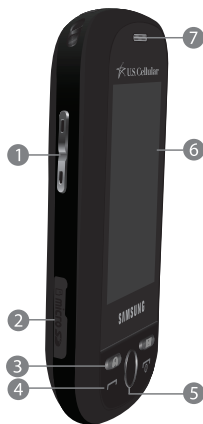
5. **Clear Key** — Deletes characters from the display when you are in text entry mode. Press this key to return to the previous menu or screen when navigating features on your phone.

6. **Display** — Indicates the status of your phone (including numbers dialed, feature and function screens, status icons, message indicators and contents, signal strength, and so on) and shows all touch controls (hot buttons, keypads, and menus).

7. **Earpiece** — Lets you hear other parties to calls, music, video sountracks, and tones.

8. **Microphone** — Lets the other caller hear you clearly when you are speaking to them.
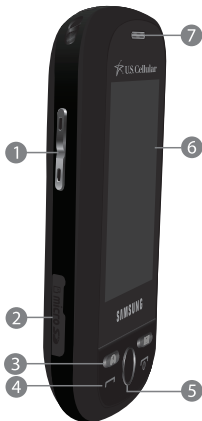
9. **Power On-Off/End Key** — Turns the power on and off. Ends a call. Returns you to Standby mode from any feature, function, or menu.

10. **Messaging Key** — Launches the **Messages** menu. (For more information, refer to *"Messaging"* on page 44.)

11. **Camera Key** — Launches the Camera/Camcorder feature of your phone and takes pictures or records videos. (For more information, refer to *"Camera-Camcorder"* on page 56.)

12. **Power / USB Connector** — Used to connect charging accessories or any available USB cables to your phone.

13. **LOCK KEY** — Locks and unlocks the keys and the touch screen and lights the backlight.

14. **Headset Connector** — Used to connect an optional wired headset or TTY device to your phone.

Open View (Front) of Your Phone

Open the QWERTY keypad by sliding lower half to the right.

Features

1. **Earpiece** — Lets you hear other parties to calls, music, video sountracks, and tones.

2. **Display** — Indicates the status of your phone, including numbers dialed, feature and function screens, status icons, message indicators, signal strength, and so on.

3. **Fn Key** — Text Function Key — Toggles text entry mode between **ABC** and **123** modes.

4. **shift Key** — Toggles **ABC** mode capitalization between **ABC**, **Abc**, and **abc**.

5. **space Key** — Inserts a space character in a text entry.

6. **OK Key** — When navigating through a menu accepts the highlighted choice in a menu.

7. **Arrow** (**Navigation**) **Keys** — In Menu mode, Left and Right arrow keys let you page from Main menu to Main menu; while Up and Down arrow keys let you scroll through the menu options.

8. **Next Line Key** — In text entry mode, moves the cursor to a fresh, blank line.

9. **Back / Clear Key** — Deletes characters from the display when you are in text entry mode. Press this key to return to the previous menu or screen when navigating features on your phone.

10. **Music Player Key** — Launches the Music Player, provided you have installed a microSD memory card in your phone,

11. **Send Key** — Lets you place or receive a call. In Standby mode, press the key once to access the recent call log.

12. **Back / Clear Key** — Deletes characters from the display when you are in text entry mode. Press this key to return to

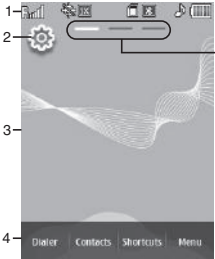the previous menu or screen when navigating features on your phone.

13. Power On-Off/End Key — Ends a call. When you press and hold the key, the power goes On or Off. When you receive an incoming call, press to send the call to voicemail.

14. Messaging Key — Launches the **Messaging** menu.

Closed Rear View of Your Phone

1. Headset Connector — Used to connect a headset or TTY device to your phone. (For more information, refer to *"TTY Mode"* on page 100.)

2. Camera Lens — The lens of your built-in camera.

3. Battery Cover — Lets you access your phone's battery.

4. Camera Key — Launches the Camera feature of your phone.

5. Battery Cover Pull Slot — Used to remove the Batter Cover.

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

7. Speaker Grill — Lets you hear ringing and alert tones, alarm tones, and the other parties to calls.

Understanding the Display Screen

1. The top line of your phone's display contains icons that indicate network status, battery power, signal strength, connection type, and more.

2. Tapping this icon opens the Widget Tray that lists available widgets.

3. The center portion of the display shows Widgets and information such as call progress information, messages, and photos.

4. The bottom line of the display shows available soft keys. The sample screen shows the following soft keys:
- **Dialer** — Launches the Dialer screen that lets you place calls.
- **Contacts** — Launches the **Contacts** list screen.
- **Shortcuts** — Launches the **Shortcuts** list screen.

- **Menu** — Launches the Main **Menu1**.

5. Three virtual lamps in the second line of the display indicate which Home screen is currently showing. The sample screen indicates Home screen 1 is showing.

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

Display Screen Icons

Your SCH-R630 phone can show you definitions of the icons that appear on the top line of the display.

To access the Icon Glossary:

▶ In Standby mode, tap **Menu → Settings → Phone Info → Icon Glossary**. A scrollable list of icons and their definitions appears in the display.

Dialogue Boxes

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

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

Backlights

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

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

For more information, refer to *"Backlight"* on page 94.

Menu Navigation

Main Menu Navigation

There are two Main Menus: **Menu1** and **Menu2**.

To access your phone's menus, tap the **Menu** soft key, other soft keys, or icons on the Widget Tray or **Shortcuts** screen.

1. In Standby mode, tap the **Menu** soft key. Main **Menu1** appears in the display.

   • To view Main **Menu2**, tap the **Menu2** tab at the bottom of the screen.

2. To access a menu or sub-menu named in the display, select the appropriate icon.
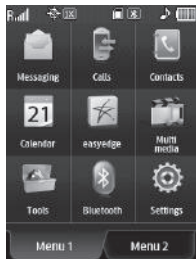
Return to the Previous Menu

Press ● to return to the previous menu.

Using the Shortcuts Screen

Shortcuts are special buttons that you can use to launch particular phone features and functions. You can initially access the shortcuts on your R630 phone by displaying the Shortcuts screen.

Shortcut Screen

The Shortcut Screen is an easily accessed array of buttons that acts like a menu for accessing particular phone features and functions.

1. To open the **Shortcut** screen, tap the **Shortcuts** soft key. The Shortcust screen appears in the display, showing the following available shortcut.
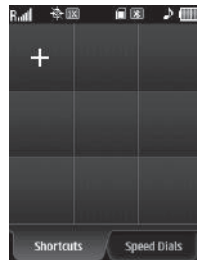
   ┼   Add Shortcut.

2. To add a shortcut, tap ┼ , then select the desired shortcut from the **Shortcuts** list. The selected shortcut appears in the **Shortcuts** screen along with the following shortcut.
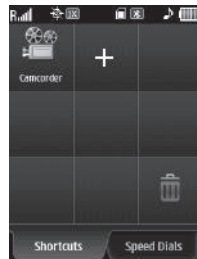
   🗑   Delete Shortcut.

3. To use the new shortcut, simply tap it.

Using the Widget Tray

The Widget Tray contains Widget icons that you can tap to place the corresponding Widget onto one of the three Home screens.

1. In Standby mode, select one of the three Home screens by swiping your finger horizontally across the display.

2. Open the Widget Tray by tapping the Widget Tray icon (🔅) in the upper left corner of the Home screen.

   The Widget Tray appears at the bottom of the Home screen and lists icons for those Widgets selected in the **Widget** settings.

Tip: You can hide or display individual widgets by changing the **Widgets** settings. (For more information, refer to *"Widgets"* on page 90.)

3. Scroll through the Widget list by pressing and sliding left or right within the Widget Tray until a desired Widget icon appears.

4. Tap the desired Widget icon to place the corresponding Widget on the Home screen.

Note: You can position a Widget icon as needed by pressing and sliding it.

5. Once on the Home screen, you can tap a Widget to launch its function.

Note: You can return a Widget to the Widget Tray simply by pressing and dragging the Widget over the Widget Tray.

   Close the Widget Tray by tapping the Widget tray icon (🔅) or by pressing ⬤ or ▭.
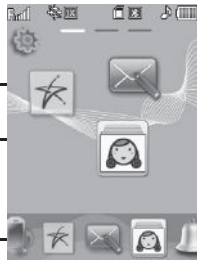
Learning More About Your Phone

Your R630 phone contains tutorials about many of its features. To access your phone's tutorials, do the following:

1. From a Home screen, open the Widget tray. (For more information, refer to *"Using the Widget Tray"* on page 15.)

2. Copy the Tutorial Widget (🔲) to the Home screen by tapping the Tutorial icon (🔲).

3. Tap the Tutorial Widget (🔲).

The following tutorials are available:

- **Physical Keys**
- **Widget Tray**
- **Shortcuts**
- **Adjusting Volume**
- **Making a Call**
- **Contacts**
- **Camera**
- **Music Player**
- **Widget and Menu**
- **Zooming**

4. Select the desired tutorial.

Entering Text

Your phone has a QWERTY (Q 1w 2e 3r +t -y) keypad to support quick and easy text input. You can enter text as you would when using a computer keyboard.

The keys are labeled with a letter on the lower half and a number or symbol on the upper half. Press the key corresponding to the character you want to enter.

Note: Your R630 also provides a predictive text entry function. (For more information, refer to *"QWERTY Action"* on page 96.)

In addition, you can use the following special function keys:

Press to delete characters.

Tip: You can also delete a character by pressing ●.

Press to start a new line.

Press once to enter a single upper case letter.
In Abc mode, press once to select CAPS LOCK.
Press once more to remove CAPS LOCK.

Press to pop-up the **Symbols** menu.

Press to toggle entry mode between Abc, Fn, and Fn⬆.

Press to insert a space in a text entry.

Your Phone's Modes

Call Answer Mode

You can choose to answer a call by pressing any key except the 📞 key or 🔘 key, or by pressing only the 📞 key. (For more information, refer to *"Call Settings"* on page 99.)

Input mode

Input mode determines how you enter text, numbers, and symbols. Optional input modes are **abc**, **Abc**, **ABC**, **Fn** (symbols), and **Fn** (symbols locked). While at any text entry screen:

• To toggle between **abc** and **Abc** and **ABC**, tap [shift].

• To toggle between **abc** / **Abc** / **ABC** mode and **Fn** mode, tap [Fn].

• To toggle between **Fn** mode and **Fn** mode, tap [Fn].

(For more information, refer to *"Entering Text"* on page 16.)

Lock Mode

When the phone is in Lock Mode, restrictions are placed on phone use. You can receive calls and messages, but cannot place outgoing calls (except for emergency numbers) until you unlock the phone. Lock Mode also restricts access to menus and the volume key. Unlock your phone by entering the lock code when prompted. (For more information, refer to *"Edit Code"* on page 97.)

Standby Mode

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

• After you power the phone on.

• When you press [end] after a call or from within a menu.

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

Place Calls in Standby Mode

1. While in Standby mode, enter a phone number, and press [send] to place a call.

2. Press [end] to return to Standby mode.

Receive Messages in Standby Mode

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

• **View Now** — This selection allows you to view the messages now.

• **View Later** — This selection allows you to view the messages at a later date.

▶ Select the desired viewing option.

Talk Mode

You can place and receive calls only when your phone is on. While in a call your phone is in talk mode. Tap the **Options** screen button to display a list of menu options. (For more information, refer to *"In-Call Options"* on page 26.)

Speakerphone Mode

During a call, you can use your phone handsfree or share the call with other people nearby by placing your phone in Speakerphone Mode.

• To enable Speakerphone Mode:

    1. Follow the prompt and unlock the screen.

    2. Tap and slide the screen button to the **On** position.

Caution!: Keep the phone away from you ear while in Speakerphone Mode. (For more information, refer to *"Responsible Listening"* on page 114.)

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

• To disable Speakerphone Mode:

    1. Follow the prompt and unlock the screen.

    2. Tap and slide the screen button to the **Off** position.

    – or –

    End the call by pressing 📵.

Enter/Exit Silent Mode

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

• To enter Silent Mode:

  ▶ In Standby mode, press the Volume key (▭) on the left side of the phone Down until "**All Sounds Off**" briefly

appears in the display and your phone returns to Standby mode.

• To exit Silent Mode:

  ▶ While in Silent mode and Standby mode, Volume key (on the left side of the phone) Up until "**All Sounds Off** " is replaced in the display by another sound setting. Your phone returns to Standby mode.

Vibrate Mode

To enter Vibrate mode:

  ▶ In Standby mode, do one of the following:

    • Press the Volume key (on the left side of the phone) Down until "**Vibrate Only**" briefly appears in the display and your phone returns to Standby mode.

    – or –

    • Tap the **Dialer** soft key and press and hold the ⬛ key until "**Vibrate mode activated**" briefly appears in the display.

Note: The Vibrate icon (📳) appears in the display when the phone is in Vibrate mode.

To return to Normal mode:

  ▶ In Standby mode, do one of the following:

    • Press the Volume key (on the left side of the phone) Up until a Master Volume setting other than "**Vibrate Only**" briefly appears in the display. Your phone returns to Standby mode.

– or –

• Tap the **Dialer** soft key and press and hold the ⬛⬛ key until "**Normal mode activated**" briefly appears in the display.

Adjust the Ringer

1. In Standby mode, press the Volume key (on the left side of the phone) Up or Down. Options are:

   • **All Sounds Off**   • **Medium Low**
   • **Alarm Only**   • **Medium**
   • **Vibrate Only**   • **Medium High**
   • **Low**   • **High**

2. When you are satisfied with the setting, press the **Set** soft key. Your phone returns to Standby mode.

Tip: You can also access the **Master Volume** setting by pressing the **Menu** soft key, then selecting **Settings ➔ Sound Settings ➔ Master Volume**. Use the Volume key on the right side of your phone to adjust the ringer volume setting.

Note: The Vibrate icon ([📳]) appears in the display when the call ringer is set to **Vibrate**.

Camera Mode

Camera mode lets you activate your phone's camera to take pictures. In Camera mode, you can also adjust the resolution and appearance of your pictures. (For more information, refer to *"Camera-Camcorder"* on page 56.)

• **Entering Camera Mode** — In Standby mode, press the Camera key (⬛) — on the right side of the phone.
• **Exiting Camera Mode** — Press the ⬛ key.

Camcorder Mode

Camcorder mode lets you use your phone's camera to record vides. In Camcorder mode, you can also adjust the resolution and appearance of your videos. (For more information, refer to *"Camera-Camcorder"* on page 56.)

Entering Camcorder Mode

1. In Standby mode, press the Camera key (⬛), on the right side of the phone. The Camera viewfinder screen appears in the display.

2. Tap the Mode icon ([📷]). The Camcorder viewfinder screen appears in the display.

Exiting Camera Mode

▶ Press the ⬛ key.

Section 3: Call Functions

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

Note: Although the procedures in this section are written for the Dialer keypad, you can also perform all of these procedures, except Plus (+) Code (International Shortcut) Calls, using the QWERTY keypad.

Making a Call

1. In Standby mode, tap **Dialer**. The Dialer screen appears in the display. The format of the Dialer screen depends on whether the QWERTY keypad is closed or open.

2. Enter the number you wish to call using the either the virtual phone-style keypad or the QWERTY keypad.
3. Press ▬ to place the call.

Emergency Calls

When you call the Emergency Number, 911, your R630 phone locks itself in emergency mode, only allowing you to make calls to the emergency call center you originally contacted. This enables emergency operators to more easily dispatch aid, such as police, fire fighting, and emergency medical personnel.

1. In Standby mode, tap **Dialer**. The Dialer screen appears in the display.
2. Enter **911**.
3. Press ▬ to place the call.

Tip: If you need to make an emergency (911) call with Airplane mode enabled, just dial **911** and press ▬. (For more information, refer to *"Airplane Mode"* on page 96.)

Three-way Calling

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

1. In Standby mode, tap **Dialer**. The Dialer screen appears in the display.

2. Enter the number for the first party in your call, then press .

3. When connected, ask the other party to remain on the line.

4. Tap **Dialer**.

5. Enter the second party's phone number and press .

6. When the second party answers, resume the conversation.

Manual Pause Calling

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

1. In Standby mode, tap **Dialer**. The Dialer screen appears in the display.

2. Enter the number you wish to call.

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

• **2-Sec Pause** — A 2-second pause after which dialing resumes.

• **Wait** — A hard pause (waits for input from you).

4. Tap the desired pause to enter it into the number sequence.

5. Press to call the number.

Tip: If you plan to call the number frequently, tap **Save** to store pauses along with the number in your Contacts list.

Speed Dialing

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

1-Touch Dialing

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

1. In Standby mode, tap **Dialer**. The Dialer screen appears in the display.

2. Press and hold the number key corresponding to the desired Contact's speed dial number.

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

2-Touch Dialing

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

1. In Standby mode, tap **Dialer**. The Dialer screen appears in the display.
2. Tap the number key representing the first digit of the desired Contact's speed dial number.
3. Press and hold the number key representing the second digit of the desired Contact's speed dial number.

Example: To speed dial the Contact assigned speed dial 35, tap 3 def or ⊟R then press and hold 5 jkl or ⊟D .

3-Touch Dialing

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

1. In Standby mode, tap **Dialer**. The Dialer screen appears in the display.
2. Tap the number key representing the first digit of the desired Contact's speed dial number.
3. Tap the number key representing the second digit of the desired Contact's speed dial number.
4. Press and hold the number key representing the third digit of the desired Contact's speed dial number.

Example: To speed dial the Contacts entry assigned to speed dial 325, tap 3 def or ⊟R, tap 2 abc or ⊟B, then press and hold 5 jkl or ⊟D .

Plus (+) Code Dialing

When placing international calls, you can use Plus Code Dialing to automatically enter the international access code for your location.

Example: 011 is the code for international calls placed from the United States.

To make a call using Plus Code Dialing:

1. In Standby mode, tap **Dialer**. The Dialer screen appears in the display.
2. Tap and hold * until a "+" appears in the display.
3. Enter the country code and phone number you want calling and press ⌷ . (The access code for international calling will automatically be dialed, followed by the country code and phone number.)

Voice Commands

The voice recognition capabilities of your R630 are exceptional due to advanced, speaker-independent technology. This means you do not need to "train" your phone to understand your voice. You can use your voice *in a natural manner* to dial numbers.

Note: End Calls Before relaunching the Voice Service voice recognition software — When you use Voice Commands to make a call, you must end that call before you can use other Voice Commands. (For more information, refer to *"Voice Service"* on page 78.)

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

Voice Dialing Tips:

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

Dialing a Name

To dial a name, do the following:

1. In Standby mode, tap **Menu ➔ Menu 2 ➔ Voice Commands**.

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Tip: You can select Voice Commands as one of your Shortcuts. (For more information, refer to *"Shortcut Screen"* on page 14.)

"**Please say a command**" is pronounced through the speaker.

2. Say, "**Call**".

   You are prompted to "**Say the name or number of the person you would like to call, or say voicemail or last number**".

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

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

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

4. Say "**Yes**" to confirm the name or "**No**" to hear the next name, or use the keypad to select the correct name from the list. (For more information, refer to *"Voice Service"* on page 78.)

   • Press ![phone key] to exit Voice Service without dialing.

If the recognized name has multiple numbers stored for it (that is, Mobile 1, Mobile 2, Home, and so on), Voice Commands displays the possible choices and prompts you with "**Which location?**"

5. Say or tap one of the following number types:
   • "**Mobile 1**"
   • "**Mobile 2**"
   • "**Home**"
   • "**Fax**"

   Voice Commands dials the specified number.

Dialing a Number

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

1. In Standby mode, tap **Menu** ➔ **Menu 2** ➔ **Voice Commands**.

Tip: You can select Voice Commands as one of your Shortcuts. (For more information, refer to *"Shortcut Screen"* on page 14.)

"**Please say a command**" is pronounced through the speaker.

2. Say "**Call**".

   You are prompted to "**Say the name or number of the person you would like to call, or say voicemail or last number**".

3. Speak clearly and say the telephone number of the person you want to call.
   For example, say "7 8 1 9 7 0 5 2 0 0."

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

4. Say "**Yes**" to confirm the number or "**No**" to hear the next one, or use the keypad to select the correct number from the list. (For more information, refer to *"Voice Service"* on page 78.)
   • Tap **Repeat** to say the number again.
   • Press 🔘 to exit Voice Commands without dialing.

Pause Dialing From a Contacts Entry

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

Answering a Call

Incoming

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

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

Tip: Assign pictures to Contacts entries. The entry's assigned picture appears in the display when you receive a call from that entry. For more information, refer to *"Assigning a Picture to a Contacts Entry"* on page 37.

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

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

Call Notification Features

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

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

Set Call Ringer Volume

For more information, refer to *"Adjust the Ringer"* on page 19.

Call Answer

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

1. In Standby mode, tap **Menu ➔ Settings ➔ Call Settings ➔ Answer Options**.

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

The following options appear in the display:

- **Slide Open** — Slide the phone open to answer an incoming call.
- **Any Key** — Pressing any key on either keypad, except [icon] or [icon] or tapping **Quiet** or **Ignore & Msg** answers a call.
- **Auto w/Handsfree** — Phone automatically answers incoming calls when connected to a Bluetooth handsfree car kit.

2. Tap the desired method(s) for answering calls. A check mark appears in the box to the right of each option you select. (You can select all three methods, if you wish.)

3. To de-select an option, tap it again. The check mark disappears.

Call Waiting

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

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

Caller ID

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

Call Block

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

1. In Standby mode, tap **Dialer**, then tap ▓▓, ▓▓, ▓▓.
2. Enter the number whose calls you want to block, then press ‍.

Silence an Incoming Ring

During an incoming call, press the Volume key (▭▬▭) up or down to silence the ringer.

Ignore an Incoming Call

Ignored calls are immediately forwarded to Voicemail.

▶ During an incoming call, tap **Ignore & Msg**. The incoming call is forwarded to Voicemail.

In-Call Options

Access numerous menus and features even while in a call.

Note: If the call is disconnected while accessing an In-Call Option, the In-Call screen disappears from the display and the phone eventually returns to Standby mode.

While in a call, the following buttons appear in the display:

1. **Dialer** — Launches the Dialer screen, letting you make a three-way call. (For more information, refer to *"Three-way Calling"* on page 21.)

2. **Bluetooth** — Launches the Bluetooth screen, letting you switch this call's sounds from the phone's earpiece and microphone to a Bluetooth device. (For more information, refer to *"Device List"* on page 83.)

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3. **Options** — The following options pop-up:
   - **Contact** — Launches the **Contact List** screen, letting you make a three-way call with one / another of your Contacts. (For more information, refer to *"Finding a Contacts Entry"* on page 34.)
   - **Recent Calls** — Launches the **All** calls screen, listing the most current calls. (For more information, refer to *"Calls"* on page 27.)
   - **Message** — Launches the **Message** menu. (For more information, refer to *"Messaging"* on page 44.)
   - **Send DTMF** — Sends your phone number as DTMF (Dual-Tone Multi-Frequency) tones to the other party to the call.
   - **Voice Privacy** — Lets you change your phone's current Voice Privacy setting. (For more information, refer to *"Voice Privacy"* on page 100.)
   - **Location** — Lets you change your phone's current Location setting. (For more information, refer to *"Location"* on page 90.)
   - **Bluetooth** — Launches the Bluetooth screen, letting you switch this call's sounds from the phone's earpiece and microphone to a Bluetooth device. (For more information, refer to *"Device List"* on page 83.)
4. **Speakerphone** — Press and slide to enable (left) / disable (right) Speakerphone mode, letting you conduct the call handsfree or to share the call with others. (For more information, refer to *"Responsible Listening"* on page 114.)

5. **Mute** — Press and slide to Mute (left) / unmute (right) the phone's microphone.

Calls

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

▶ In Standby mode, tap **Menu**, then tap **Calls**. A list of call logs appears in the display. The following sections describe these call logs in detail.

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

Missed / Received / Dialed Calls

The last 90 missed/received/dialed calls are stored in the Dialed calls log. Review the Dialed calls log for the time and date of a call, as well as other information.

1. From the **Calls** menu, Tap **Dialed**. A list of your dialed (outgoing) calls appears in the display.

2. Tap and drag the list to scroll up or down for a particular call, then tap the call to view further information.

   The following buttons are available:

   • **Call** — Dial this number.

   • **Msg.** — Compose and send a message (Text / Picture / Video) to this number.

   • **Save** — Save this number to your Contacts.

3. For additional options, tap ▤. The following options appear in the display:

   • **Erase** — Erase the selected call from your Dialed call log.

   • **Lock/Unlock** — Blocks/permits erasure of the selected call from your Dialed call log.

All Calls

The last 270 calls (missed, received, and dialed) are listed in the All calls log. Review the All calls log for the time and date of a call, as well as other information.
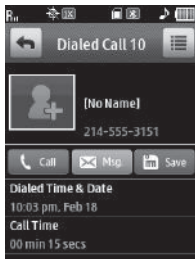
1. From the **Calls** menu, tap **All**. A list of your all calls appears in the display.

Tip: You can also access the **All** calls log from a Home screen by pressing ▭.

The following icons indicate the type of call:

   ◌ **Missed call**

   ◌ **Received call**

   ◌ **Dialed call**

2. For additional options, tap ▤. The following options appear in the display:

   • **Erase** — Erase one or more selected calls from your Call log.

   • **Lock/Unlock** — Blocks/permits erasure of one or more selected call from your Dialed call log.

   • **View Timers** — Lists total time for the Last Call; numbers of calls and total times for All Calls, Received Calls, Dialed Calls, Roaming Calls, and Lifetime calls; and data totals for Transmit Data, Received Data, Total Data, and Lifetime Data Counter. You can reset all but the Lifetime counters.

3. Tap and drag the list to scroll up or down for a particular call, then tap the call to view further information.

The following buttons are available:

- **Call** — Dial this number.

- **Msg.** — Compose and send a message (Text / Picture / Video) to this number.

- **Save** — Save this number to your Contacts.

4. For additional options, tap ▤. The following options appear in the display:

- **Erase** — Erase the selected call from your Call log.

- **Lock/Unlock** — Blocks/permits erasure of the selected call from your Dialed call log.

Erase Logs

You can erase individual calls from the Missed, Received, Dialed, or All call logs by doing the following:

1. From the **Calls** menu, tap **Missed / Received / Dialed / All**. A selected list of your calls appears in the display.

2. Tap and drag the list to scroll up or down for a particular call, then tap the call you wish to erase. The information for this call appears in the display.

3. Tap ▤ ➔ **Erase**.

4. "**Erase entry?**" appears in the display as well as the options **Yes** and **No**.

5. To Erase all calls, tap **Yes**. To keep the calls, tap **No**.

Erase All Calls

1. From the **Calls** menu, tap **All** ➔ ▤ ➔ **Erase**. The **Erase** calls list appears in the display.

2. Tap **Erase All**. Check marks appear in the check boxes to the right of all calls.

3. Tap **Done**.

4. "**Erase entries?**" appears in the display as well as the options **Yes** and **No**.

5. To Erase all calls, tap **Yes**. To keep the calls, tap **No**.

View Timers

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

Note: View Timers is not for billing purposes.

1. From the **Calls** menu, tap **View Timers**. The following options appear in the display:
   - **Last Call** — Shows the duration of your last call.
   - **All Calls** — Shows the number and total duration of all calls originated by and made to your phone since the last erasure.
   - **Received Calls** — Shows the number and total duration of all calls made to your phone since the last reset.
   - **Dialed Calls** — Shows the number and total duration of all calls originated by your phone since the last reset.
   - **Roaming Calls** — Shows the number and total duration of all calls originated by and made to your phone while roaming and since the last reset.
   - **Transmit Data** — Shows the amount of data sent by the data services on your phone.
   - **Received Data** — Shows the amount of data received by the data services on your phone.
   - **Total Data** — Shows the total amount of data sent and received by the data services on your phone.

- **Last Reset** — Shows the date and time you last reset all counters (except Lifetime Calls).
- **Lifetime Calls** — Shows the duration of all calls on your phone since activation (Lifetime timers cannot be reset).
- **Lifetime Data Counter** — Shows the total amount of data sent and received by the data services on your phone since activation (Lifetime data counters cannot be reset).

Reset Timers / Counters

1. From the **View Timers** screen, press **Reset**. The **Reset** screen appears in the display.

2. To reset a particular timer or counter, tap and drag the list to scroll up or down for a particular timer or counter, then tap the timer or counter you wish to reset. A check mark apppears in the check box to the right of the timer or counter.

   To reset all timers and counters, tap **MarkAll**. Check marks apppears in the check boxes to the right of the timers and counters.

3. Tap **Done**. You are prompted to confirm the reset of the timer(s) and/or counter(s).

4. To reset the timer(s) and/or counter(s), tap **Yes**.

Note: Although Total call timers and data counters can be reset, Lifetime call timers and data counters can never be reset.

Store Numbers from Call Logs

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

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

---

1. From the **Calls** menu, tap **Missed** / **Received** / **Dialed** / **All**. A selected list of your calls appears in the display.

2. Tap and drag the list to scroll up or down for a particular call, then tap the the number you wish to store in Contacts. The information for this call appears in the display.

3. Press ▬ Save .

4. To add the number as a new Contacts entry, tap **Add New Contact**.

    To find a Contact with which to associate the new number, tap **Update Existing**.

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

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Section 4: Understanding Your Contacts

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

Contacts

Up to 500 entries can be stored in Contacts. Each entry can have up to five associated phone numbers and one e-mail address. Each phone number can be up to 32 digits in length, including **2-Sec** or **Wait** pauses (for more information, refer to *"Manual Pause Calling"* on page 21), and associated names can be up to 32 characters in length. You can assign the Speed Dial numbers of your choice for each entry. You can also mark your Contacts list as Restricted to prevent unauthorized viewing. (For more information, refer to *"Restrictions"* on page 97.)

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

Launch the Contacts Menu

1. In Standby mode, tap **Menu ➔ Contacts**. The following options appear in the display:

Tip: To launch the Contacts menu using a voice command — In Standby mode, tap **Menu ➔ Menu 2 ➔ Voice Commands**. Voice Service prompts, "**Say a command.**" Say "**Go to Contacts**" into the microphone.

- **New Contact** — Add a number or e-mail address to your Contacts.
- **Contacts List** — Find a phone number by name.

Tip: You can also access the **Contacts List** option from Standby mode, by tapping **Contacts**.

- **Groups** — Review, send messages to, add Contacts to, or rename all but one of your groups. (See *"Contacts Groups"* on page 41 for more information.)
- **Speed Dials** — Assign/re-assign/or remove a Contacts entry to/from a Speed Dial number. (See *"Speed Dial"* on page 39 for more information.)
- **Service Numbers** — Identify and call particular Service Numbers.
- **Memory Status** — Display used and available memory for Contacts entries.

2. Tap the option of your choice.

Adding a New Contacts Entry

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

Dial Method

1. From a Home screen, tap **Dialer**.
2. Enter the number you wish to add to your Contact List.
3. Tap **Save**. The following options pop-up in the display:
   • **Add New Contact** — Lets you create a new Contacts entry.
   • **Update Existing** — Lets you add the number you entered to an existing Contacts entry.
   • **Memo** — Enter this number into a text memo.
4. Tap **Add New Contact**. The **Add New Contact** screen appears in the display showing the following icons:

⬚	**Mobile 1**	⬚	**Business**
⬚	**Mobile 2**	⬚	**Fax**
⬚	**Home**		
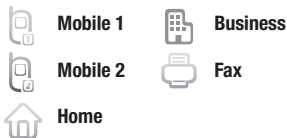
5. Tap the number type that matches your new entry.
6. Open the QWERTY keypad.
7. Tap the **Name** field.

8. Enter a name to associate with the Contacts entry.
9. Tap **Save** to save the entry.

Menu Method

1. In Standby mode, tap **Menu ➔ Contacts ➔ New Contact**. The **New Contact** screen appears in the display.
2. Open the QWERTY keypad.
3. Tap the **Name** field.
4. Enter the name of the new Contact. (For more information, refer to *"Entering Text"* on page 16.)
5. Locate and tap one of the following fields:

⬚	**Mobile 1**	⬚	**Mobile 2**
⬚	**Home**	⬚	**Fax**
⬚	**Business**		

6. Enter a phone number in the selected field.
7. Repeat steps 5 and 6 as needed.
8. Tap **Save** to save the entry.

Shortcut Method

1. In Standby mode, tap **Contacts**. The **Contact List** screen appears in the display.

2. Tap **New Contact** (➕). The New Contact screen appears in the display.

3. Open the QWERTY keypad.

4. Tap the **Name** field.

5. Enter the name of the new Contact. (For more information, refer to *"Entering Text"* on page 16.)

6. Locate and tap one of the following fields:

🔲	**Mobile 1**	🔲	**Mobile 2**
🏠	**Home**	🖨	**Fax**
🏢	**Business**		

7. Enter a phone number in the selected field.

8. Repeat steps 6 and 7 as needed.

9. Tap **Save** to save the entry.

Finding a Contacts Entry

Menu Method

If you've stored a name entry in Contacts, the Contact List lets you find it quickly.

1. In Standby mode, tap **Menu ➔ Contacts ➔ Contact List**.

The **Cantact List** screen appears in the display showing the first few names in your Contacts list.

Tip: You can also access the **Contact List** screen from Standby mode by tapping **Contacts**.

2. Open the QWERTY keypad and enter a name as entered in Contacts.

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

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

3. When the desired entry is listed in the display, the following options are available:

• Tap 🗑 to erase one or more selected Contacts.

• Tap 📞, the following additonal options are available:

– **Call** — Dial the number associated with the name.

– **New Text Message** — Create and send a text message to the selected Contact.

– **New Picture Message** — Create and send a picture message to the selected Contact.

– **New Video Message** — Create and send a video message to the selected Contact.

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

4. View the desired Contact's information by tapping the Contact. The following options are available:

• Press ![dial key] to dial the number associated with the name.

• Tap ![menu icon]. The following options appear in the display:

  – **Set Speed Dial** — Assign a Speed Dial number to this Contact.

  – **Set Default Number** — Contact with multiple numbers — Assign a number as Default number for this Contact.

  – **Send Name Card Via Bluetooth** — Send a copy of this Contacts entry to another Bluetooth device.

• Tap **Edit** to add or change information for this entry.

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

Voice Method

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

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

To look up information for a specific Contact:

1. In Standby mode, tap **Menu → Menu 2 → Voice Commands**. "**Say a Command**" appears in the display and plays through the speaker.

2. Say "**Contacts**".

Voice Service prompts you to "**Say the name.**"

3. Speak clearly and say the full name of the person you want to call, exactly as it is entered in your Contacts list.

• If Voice Service recognizes the name you said, the contact information for that name appears in the display.

• If Voice Service does not recognize the name you said, a choice list of up to three names appears in the display, and Voice Service prompts you with "**Did you say?**" followed by the first name on the list.

4. Say "**Yes**" to confirm the name or "**No**" to hear the next name, or use the keypad to select the correct name from the list. (For more information, refer to *"Confirm Choices"* on page 79.)

• To say the name again, tap **Repeat**.

5. The contact information for the name you selected appears in the display.

• Press ![dial key] to dial the number associated with the name.

• Tap ![menu icon]. The following options appear in the display:

  – **Set Speed Dial** — Assign a Speed Dial number to this Contact.

  – **Set Default Number** — Contact with multiple numbers — Assign a number as Default number for this Contact.

  – **Send Name Card Via Bluetooth** — Send a copy of this Contacts entry to another Bluetooth device.

• Tap **Edit** to add or change information for this entry.

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

Editing a Contacts Entry

Editing Contacts Name and Numbers

1. Find the Contacts entry you wish to change. See *"Finding a Contacts Entry"* on page 34 for more information.

2. Tap the desired Contact. The selected Contact's information appears in the display.

3. Scroll up or down to review the information for the Contact that you wish to change, then tap **Edit**. The **Edit Contact** screen appears in the display.

4. Open the QWERTY keypad and tap the particular information you want to add or change.

• Press ◉ to backspace and delete numbers or letters.

• Press and hold ◉ to clear all numbers or letters in the highlighted field.

• Tap ▤. The following options popup in the display:

 – **Set Speed Dial** / **Remove speed dial** — Assign/remove a speed dial number (see *"Speed Dial"* on page 39 for more information).

 – **2-Sec Pause** — A 2-second pause after which dialing resumes (see *"Add Pauses to Contacts Numbers"* on page 36 for more information).

 – **Wait** — A hard pause (waits for input from you).

Select the desired option.

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

Add Pauses to Contacts Numbers

Calls to automated systems such as banking services often require a password or account number. Instead of manually entering these numbers, you can store them in a Contacts entry with the phone number and with special characters called pauses, up to a maximum of 32 digits.

• **2-Sec Pause** — Stops the calling sequence for two seconds, then sends the remaining digits.

• **Wait** — Stops the calling sequence until the phone receives further input.

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

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

1. Find the Contacts entry associated with the number you want to include one or more pauses. See *"Finding a Contacts Entry"* on page 34 for more information.

2. Select and edit the desired number. See *"Editing a Contacts Entry"* on page 36 for more information.

3. Tap **Options**. The following pause options appear in the display:
   - **Wait** — A hard pause (waits for input from you).
   - **2-Sec Pause** — A 2-second pause after which dialing resumes.
4. Select the pause option of your choice to it into the number sequence.
5. When you're finished entering information, tap **Save** store the number to Contacts.

Pause Dial from Contacts

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

Edit an Existing Email Address

1. Find the Contacts entry you want to edit. See *"Finding a Contacts Entry"* on page 34 for more information.
2. Tap the desired Contacts entry, then tap **Edit**.
   The **Edit Contact** screen appears in the display.

3. Open the QWERTY keypad, then tap the Personal Email address field.
4. Use the keypad to edit the Email address. (For more information, refer to *"Entering Text"* on page 16.)
5. Tap **Save** to save your changes.

Assigning a Picture to a Contacts Entry

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

1. Find the Contacts entry you want to edit. See *"Finding a Contacts Entry"* on page 34 for more information.
2. Tap the desired Contact, then tap **Edit**. The **Edit Contact** screen appears in the display.
3. Tap the Picture ID field (at the top of the **Edit Contact** screen), the following options pop-up in the display:
   - **Pictures** — To select an existing photo.
   - **Camera** — To take a new photo.
4. When you tap **Pictures**, the **Pictures** screen appears in the display, showing a series of thumbnail photos. (For more information, refer to *"The Pictures Gallery"* on page 68.)
   - Tap the picture that you wish to assign to the Contacts entry, then tap **Set**. The **Edit Contact** screen appears in the display with a thumbnail view of the selected image in the Picture ID field.

– or –

If there are no pictures, or if you cannot find an appropriate picture, tap ● → **Camera**. The camera viewfinder screen appears in the display with **Resolution** set to **1024x768**.

• Press the Camera key. The new picture appears in the display.

• Tap **Set**. The **Edit Contact** screen appears in the display with a thumbnail view of the selected image in the Picture ID field.

5. Tap **Save** to save the picture assignment to the selected Contacts entry.

Assigning a Ringtone to a Contacts Entry

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

1. Find the Contacts entry you want to edit. See *"Finding a Contacts Entry"* on page 34 for more information.

2. Tap the desired Contact, then tap **Edit**. The **Edit Contact** screen appears in the display.

3. Tap the Ringtone field. The **Ringtones** screen appears in the display.

4. Tap the ringtone, sound file, or music file that you wish to assign to the Contacts entry. The **Edit Contact** screen appears in the display with the name of the selected file in the Ringtone field.

5. Tap **Save** to save the ringer assignment to the selected Contacts entry.

Saving a Number After a Call

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

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

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

2. Tap **Save**. The following options appear in the display:

• **Add New Contact** — Lets you create a new Contacts entry.

• **Update Existing** — Lets you add the number you entered to an existing Contacts entry.

3. Follow the instructions in the upcoming sections depending on whether the number is a new entry or you wish to add it to an existing entry.

Create a New Entry

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

📱	**Mobile 1**	🖨	**Fax**
📱	**Mobile 2**	🏠	**Home**
🏢	**Business**		

2. Select the number type that matches your new entry.
3. Enter a name for the new entry. (For more information, refer to *"Entering Text"* on page 16.)
4. Tap **Save**. The new entry is saved to your Contacts list.

Add to an Existing Entry

1. Select **Update Existing**. The **Update Existing** screen appears in the display showing your Contacts list.
2. Find the Contacts entry to which you want to add the new number. See *"Finding a Contacts Entry"* on page 34 for more information.

3. Tap the desired Contact. The following number type options appear in the display:

📱	**Mobile 1**	🖨	**Fax**
📱	**Mobile 2**	🏠	**Home**
🏢	**Business**		
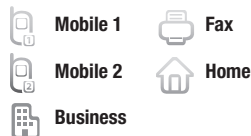
Number types that are already assigned a number show the number instead of the number type label.

4. Select the desired unassigned number type. The Contacts entry information appears in the display with the new number posted in the appropriate number type field.
5. Tap **Save** to save your changes to the existing entry.

Speed Dial

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

• To speed dial the Contacts entry assigned to Location 5, tap **Dialer**, then press and hold `5`, (1-touch dialing).
• To speed dial the Contacts entry assigned to Location 35, tap `3` then press and hold `5`, (2-touch dialing).

• To speed dial the Contacts entry assigned to Location 235, tap `2 abc`, tap `3 def`, then press and hold `5 jkl` (3-touch dialing).

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

Assignment During Entry Creation

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

1. Follow either of the New Contacts entry procedures (see *"Adding a New Contacts Entry"* on page 33) until you enter a name for the entry.

2. After entering the Contacts entry name, **do not press Save**. Open the QWERTY keypad and tap the number field.

3. Tap **Options ➔ Set Speed Dial**. The **Set Speed Dial** screen appears in the display.

4. Tap an **Unassigned** Speed Dial number.

   – or –

   Tap the Search field, enter a Speed Dial number, then tap the desired **Unassigned** Speed Dial number.

Important!: Do not enter Speed Dial numbers 1, 311, 411, 611, 711, or 911. These numbers are already assigned to particular network functions, such as Voicemail (001) and emergency use (911).

You are prompted to confirm your Speed Dial number assignment.

5. Tap **Yes** to save your Speed Dial assignment and return to the **Add New Entry** screen.

Note: Tap **No** to discard the assignment and return to the **Speed Dial** screen.

6. Tap **Save** to save your changes.

Changing a Speed Dial Location

1. Find the Contacts entry you want to edit. See *"Finding a Contacts Entry"* on page 34 for more information.

2. Tap the desired Contack.

3. Open the QWERTY keypad.

4. Tap `≡` ➔ **Remove Speed Dial**. The **Remove Speed Dial** screen appears in the display, listing the Speed Dial location(s) assigned to this Contact.

5. Tap the Speed Dial assignment you wish to remove. "**Remove speed dial?**" pops up in the display, prompting you to confirm your desire to remove the entry.

6. Tap **Yes** to remove the Speed Dial assignment. "**Speed dial removed**" pops up in the display, and you are returned to the **Edit Contact** screen.

7. Do steps 2 through 4 of the "Assignment During Entry Creation" procedure on page 40.

Contacts Groups

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

Add Contacts Entry to a Group

Using Add New/Edit Contact Option

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

1. Create a Contacts entry (see *"Adding a New Contacts Entry"* on page 33 for more information) or find and edit a Contacts entry (see *"Editing a Contacts Entry"* on page 36 for more information) that you want to add to a Group.

2. Tap the **Group** field. The **Select Group** screen appears in the display showing Groups similar to the following:
   • **Business**
   • **Colleague**
   • **Family**
   • **Friends**

3. Tap the Group to which you want to assign the new or selected Contact. A checkmark appears to the right of the selected Group.

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

5. Tap **Save** to save your changes.

Using Group Add Members Option

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

1. In Standby mode, tap **Menu** ➔ **Menu 1** ➔ **Contacts** ➔ **Groups**. The **Groups** screen appears in the display showing Groups similar to the following:
   • **Business**
   • **Colleague**
   • **Family**
   • **Friends**

2. Tap a Group, then tap **Add Members** (+). The **Add Members** appears in the display, listing Contacts not added to other Groups.

3. Do one of the following:
   • Tap a Contact you want to add to the Group. A check mark appears in the entry's checkbox.
     Repeat as needed to check all the desired Contacts.

   • Tap **Mark All**.

Note: To unmark a marked Contact, tap the Contact to clear the check mark.

4. When you have marked the Contacts you want to add to the group, tap **Done**. "**Contact added to**" appears briefly in the display, followed by the selected Group name. Then, the selected Group list appears, listing all Contacts in the Group.

Rename a Group

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

1. In Standby mode, tap **Menu** ➔ **Contacts** ➔ **Group**. The **Group List** screen appears in the display.
2. Tap ▤ ➔ **Rename Group**. The **Select Group** screen appears in the display.
3. Tap the Group name you wish to change. The **Rename Group** screen appears in the display.
4. Open the QWERTY keypad and enter changes to the group name. (For more information, refer to *"Entering Text"* on page 16.)
5. When you have completed your changes to the Group name, tap **Done**.

   "**Group renamed**" appears in the display followed by the Group List screen showing your renamed Group.

Add a New Group

The New option lets you add Groups.

1. In Standby mode, tap **Menu** ➔ **Contacts** ➔ **Group**. The **Group List** screen appears in the display.
2. Tap **New Group** (✚). The **New Group** screen appears in the display.
3. Open the QWERTY keypad and enter a new group name. (For more information, refer to *"Entering Text"* on page 16.)
4. When you have completed entering the new Group name, tap **Done**. "**Group saved**" appears in the display followed by the Group List screen showing your new Group.

Erase a Group

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

1. In Standby mode, tap **Menu** ➔ **Contacts** ➔ **Groups**. The **Groups** screen appears in the display.
2. Tap ▤ ➔ **Erase Group**. The **Erase Group** screen appears in the display.
3. Tap the Group you want to delete. A check mark appears in the box to the right of the selected Group.
4. Tap **Done**. You are prompted to confirm the deletion.

5. To confirm erasure of the highlighted Group, tap **Yes**. To retain the Group, tap **No**.

Deleting a Contacts Entry

1. In Standby Mode, tap **Contacts → 🗑**. The **Erase** screen appears in the display.
2. Scroll to and tap the Contact you want to erase. A check mark appears in the box to the right of the Contact.
3. Tap **Done**. The phone prompts you to confirm the erasure.
4. To confirm erasure of the selected Contact, tap **Yes**. To retain the Contact, tap **No**.

Memory Status

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

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

The **Memory Status** screen appears in the display showing the Total amount of memory for storing Contacts, the number of Saved Contacts and Available storage for Contacts.

Section 5: Messaging

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

Note: You can only enter message text using the QWERTY keypad.

Types of Messages

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

Note: Available memory is shared between all messages. You can store up to 300 messages. However, the exact number is dependent upon message length.

Create and Send Text Messages

1. In Standby mode, tap **Menu ➔ Messaging ➔ New Message ➔ Text Message**. The **New Txt Msg** screen appears in the display.

Tip: To launch the **New Txt Msg** screen using a voice command — In Standby mode, tap **Menu ➔ Tools ➔ Voice Service ➔ Voice Commands**. The phone prompts, "**Say a command.**" Say "**Send Text**" into the microphone. You are then prompted to say a Contact name or a number for the first recipient of the message.

2. Slide the QWERTY keypad open.

3. Tap **Add ➔ From Contacts** / **Recent Calls** / **Groups** and find and select a recipient for this message.

   – or –

   Tap **New#** and enter a recipient number or e-mail address.

4. Tap the **Text** field.

5. Enter the text content of your message using the keypad. (For more information, refer to *"Entering Text"* on page 16.)
   At any point while composing a message:
   • Press ▤ to complete the message text and set message send options. The following options appear in the display:
     – **Save As Draft** — Save the message to your Draft folder.
     – **Insert Quick Text** — Insert pre-composed text in your message.
     – **Priority Level** — Choose **Urgent** or **Normal**.
     – **Validity Period** — Enter the **Date** when this message will cease to be valid, then enter the **Time**.
     – **Enh. Deliver Ack** — Choose **On** or **Off** — Requests confirmation when your message is received.

6. To enter symbols not shown on the QWERTY keypad, do te following:
   • Tap **Symbols**. The **Symbols** menu appears in the display.

• Tap the desired symbol. The selected symbol appears in the **Text** field.

7. Once you're finished entering your message, press **Send**.

Receive Text Messages

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

• **View Now** — Opens the message, where you have the option to Reply, Forward, Reply w.Copy, Erase, Save Quick Text, Lock/Unlock, Add To Contacts or View Contact, Extract Addresses, or Message Info.

• **View Later** — Saves the message to your Messages folder, where you can view it later, then returns your phone to Standby mode.

Select your choice.

Receive Messages While in a Call

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

• **View Now** — Opens the message, where you have the option to Reply, Forward, Reply w.Copy, Erase, Save Quick Text, Lock/Unlock, Add To Contacts or View Contact, Extract Addresses, or Message Info.

• **View Later** — Saves the message to your Messages folder, where you can view it later, then returns your phone to Standby mode.

Select the desired option.

Send Picture Messages in Camera Mode

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

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

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1. In Standby mode, press the Camera key (▭). The camera viewfinder screen appears in the display.

2. Using the display as a viewfinder, when the image that you wish to send appears in the display, press the Camera key (▭) to take a picture. Your new picture appears in the picture review screen.

Note: For more information about using the camera feature in your phone, see *"Camera-Camcorder"* on page 56.

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3. Tap **Send via**. The **Send Via** menu appears in the display.

4. Tap **Picture Message**. The **New PIC Msg** screen then appears in the display with your new picture populating the **Slide** field.

5. Slide the QWERTY keypad open.

6. Tap **Add → From Contacts** / **Recent Calls** / **Groups** / **Online Album** and find and select a recipient for this message.

– or –

Tap **New#** and enter a recipient number or e-mail address.

7. Tap and slide to scroll down to, and then tap, the **Text** field, then enter the message text using the keypad. (For more information, refer to *"Entering Text"* on page 16.)

8. If you wish to insert a sound into your Picture message, tap and slide to scroll down to the **Sound** field and do the following; otherwise, proceed to step 9.

• Tap the **Sound** field. The **Ringtones** screen appears in the display showing the following options:

– **Record New** — Record a new memo to insert into the message.

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

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

• Tap **Record New** or tap the desired sound file to be inserted into your message.

9. Tap and slide to scroll down to, and then tap, the **Subject** field. Enter a subject for the Picture message using the keypad. (For more information, refer to *"Entering Text"* on page 16.)

10. Tap 🗒 to complete the message text and set message send options. The following options appear in the display:

• **Preview** — View the picture as the recipient will see it.

• **Save As Draft** — Save the message to your Draft folder.

• **Add Slide** — Add a slide and another picture to your message.

• **Remove Slide** — Remove a slide from your message.

• **Insert Quick Text** — Insert pre-composed text in your message.

• **Priority Level** — Choose **Urgent**, **Normal**, or **Low**.

• **Validity Period** — Enter the **Date** when this message will cease to be valid, then enter the **Time**.

• **Delivery Ack** — Choose **On** or **Off** — Requests confirmation when your message is received.

Tap an option to launch its function.

11. To send the message, tap **Send**. "**Pic Msg Sending**" appears in the display and a progress bar indicates the send status.

Send Picture Messages in Standby Mode

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

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

1. In Standby mode, tap **Menu** ➔ **Messaging** ➔ **New Message** ➔ **Picture Message**. The **New PIC Msg** screen appears in the display.

Tip: To launch the **New PIC Msg** screen using a voice command — In Standby mode, tap **Menu** ➔ **Tools** ➔ **Voice Service** ➔ **Voice Commands** until the phone prompts, "**Say a command.**" Say "**Send Picture**" into the microphone. You are then prompted to say a Contact name or a number for the first recipient of the message.

2. Slide the QWERTY keypad open.

3. Tap **Add** ➔ **From Contacts** / **Recent Calls** / **Groups** / **Online Album** and find and select a recipient for this message.

 – or –

 Tap **New#** and enter a recipient number or e-mail address.

4. Tap the **Slide** field. A photo gallery of thumbnail images appears in the display.

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5. Tap a picture to be added to your message. The selected picture expands to fill the screen. Then, do the following:
 • If you want to include a new picture, tap 🔳 ➔ **Take Picture**.

Note: For more information about using the camera feature in your phone, see *"Camera-Camcorder"* on page 56.

 • Press ➕ to add the highlighted picture to your message. You are returned to the **New PIC Msg** screen with the selected picture in the **Slide** field.

6. Tap and slide to scroll down to, and then tap, the **Text** field, then enter the message text using the keypad. (For more information, refer to *"Entering Text"* on page 16.)

7. If you wish to insert a sound into your Picture message, tap and slide to scroll down to the **Sound** field and do the following; otherwise, proceed to step 9.
 • Tap the **Sound** field. The **Ringtones** screen appears in the display showing the following options:
 – **Record New** — Record a new memo to insert into the message.

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

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

- Tap **Record New** or tap the desired sound file to be inserted into your message.

8. Tap and slide to scroll down to, and then tap, the **Subject** field. Enter a subject for the Picture message using the keypad. (For more information, refer to *"Entering Text"* on page 16.)

9. Tap ☰ to complete the message text and set message send options. The following options appear in the display:
   - **Preview** — View the picture as the recipient will see it.
   - **Save As Draft** — Save the message to your Draft folder.
   - **Add Slide** — Add a slide and another picture to your message.
   - **Remove Slide** — Remove a slide from your message.
   - **Insert Quick Text** — Insert pre-composed text in your message.
   - **Priority Level** — Choose **Urgent**, **Normal**, or **Low**.
   - **Validity Period** — Enter the **Date** when this message will cease to be valid, then enter the **Time**.
   - **Delivery Ack** — Choose **On** or **Off** — Requests confirmation when your message is received.

   Tap an option to launch its function.

10. To send the message, tap **Send**. "**Pic Msg Sending**" appears in the display and a progress bar indicates the send status.

Receive Picture Messages

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

- **View Now** — Retrieves and opens the message, where you have the option to Reply, Forward, Erase, Lock, Save Quick Text, Save Pic, View Contact, or Message Info.
- **View Later** — Saves the message to your inbox, where you can view it later, then returns your phone to Standby mode.
- **Reject** — Discards the message.

Select the desired option.

View a Picture Message Now

1. After you select the **View Now** option, "**Connecting**" appears in the display followed by "**Retrieving**" and a progress bar indicating that the message is downloading to your phone.

2. After the Picture message has downloaded, an alert sounds, and the new Picture message appears in the display. If the message includes a sound file, the phone begins playing it.

3. Press 🔲 to complete the message and set message send options. The following options appear in the display:

   • **Play Again** — Play the sound file included in the picture message again.

   • **Forward** — Send a copy of this message to another recipient.

   • **Erase** — Discard (delete) this message.

   • **Lock** / **Unlock** — Block/permit erasure of the highlighted message.

   • **Save Quick Text** — Save the text in this message as a new Quick Text.

   • **Save Pic** — Save the picture included in this message to the My Images folder.

   • **Save Sound** — Save the sound file included in this message to the My Sounds folder.

   • **Add To Contacts** — Save the sender's number to your Contacts.

   • **Message Info** — Shows message delivery status, addressee, size, and so on.

4. Select an option to perform its function.

Note: For more information on received picture message options, see *"Messages"* on page 51.

View a Picture Message Later

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

the display.

2. Tap the new picture message "**Connecting**" appears in the display followed by "**Retrieving**" and a progress bar indicating that the message is downloading to your phone.

3. Once a Picture message has been downloaded to your phone, the new Picture message appears in the display. If the message includes a sound file, the phone begins playing it.

Note: For more information on viewing and managing received picture messages, see *"Messages"* on page 51.

Creating and Sending a Video Message

1. In Standby mode, tap **Menu** ➔ **Messaging** ➔ **New Message** ➔ **Video Message**. The **New Video Msg** screen appears in the display.

Tip: To launch the **New Video Msg** screen using a voice command — In Standby mode, tap **Menu** ➔ **Tools** ➔ **Voice Service** ➔ **Voice Commands** until the phone prompts, "**Say a command.**" Say "**Send Video**" into the microphone. You are then prompted to say a Contact name or a number for the first recipient of the message.

2. Slide the QWERTY keypad open.

3. Tap **Add** ➔ **From Contacts** / **Recent Calls** / **Groups** / **Online Album** and find and select a recipient for this message.

   – or –

Tap **New#** and enter a recipient number or e-mail address.

4. To add a video clip to the message, tap the **Video** field. The **My Videos** folder appears in the display.

5. Tap the desired video, then tap 📧 ➜ **Add**.

– or –

Activate the phone's camcorder and record a new video clip, by tapping 📧 ➜ **Record Video**. (For more information, refer to *"Camera-Camcorder"* on page 56.) Once you've recorded a video clip, then tap **Add**.

You are returned to the **New Video Msg** screen which is populated with the selected video clip in the **Video** field.

6. Tap the **Text** field.

7. Enter the Subject text. (For more information, refer to *"Entering Text"* on page 16.)

8. If desired, repeat steps 3 and 4 for the **Subject** field.

9. Before sending your Video message, you can set message send options by tapping 📧. The following options are available:

• **Preview** — View the video message as the recipient will see it.

• **Save As Draft** — Save the message to your Drafts folder.

• **Insert Quick Text** — Insert pre-composed text in your message.

• **Priority Level** — Choose **Urgent**, **Normal**, or **Low**.

• **Validity Period** — Enter the **Date** when this message will cease to be valid, then enter the **Time**.

• **Delivery Ack** — Choose **On** or **Off** — Requests confirmation when your message is received.

10. To send your finished message, press the **Send** soft key.

Send Video Messages in Camcorder Mode

Video messages can be sent from your phone's camcorder to recipients with compatible phones or devices.

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

1. In Standby mode, press the Camera key (⬢). The camera viewfinder screen appears in the display.

2. Tap **Mode**. The camcorder viewfinder screen appears in the display.

3. Tap **Recording Mode ➜ Limit for Send** option.

Note: For more information about setting camcorder options in your phone, see *"Camcorder Options"* on page 65.

4. Using the display as a viewfinder, when the image that you wish to send appears in the display, press the Camera key (⬤) to record a video. The time counter at the bottom of the Camcorder viewfinder screen indicates recording time in seconds.

5. To end your video clip, press **Stop** (◼).

Note: For more information about using the camcorder feature in your phone, see *"Saving Pictures and Videos"* on page 60.

6. Tap **Send via ➔ Video Message / To online Album**. The **New Video Msg** screen appears in the display.

7. To complete and send your message, refer to steps 2 – 9 of *"Creating and Sending a Video Message"* on page 49.

Message Folders

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

Messages

Messages of all types (except Drafts and Voicemail) are stored in the **Messages** folder.

1. In Standby mode, tap **Menu ➔ Messaging ➔ Messages**. The **Messages** screen appears in the display, listing recipients and originators of messages.

Tip: While in a call, tap **Options**, then select **Messages ➔ Messages**.

2. To manage the messages without reviewing them, tap ▤. The following options appear in the display:

• **Sort Alphabetically** — Sort the Messages list with Contacts in alphabetical order followed by non-Contact numbers in numerical order.

• **Erase** — Remove selected or all unlocked messages from the Messages folder.

• **Erase All Messages** — Remove all unlocked messages from the Messages folder.

• **New Message** — Compose and send a new Text, Picture, or Video message.

3. To view a message, select the Contact/number whose message you wish to view. The list of messages exchanged with that Contact/number appears in the display.

4. Tap the message you wish to view. The contents of the selected message appear in the display.

5. Tap ▤. The following options appear in the display:

• **Play Again** — Picture Messages Only — Play the sound file included in the picture message again.

• **Forward** — Send a copy of this message to another recipient.

- **Reply With Copy** — Compose and send a reply message to the originator of the received message and include a copy of the original message.

- **Erase** — Delete this message from the Inbox.

- **Lock** / **Unlock** — Block/permit erasure of the highlighted message.

- **Save Quick Text** — Save the text in this message as a new Quick Text.

- **Save Pic** — Picture Messages Only — Save the picture included in this message to the My Images folder.

- **Save Sound** — Picture Messages Only — Save the sound file included in this message to the My Sounds folder.

- **Add To Contacts** — Save the sender's number to your Contacts.

- **View Contact** — View Contact information.

- **Message Info** — Shows message delivery status, sender, size, and so on.

- **Extract Addresses** — Extract addresses from message text and add to Contacts.

6. Select an option to perform its function.

Drafts

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

Create a Draft Message

1. In Standby mode, tap **Menu** ➔ **Messaging** ➔ **New Messages** ➔ **Text Message** / **Picture Message** / **Video Message**.

    The **New Text Msg** / **New PIC Msg** / **New Video Msg** screen appears in the display.

2. Compose your message using the touch screen and QWERTY keypad. (For more information, refer to *"Create and Send Text Messages"* on page 44, *"Send Picture Messages in Standby Mode"* on page 47, or *"Creating and Sending a Video Message"* on page 49.)

3. Tap ▤ ➔ **Save As Draft**. A confirmation message appears in the display and your message is saved to the Drafts folder.

View and Edit Draft Text Messages

1. In Standby mode, tap **Menu** ➔ **Messaging** ➔ **Drafts**. A list of any draft messages that you've saved appears in the display.

2. Highlight a text message that you wish to view or edit, then tap **Edit**. The **New Text Msg** screen appears in the display.

3. Enter or change the recipient's number and/or e-mail address and edit the message text. (For more information, refer to *"Entering Text"* on page 16.)

4. Tap ☰ to complete the message text and set message send options. The following options appear in the display:

- **Save As Draft** — Save the message to your Drafts box.
- **Insert Quick Text** — Insert pre-composed text in your message.
- **Priority Level** — Choose **Urgent** or **Normal**.
- **Validity Period** — Enter the **Date** when this message will cease to be valid, then enter the **Time**.
- **Enh. Deliver Ack** — Choose **On** or **Off** — Requests confirmation when your message is received.

5. Tap an option to perform the function for that option.

6. When you have completed composing your message, tap **Send** to send it.

View and Edit Draft Pic. Messages

1. In Standby mode, tap **Menu → Messaging → Drafts**. A list of any draft messages that you've saved appears in the display.

2. Tap the picture message that you wish to view, then tap **Edit**. The message edit screen appears in the display.

3. Make any needed changes and tap ☰. The following options appear in the display:

- **Preview** — Shows the message contents.
- **Save As Draft** — Saves the changed message to the Draft Box.
- **Add Slide** — Add a slide and another picture to your message.

- **Remove Slide** — Remove a slide from your message.
- **Priority Level** — Choose **Urgent**, **Normal**, or **Low**.
- **Validity Period** — Enter the **Date** when this message will cease to be valid, then use the Left and Right navigation keys to choose the **Time**.
- **Delivery Ack** — Choose **On** or **Off** — Requests confirmation when your message is received.

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

5. When you have completed composing your message, tap **Send** to send it.

Managing Draft Messages

1. In Standby mode, tap **Menu → Messaging → Drafts**. A list of any draft messages that you've saved appears in the display.

2. Tap ☰. The following options appear in the display:

- **Sort by Recipient** — List messages according to recipient name or number.
- **Erase** — Delete one or more selected draft messages.
- **Erase Drafts** — Delete all draft messages.

3. Tap an option to perform the function for that option.

Voicemail

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

Listen to Voicemail Now

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

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

> ▶ Select the desired option.

Listen to Voicemail Now

When you choose to review your new voicemail message(s) right away, your phone calls your voice mailbox so that you can listen to the message(s). (For more information, refer to *"Listen to Voicemail"* on page 8.)

Listen to Voicemail Later

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

1. In Standby mode, press the Messages shortcut (Up navigation) key, then select **Voicemail**. The Voicemail

screen appears in the display, showing the number of new voicemail messages received and the date and time the latest message was received.

2. Press 🔽 to call your voice mailbox and listen to the message.

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

Erase Messages

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

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

---

1. Standby mode, tap **Menu → Messaging**. The **Messaging** menu appears in the display.

2. Tap 📋 **→ Erase Messages**. The following options appear in the display:

   • **Messages** — Deletes all unlocked messages stored in the Messages folder.

   • **Drafts** — Deletes all unlocked messages stored in the Drafts folder.

• **All Messages** — Deletes all unlocked messages stored in all of the message folders, except Voicemail.

3. Select the folder containing the messages that you wish to delete. You're prompted to confirm the erasure of all messages in the selected folder or in all folders.

4. To delete the messages, tap **Yes**. To cancel deleting the messages, tap **No**.

Message Settings

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

1. Standby mode, tap **Menu ➔ Messaging**. The **Messaging** menu appears in the display.

2. Tap 🔳 **➔ Settings**. The following options appear in the display:

   • **Message View Mode** — Chat / Normal — View messages to/ from the same number/Contact as a "chat session", or view messages individually.

   • **Entry Mode** — Choose the default method for entering text into messages (**Xt9 Word**, **Abc**, **ABC**, **123**).

   • **Auto Save Sent Msg** — Choose whether your messages are saved automatically when you send them (**Auto-Save**, **Don't Save**, **Prompt**).

• **Auto Erase Received Msg** — Choose to automaticall erase (**On**) or not erase (**Off**) old received messages after you view them and new messages require storage space.

• **Text Msg Auto View** — On/Off — With Auto View set to **On**, the full content of a text message appears in the display as the messages is received.

• **Picture/Video Msg Download** — With Msg Download set to **On**, your phone automatically downloads Picture and Video messages for viewing when they are received.

• **Voicemail Number** — Edit or view your Voicemail number.

• **Callback Number** — Choose whether to include a callback phone number with your outgoing messages, and enter the number to be included.

• **Signature** — Choose whether to include a text signature in outgoing message text, and enter the text to be included.

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

Section 6: Camera-Camcorder

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

• Take pictures and videos with your phone's built-in digital Camera-Camcorder.

• Send and receive pictures and videos taken with your phone's Camera-Camcorder.

• Set the several options associated with the Camera-Camcorder that help you take crisp, clear pictures and videos.

Taking Pictures and Videos

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

Taking Single Pictures

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

1. In Standby mode, press the Camera key (⊜) on the right side of the phone. The camera viewfinder screen

appears in the display. (For more information, refer to *"Screen Layouts"* on page 59.)

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

2. If the Shooting Mode icon is not [□], tap **Shooting Mode** ➔ **Single**.

3. Using the display as a viewfinder, point the camera at your subject.

4. When the subject that you wish to capture appears in the display, press the Camera key (⊜).

5. Do one of the following:

• To discard the new photo, tap ←.

- Press **Send via** to send a copy of the photo in a Picture message to your addressee(s) or to your online Album or over a Bluetooth connection.

- Press **Set as** to assign the photo as a Home screen wallpaper or as a Contact ID image.

- Press **Erase** to erase the photo.

- Press **Save** to save the photo to the Pictures folder.

6. To exit the Camera feature, press ◉.

Tip: You can change a number of the Camera's settings to suit particular uses for your pictures. For more information, refer to *"Camera Options"* on page 60.

Taking Multiple-Shot Pictures

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

1. In Standby mode, press the Camera key (▭) on the right side of the phone. The camera view finder screen appears in the display. (For more information, refer to *"Screen Layouts"* on page 59.)

Note: You can also activate the Camera by tapping **Menu** ➔ **Multimedia** ➔ **Camera**.

2. Tap **Shooting Mode**. The following options appear in the display:

- **Single** — Lets you take a single photo.

- **Continuous** — Lets you take a series of 5 or 8 photos with a single press of the Camera key (▭).

- **Frame** — Lets you temporarily (for this session only) apply one of the preloaded picture frames in your phone to characterize or enhance one or more pictures.

- **Mosaic** — Lets you take a mosaic of up to 9 photos, one per press of the Camera key (▭).

3. When you select **Continuous**, the following options appear in the display:

- **5**

- **8**

When you select **Mosaic**, three pages of six mosaic options each are available.

4. Select the desired number of shots. A Continuous progress bar (similar to this ▬▬▬▬▬▬▬▬▬◑⟨⟩) or the selected Mosaic screen (which fills with pictures as they are taken) appears in the display.

5. Using the display as a viewfinder, point the camera lens at your subject.

6. Press the Camera key (⚊) when the image that you wish to capture appears in the display. The camera takes multiple pictures in quick succession (**Continuous**) or one each time you press the Camera key (⚊) (**Mosaic**), then the multiple-photo screen appears in the display.

 • To send a picture in a Picture message to your addressee(s) or to your online Album or over a Bluetooth connection, press **Send via**.

 • To set a picture as a Home screen wallpaper or as a Contact ID image, press **Set as**.

 • To discard the pictures, press **Erase**.

 • To save the pictures to memory, press **Save**.

Tip: You can change a number of the Camera's settings to suit particular uses for your pictures. For more information, refer to *"Camera Options"* on page 60.

Taking Videos

To take a video using the current camcorder settings, do the following:

1. In Camera mode, press the Camera key (⚊) on the

right side of the phone.

2. Press **Mode**. The camcorder view finder screen appears in the display.

Note: You can also activate the Camcorder by pressing **Menu** ➔ **Multimedia** ➔ **Camcorder**.

3. Press **Recording Mode**, then press **Limit for Send** (to record a video of set length for inclusion in a Video message) or press **For Save** (to record a video of whatever length you prefer).

4. Using the display as a viewfinder, point the camera lens at your subject.

5. When the image that you wish to capture appears in the display, press the Camera key (⚊). Recording continues until 30 seconds of video has been recorded (Limit for Send recording mode) or until you press the Camera key (⚊) a second time (either recording mode), whichever comes first.

 • To send the video clip in a video message or to your Online Album, press **Send via**.

 • To discard the video clip, press **Erase**.

 • To save the video clip in the Videos folder, press **Save**.

Tip: You can change a number of the Camcorder's settings to suit particular uses for your pictures. For more information, refer to *"Camcorder Options"* on page 65.

Screen Layouts

Camera Screen

When you activate your phone's camera, the first line of the display is reserved for the current camera settings and picture counter. The rest of the display shows a viewfinder image of the subject at which the camera is pointed, flanked by option buttons.

Camera Screen Buttons

Returns you to the Home screen.

Changes the Camera-Camcorder mode to Camcorder.

Lets you set the Camera's **Shooting Mode** to **Single**, **Continuous**, **Mosaic**, or **Frame**.

Lets you select **White Balance**, **Effects**, **Metering**, **Quality**, **Nightshot**, and more.

Lets you set the Camera's Timer to automatically take one or more photos immediately (**OFF**) or after **3 sec**, **5 sec**, or **10 sec**.

Lets you set the Camera's **Resolution** to **1600x1200** / **1280x960** / **640x480** / **320x240**.

Lets you set the Camera to brighten or darken your photos.

Lets you access the Pictures folder.

Camcorder Screen

When you activate your phone's camcorder, the first line of the display is shows current camcorder setting icons. The rest of the display shows a viewfinder

image of the subject at which the camcorder is pointed, flanked by option buttons.

Camcorder Screen Buttons

Returns you to the Home screen.	
Changes the Camera-Camcorder mode to Camera.	
Lets you set the Camcorder's **Recording Mode** to **Limit For Send** or **For Save**.	
Lets you select values for **White Balance**, **Effects**, and **Quality**.	
Lets you set the Camera's Timer to automatically take one or more photos immediately (**OFF**) or after **3 sec**, **5 sec**, or **10 sec**.	
Indicates the Camcorder's current resolution setting.	
Lets you set the Camcorder to brighten or darken your videos.	

Lets you access the My Videos folder.

Saving Pictures and Videos

After you've taken a picture or video, you can do any of the following:

• **Save the picture or vide**o by tapping **Save**.
 A picture is stored in the **My Images** folder. A video is stored in the **My Videos** folder. These folders are part of the phone's memory and/or part of an optional Memory Card devoted to storing, browsing, and viewing saved pictures and videos. (For more information, refer to *"The Pictures Gallery"* on page 68)

• **Send the picture or video** to someone else by tapping **Send via**.
 For a detailed procedure, see *"Send Picture Messages in Camera Mode"* on page 45.

• **Discard the picture or video** by tapping **Erase**.

Camera Options

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

1. In Standby mode, press and hold the Camera key ( ). The camera viewfinder screen appears in the display.

2. Select the any of the following buttons:

Mode

Switches to Camcorder mode. The Camcorder view finder screen appears in the display.

Shooting Mode

Shooting Mode lets you set your phone's Camera to take a one or more pictures, with or without colorful formats or frames, at the touch of a key.

1. In Camera mode, tap **Shooting Mode**. The following options pop-up:

   • **Single** — Lets you take a single photo.

   • **Continuous** — Lets you take a series of 5 or 8 photos with a single press of the Camera key (⬛).

   • **Frame** — Lets you temporarily (for this session only) apply one of the preloaded picture frames in your phone to characterize or enhance one or more pictures.

   • **Mosaic** — Lets you take a mosaic of up to 9 photos, one per press of the Camera key (⬛).

2. Tap the desired option and setting. The related icon appears in the display.

   When you press the Camera key (⬛), the camera takes a single picture (**Single** or **Frame**), several pictures in rapid succession (**Continuous**), or one picture after another (**Mosaic**).

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Note: For more information, refer to *"Taking Single Pictures"* on page 56and to *"Taking Multiple-Shot Pictures"* on page 57.

Frames

Frames lets you temporarily apply one of the preloaded picture frames in your phone to characterize or enhance one or more pictures.

1. In Camera mode, tap **Shooting Mode → Frame**. A pop-up containing the first of three pages of available Fun Frames appears in the display.

2. Select the Frame you wish to use. The camera screen appears in the display with your selected Frame in place.

   When you take your next picture, the camera includes the selected Frame in your picture.

Timer

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

1. In Camera mode, Tap **Timer**. The following values appear in the camera screen:

   • **Off**
   • **3 Seconds**
   • **5 Seconds**
   • **10 Seconds**

2. Select the desired Timer option. If you select **3**, **5**, or **10**, the Self Timer icon appears in the camera screen in the display.

When you press the Camera key (⬛), the countdown timer indicates the time remaining before the camera takes the picture.

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

Note: The **Size** setting affects zoom capabilities. When **Size** is set to **1600 x 1200**, zoom is not available. When **Size** is set to any value lower than **1600 x 1200**, zoom settings 1 – 9 are available.

Resolution

Change the size (in bytes) of your pictures by changing the picture resolution setting.

1. In Camera mode, tap **Resolution**. The following options pop-up:
   • **1600x1200** (pixels)
   • **1280x960** (pixels)
   • **640x480** (pixels)
   • **320x240** (pixels)

2. Tap the desired option. You're returned to the camera viewfinder screen.

Options — Camera Tab

White Balance

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

1. In Camera mode, tap **Options ➔ Camera** tab ➔ **White Balance**. The following options pop-up:
   • **Auto** — The camera automatically adjusts picture quality to available light.
   • **Sunny** — Use this setting when taking pictures in full sun.
   • **Cloudy** — Use this setting when taking pictures in cloudy conditions.
   • **Tungsten** — Use this setting when taking pictures under incandescent lights.
   • **Fluorescent** — Use this setting when taking pictures under fluorescent lights.

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

2. Tap the White Balance you wish to use. The camera viewfinder screen appears in the display with your selected White Balance applied.

   The next time you press the Camera key (⬛), the camera applies the selected White Balance to your picture.

Effects

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

1. In Camera mode, tap **Options** ➔ **Camera** tab ➔ **Effects**. The following options pop-up:

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

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

2. Select the color effect of your choice. You're returned to the camera viewfinder screen.

   When you take your next picture, the phone's display previews your subject image with the selected color effect.

Quality

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

1. In Camera mode, press **Options** ➔ **Camera** tab ➔ **Quality**.

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2. Select one of the options: **Super Fine**, **Fine**, or **Normal**. You're returned to the camera viewfinder screen.

Night Shot

Night Shot indicates/changes whether your phone is ready to take photos in low light:

1. In Camera mode, tap **Options** ➔ **Camera** tab ➔ Down arrow ➔ **Night Shot**. The following values appear in the camera screen:
   - **Off**
   - **On**
2. Select the desired option.

Options — Settings Tab

Guideline

When set to **On**, Guideline shows a cross hatch pattern in the view finder screen.

1. In Camera mode, tap **Options** ➔ **Settings** tab ➔ **Guideline**. The following options pop-up:
   - **On**
   - **Off**
2. Select the viewfinder screen setting of your choice. You're returned to the camera viewfinder screen.

Review

1. In Camera mode, tap **Options** ➔ **Settings** tab ➔ **Review**. The following options pop-up:
   - **On** — Photos are displayed for review immediately after you take them.
   - **Off** — Photos are not displayed after you take them. Instead, they are automatically saved to the My Pictures folder.
2. Select the review setting of your choice. You're returned to the camera viewfinder screen.

Shutter Sound

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

1. In Camera mode, tap **Options** ➔ **Settings** tab ➔ **Shutter Sound**. The following options pop-up:
   - **Off**
   - **Shutter 1**
   - **Shutter 2**
   - **Shutter 3**
2. Select your preferred shutter sound. You're returned to the camera viewfinder screen.

Memory

1. In Camera mode, tap **Options** ➔ **Settings** tab ➔ **Memory**.

The following options pop-up:
- **Phone** — Stores pictures in phone memory.
- **Card** — Stores pictures on an optional microSD Memory Card.

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

Brightness

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

1. In Camera mode, tap the **Brightness** button. The horizontal Brightness scale appears in the display.
2. To increase Brightness (brighten your picture), tap the **+** button. To decrease Brightness (darken your picture), tap the **-** button.

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

Zoom

Zoom lets you temporarily enlarge the pictures you take. Increasing the Zoom (2 – 9) enlarges your pictures or videos (1 is normal).

1. In Camera mode, press the Volume key (on the left side of the phone) up or down. The horizontal Zoom scale appears

in the display.

2. To Zoom in on a subject, press the Volume key down.

3. To Zoom out from a subject, press the Volume key up.

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

Note: The **Size** setting affects zoom capabilities. When **Size** is set to **1600 x 1200**, zoom is not available. When **Size** is set to any value lower than **1600 x 1200**, zoom settings 1 – 9 are available.

Camcorder Options

The Camcorder Options let you adjust the default camcorder settings to suite available lighting, the subject of the video, or the purpose of the video.

To access Camcorder Options, press/select the any of the following buttons/options:

Mode

Switches to Camera mode. The Camera view finder screen appears in the display.

Recording Mode

1. In Camcorder mode, tap **Recording Mode**. The following options pop-up:

• **Limit For Send** — Record videos that are a maximum of 30 seconds long. The videos can be included in video messages.

• **For Save** — Record videos that are any length up, depending on available memory.

2. Tap the desired recording mode setting. The camcorder viewfinder screen appears in the display.

Timer

Timer lets you delay recording a video long enough to let you join others in a picture.

1. In Camcorder mode, press **Timer**. The following options appear in the display:

   • **Off**

   • **3 sec**

   • **5 sec**

   • **10 sec**

2. Select the desired Self Timer option. If you select **3 sec**, **5 sec**, or **10 sec**, the Self Timer icon appears in the camcorder screen in the display.

   When you press the Camera key (⬭), the countdown timer indicates the time remaining before the camcorder begins recording.

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

Resolution

This is an indicator only. Camcorder resolution is fixed at **176 x 144** (pixels).

Brightness

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

1. In Camcorder mode, press **Brightness**. The horizontal Brightness scale appears in the display.

2. To increase Brightness (brighten your picture), press the **+** button. To decrease Brightness (darken your picture), press the **-** button.

   The next time you press the Camera key (◯═), the camcorder records a lighter or darker image according to your selected Brightness setting.

Options — Camcorder Tab

White Balance

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

1. In Camera mode, press **Options ➔ Camcorder** tab **➔ White Balance**. The following options pop-up:

   • **Auto** — The camcorder automatically adjusts color balance to available light.

   • **Sunny** — Use this setting when recording videos in full sun.

   • **Cloudy** — Use this setting when recording videos in cloudy conditions.

   • **Tungsten** — Use this setting when recording videos under incandescent lights.

   • **Fluorescent** — Use this setting when recording videos under fluorescent lights.

2. Select the White Balance you wish to use. The camcorder viewfinder screen appears in the display with your selected White Balance applied.

   The next time you press the Camera key (◯═), the camcorder applies the selected White Balance to your video.

Effects

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

1. In Camera mode, press **Options ➔ Camcorder** tab **➔ Effects**. The following options pop-up:

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

   • **Normal** — Subjects and pictures appear with a normal hue.

- **Black & White** — Subjects and pictures appear in black and white.

- **Sepia** — Subjects and pictures appear in a brownish-gray hue.

- **Aqua** — Subjects and pictures appear in an aqua hue.

- **Negative** — Subjects and pictures appear in inverted colors.

2. Select the color effect of your choice. You're returned to the camcorder viewfinder screen.

   When you record your next video, the phone's display previews your subject image with the selected color effect.

Quality

You can affect how much your video is compressed, thereby reducing it's overall size (not to be confused with the **Size** setting).

1. In Camcorder mode, press **Options** ➔ **Camcorder** tab ➔ **Quality**. The following options pop-up:
   - **Super Fine**
   - **Fine**
   - **Normal**

2. Select the quality setting of your choice. You're returned to the camcorder viewfinder screen.

Camcorder Settings — Settings Tab

Review

1. In Camcorder mode, press **Options** ➔ **Settings** tab ➔ **Review**. The following options pop-up:
   - **On**
   - **Off**

2. Select the Review setting of your choice. You're returned to the camcorder viewfinder screen.

Start Sound

Choose from two different sounds whenever you begin video recording. Aside from being a cool sound effect, Start Sound acts as an audible reminder that your camcorder has begun recording a video.

1. In Camcorder mode, press **Options** ➔ **Settings** tab ➔ **Start Sound**. The following options pop-up:
   - **Off**
   - **Start Beep**

2. Select the desired start sound. You're returned to the camcorder viewfinder screen.

End Sound

Choose from two different sounds whenever you stop video recording. Aside from being a cool sound effect, End Sound acts

as an audible reminder that your camcorder has stopped recording a video.

1. In Camcorder mode, press **Options ➔ Settings** tab ➔ **End Sound**. The following options pop-up:
   • **Off**
   • **Stop Beep**
2. Select the desired end sound. You're returned to the camcorder viewfinder screen.

Audio Recording

1. In Camcorder mode, press **Options ➔ Settings** tab ➔ **Audio Recording**. The following options pop-up:
   • **On**
   • **Off**
2. Select the Audio Recording setting of your choice. You're returned to the camcorder viewfinder screen.

Memory

1. In Camcorder mode, press **Options ➔ Settings** tab ➔ **Memory**. The following options pop-up:
   • **Phone** — Stores videos in phone memory.
   • **Card** — Stores videos on an optional microSD Memory Card.
2. Select the memory location setting of your choice. You're returned to the camcorder viewfinder screen.

Zoom

Zoom lets you temporarily enlarge the videos you record. Increasing the Zoom (from 1 to 2 – 10) enlarges your pictures or videos (1 is normal).

1. In Camcorder mode, press the Volume key (on the left side of the phone) up or down. The horizontal Zoom scale appears in the display.
2. To Zoom in on a subject, press the Volume key down.
3. To Zoom out from a subject, press the Volume key up.

   The next time you press the Camera key (⬛), the camcorder records an enlarged image according to your selected Zoom setting.

The Pictures Gallery

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

Access from Camera

1. In the Camera viewfinder screen, press **Quickview**. The latest picture that you've saved appears in the display.
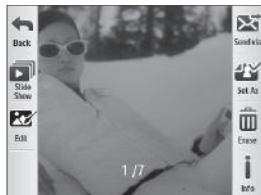
The following options are available:

- To browse pictures in the gallery manually, swipe across the current image.
- To browse pictures in the gallery as a slide show, tap **Slide Show**.
- To edit the current picture, tap Edit.
- To send the current picture as a Picture Message / To your Online Album / to another device Via Bluetooth, tap **Send via**.
- To assign the current picture as a Home screen Wallpaper or as a Contact Picture ID, tap **Set As**.
- To delete the current picture from the Pictures folder, tap **Erase**.
- To view Name, File Size, Resolution, Date taken, and Time taken, tap **Info**.

2. Select the desired option to perform its function or to enter its sub-menu.

Access by Menu or from Edit Contact or New PIC Msg Screen

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

– or –

In the **Add New Contact / Edit Contact** screen, tap the Picture ID field. (For more information, refer to *"Understanding Your Contacts"* on page 32.)

– or –

In the **New PIC Msg** screen, tap the **Picture** field. (For more information, refer to *"Send Picture Messages in Standby Mode"* on page 47.)

Thumbnail images from the pictures that you've saved appear in the display.
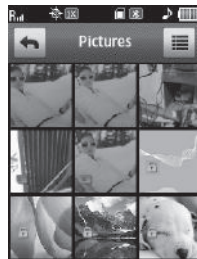
2. Tap 📇. The following options pop-up in the display:

- **Send via Bluetooth** — Send a copy of a selected picture to another device over a Bluetooth connection.
- **Erase** — Delete one or more selected, unlocked pictures.
- **Take Picture** — Launch the Camera to take a new picture.

- **Slide Show** — Play or Make a slide show.

- **Lock/Unlock** — Block/permit picture erasure.

- **Move** — Move one or more selected pictures from the Card or Phone to the Phone or Card.

- **View by Location** — List thumnnail images of All stored pictures, pictures stored in the Phone, or pictures stored on the Card.

3. Tap a picture to enlarge the view. The following options are available:

   - Magnify (zoom in on) the picture.

   - Send the picture in a Picture message to an addressee or to your Online Album.

   - Expand the picture to full screen.

4. Tap 🔳. The following options pop-up in the display:

   - **Edit** — Use graphic tools to change the picture.

   - **Erase** — Delete this picture.

   - **Set As** — Assign this picture as a Home screen Wallpaper or as a Contact Picture ID.

   - **Take Picture** — Launch the Camera to take a new picture.

   - **Rename** — Change the file name for this picture.
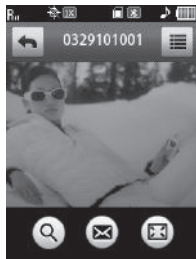
- **Move To Card** / **Phone** — Move one or more selected pictures from the Card or Phone to the Phone or Card.

- **Lock** / **Unlock** — Block/permit picture erasure.

- **File Info** — View the Name, File Size, Resolution, and Date and Time this picture was taken.

5. Select the desired option to perform its function or to enter its sub-menu.

The Videos Gallery

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

Access from Camcorder

▶ In the Camcorder viewfinder screen, tap **Quickview**. The latest photos and videos that you've saved appear in the display.

The following options are available:

- To browse videos in the gallery manually, swipe across the current image.
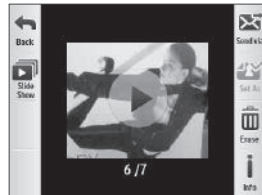
- To browse the video images in the gallery as a slide show, tap **Slide Show**.

- To play a video, tap it.

- To send the current picture as a Picture Message / To your Online Album, tap **Send via**.

- To delete the current video from the Videos folder, tap **Erase**.

- To view Name, File Size, Duration, Resolution, Date recorded, and Time recorded, tap **Info**.

6. Select the desired option to perform its function or to enter its sub-menu.
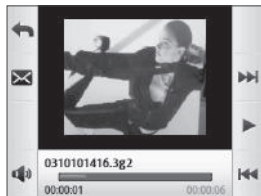
Access by Menu or from New Video Msg Screen

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

   – or –

   In the **New Video Msg** screen, tap the **Video** field. (For more information, refer to *"Creating and Sending a Video Message"* on page 49.)

   Thumbnail images from the latest videos that you've saved appear in the display.
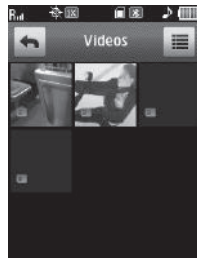
2. Tap , the following options pop-up in the display:

   • **Erase** — Delete one or more selected, unlocked videos from the Videos folder.

   • **Record Video** — Launch the Camcorder to record a new video.

   • **Lock/Unlock** — Prevents/allows video deletion.

   • **Move** — Move one or more selected videos from the Card or Phone to the Phone or Card.

   • **View by Location** — List thumnail images of All stored videos, videos stored in the Phone, or videos stored on the Card.

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

The following controls are available:

- To pause playing a video, tap ▐▐.
- To resume playing a video, tap ▶.
- To stop playing a video, tap ●.
- To skip play to an earlier video in the Videos folder, tap ◄◄.
- To skip play to a later video in the Videos folder, tap ►►.
- To return to the Videos folder and choose another video file to play, press ●.

4. Tap ☰, the following options pop-up in the display:

- **Send Video Message** — Lets you send the highlighted video as part of a video message.
- **Online Album** — Send the currently highlighted video as part of a Video message to your Online Album on your Wireless Provider's server.
- **Rename** — Rename the highlighted video.

- **File Info** — View the Name, Date and Time created, Resolution, and Size of the currently highlighted video.

5. Select the desired option to perform its function or to enter its sub-menu.

Point, Click, and Send Pictures and Videos

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

1. In Camera mode, press the Camera key (◯◯◯) on the right side of the phone. The camera view finder screen appears in the display.

2. If desired, press **Mode**. The camcorder view finder screen appears in the display.

3. Using the display as a viewfinder, take the desired picture or record the desired video by pressing the Camera key (◯◯◯), and then pressing the Camera key (◯◯◯) a second time to stop video recording.

The photo/video review screen appears in the display.

4. Tap **Send via → Picture Message** / **Video Message**.

The **Picture Msg** or **Video Msg** screen appears in the display.

5. Address and compose your Picture/Video message. (For more information, refer to *"Send Picture Messages in Camera Mode"* on page 45.)

6. When you are finished composing your message, tap **Send** to send the Picture or Video message to the intended recipient(s).

Section 7: Multimedia

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

Accessing Multimedia

1. In Standby mode, tap **Menu ➔ Multimedia**. The following Multimedia options appear in the display:

   • **Camera** — Lets you launch and set up your phone's camera. (For more information, refer to *"Camera-Camcorder"* on page 56.)

   • **Camcorder** — Lets you launch and set up your phone's camcorder. (For more information, refer to *"Camera-Camcorder"* on page 56.)

   • **Pictures** — Lets you choose the images or pictures that appear in Picture messages and in your phone's display. (For more information, refer to *"Camera-Camcorder"* on page 56.)

   • **Videos** — Lets you choose the videos that appear in Video messages and in your phone's display. (For more information, refer to *"Camera-Camcorder"* on page 56.)

   • **Music Player** — Lets you play music (MP3 and unprotected AAC, AAC+, WMA) files.

   • **Ringtones** — Lets you assign ringtones, music files, and sound files for calls, alarms, and other alerts. (For more information, refer to *"Ringtones"* on page 76.)

2. Select an option to enter its sub-menu.

Using Your Music Player

Music Player lets you play MP3 and unprotected AAC, AAC+, WMA music files, loaded onto an optional microSD™ Memory Card using a personal computer. (For information on loading music files on a Memory Card, see *"Loading Music Files"* on page 76.)

Launching the Music Library Menu

1. From a Home screen, press the Music Player key (⌫⌦). The **Music Player** screen appears in the display.

Note: You can also launch the Music Player from a Home screen by tapping **Menu ➔ Multimedia ➔ Music Player**.

2. To access the music files, tap ▤ ➔ **Go to Library**. The **Library** menu appears in the display showing the following options:

   • **Now Playing List** — Lists all music files on the Memory Card that are playing or queued to play.
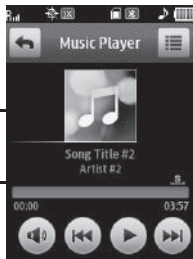
- **All Songs** — Lists all music files on the Memory Card and lets you play individual music files or play multiple music files by creating a temporary music playlist.

- **Playlists** — Lists any playlists you have saved and lets you create, save, and manage playlists.

- **Artists** — Lists artist names for music files on the Memory Card and lets you play one or more music files by a selected artist.

- **Albums** — Lists album titles for music files on the Memory Card and lets you play one or more music files from a selected album.

3. To play a music file, tap it.

4. To access other options, tap ☰. The following options are available:

- **Go to Library** — Access music files lists that show the songs Now Playing, All Songs on your Memory Card, or all songs in Playlists or arranged according to Artists or Albums.

- **Play Mode** — The following play modes are available:
  - **Normal** — Play a song or play songs in the order they appear in a music file list.
  - **Shuffle** — Play music files at random.
  - **Repeat One** — Repeatedly play one music file.
  - **Repeat All** — Repeatedly play all music files.
  - **Shuffle Repeat All** — Repeatedly play all music files at random.

- **Add To Playlist** — Add the current file to a Playlist.

- **Song Info** — Lists the Title, Artist, Album, File Name, File Size, Duration, Bit Rate, Downloaded and Copyright information, and Expired Songs of the highlighted music file.

- **Memory Info** — Lists the Available card memory, the card memory already Used to store files, and the Total memory on the card.

Select the desired option.

Music Player Controls

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

- **Music Navigation buttons**:
  - To adjust music playback volume using the touch screen, tap 🔊.
  - To skip play to an earlier music file in the selected list, tap ⏮.
  - To pause playing a music file, tap ⏸.
  - To resume playing a music file, tap ▶.
  - To skip play to a later music file in the selected list, tap ⏭.
  - To return to the selected list and choose another music file to play, tap ↩.
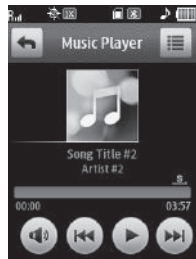
Loading Music Files

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

1. Before loading music files on a Memory Card, do the following:
   • With your phone powered off, insert the Memory Card into your phone. (For more information, see *"Install a Memory Card"* on page 8.)
   • Power your phone on.
2. Connect your phone to a personal computer with an optional USB data cable.
3. Open the Memory Card reader drive and the "Media/Music" folder.
4. Drag or download music (MP3) files into the "Media/Music" folder.
5. Remove the Memory Card by following the removal instructions for the Memory Card reader and for your personal computer.
6. Insert the Memory Card into your phone. (For more information, see *"Install a Memory Card"* on page 8.)

Ringtones

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

1. From the **Multimedia** menu, select **Ringtones**. A list of recorded sound files, music files, and ringtones appears in the display.

Tip: You can also access My Ringtones from:

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

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

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2. To play a particular file, tap ▶ for that file.
3. For other file options, tap the file. The following options pop-up in the display:
   • **Send** — Send a copy of the file in a Picture message to a Contact or other addressee or to your Online Album.
   • **Set As** — Assign the file as a Ringtone, a Contact ID ringer, or as an Alert Tone.
   • **File Info** — View the file Name, File Size, File Type, and Date and Time the file was recorded.

   Select an option.

4. Press ⏺ to return to the previous menu, or press 📞 to return to Standby mode.

Record New

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

1. From the **Multimedia** menu, tap **Ringtones**. **Record New** and a list of sound files appears in the display.

Tip: You can also access My Sounds from:

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

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

---

2. Tap **Record New**, then tap **Rec** to record a voice memo.
- To pause the recording, tap **Pause**.
- To stop and save the recording, tap **Stop**.

Erasing Ringtone Files

1. In the Ringtones screen, tap 🗑. The list of files is reduced to recorded sound files and downloaded music files.

2. Tap the file(s) you want to erase, or tap **Mark All** to erase all sound files and downloaded music files. Check marks appear to the right of marked files.

3. Tap **Done**. You are prompted to confirm your erasure(s).

4. To erase the marked file(s), tap **Yes**. To retain the marked file(s), tap **No**.

Section 8: Voice Service

This section explains how to use your phone's speech recognition software to place calls and to launch a number of your phone's features.

Launching Voice Service

Voice Service is state-of-the-art voice recognition software for your mobile phone that lets you dial numbers, lookup contact information, and open applications using your voice. To launch Voice Service, do the following:

1. From a **Home** screen, tap **Menu → Menu 1 → Tools → Voice Service**. The **Voice Service** menu appears in the display with the following available options:

    • **Voice Commands** — Launches the voice recognition function, letting you place calls, access your Contacts list, review your Calendar, and more by speaking commands into your phone. Also see *"Voice Commands"* on page 23 and *"Voice Method"* on page 35 for more information.

    • **Voice Commands Settings** — Lets you tailor Voice Services functions to suit your voice and phone use preferences, and displays version information about the Voice Services software.

2. Tap the desire option.

Voice Commands

To use Voice Commands, do the following:

1. From the **Voice SVC** menu, select **Voice Commands**. "**Say a Command**" appears in the display, and is pronounced through the earpiece, followed by a list of available commands:

Tip: You can set your phone to start Voice Service when you open the phone. (For more information, refer to *"Key Setting"* on page 81.)

• **Call** — Prompts you to place calls by saying any of the following:

  – A **Contact name** stored in your contact list.
    Voice Service automatically voice-activates all your contacts, even if you have hundreds of them stored on your phone.

  – A **telephone number**, even if it is not stored in your contact list. (For more information, refer to *"Voice Commands"* on page 23.)

• **Send Text** / **Picture** / **Video** — Prompts you to launch the **New Text** / **PIC** / **Video Msg** screen to compose and send a message. (For more information, refer to *"Create and Send Text Messages"* on page 44 / *"Send Picture Messages in Standby Mode"* on page 47 / *"Creating and Sending a Video Message"* on page 49.)

• **Go to** — Prompts you to launch the Ringtones, Calendar, and Contacts list features of your phone. (See *"Ringtones"* on page 76, *"Calendar"* on page 84, and *"Contacts"* on page 32 for more information.)

- **Check** — Lets you check your phone's status (that is, network coverage, signal strength, battery, and more in the same report), voicemail, messages, missed calls, time, signal strength, battery, volume, and phone number.

- **Contacts** — Lets you look up and display contact information for any name stored in your Contacts list by saying the name. (For more information, refer to *"Finding a Contacts Entry"* on page 34.)

- **Redial** — Redials the last number dialed.

- **Help** — Shows a description of Voice Commands.

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

Voice Command Tips:

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

Voice-Activating Your Contacts List

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

Ending Calls Before Restarting the Voice Service Software

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

Voice Command Settings

Confirm Choices

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

You can change the way that Voice Service responds to your choices with name dialing, digit dialing, and contacts. To change the way Voice Service responds to your choices, do the following:

1. From the **Voice Service** menu, tap **Voice Command Settings ➔ Confirm Choices** the following options appear in the display:

   - **Automatic** — Voice Service displays a choice list only when it is not sure if it has correctly recognized the name or number.

   - **Always Confirm** — Voice Service always displays a choice list, regardless that it is sure it recognizes the name or number.

   - **Never Confirm** — Voice Service never displays a choice list.

   Tap the Confirmation behavior you prefer.

Sensitivity

1. From the **Voice Service** menu, select **Voice Command Settings ➔ Sensitivity**. The **Sensitivity** screen appears in the display, showing the following options:
- **More Sensitive**
- **Automatic**
- **Less Sensitive**

2. Tap the desired option.

Adapt Voice

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

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

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

Tips for Adapting Voice

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

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

Using Adapt Voice

To adapt your phone to your voice, do the following:

1. From the **Voice Service** menu, tap **Voice Command Settings ➔ Adapt Voice**. The following options appear in the display:
- **Adapt Voice**
- **Reset Voice** — Only appears after Adapt Voice is complete.

2. Tap **Adapt Voice**. An on-screen message recommends how to proceed with voice adaptation.

3. Tap **OK** and wait for a voice prompt. You are prompted with a series of sample voice commands and phone numbers.

4. After each prompt, wait until "Adapt Voice" begins slowly flashing, then echo the prompt into the phone's microphone.

5. After you echo the final prompt, "**Adaptation complete**" appears in the display and you are returned to the **Adapt Voice** menu.

Reset Adapt Voice

To reset Adapt Voice to factory default settings, do the following:

1. From the **Voice Service** menu, tap **Voice Command Settings ➔ Adapt Voice ➔ Reset Voice**. The phone prompts you to confirm digit adaptation rest.

2. To reset your voice adaptation, tap **OK**. To cancel and retain your digit adaptation, tap ◄.

Key Setting

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

1. From the **Voice Service** menu, tap **Voice Command Settings ➔ Key Setting**. The following options appear in the display:

  • **None** — You must use the phone menus or define a Shortcut to activate Voice Service for one call.

  • **None / Headset** — Attach a headset to your phone to activate Voice Service. Now, you can make and end calls using Voice Service by pushing the action button on the headset. Press ◄▣ to release Voice Service.

2. Tap the option you want.

About Voice Service

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

▶ From the **Voice Service** menu, tap **Voice Command Settings ➔ Adapt Voice ➔ About**.

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

Section 9: Tools

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

Tools Menu

Tools is a suite of Personal Information Management (PIM) applications, such as a Calendar and Memo Pad, that run on your phone.

► In Standby mode, press **Menu**, then select **Tools**. The **Tools** menu appears in the display.

   The following sections provide detailed descriptions of your phone's Tools.

Voice Service

For information about Voice Service, see *"Voice Service"* on page 78.

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.

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

Turn Bluetooth On/Off

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

Turning Bluetooth On

► From the **Tools** menu, tap **Bluetooth → Turn On**. The Bluetooth enabled (red) icon (⬛) appears in the display.

Turning Bluetooth Off

► From the **Tools** menu, tap **Bluetooth → Turn Off**. The Bluetooth icon disappears from the display.

Add New Device

To search for available Bluetooth devices:

1. From the **Tools** menu, tap **Bluetooth → Add New Device**.

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

• To leave Bluetooth off and return to the **Bluetooth** menu, tap **No** .

• To turn Bluetooth on, tap **Yes**.

"**Place device you are searching in discoverable mode**" appears in the display.

2. Place the Bluetooth device in discoverable mode. (See the device user manual for more information.)

3. Tap **OK**. Names of the available devices appears in the display.

4. Tap the device you want to pair with your phone. Your phone attempts to Autopair with the selected device.

• If Autopair fails, you are prompted to enter the passkey or PIN for the selected device.

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

• Enter the device passkey or PIN and tap **OK**.

Device List

A list of Bluetooth wireless technology devices paired your handset appears below the **Add New Device** option.

1. From the **Tools** menu, tap **Bluetooth**. A list of paired devices appears in the display.

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Connecting to a Bluetooth Device

From the Device list,

1. Tap the device with which you want to connect.

2. If you are unable to connect with the device a popup appears in the display. Tap **Yes** to retry.

Bluetooth Options

1. From the **Tools** menu, tap **Bluetooth ➔ ▤**. The following options appear in the display:

• **My Phone Name** — Shows the handset name. To change this name, open the QWERTY keypad, enter a new name, and tap **Done**.

• **My Phone Info** — Shows the Bluetooth device Type, Status, and Address of your phone.

• **Discovery Mode** — When set to **On**, lets other devices discover and attempt to pair and connect with your phone. When set to **Off**, your phone is not visible to other devices.

• **Auto Pairing** — When set to **On**, your phone attempts to automatically pair with a selected, discovered device. When set to **Off**, you are prompted to manually enter a device's PIN to pair with that device.

• **Supported Profiles** — Lists and explains the Bluetooth profiles your phone supports.

Calendar

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

► From the **Tools** menu, tap **Calendar**. A calendar of the current month or week appears in the display with the current date highlighted. The month and year also appear.

The following controls are also available:

• To move to another monthly or weekly calandar, swipe the screen left or right.

• To view a list of events for a particular date, tap that date.
   – To view a particular event in an event list, tap the preferred event.

• To pop-up the following additional options, tap :
   – **Weekly View** / **Monthly View** — Changes the type of caladar that appears in the display.
   – **Go to Date** — Lets you jump to any date you specify.
   – **Erase All Old** — Lets you erase past events.
   – **Erase All** — Lets you erase all events.
   – **Search** — Lets you search your Calendar for events.
   Select the desired option to perform the related process.

Add a New Event

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

2. Tap the date of the new event, then tap **Add New Event**. The **New Event** screen appears in the display.

3. Open the QWERTY keypad, tap an event information field and enter or select details of the event. (For more information, refer to *"Entering Text"* on page 16.)

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

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

Memo Pad

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

Add a Memo

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

If you have any stored memos, they are listed in the display.

2. To add a new memo, tap **Add New Memo**. The **Add New Memo** screen appears in the display.

3. Open the QWERTY keypad and enter memo text. (For more information, refer to *"Entering Text"* on page 16.)

4. When you're finished entering details for the memo, tap **Save**.

View, Edit, and Erase Memos

► From the **Tools** menu, tap **Memo Pad**. A list of memos appears in the display.
   • To view a memo, tap it.
   • To edit the memo you are viewing, tap **Edit**.
   • Edit the memo using the keypad. (For more information, refer to *"Entering Text"* on page 16.)
   • To erase the memo you are viewing, tap **Erase**. You are prompted to verify the erasure.
      – To erase the memo, tap **Yes**.
      – To keep the memo, tap **No**.
   • To protect the memo you are viewing from erasure, tap **Lock**.
      – To permit a locked memo to be erased, tap **Unlock**.

Alarm Clock

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

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

► From the **Tools** menu, tap **Alarm Clock**. The **Alarm** screen appears in the display.
   • To add an Alarm, tap **Add New Alarm**. The **New Alarm** screen appears in the display. The following options are available:
      – **Time** — Tap to select the time when the alarm will sound.
      – **Frequency** — Tap to select whether the alarm sounds Once, Daily, Monday to Friday, or Weekends.
      – **Ringtone** — Tap to select a recorded sound file, a music file, or a ringtone to sound at the set **Time**.
      – **Snooze** — Tap to select a snooze duration of 3 / 5 / 10 / 15 / 30 minutes.
      – **Repeat** — Tap to select the number of times the alarm repeats (Once, Twice, or 3 / 5 / 10 Times.
   • To save a new or changed alarm, tap **Save**.
   • To deactivate an alarm, tap the **On** button to the right of the alarm. It changes to **Off**.
   • To change the settings for an alarm, tap the alarm, fields in the alarm, and new values for the fields.
   • To erase an alarm, tap 🗑 , tap the alarm to be erased (a checkmark appears in the check box for the selected alarm), then tap **Erase**.

When an Alarm Sounds

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

▶ Use the Navigation key to highlight **Dismiss**, then press ⬤ to silence the alarm.

• If the alarm was set as a Daily alarm, the alarm icon remains in the top of the display.

• If the alarm was set as a Mon.-Fri. alarm, the alarm icon remains in the top of the display.

• If the alarm was set as a Weekends only alarm, the alarm icon remains in the top of the display.

• If the alarm was set as a Once only alarm, the alarm icon disappears from the top of the display.

World Time

World Time lets you view the time of day or night in up to four cities of the world at the same time. World Time displays time in any of dozens of different cities and/or time zones around the world.

1. From the **Tools** menu, tap **World Time**. The **World Time** screen appears in the display.

2. To add a clock to the **World Time** screen, tap ➕. The Add Clock menu pops-up in the display listing the following options:
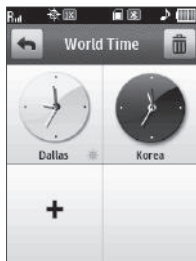
• **United States** — Lists cities in the USA.

• **Other Countries** — Lists cities in countries other than the USA.

3. Tap the desired option. The **Cities** / **Countries** menu appears in the display.

4. Do one of the following:

• Search for the desired city by opening the QWERTY keypad, tapping the search field, and entering the first few letters of the city's name.

• Browse the list by swiping up/down until you find the desired city's name.

5. To add the desired city to the **World Time** screen, tap the city's name.

6. To set World Time options, tap the desired clock. The following options are available:

• **DST** — Turns Daylight Saving Time display on or off for this clock.

• **Erase** — Remove this clock from the **World Time** screen.

• **2nd clock set** — Designate this clock as 2nd clock.

Stop Watch

Stop Watch lets you use your phone to measure the durations of events. You can use Stop Watch to measure lap times as well and total even times.

▶ From the **Tools** menu, tap **Stop Watch**. The **Stop Watch** screen appears in the display.

The following options are available:

• To begin or resume the stop watch count, tap **Start**.

• To record a lap completion time, tap **Lap**.

• To end or pause the stop watch count, tap **Stop**.

• To erase the stop watch all and lap times recorded, tap **Reset**.

Sketch Pad

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

▶ From the **Tools** menu, tap **Sketch Pad**. The Sketch Pad screen appears in the display.

The following options are available:

• To draw on the Sketch Pad, simply drag your fingertip across the display.

• To change the Sketch Pad background, tap **Style**.

• To change the drawing line thickness, tap **Thickness**.

• To change the drawing (foreground) color, tap **Color**.

• To include a copy of a drawing as part of a Picture message, tap **Send**.

• To store a drawing in the **Pictures** folder, tap **Save**. (For more information, refer to *"The Pictures Gallery"* on page 68.)

• To erase a drawing, tap **Erase ➔ Clear All**.

– To resume drawing, tap **Draw**.

• To remove the preceeding line you drew, tap **Undo**.

Timer

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

1. From the **Tools** menu, tap **Timer**. The **Timer** screen appears in the display.

2. Set the countdown timer by tapping the up/down arrows for **Hour** (00 – 23), **Minute** (00 – 59), and/or **Second** (00 – 59).

3. Start the timer by tapping **Start**. The following options are available:

• To pause or end the count, tap **Stop**.

• To resume the count, tap **Restart**.

• To erase the current count, tap **Reset**.

Calculator

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

1. From the **Tools** menu, tap **Calculator**. The **Calculator** keypad screen appears in the display.

2. Enter the first number in your calculation using the touch screen keypad (numbers can be up to 15 digits long, with up to 10 of thos digits after a decimal point).

• To toggle the sign of a number between positive and negative, tap **+/-**.

- To "nest" calculations within a calculation, tap **( )** before and after parts of the calculation you want to perform first.

3. Set the type of calculation you want to perform (division, multiplication, subtraction, or addition) by tapping the appropriate calculation operator (**/**, **X**, **-**, **+**).

4. Enter the next number in your calculation using the touch screen keypad.

5. To perform the calculation and view the result, tap **=**.

6. To perform another calculation, clear the calculation field by tapping **C**.

Tip Calculator

Tip Calculator automatically calculates the following amounts:

- Tip (gratuity)
- Split (individual payment — for groups)

Calculations are based on the following numbers:

- Total amount of the check
- Tip percentage (default is 20%)
- Number of people paying (default is 2 persons)

1. From the **Tools** menu, tap **Tip Calculator**. The **Bill** entry keypad screen appears in the display.

2. Enter the total amount of the bill by tapping the keypad keys.

3. Tap **Done**. The Tip Calculator screen appears in the display, with the **Bill**, **Tip**, and **Split** fields populated with your intial entry and default values.

4. To change the **Bill**, **Tip**, or **Split** field entry, tap the desired field, the entry keypad appears in the display.

5. Enter the new value and tap **Done**.

6. The amount of the Tip, the bill Total, and the amount Each person should pay appear in the screen.

Converter

The conversion menu provides the following conversion calculations:

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

To perform a conversion calculation, do the following:

1. From the **Tools** menu, tap **Converter → Temperature** / **Length** / **Weight** / **Area** / **Volume** / **Currency**. The quantity to be converted entry screen appears in the display.

2. Enter the quantity you want converted.

3. Specify the units by tapping the down arrow button to the right of the quantity field. Available units pop-up in the display.

4. Tap the desired units. A list of converted quantities appears below the entry field.

Currency — Reviewing/Editing Exchange Rates

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

1. From the **Tools** menu, tap **Converter → Currency**. The quantity to be converted entry screen appears in the display.

2. Tap **Done → Rate**. The currency exchange rates list for US Dollars (**USD**) appears in the display.

3. To change an exchange rate, tap the rate field. The rate entry keypad appears in the display.

4. Use the keypad to change the exchange rate. (For more information, refer to *"Entering Text"* on page 16.)

5. To save the changed exchange rate, tap **Done**.

Section 10: Changing Your Settings

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

Accessing Your Settings

▶ To access your phone's settings from Standby mode, tap **Menu → Settings**. The **Settings** menu appears in the display.

Location

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

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

1. From the **Settings** menu, tap **Location**.

   The following options appear in the display:

   • **Location on** — GPS location setting is on whenever you make or receive a call, wherever the feature is available.

   • **E911 Only** — GPS location setting is on only when you dial 911.

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

Widgets

This setting lets you select which Widgets are available from the Widgest bar.

Note: For information on using the Widgets included in your r630 phone, see *"Using the Widget Tray"* on page 15.

1. From the **Settings** menu, tap **Widgets**. The following Widgets are included in your r630 phone:

   Tone Room — Launches the Tone Room application.

   easyedge^{SM} — Launches the **easy**edge^{SM} menu.

   Send Message — Launches the Send Message sub-menu.

   Top 5 Contacts — Lets you quickly call any of five pre-identified Contacts.

   Ringtones — Opens the Ringtones folder.

   Pictures — Opens the Pictures folder.

	Calculator — Launches the Calculator tool.
	Clock — Shows the current time of day.
	Calendar — Launches the Calendar tool.
	Date — Shows the current day and date.
	Alarm Clock — Launches the Alarm Clock tool.
	Sketch Pad — Launches the Sketch Pad tool.
	Bluetooth — Launches the **Bluetooth** menu.
	Memo Pad — Launches the Memo Pad tool.
	Tutorial — Launches the **Tutorial** menu.

2. To add/remove individual Widgets to/from the Widget bar, tap the check box to the right of each Widget. A checkmark appears for added Widgets, and disappears for removed Widgets.

   • To remove all Widgets from the Widget bar, tap the **Unmark all** checkbox.

   • To add all Widgets to the Widget bar, tap the **Mark all** checkbox.

3. Mark or Unmark the desired settings.

Sounds Settings

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

► From the **Settings** menu, tap **Sounds Settings**. The following sections describe the sound sub-menus in detail.

Master Volume

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

1. From the **Sounds Settings** menu, tap **Master Volume**.

2. Slide your finger around the Master Volume menu or press the Volume key (on the left side of the phone) Up or Down to select one the following volume settings:

   • **All Sounds Off**
   • **Alarm Only**
   • **Vibrate Only**
   • **Low**

   • **Medium Low**
   • **Medium**
   • **Medium High**
   • **High**

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

Call Sounds

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

1. From the **Sounds Settings** menu, tap **Call Sounds**. The following options appear in the display:

   • **Call Ringtone** — Lets you select which ringtone or sound file plays when you receive a voice call.

   • **Call Vibrate** — Lets you set your phone to vibrate when you receive a voice call (**On**).

   • **Caller ID Readout** — Lets you set your phone to respond to incoming calls by Ringing Only and showing the calling number, by showing the Caller ID and Ringing, or (for Contacts) to Repeatedly playback the calling Contact's Name.

2. Tap the desired setting(s).

3. Tap the desired ringer.

Alert Sounds

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

1. From the **Sounds Settings** menu, tap **Alert Sounds**. The following Alert Sounds sub-menus appear in the display:

   • **Text Message** — Lets you select which Tone (ringtone or sound file) plays, set your phone to Vibrate, set your phone to Reminder

(repeat) your Tone and/or Vibration (Once, Every 2 Minutes, Every 15 minutes, or Off) when you receive a Text Message.

   • **Multimedia Message** — Lets you select which Tone (ringtone or sound file) plays, set your phone to Vibrate, set your phone to Reminder (repeat) your Tone and/or Vibration (Once, Every 2 Minutes, Every 15 minutes, or Off) when you receive a Picture Message, or Video Message.

   • **Voicemail** — Lets you select which Tone (ringtone or sound file) plays, set your phone to Vibrate, set your phone to Reminder (repeat) your Tone and/or Vibration (Once, Every 2 Minutes, Every 15 minutes, or Off) when you receive a Voicemail message.

   • **Missed Call** — Lets you select which Tone (ringtone or sound file) plays, set your phone to Vibrate, set your phone to repeat your Tone and/or Vibration (Once, Every 2 Minutes, Every 15 minutes, or Off) when you fail to answer (miss) a call.

   • **Device Connect** — Lets you set your phone to play a tone when a Bluetooth connection with another device is established.

2. Tap the desired Alert Sound(s) and setting(s).

Keypad Volume

Keypad Volume lets you adjust the volume level of the tones that the keypad generates each time you tap/press a key.

1. From the **Sounds Settings** menu, tap **Keypad Volume**.

2. Slide your finger around the Keypad Volume menu or press the Volume key (on the left side of the phone) Up or Down to select one the following volume settings:

- **Sound Off**
- **Low**
- **Medium Low**
- **Medium**
- **Medium High**
- **High**

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

Service Alerts

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

1. From the **Sounds Settings** menu, tap **Service Alerts**. The following Service Alerts options appear in the display:

- **Roaming** — Sounds an alert when you leave your home service area.
- **Minute Beep** — Sounds an alert 10 seconds before the end of each minute a call lasts.
- **Call Connect** — When you make a call, an alert sounds when the call is answered.

2. Tap the desired Service Alert setting(s).

Power On/Off

You can set a melody to play when you power your phone on or off.

1. From the **Sounds Settings** menu, tap **Power On/Off**. The following options appear in the display:

- **Power On** — Set the Power On melody to play (tap **On**) or not (tap **Off**) when you power on your phone.
- **Power Off** — Set the Power Off melody to play (tap **On**) or not (tap **Off**) when you power off your phone.

2. Tap the desired Power On/Off setting(s).

Display Settings

Using the **Display** menu, you can set the menu style, set the Home screens and Lock screen wallpapers, customize the backlight settings, and more.

▶ From the **Settings** menu, tap **Display Settings**. The following sections describe the display sub-menus in detail.

Banner

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

1. From the **Display Settings** menu, tap **Banner**. The **Personal Banner** text entry screen appears in the display.

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

2. Open the QWERTY keypad and enter a word or short phrase (up to 18 characters) to appear in your phone's display while in Standby mode. (For more information, refer to *"Entering Text"* on page 16.)

3. To save the new banner, tap **Save**. To discard your changes, tap ⬅.

Backlight

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

Note: Prolonged backlight use drains your battery faster.

1. From the **Display Settings** menu, tap **Backlight**. The following sub-menus appear in the display:

- **Backlight Time** — Sets the amount of time the main display backlight remains on with the phone idle. Optional settings are **10**, **15**, and **30** Seconds; **Always On** (this setting uses much more power than the timed settings); and **Always Off**.

- **Brightness** — Slide your finger across the touch screen between any of 6 optional settings (0 – 5).

2. Tap the desired option to launch its sub-menu and tap settings as desired.

Wallpaper

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

1. From one of the three Home screens, tap **Menu → Settings → Display Settings → Wallpaper**. The **Pictures** screen appears in the display.

2. To browse the thumbnail images, slide your finger up or down on the touch screen.

3. Tap the desired picture, then tap **Set**.

Fonts

Fonts lets you select the size of displayed dialed numbers and the color for the text on the Lock Screen.

1. From the **Display Settings** menu, tap **Fonts**. The following options appear in the display:

- **Dial Font Size** — Set dialed numbers to appear in **Normal** or **Large** font size.

- **Lock Screen Font Color** — Select one of 16 colors.

2. Tap the desired font size and/or color.

Unlock Screen

Unlock Screen lets you select which key(s) can awaken your phone's display when locked and the backlight is off.

1. From the **Display Settings** menu, tap **Unlock Screen**. The following options appear in the display:
   • **Lock Key Only** — Only pressing the Lock key can awaken the display.
   • **Any Key** — Pressing any key can awaken the display.
2. Tap the desired setting.

Transition Effect

Transition Effect lets you select how one screen replaces another in phone's display.

1. From the **Display Settings** menu, tap **Transition Effect**. The following options appear in the display:
   • **On** — One screen replaces another by sliding over it, Left to Right or Right to Left.
   • **Off** — One screen overwrites another.
2. Tap the desired Transition Effect setting.

Touch Settings

Touch settings let you enable/disable automatic locking of your phone, vibration feedback when you touch an active area on the display, and more.

▶ From the **Settings** menu, tap **Touch Settings**. The **Touch Settings** screen appears in the display and lists the following options:

• **Auto Lock** — When set to **On**, causes the phone to lock automatically when the backlight goes out.

• **Vibrate** — Enables (**On**) / disables (**Off**) the vibration feedback to your touch on active areas of the display.

• **Sound** — Tap the desired the feedback tone (**Beep**/**Glossy**/**Click**) to be played when you touch active areas of the display.

• **Volume Level** — Lets you set the volume at which the phone plays the feedback Sound.

– **Sound Off**	– **Medium**
– **Low**	– **Medium High**
– **Medium Low**	– **High**

• **Calibration** — Tap this option and follow the on-screen instructions to adjust how the touch screen responds to your touch.

Phone Settings

You can use Phone Settings to disable your phone's radio functions, set the language used in screens and menus, invoke your phone's security options, and select whether your phone operates outside your home area (roaming).

▶ From the **Settings** menu, tap **Phone Settings**. The following sections describe the phone sub-menus in detail.

Airplane Mode

When set to **On**, Airplane Mode disables all radio functions of your phone, as required in sensitive environments (such as on board an aircraft). This prevents you from receiving or making calls (except emergency calls), but you can still use other features (such as the Camera-Camcorder and the Tools).

1. From the **Settings** menu, tap **Phone Settings ➔ Airplane Mode**. The following options appear in the display:
   • **On** — Disables the radio transmitter and receiver in your phone.
   • **Off** — Enables the radio transmitter and receiver in your phone.
2. tap the desired option.

Language

The language option on your phone can change the language of voice prompts, menus, and key-input.

1. From the **Phone Settings** menu, tap **Language**. The following options appear in the display:
   • **English**
   • **Español**
2. Tap your language preference.

QWERTY Action

QWERTY Action lets you set a special shortcut for the QWERTY keypad.

1. From the **Phone Settings** menu, tap **QWERTY Action**. The following options appear in the display:
   • **Off** — No shortcut.
   • **Text Message** — Typing on QWERTY keypad opens the **New Text Msg** screen.
   • **Contacts** — Typing on QWERTY keypad opens the **Contact List** screen.
   • **Memo Pad** — Typing on QWERTY keypad opens the **Add New Memo** screen.
2. Tap the desired option.

Word Completion

Word Completion is a predictive text entry aid. When set to **On**, this option monitors your text entries and pops-up a list of words that include the characters you have already entered. To complete the word you are entering, just select it in the pop-up list.

1. From the **Phone Settings** menu, tap **Word Completion**. The following options appear in the display:
   • **On** — Predictive text entry enabled.
   • **Off** — Predictive text entry disabled.
2. Tap the desired option.

Security

Use the Security menu to lock your phone, set up emergency numbers, enable or disable voice privacy, set restrictions, as well as other security options.

1. From the **Phone Settings** menu, tap **Security**. The **Enter Code** keypad screen appears in the display. You're prompted to enter the lock code.

Note: The default lock code is the last four digits of your telephone number.

2. Enter the lock code. The **Security** menu appears in the display. The following sections describe the Security menu options in detail.

Edit Code

This option lets you set lock codes for your phone and/or for calls and services on your phone.

Tip: The default lock code for your phone is generally the last four digits of your phone number.

1. From the **Security** menu, tap **Edit Code**.

2. Follow the prompts to change the lock code.

Note: Your phone does not allow you to view a lock code for obvious security reasons. If you change a lock code, be sure to write down or memorize the new code.

Restrictions

Restrictions let you restrict the use of your phone for outgoing calls, incoming calls, and access to your Contacts.

1. From the **Security** menu, tap **Restrictions**. The following Restriction options appear in the display:

- **Calls** — Lets you Allow All Incoming and/or Outgoing calls, Allow calls to and/or from Contacts only, or Allow None.
- **SMS Messages** — Lets you Allow All / Allow None Incoming and/ or Outgoing messages.
- **MMS Messages** — Lets you Allow All / Allow None Incoming and/ or Outgoing messages.
- **IP Connection** — Lets you Allow All IP connections / Allow None.

2. Tap the desired Restriction and setting(s).

Phone Lock Setting

Locking the phone limits all outgoing calls, except Emergency (911) calls. Also, you cannot access phone menus, functions, and services.

To unlock the phone, you must enter the phone's lock code. (For more information, refer to *"Edit Code"* on page 97.)

1. From the **Security** menu, tap **Phone Lock Setting**.

The following Device Lock Mode options appear in the display:

- **Unlocked** — Unlocks the phone.

- **On Power Up** — The phone locks automatically the next time your phone is powered ON. (The phone stays locked until you enter the lock code.)

2. Tap the desired Phone Lock Setting.

Lock Phone Now

This setting locks the phone immediately. The phone stays locked until you enter the lock code. (For more information, refer to *"Edit Code"* on page 97.)

▶ From the **Security** menu, tap **Lock Phone Now**. "**Phone locked**" pops-up in the display. You are returned to the Home screen, which is now in Phone Lock mode.

Reset Settings

Reset Settings returns all Settings options to their factory default.

1. From the **Security** menu, tap **Reset Settings**. You are prompted to confirm that you wish to reset your phone's Settings to default values (except for your Contacts list and Voice Dial).

2. To reset your Settings to default values, tap **Yes**.

To keep your current Settings and return to the **Security** sub-menu, tap **No**.

System Select

The **System Select** menu allows you to select the roaming setting for your phone.

1. From the **Phone Settings** menu, tap **System Select**. The following roaming options appear in the display:
   - **Home Only** — Your phone is available for normal operation only within your designated coverage area.
   - **Automatic** — Your Wireless Provider's Preferred Roaming List (PRL) of networks is used to acquire service. If no preferred networks are found, any digital system is acquired.

2. Tap the desired roaming option. You setting is saved, and you are returned to the **Phone Settings** menu.

NAM Select

NAM Select lets you select **NAM** (Number Assignment Module) settings for your phone. You can store two **NAM** settings, which are essentially telephone numbers, for your phone.

1. From the **Phone Settings** menu, tap **NAM Select**. The following options appear in the display:
   - **NAM1** — Your service contract has one phone line.
   - **NAM2** — Your service contract has two phone lines.

2. Tap the desired NAM setting. The phone powers itself off and back on.

PC Connection

PC Connection lets you select the default type of PC connection you wish to use to exchange files between a PC and your r630.

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

1. At the **Phone Settings** sub-menu, tap **PC Connection**. The following options appear in the display:

   • **USB** — Automatically activates when you connect your phone to a PC with an optional USB Data Cable. Lets you access your phone's memory and any optional microSD Memory Card, if installed, from your PC. (For more information, refer to *"Install a Memory Card"* on page 8.)

   • **Bluetooth** — Lets you automatically transfer files, such as Contacts information, from your phone to a PC over a Bluetooth connection. This option requires that you pair (register) your PC and your r630. (For more information, refer to *"Add New Device"* on page 82.)

   • **No Connection** — This option blocks your r630 from connecting with a PC.

2. Tap the preferred PC Connection type.

Call Settings

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

▶ From the **Settings** menu, tap **Call Settings**. The following sections describe the call sub-menus in detail.

Answer Options

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

Tip: You can set your phone to answer calls automatically, without any input from you. (For more information, refer to *"Call Answer"* on page 25.)

Auto Retry

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

1. From the **Call Settings** menu, tap **Auto Retry**. The following options appear in the display:

   • **Every 10 Seconds** — Phone automatically re-dials a number every 10 seconds.

   • **Every 30 Seconds** — Phone automatically re-dials a number every 30 seconds.

- **Every 60 Seconds** — Phone automatically re-dials a number every 60 seconds.
- **Off** — Disables automatic re-dialing of numbers.

2. Tap the desired setting.

TTY Mode

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

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

Note: The "**Enabling TTY will disable headset audio. Continue?**" message pops up when you tap **TTY Mode**.

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2. To return to the **Call Settings** sub-menu, press **No**.

To access the TTY Mode options, press **Yes**. The following options appear in the display:

- **TTY Full** — Enables TTY mode and disables microphone and earpiece.
- **TTY + Talk (VCO)** — Enables TTY mode and microphone.
- **TTY + Hear (HCO)** — Enables TTY mode and earpiece.
- **TTY Off** — Disables TTY mode.

3. Tap the TTY setting of your choice.

Note: The TTY icon ( ) appears in the top of the display.

One Touch Dial

1. From the **Call Settings** menu, tap **One Touch Dial**. The following options appear in the display:

- **On** — One Touch Dial is enabled.
- **Off** — One Touch Dial is disabled.

2. Tap the desired setting.

Voice Privacy

Voice Privacy when enabled (that is, set to **Enhanced**), turns on advanced voice encryption.

1. From the **Call Settings** menu, tap **Voice Privacy**. The following options appear in the display:

- **Enhanced** — Voice privacy is enabled.
- **Standard** — Voice privacy is disabled.

2. Tap the Voice Privacy setting of your choice.

DTMF Tones

DTMF Tones let you select the length of the tone that the keypad generates each time you press a key.

1. From the **Call Settings** menu, tap **DTMF Tones**.

The following options appear in the display:

- **Normal**
- **Long** — Can be useful with automated systems.

2. Tap the desired setting.

Memory Manager

Memory Manager lets you quickly and easily review and manage your phone memory usage.

▶ From the **Settings** menu, tap **Memory Manager**. The following sections describe the Memory Manager options in detail.

Save Options

Save Options let you specify where you want your images and videos stored.

1. From the **Memory Manager** menu, tap **Save Options** ➔ **Pictures** / **Videos** / **Sounds**. The following storage options are available:

   - **Phone** — Saves the selected type of files in your phone's memory.
   - **Card** — Saves the selected type of files in a removable microSD memory card.

2. Tap the desired storage location(s).

Phone Memory

Lets you review your phone's available memory and manage your files stored there.

Memory Usage

Memory Usage lets you review your usage of your phone's memory.

▶ From the **Memory Manager** menu, tap **Phone Memory** ➔ **Memory Usage**. The **Memory Usage** screen appears in the display showing the following information:

- **Available** unused memory
- **Used** memory usage
- **Total** memory
- **Pictures** memory usage
- **Videos** memory usage
- **Ringtones** memory usage
- **Applications** memory usage
- **Multimedia Msg** memory usage

Freeing Memory

Phone Memory sub-menus let you list files in your multimedia folders and let you erase or move files as needed to free up memory on your phone for reuse.

1. From the **Memory Manager** menu, tap **Phone Memory** ➔ **Pictures** / **Videos** / **Ringtones**. A list of all files in the related folder appears in the display.

    Files are listed by name, and each file entry shows the name and size of each file.

2. To erase files, do the following:
    • Press **Erase**.
    • Tap a file to mark the file for erasure. (Tap **Mark All** to mark all files for erasure.)
    • Tap **Done**. You are prompted to confirm erasure of the selected file(s).
    • Tap **Yes** to erase all marked files, or tap **No** to return to the **Erase** screen.

3. To move files to the Memory Card, do the following:
    • Press **Move**.
    • Tap a file to mark the file for moving. (Tap **Mark All** to mark all files for moving.)
    • Tap **Done**. You are prompted to confirm moving the selected file(s) to the Memory Card.

    • Tap **Yes** to move all marked files, or tap **No** to return to the **Move** screen.

Card Memory

Card Memory lets you review a removable, microSD Memory Card's available memory, manage your files stored there, and format new microSD Memory Cards.

Memory Usage

Memory Usage lets you review your usage of your Memory Card.

1. From the **Memory Manager** menu, tap **Card Memory** ➔ **Memory Usage**. The **Memory Usage** screen appears in the display showing the following information:
    • **Available** unused memory
    • **Used** memory
    • **Total** memory
    • **Pictures** memory usage
    • **Videos** memory usage
    • **Music** memory usage

2. Press ⬤ to return to the **Card Memory** menu.

Freeing Memory

Card Memory sub-menus let you list files in your multimedia folders and let you erase or move files as needed to free up space on your Memory Card for reuse.

1. From the **Memory Manager** menu, tap **Card Memory → Pictures / Videos / Music**. A list of all files in the folder appears in the display.

   Files are listed by name, and each file entry shows the name and size of each file.

2. To erase files, do the following:
   - Tap **Erase**.
   - Tap a file you want to erase to mark the file for erasure. (Tap **Mark All** to mark all files for erasure.)
   - Tap **Done**. You are prompted to confirm erasure of the selected file(s).
   - Tap **Yes** to erase all marked files, or tap **No** to return to the **Erase** screen.

3. To move files to the phone, do the following:
   - Tap **Move**.
   - Tap an image file to mark the file for moving. (Press **Mark All** to mark all files for moving.)
   - Tap **Done**. You are prompted to confirm moving or copying the selected file(s) to the phone.

   - Tap **Yes** to move all marked files or press **No** to return to the **Move** screen.

4. Press ● to return to the **Pictures** / **Videos** / **Music** / **Format Card** sub-menu. Press ⬛ to return to Standby mode.

Formatting a Memory Card

Tip: Memory Cards written to and/or formatted by other devices are likely to slow your phone's response to commands and produce other unwanted results. To avoid such problems, format a used microSD Memory Card after inserting it in your handset.

Formatting a microSD or microSDHC Memory Card erases any data currently on the card and creates multimedia directories compatible with your phone.

Caution!: Repeated formatting of a microSD card reduces its service life. So, don't reformat a Memory Card just to free up storage space.

To regain space on a microSD card already formatted by your phone, just delete unwanted files. (For more information, refer to *"Card Memory"* on page 102.)

1. From the **Memory Manager** menu, tap **Card Memory → Format Card**. You are prompted to confirm formatting of the Memory Card.

2. To format the Memory Card, tap **Yes**. To return to the **Card Memory** screen without formatting the card, tap **No**.

Phone Info

Phone Info options let you identify important information about
your phone, such as the hardware and software versions of your
phone, the meanings of your phones status icons, and the phone
number assigned to your phone.

Tip: This information can be very important to you when contacting
Customer Care personnel.

1. From the **Settings** menu, tap **Phone Info**. The following
    options appear in the display:
    • **My Number** — Shows the ten-digit number assigned to your
      phone by your Wireless Provider.
    • **SW/HW Version** — Shows both the software and hardware
      versions of your phone.
    • **Icon Glossary** — Shows and defines the status icons that can
      appear in the display.
2. Tap the desired Phone Info option.

Section 11: Health and Safety Information

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

Health and Safety Information

Exposure to Radio Frequency (RF) Signals

Certification Information (SAR)

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

These FCC exposure limits are derived from the recommendations of two expert organizations, the National 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.

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

For body worn operation, this phone has been tested and meets FCC RF exposure guidelines when used with an accessory that

contains no metal and that positions the handset a minimum of 1.5 cm from the body.

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

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

• **Head:** 0.95 W/Kg.

• **Body-worn:** 1.02 W/Kg.

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

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

Please Note the Following Information When Using Your Handset

1. **WARNING REGARDING DISPLAY**

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

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

   If your handset has a touchscreen display, please note that a touchscreen responds best to a light touch from the pad of your finger or a non-metallic stylus. Using excessive force or a metallic object when pressing on the touchscreen may damage the tempered glass surface and void the warranty. For more information, refer to *"Standard Limited Warranty"* on page 125.

Samsung Mobile Products and Recycling

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

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

UL Certified Travel Adapter

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

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

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS.

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

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

Consumer Information on Wireless Phones

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

What kinds of phones are the subject of this update?

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

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

Do wireless phones pose a health hazard?

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

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

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

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

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

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

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:
• National Institute for Occupational Safety and Health
• Environmental Protection Agency
• Federal Communications Commission
• Occupational Safety and Health Administration
• National Telecommunications and Information Administration

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

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones.

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

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

What are the results of the research done already?

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

phones, so we don't know with certainty what the results of such studies mean for human health.

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

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

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

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

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

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

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

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

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

FDA and Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety.

FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations.

CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

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

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

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

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

What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radio frequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.

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

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

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

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

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

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

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

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

What about wireless phone interference with medical equipment?

Radio frequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested wireless phones and helped develop a voluntary standard

sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a compatible phone and a compatible hearing aid at the same time. This standard was approved by the IEEE in 2000.

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

Additional information on the safety of RF exposures from various sources can be obtained from the following organizations (Updated 1/1/2010):
• FCC RF Safety Program:
  http://www.fcc.gov/oet/rfsafety/
• Environmental Protection Agency (EPA):
  http://www.epa.gov/radiation/
• Occupational Safety and Health Administration's (OSHA):
  http://www.osha.gov/SLTC/radiofrequencyradiation/index.html
• National Institute for Occupational Safety and Health (NIOSH):
  http://www.cdc.gov/niosh/
• World Health Organization (WHO):
  http://www.who.int/peh-emf/

- International Commission on Non-Ionizing Radiation Protection: http://www.icnirp.de
- Health Protection Agency: http://www.hpa.org.uk/radiation
- US Food and Drug Administration: http://www.fda.gov/Radiation-EmittingProducts/ RadiationEmittingProductsandProcedures/ HomeBusinessandEntertainment/CellPhones/default.htm

Road Safety

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

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

1. Get to know your wireless phone and its features, such as speed dial and redial. If available, these features help you to place your call without taking your attention off the road.

2. When available, use a hands-free device. If possible, add an additional layer of convenience and safety to your wireless phone with one of the many hands free accessories available today.

3. Position your wireless phone within easy reach. Be able to access your wireless phone without removing your eyes from the road. If you get an incoming call at an inconvenient time, let your voice mail answer it for you.

4. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow, ice and even heavy traffic can be hazardous.

5. Do not take notes or look up phone numbers while driving. Jotting down a "to do" list or flipping through your address book takes attention away from your primary responsibility, driving safely.

6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.

7. Do not engage in stressful or emotional conversations that may be distracting. Make people you are talking with aware you are driving and suspend conversations that have the potential to divert your attention from the road.

8. Use your wireless phone to call for help. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident or medical emergencies.

9. Use your wireless phone to help others in emergencies. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.

10. Call roadside assistance or a special non-emergency wireless assistance number when necessary. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or other special non-emergency number.

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

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

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

Provided by the Cellular Telecommunications & Internet Association.

Responsible Listening

Caution!: Avoid potential hearing loss.

Damage to hearing occurs when a person is exposed to loud sounds over time. The risk of hearing loss increases as sound is played louder and for longer durations.

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

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

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

• Set the volume in a quiet environment and select the lowest volume at which you can hear adequately.

• When using headphones, turn the volume down if you cannot hear the people speaking near you or if the person sitting next to you can hear what you are listening to.

• Do not turn the volume up to block out noisy surroundings. If you choose to listen to your portable device in a noisy environment, use noise-cancelling headphones to block out background environmental noise. By blocking background environment noise, noise cancelling headphones should allow you to hear the music at lower volumes than when using earbuds.

• Limit the amount of time you listen. As the volume increases, less time is required before you hearing could be affected.

• Avoid using headphones after exposure to extremely loud noises, such as rock concerts, that might cause temporary hearing loss. Temporary hearing loss might cause unsafe volumes to sound normal.

• Do not listen at any volume that causes you discomfort. If you experience ringing in your ears, hear muffled speech or experience any temporary hearing difficulty after listening to your portable audio device, discontinue use and consult your doctor.

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

American Academy of Audiology
11730 Plaza American Drive, Suite 300
Reston, VA 20190
Voice: (800) 222-2336
Email: info@audiology.org
Internet: http://www.audiology.org

National Institute on Deafness and Other Communication Disorders
National Institutes of Health
31 Center Drive, MSC 2320
Bethesda, MD 20892-2320
Email: nidcdinfo@nih.gov
Internet: http://www.nidcd.nih.gov/

National Institute for Occupational Safety and Health (NIOSH)

395 E Street, S.W.

Suite 9200

Patriots Plaza Building

Washington, DC 20201

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

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

Outside the U.S. 513-533-8328

Email: cdcinfo@cdc.gov

Internet: http://www.cdc.gov

1-888-232-6348 TTY

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

Operating Environment

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

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

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

Using Your Phone Near Other Electronic Devices

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

Implantable Medical Devices

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

Persons who have such devices:

• Should ALWAYS keep the phone more than six (6) inches from their implantable medical device when the phone is turned ON;

• Should not carry the phone in a breast pocket;

• Should use the ear opposite the implantable medical device to minimize the potential for interference;

- Should turn the phone OFF immediately if there is any reason to suspect that interference is taking place;
- Should read and follow the directions from the manufacturer of your implantable medical device. If you have any questions about using your wireless phone with such a device, consult your health care provider.

For more information see:

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

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

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

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

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

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

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

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

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

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

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

M3 + M2 = 5   T3 + T2 = 5
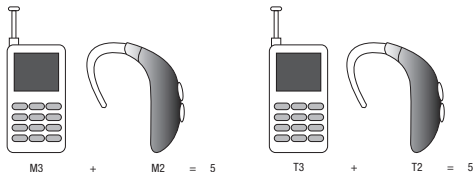
In the above example, if a hearing aid meets the M2 level rating and the wireless phone meets the M3 level rating, the sum of the two values equal M5. This is synonymous for T ratings. This should provide the hearing aid user with "normal usage" while using their hearing aid with the particular wireless phone. "Normal usage" in this context is defined as a signal quality that is acceptable for normal operation.

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

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

Other Medical Devices

If you use any other personal medical devices, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information. Switch your phone off in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

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

Potentially Explosive Environments

Switch your phone off when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

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

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), areas where the air contains chemicals or particles, such as grain, dust or metal powders, and any other area where you would normally be advised to turn off your vehicle engine.

Emergency Calls

This phone, like any wireless phone, operates using radio signals, wireless and landline networks as well as user-programmed functions, which cannot guarantee connection in all conditions. Therefore, you should never rely solely on any wireless phone for essential communications (medical emergencies, for example).

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

To make an emergency call:

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

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

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

Restricting Children's access to your Phone

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

FCC Notice and Cautions

FCC Notice

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

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

NFPA (National Fire Protection Agency)

1 Batterymarch Park

Quincy, Massachusetts

USA 02169-7471

Internet: http://www.nfpa.org

Cautions

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

phone warranty if said accessories cause damage or a defect to the phone.

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

Other Important Safety Information

• Only qualified personnel should service the phone or install the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the device.

• Check regularly that all wireless phone equipment in your vehicle is mounted and operating properly.

• Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, its parts or accessories.

• For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including both installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If wireless equipment is improperly installed and the air bag inflates, serious injury could result.

• Switch your phone off before boarding an aircraft. The use of wireless phone in aircraft is illegal and may be dangerous to the aircraft's operation.

• Failure to observe these instructions may lead to the suspension or denial of telephone services to the offender, or legal action, or both.

Product Performance

Getting the Most Out of Your Signal Reception

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

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

Understanding the Power Save Feature

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

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

Understanding How Your Phone Operates

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

Maintaining Your Phone's Peak Performance

For the best care of your phone, only authorized personnel should service your phone and accessories. Faulty service may void the warranty.

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

• To ensure that the Hearing Aid Compatibility rating for your phone is maintained, secondary transmitters such as Bluetooth and WLAN components must be disabled during a call. For more information, refer to *"Turn Bluetooth On/Off"* on page 82.

• If your phone is equipped with an external antenna, hold the phone with the antenna raised, fully-extended and over your shoulder.

• Do not hold, bend or twist the phone's antenna, if applicable.

• Do not use the phone if the antenna is damaged.

• If your phone is equipped with an internal antenna, obstructing the internal antenna could inhibit call performance.

• Speak directly into the phone's receiver.

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

Availability of Various Features/Ring Tones

Many services and features are network dependent and may require additional subscription and/or usage charges. Not all

features are available for purchase or use in all areas. Downloadable Ring Tones may be available at an additional cost. Other conditions and restrictions may apply. See your service provider for additional information.

Battery Standby and Talk Time

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

Battery Precautions

• Avoid dropping the cell phone. Dropping it, especially on a hard surface, can potentially cause damage to the phone and battery. If you suspect damage to the phone or battery, take it to a service center for inspection.

• Never use any charger or battery that is damaged in any way.

• Do not modify or remanufacture the battery as this could result in serious safety hazards.

• If you use the phone near the network's base station, it uses less power; talk and standby time are greatly affected by the signal strength on the cellular network and the parameters set by the network operator.

• Follow battery usage, storage and charging guidelines found in the user's guide.

• Battery charging time depends on the remaining battery charge and the type of battery and charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time (talk time and standby time) is noticeably shorter than normal, it is time to buy a new battery.

• If left unused, a fully charged battery will discharge itself over time.

• Use only Samsung-approved batteries and recharge your battery only with Samsung-approved chargers. When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, since overcharging may shorten its life.

• Do not use incompatible cell phone batteries and chargers. Some Web sites and second-hand dealers, not associated with reputable manufacturers and carriers, might be selling incompatible or even counterfeit batteries and chargers. Consumers should purchase manufacturer or carrier recommended products and accessories. If unsure about whether a replacement battery or charger is compatible, contact the manufacturer of the battery or charger.

• Misuse or use of incompatible phones, batteries, and charging devices could result in damage to the equipment and a possible risk of fire, explosion, leakage, or other serious hazard.

• Extreme temperatures will affect the charging capacity of your battery: it may require cooling or warming first.

• Do not leave the battery in hot or cold places, such as in a car in summer or winter conditions, as you will reduce the capacity and lifetime of the battery. Always try to keep the battery at room temperature. A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0 °C (32 °F).

• Do not place the phone in areas that may get very hot, such as on or near a cooking surface, cooking appliance, iron, or radiator.

• Do not get your phone or battery wet. Even though they will dry and appear to operate normally, the circuitry could slowly corrode and pose a safety hazard.

• Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip or pen) causes a direct connection between the + and - terminals of the battery (metal strips on the battery), for example when you carry a spare battery in a pocket or bag. Short-circuiting the terminals may damage the battery or the object causing the short-circuiting.

• Do not permit a battery out of the phone to come in contact with metal objects, such as coins, keys or jewelry.

• Do not crush, puncture or put a high degree of pressure on the battery as this can cause an internal short-circuit, resulting in overheating.

• Dispose of used batteries in accordance with local regulations. In some areas, the disposal of batteries in household or business trash may be prohibited. For safe disposal options for Li-Ion batteries, contact your nearest Samsung authorized service center. Always recycle. Do not dispose of batteries in a fire.

Care and Maintenance

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

• Keep the phone and all its parts and accessories out of the reach of small children.

• Keep the phone dry. Precipitation, humidity and liquids contain minerals that will corrode electronic circuits.

• Do not use the phone with a wet hand. Doing so may cause an electric shock to you or damage to the phone.

• Do not use or store the phone in dusty, dirty areas, as its moving parts may be damaged.

• Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.

• Do not store the phone in cold areas. When the phone warms up to its normal operating temperature, moisture can form inside the phone, which may damage the phone's electronic circuit boards.

- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the phone. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.
- Do not paint the phone. Paint can clog the device's moving parts and prevent proper operation.
- Do not put the phone in or on heating devices, such as a microwave oven, a stove or a radiator. The phone may explode when overheated.
- If your phone is equipped with an external antenna, use only the supplied or an approved replacement antenna. Unauthorized antennas or modified accessories may damage the phone and violate regulations governing radio devices.
- If the phone, battery, charger or any accessory is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

Standard Limited Warranty

What is Covered and For How Long?

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

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

What is Not Covered?

This Limited Warranty is conditioned upon proper use of Product by Purchaser. This Limited Warranty does not cover: (a) defects or damage resulting from accident, misuse, abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, neglect, unusual physical, electrical or electromechanical stress, or defects in appearance, cosmetic, decorative or structural

items, including framing, and any non-operative parts unless caused by SAMSUNG; (b) defects or damage resulting from excessive force or use of a metallic object when pressing on a touch screen; (c) equipment that has the serial number or the enhancement data code removed, defaced, damaged, altered or made illegible; (d) any plastic surfaces or other externally exposed parts that are scratched or damaged due to normal use; (e) malfunctions resulting from the use of Product in conjunction or connection with accessories, products, or ancillary/peripheral equipment not furnished or approved by SAMSUNG; (f) defects or damage from improper testing, operation, maintenance, installation, service, or adjustment not furnished or approved by SAMSUNG; (g) defects or damage from external causes such as collision with an object, or from fire, flooding, sand, dirt, windstorm, lightning, earthquake, or from exposure to weather conditions, or battery leakage, theft, blown fuse, or improper use of any electrical source; (h) defects or damage caused by cellular signal reception or transmission, or viruses or other software problems introduced into the Product; (j) any other acts which are not the fault of SAMSUNG; or (i) Product used or purchased outside the United States. This Limited Warranty covers batteries only if battery capacity falls below 80% of rated capacity or the battery leaks, and this Limited Warranty does not cover any battery if (i) the battery has been charged by a battery charger not specified or approved by SAMSUNG for charging the battery, (ii) any of the seals on the battery are broken or

show evidence of tampering, or (iii) the battery has been used in equipment other than the SAMSUNG phone for which it is specified.

What are SAMSUNG's Obligations? During the applicable warranty period, SAMSUNG will repair or replace, at SAMSUNG's sole option, without charge to Purchaser, any defective component part of Product. To obtain service under this Limited Warranty, Purchaser must return Product to an authorized phone service facility in an adequate container for shipping, accompanied by Purchaser's sales receipt or comparable substitute proof of sale showing the original date of purchase, the serial number of Product and the sellers' name and address. To obtain assistance on where to deliver the Product, call Samsung Customer Care at 1-888-987-4357. Upon receipt, SAMSUNG will promptly repair or replace the defective Product. SAMSUNG may, at SAMSUNG's sole option, use rebuilt, reconditioned, or new parts or components when repairing any Product or replace Product with a rebuilt, reconditioned or new Product. Repaired/replaced cases, pouches and holsters will be warranted for a period of ninety (90) days. All other repaired/replaced Product will be warranted for a period equal to the remainder of the original Limited Warranty on the original Product or for 90 days, whichever is longer. All replaced parts, components, boards and equipment shall become the property of SAMSUNG. If SAMSUNG determines that any Product is not covered by this Limited Warranty, Purchaser

must pay all parts, shipping, and labor charges for the repair or return of such Product.

What Are The Limits On Samsung's Warranty/liability? EXCEPT AS SET FORTH IN THE EXPRESS WARRANTY CONTAINED HEREIN, PURCHASER TAKES THE PRODUCT "AS IS," AND SAMSUNG MAKES NO WARRANTY OR REPRESENTATION AND THERE ARE NO CONDITIONS, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, OF ANY KIND WHATSOEVER WITH RESPECT TO THE PRODUCT, INCLUDING BUT NOT LIMITED TO:

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Richardson, Texas 75082

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Precautions for Transfer and Disposal

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

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

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

Customer Care Center:

1000 Klein Rd.

Plano, TX 75074

Toll Free Tel: 1.888.987.HELP (4357)

Samsung Telecommunications America, LLC:

1301 East Lookout Drive

Richardson, Texas 75082

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

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

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