# SGH-Q105

### PORTABLE CELLULAR TELEPHONE

# User's Guide

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

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## Introduction To Your Samsung SGH-Q105 Series Phone

Congratulations on the purchase of your Samsung SGH-Q105 Series Dual Band Phone. Using the latest digital technology, the Samsung SGH-Q105 Series Phone operates similar to other GSM phones, while providing superior resonance and tone quality.

Your Samsung SGH-Q105 GSM phone is packed with productive features that are easy to use. Here are some of them:

- Operates in GSM900 and GSM1900.
- Internet Access via WAP 1.1 /UP 4.1
- One Touch Internet Access
- Internet MiniBrowser
- Electronic Administrator (PIM)
- 18 Ring Types and 2 Customizable Melodies
- Answer or hang up calls just by opening and closing the flip on the phone.
- User friendly display with dedicated icons for signal strength, service, messages, vibrator, and battery
- Distinctive ringer types for voice, message, and alarm calls
- 99 Phone Book entries plus up to 300 SIM Card entries.(SIM Card Dependent).
- Call Logs – 10 Locations each for outgoing, incoming, and missed calls. These 30 numbers are all easy to redial.
- Two-way Short Message Services (SMS) and Voicemail notification
- T9 text entry
- Pause Dialing for tele-services
- Alarm clock with three programmable alarms
- Last number redial – last 10 Numbers
- Tri-Lingual - English, Spanish, and French.
- Easily mute the microphone during conversation

## How To Use This Manual

This user guide explains your Samsung SGH-Q105 phone operations through easy-to-follow instructions and illustrations. We've included some important safety and usage information that you should know before using your phone. If you still have questions, we'll be happy to answer them. Just call our Samsung Customer Care Center toll-free at 1.888.987.HELP (4357).

We hope you enjoy using your new Samsung SGH-Q105 Series Phone, and thanks for choosing Samsung.

## CC RF Exposure Information

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards. Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations. Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

### Body-Worn Operation

This device was tested for typical body-worn operations using the optional belt-clip/holster placed 0.78 inches (2.0cm) from the body. To comply with FCC RF exposure requirements, a minimum separation distance of 0.78 inches (2.0cm) must be maintained between the user's body and the phone, including the antenna, whether extended or retracted. The use of third-party belt-clips/holsters with no metallic components that provide the minimum separation distance of 0.78 inches (2.0cm) can be used to satisfy FCC RF exposure requirements.

The use of non-tested accessories or other body-worn operations may not comply with FCC RF exposure requirements and should be avoided. Contact your local dealer for optional accessory items.

**Vehicle Mounted External Antenna (Optional, if available)**

A minimum separation distance of 7.9 inches (20cm) must be maintained Between a person and the vehicle mounted external antenna to satisfy FCC RF exposure requirements. For more information about RF exposure, please visit the FCC website at www.fcc.gov

## SAR Information & FCC ID Labeling

THIS MODEL PHONE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES. Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health. The exposure standard for wireless mobile phones employs a unit of measurement know as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg.* Tests for SAR are conducted using standard operating positions specified 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 phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone when tested for use at the ear is 1.53W/kg and when worn on the body, as described in this user guide, is 1.35W/kg . (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF emission guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/oet/fccid after searching on FCC ID A3LSGHQ105.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) web-site at http://www.wow-com (see note).

* In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

Note: The URL http://phonefacts.net may be used in place of http://www.wow-com for direct access to SAR information.

# Table of Contents

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**1**

# Your Consumer Package

Your consumer package includes the following items:

- Phone
- Travel Charger
- Battery
- Data Cable
- CDROM
- User Manual
- Hands-Free Headset

**Accessories**

The following optional accessories are available for the SGH-Q105:

- Car Power Charger (17140000011)
- Travel Charger (TAD056JBEB/XAR)
- Hands-free Car Kit (HKT056NBEG/XAR)
- Standard Battery (BST0569SEB/XAR)
- Data Kit (PKT056LBEC/XAR)
- Desktop Charger Kit (DKT056JBEB/XAR)
- Holster (17221075008)
- Hands Free Headset (AEP056SBEB/XAR)
- Leather Pouch (17200000022)

Contact your local Samsung dealer for more information or visit us on the web at:

http://www.samsungusa.com/wireless

The use of any other power accessory will invalidate any approval or warranty applying to the phone, and may be dangerous.

When you disconnect the power cord of any accessory, grasp and pull the connector, not the cord.

It is extremely important that only genuine Samsung authorized accessories be utilized with your Samsung phone. This is because accessories might appear to be a perfect match, and labeled suitable for your Samsung phone, but they can charge at different current rates. The current provided through the accessory may not match the current that is required by your Samsung phone and the result of using an unauthorized accessory may be a battery or phone melt down. Your warranty of course, would be null and void.

# Front View of the SGH-Q105

### SoftKeys

Softkeys are used as navigation controls to display the desired menu options displayed on the screen. By using the softkeys, you can quickly navigate to the desired screen function. The softkeys are positioned on the phone under the choices displayed on the screen. To see the softkeys location on the phone, look at the illustration on page 17.

### Navigation Button

The navigation button is located in the middle of the phone between the two softkeys. It can be pressed up, down, left, or right. The navigation button can be used to automatically display menu functions of your phone. For more information on setting the shortcuts, see "Shortcut" on page 86. The default settings for the shortcut are:

- Up - Calendar
- Down - Phone Book
- Left - Tones
- Right - Messages

### Menu Browse Keys

Menu browse keys are used to cycle through the available menu options displayed in each function. Once the desired menu choice is found, you press a softkey as mentioned above to select the choice. To see the Menu Browse keys location on the phone, look at the illustration on page 17.

### Send/End Keys

The Send and End keys are used to place and end calls on the phone. To place a call, you enter the desired number on the keypad and press the Send

key. When the call is finished, the End key is pressed to hang up or end the call. The End key can also be used to clear whatever screen is displayed and return the phone to the main screen.

**Note:** The Send key can also be used to answer an incoming call while on an existing call. It flashes to the other line to answer the call. To place the incoming caller on hold and return to the other call, press the Swap softkey.

The End key is also used to turn the phone's power On or Off. For more information on powering the phone On or Off, see "Turning the Phone On/Off" on page 33.

## Keypad

The phone's keypad is used to enter information into the phone. The keypad consists of a standard numeric keypad with the numbers 0-9, asterisk (*), and pound (#). The keypad can also enter alpha characters by using one of the different modes associated with entering data. The different modes are:

- ABC - Uses the standard letters and numbers associated with the keypad. The choices are cycled each time the key is pressed.
- Number - Uses only the numeric side of the keypad. No letters are available in this mode.
- English - The numbers and letters are entered in English.
- Español - In this mode, some characters appear in Spanish format.

- Français - In this mode, some characters appear in French format.
- Symbolic - Allows you to enter a standard set of commonly used symbols by pressing the keypad. The choices are cycled each time a key is pressed.

## Antenna

A device for transmitting or receiving signals. The shape and size of the antenna is determined, in part, by the operating frequency of the handset.

## Screen Backlight

The backlight illuminates the screen allowing for better viewing of the information being displayed. When a key is pressed, the backlight is turned on. It remains on for a predetermined amount of time before automatically turning itself Off. This saves the battery from being discharged too quickly. The backlight can be configured to remain on if desired. If the phone is being used with a hands free car kit, the light remains On by default.

## Display Screen

The display screen contains three different areas.
They are:

- Top
- Middle
- Bottom

### Top

Displays several different function icons about the
phone status. These functions include:

- **Signal Strength Indicator** - The signal
  strength is measured in bars that extend
  upward. The more bars displayed, the
  stronger the signal. Six bars indicates
  maximum signal strength.
- **Service Indicator** - The service indicator is
  displayed when a call is in progress or
  airtime is being used. If the indicator is
  displayed, you are being charged for
  airtime.
- **New Message Indicator** - The new message
  indicator is displayed when a new text
  message is received.
- **New Voice Mail Indicator** - The new voice
  mail indicator is displayed when a new
  voice mail message has been delivered to
  your Inbox.
- **Vibrate On** - The vibrate icon is displayed if
  the phone is set to any vibrate mode. When
  vibrate only mode is On, no ringer is
  heard. The phone vibrates to indicate an
  incoming call.
- **Alarm On** - The alarm icon is displayed
  when you set an alarm.

- **Battery Strength Indicator** - The battery strength indicator displays the amount of available charge left in the battery. The charge is measured with a series of black bars. The more bars that are displayed, the better the charge. Three bars indicates a maximum charge.

**Middle**

The middle of the display screen is used to display messages, instructions, and any other information that you enter. Mainly text and graphics are displayed in the middle of the screen. For example, when you dial a phone number, the digits are displayed in the middle of the screen.

**Bottom**

Soft keys are displayed with various menu functions.

## Volume Buttons

During a call, the volume buttons are used to adjust the receiver volume. It can also be used to set the alert setting when the phone is in idle mode. The available alert settings are:

- Vib.+ High
- Vib.+ Medium
- Vib.+Low
- High
- Medium
- Low
- Vib.
- Off (Light only)

## Backlight

The display is illuminated using a backlight whenever the unit is turned on or the flip is opened. The light stays on for a moment and then turns itself off. The amount of time the light is on can be setup using the phone settings. For more information, see "Light" on page 78.

## Service Light Indicator

The Service Light Indicator flashes when the phone is in service. It is located on the top left side of the phone.

**Note:** There is an option that allows you to turn Off the Service Indicator Light. For more information, see "Service Light" on page 78.

## Flip Cover

The flip can be used to answer or end a call when it is opened or closed.

# Menu Tree

**1. Call Records**
- 1: Missed Calls
- 2: Incoming Calls
- 3: Outgoing Calls
- 4: Delete All
    - 1: Missed Calls
    - 2: Incoming Calls
    - 3: Outgoing Calls
- 5: Call Time
    - 1: Last Call
    - 2: Total Outgoing
    - 3: Total Incoming
    - 4: Reset Timers
- 6: Call Cost (SIM Dependent)

**2. Messages**
- 1: Read Messages
- 2: Write Messages
- 3: Preset Message List
    - 1: Call me when you get this message
    - 2: When can we meet?
    - 3: Where are you?
    - 4: Where is the meeting?
    - 5: Talk to you soon
- 4: Setup
    - 1: VoiceStream
        - 1: Service Center
        - 2: Default Type
        - 3: Default Validity
        - 4: Setting Name
    - 2: Setting 2 (SIM Dependent)
    - 3: Setting 3 (SIM Dependent)
    - 4: Setting 4 (SIM Dependent)
    - 5: Common Setting
        - 1: Reply Path
            - 1: Off
            - 2: On
        - 2: Delivery Reports (Off)
        - 3: Bearer Selection
            - 1: GSM
            - 2: GPRS
- 5: Broadcast

6: Voice Mail
     1: Connect to Voice Mail
     2: Voice Server Number


**3. Tones**

1: Ring Tone
     1 - 18: Tones
2: Melody Composer
     1: Melody 1
     2: Melody 2
3: Ring Volume
4: Alert Type
     1: Light Only
     2: Melody
     3: Vibration
     4: Vibra+Melody
5: Keypad Tone
     1: Off
     2: Tone
     3: Beep
6: Key Volume
7: Message Tone
     1: SMS Tone
          1: Mode
               1: Light Only
               2: Vibration
               3: Single
               4: Periodic
          2: Tones
          1 - 10: Tones
     2: CB Tone
          1: Off
          2 - 4: CB Tone 1-3
8: Error Tone
     1: Off
     2: On
9: Minute Minder
     1: Off
     2: On
0: Connect Tone
     1: Off
     2: On

**4. Phone Settings**
    1: Background Image
        1: Off
        2: Analog Clock
        3: My Message
        4: My Image 1
        5: My Image 2
        6: My Image 3
    2: Greeting Message
    3: Own Number
    4: Language (English)
    5: Light
        1: Backlight
            1: Off
            2: Short
            3: Long
        2: Service Light
            1: Off
            2: On
    6: Auto Redial
        1: Off
        2: On
    7: Active Flip
        1: Disable
        2: Enable
    8: Anykey Answer
        1: Off
        2: On
    9: LCD Contrast
    0: Car Kit Answer
        1: Off
        2: 3 Seconds
        3: 5 Seconds
        4: 10 Seconds
    *: Reset Settings

**5. Organizer**
    1: Calendar
    2: To Do List
    3: Time & Date
        1: Set Time
        2: Set Date
        3: World Time

4: Format
    1: Time format
        1: 24 Hours
        2: 12 Hours
    2: Date format
        1: YYYY/MM/DD
        2: DD/MM/YYYY
        3: MM/DD/YYYY

4: Alarm
    1: Once Alarm
    2: Daily Alarm
    3: Weekly Alarm
    4: Remove All Alarms
    5: Autopower
        1: Disable
        2: Enable

5: ShortCut
    1: Keyup
        1: None
        2: Silent mode
        3: Calendar
        4: Messages
        5: Tones
        6: To Do List
        7: Voice Mail
        8: Phonebook
    2: Key Down
        1: None
        2: Silent Mode
        3: Calendar
        4: Messages
        5: Tones
        6: To Do List
        7: Voice Mail
        8: Phonebook
    3: Key Right
        1: None
        2: Silent Mode
        3: Calendar
        4: Messages
        5: Tones
        6: To Do List
        7: Voice Mail
        8: Phonebook

                        4: Key Left
                                1: None
                                2: Silent mode
                                3: Calendar
                                4: Messages
                                5: Tones
                                6: To Do List
                                7: Voice Mail
                                8: Phonebook
                        5: C Long Press
                                1: None
                                2: Silent Mode
                                3: Calendar
                                4: Messages
                                5: Tones
                                6: To Do List
                                7: Voice Mail
                                8: Phonebook

**6. Security**
        1: PIN Check
                1: Disable
                2: Enable
        2: Change PIN
        3: Phone Lock
                1: Disable
                2: Enable
        4: Change Password
        5: SIM Lock
                1: Disable
                2: Enable
        6: FDN Mode
                1: Disable
                2: Enable
        7: Change PIN 2

**7. Network Services**
        1: Call Forwarding
                1: Forward Always
                2: Busy
                3: No Reply
                4: Unreachable
                5: Cancel All
        2: Call Waiting

1: Voice Calls
2: Cancel All
3: Network Selection
1: Automatic
2: Manual
4: Caller ID
1: Default
2: Hide Number
3: Send Number

## 8. WAP Browser

1: Home
2: http://
3: Clear Cache

# 2
# SIM Card

A SIM card or Subscriber Identity Module, is used as the key to the GSM network. It stores all the vital information about you and your phone. In fact, it is your SIM card (and not your handset) that determines your phone number.

The SIM card also allows you to store information, such as telephone numbers or other networks. This is handy if you travel abroad.

## Installing the SIM Card

The SIM card is installed underneath the battery into the phone. Please take the following precautions when installing the SIM card:

- Keep out of reach of small children, the SIM cards can present a choking hazard.
- The SIM card contacts can be damaged by scratches or bending due to installing improperly.
- Make sure the phone is switched off prior to installing the SIM card.

1. Turn the phone Off by pressing and holding the "End" button.
2. Remove the battery from the phone.
3. Slide the SIM card lock and hold in the unlocked position.
4. Insert the SIM card insuring that the cutoff corner is located in the top right and the gold contacts are facing into the phone.
5. Hold the SIM card into position and release the SIM card lock slowly to lock into place.
6. Replace the battery.

7.  Turn the phone On by pressing and holding the "End" button.

# Installing/Removing the Battery

To install the battery:

1.  Insert the battery into the guide slots on the backside of the phone.
2.  Slide the battery up until you hear it lock into place

To remove the battery:

1.  Turn the phone off (by pressing and holding "End" until the closing animation sequence begins.)
2.  Push the button on top of the battery and slide the battery down.

## Charging the Battery

The SGH-Q105 is powered by a Li-Ion battery capable of being recharged using a Samsung desktop or travel charger. The phone can be used while the phone is being charged. If the phone is turned off, a battery charge indicator is displayed on the screen.

**Note:** You must fully charge the battery prior to using the phone the very first time. A full charge takes approximately 200 minutes.

### To charge the battery

1.  Connect the travel charger adapter to the port located on the bottom of the phone.

## Low Battery Indicator

When the battery becomes too weak to sufficiently power the phone, a warning tone is heard and a low battery indicator is displayed on the screen. A message flashes on the screen periodically, until the phone is placed into a charger or the power runs out and the phone automatically shuts Off.

## Turning the Phone On/Off

1. Open the flip cover and press and hold the "End" button for 1-2 seconds.
2. If the phone prompts you for a password, enter "00000000" and then press the "OK" softkey.
3. If the phone prompts you for a PIN number, enter "1234" and then press the "OK" softkey.

**Note:** The display language is determined by the SIM card. To change the language, use the language menu option.

4. To turn the phone Off, press and hold the "End" button down for 1-2 seconds.

## Access Codes

There are different access codes associated with your phone. These codes help protect your phone from unauthorized use. When requested for any of the codes, key in the code and press the "OK" softkey. If you make a mistake during the entry, press the "Clear" button. These codes can be accessed in the Security menu. For more information, see "Security" on page 87.

### Phone Password

The phone lock feature allows you to lock the phone to restrict unauthorized usage. The phone

is factory set to "00000000". For more information on locking your phone, see "Phone Lock" on page 88 or to change the password, see "Change Password" on page 89.

### PIN

A PIN or Personal Identification Number (4-8 digits) protects the SIM card against unauthorized use. The PIN is supplied with the SIM card. The default PIN is "1234". If a PIN number is entered three times incorrectly, the code is disabled and a PUK or Personal Unblocking Key number must be entered. For more information on PIN numbers, see "Change PIN" on page 88.

### PUK

A PUK number (8 digits) is required to change a disabled PIN number. The PUK may be supplied with the SIM card. If not, or it has been lost, contact your service provider to receive a new number. If the PUK number is entered 10 times incorrectly, the SIM card is disabled and a new card is needed from your service provider.

**3**

# Selecting Functions and Options

Your phone consist of several functions that can be customized to allow easier usability. These functions are arranged in menus and sub-menus, accessed via softkeys on the phone above the standard keypad. By using the softkeys, you can navigate through the menu structure by selecting the desired usability option. In each menu, there are settings that modify a particular function installed in the phone.

The roles of the softkeys change depending on the menu being displayed. A keyword is displayed on the bottom of the display screen above each of the two keys that define what role they are playing at any given time.



Press the left softkey to choose "Menu". Press the right softkey to choose "PhoneBook". The center key can be pressed up, down, left, or right to select options.

| To | Then |
|---|---|
| Select the function or option highlighted. | Press the Left Softkey. |
| View the next function or highlight the next option in a list. | Press the down arrow. |
| Move back to the previous function or option in a list. | Press the up arrow. |
| Move back up one level in the menu structure. | Press the right softkey. |
| Exit the menu without changing any settings. | Press the End key. |

**Note:** For some of the functions listed above, you may be asked for a password or PIN. Enter the requested information and press the "OK" softkey.

## Unlock

The Unlock feature allows you to use the softkey buttons when the flip is closed and the background image has been turned Off. To use the Unlock feature, follow the steps listed below:

1. Open the flip and press the "Menu" softkey.
2. Press "4" for "Phone Settings".
3. Press "1" for "Background Image".
4. Press "1" for "Off".
5. Close the flip and wait approximately three seconds. Unlock is displayed in the lower left corner of the screen.
6. Press and hold the "Unlock" softkey for three seconds.
7. The "Keypad Activate" screen is displayed.
8. The "Menu" and "Name" softkeys are displayed.
9. Press either softkey to access the menu's while the flip remains closed.

**Note:** If there is a period of inactivity, your phone will automatically reset back to the Unlock mode.

**Note:** If the background image is turned On, the keypad lock is automatically set during the idle mode with the background image.

**4**

# Call Functions

Making a regular call is similar to using a standard land-line phone. The call is dialed using the keypad and the "Send" button is pressed to connect the call.

## Making a Call

1. Turn the phone On.
2. Enter the 10 digit number using the keypad.
3. Press the "Send" button.

## International Calls

To dial an international number, you perform almost the same procedure as listed above. The only difference is, the international prefix is required before the number is dialed.

1. Press and hold "0". The international prefix is enabled and a "+" sign is displayed on the screen.
2. Key in the country code prefix, followed by the area code and phone number.
3. Press the "Send" button to complete the call.

## Correcting a Number

There are a number of different ways to correct a number that has been entered incorrectly, without having to completely start over.

| Problem | Solution |
|---------|----------|
| The last digit is incorrect. | Press the "C" key once. |
| Any other digit in the number is incorrect. | Use the Left and Right navigation keys to move to the desired menu location. |
| The whole number is incorrect. | 1. Press and hold the "C" key until the text is deleted. 2. Press the "End" key. 3. Press the "Exit" soft-key. |

**Ending a Call**
1.  When you have finished with the call, press the "End" button or close flip.
2.  The call is completed and the phone returns to idle mode.

**Making a Call using the Phone Book**
Phone numbers can be stored on the phone using the SIM card and phone memory. The phone book allows you to keep all your commonly used numbers with you. For more information, see "Phonebook" on page 45.

**Last Number Redial**
The SGH-Q105 has the ability to automatically dial the last number called by simply pressing the "Send" button. The phone stores the last 10

numbers dialed in a log file. To recall any of these numbers:

1. Press the "Send" button to access the list.
2. Use the arrow buttons on the phone to scroll up or down through the list. Stop on the desired number.
3. Press "Send" to dial the number.

## Adjusting The Call Volume

To adjust the speaker volume during a call, use the volume buttons located on the side of the phone.

## Answering a Call

When you receive a call, the phone either rings or vibrates and the service light flashes. There is also a phone icon that moves on the screen to indicate the incoming call. If the caller can be identified, the number is displayed on the screen. If not, the phone icon just flashes.

To answer the call:

1. Open the flip cover. If necessary, press "Send" or the "Accept" softkey.
2. End the call by closing the flip or pressing the "End" key.

To reject the call:

- Press and hold the volume key or
- Press "End" or
- Press the "Reject" softkey

The call is then forwarded to voice mail.

**Note:** You can also answer a call while in the phone book or menu features.

## Viewing Missed Calls

A missed call log saves the last 10 numbers on the phone. The number of missed calls is displayed on the screen.

To view the missed calls:

1.  Press the "View" softkey.
2.  Choose one of the following:

    -   Scroll through the list of missed calls using the navigation buttons.

    -   Call the number displayed by pressing the "Send" button.

    -   Edit or delete the missed call number by pressing the "Options" softkey.

### Editing Missed Call Numbers

1.  Highlight the missed call and press the "Select" softkey.
2.  Press the "Options" softkey.
3.  Press "2" for "Edit Number".
4.  Change the number. Press the Up or Down arrow button to scroll through the number.
5.  Choose one of the following options:

    -   Call the number by pressing the "Send" button.

    -   Store the number by pressing the "Save" softkey. Enter the name and location to store the number.

6.  Press the "End" button to exit.

Viewing Missed Calls

**Deleting a Missed Call**

1. Press the "Options" softkey.
2. Highlight "Delete"
3. Press the "Select" softkey.

**Note:** You can press the "End" button at any time to exit.

# InUse Menu

The following options are available in the Options menu. They are:

- Mute/Unmute
- Mute Keys/Send Keys
- Send DTMF
- Phone book
- SMS Service

## Mute/Unmute

The microphone can be switched Off. This allows you to speak with another individual without the caller hearing you.

### To mute the caller:
1. Press the "Options" softkey.
2. Press "1" for "Mute".

### To un-mute the caller:
1. Press "Options".
2. Press "1" for "Unmute"

## Mute/Send Keys

The key tones can be muted to avoid tones being heard when the numeric keys are pressed.

To mute the tones:
1. Press the "Options" softkey.
2. Press "2" for "Mute Keys".

### To Send Keys:
1. Press the "Options" softkey.
2. Press "2" for "Send Keys".

## Send DTMF

The Send DTMF option sends a series of numeric key tones through the microphone. This feature is useful when dialing automated systems. To send DTMF tones:

1. Press the "Options" softkey.
2. press "3" for "Send DTMF"
3. Enter the number using the keypad or press the "Name" softkey to select a name from the phone book.
4. Press the "OK" softkey.

## Phonebook

During a call, you can search through your phone book to find a desired entry.

1. Press the "Options" softkey.
2. Press "4" for "Phonebook".
3. Highlight the desired entry and press the "View" softkey.
4. Press the "Options" softkey for more options.

## SMS Service

You can view or compose a new SMS Message during a call.

To view or compose:

1. Press the "Options" softkey.
2. Press "5" for "SMS Service".
3. Press "1" for "Read Messages", or "2" for "Write Messages".

## Hold

A caller can be placed on hold at anytime during a call. This feature allows you to place one caller on hold and then place a call to a second caller. Once

connected, you can switch back and forth between the two or connect everyone together.

To place a call on hold:

1.   Press the "Hold" softkey.

To return to the call, press the "Unhold" softkey.

## Call Waiting

You can answer an incoming call while already on an existing call. The Call Waiting option must be set in the phone settings for this feature to work correctly.

**Note:** Make sure Call Waiting is supported by your carrier's network.

### Setup Call Waiting

To activate the call waiting feature:

1.   Open the flip and press the "Menu" softkey.
2.   Press "7" for "Network Services".
3.   Press "2" for "Call Waiting".
4.   The following choices are available:

   • Voice Calls

   • Cancel All

5.   Press "1" for Voice Calls.
6.   Press the softkey to Activate or Deactivate Call Waiting.

## Conference Calling

You can have a conference call with up to six people by using the Multi-party Calling option. Multi-party Calling allows all parties in the coversation to talk to one another.

**Note:** Make sure that Multi-party calling is supported by your carriers network.

### Making a Multi-party Call

1. Call the first person the normal way by dialing their number and pressing the "Send" key.
2. Call the second person in the normal way. (The first caller is automatically placed on hold).

**Note:** To avoid the first caller from hearing the key tones, you can mute the key tones using the InUse menu options.

3. To join the first and second callers together, press the "Options" softkey and select "Join".
4. To add additional callers, use the "Join" option.

**Note:** Incoming callers can also be added by answering the call and selecting the "Join" option.

### Private Conversation on a Multi-party Call

1. Press the "Options" softkey and select the "Select One" option.
2. A list of participants is displayed. Highlight the desired caller and press "Select" softkey.
3. Highlight "Private" and press the "OK" softkey.

Now you are connected privately with the selected person. Other participants can continue the conversation while you are in private mode.

4. To exit the private call and return to the multi-party call, press the "Options" softkey and select "Join".

All multi-party callers are reconnected with each other.

**Dropping a Single Participant**

1. Press the "Options" softkey and select the "Select One" option.
2. A list of participants is displayed. Highlight the desired caller and press "Select" softkey.
3. Highlight "Remove" and press the "OK" softkey.

The call is dropped with that participant, but the other callers are still connected.

4. End the multi-party call by closing the flip cover or pressing "End".

# Entering Information

When you store a name in the Phone Book or schedule events in the calendar, text is entered into the phone using the keypad. There are several different text entry modes available to enter this information.

They are:

- T9
- Uppercase
- Lowercase
- Number

## T9 Word® Entry

This mode allows you to enter words with fewer key strokes. Each key has several letters or a number associated with it when it is pressed. T9 automatically compares the keystrokes with a linguistic database to determine the correct word. For example, if you press 4, 3, 5, 5, 6, the word "Hello" is displayed. If the desired word is not displayed, you can press "0" to scroll through a list of possible matches.

To delete a character, press the "Clear" key located in the middle of your phone. To delete the entire screen, press and hold the "Clear" key.

To make capital letters, you can use the "Shift" key. There are two states of capitalization, they are: Lowercase and Cap Lock. Press the Shift key to cycle bewteen the two modes.

**Note:** To exit without saving at anytime, press the "End" key.

## Uppercase Entry

This mode allows you to enter uppercase letters, special characters or numbers based on the number of times a key is pressed. Each key has several letters and a number associated with it when it is pressed. To cycle through the available letters, the key is pressed until the desired letter is displayed.

**List of Characters Available**

| Key | Lower Case | Upper Case |
|-----|------------|------------|
| 1 | . % @ _ £ $ ¥ ¤ § | (Space). 1 ! ? & ¡ † § |
| 2 | a b c 2 à ƒ å æ Γ | A B C 2 Ŕ Å Æ Ç Γ |
| 3 | d e f 3 è é Φ | D E F 3 É Δ Φ |
| 4 | g h i 4 ì ψ | G H I 4 θ ψ |
| 5 | j k l 5 Λ | J K L 5 Λ |
| 6 | m n o 6 š ø ò ŕ | M N O 6 Š Ø Ŕ ö |
| 7 | p q r s 7 ß Σ Ξ | P Q R S 7 Π Σ Ξ |
| 8 | t u v 8 ù š | T U V 8 Š ü |
| 9 | w x y z 9 Ω | W X Y Z 9 Ω |
| 0 | / : - + ( ) < > | 0 * # , ; ' " = |

## Lowercase Entry

This mode is similar to uppercase mode, except it enters lowercase letters, special characters, and numbers.

## Number Entry

This mode allows you to enter just numbers that are associated with the keypad. No letters can be entered using this mode.

## Changing the Entry Mode

The text entry mode is displayed in the lower middle of the display. To change the mode:

1.  Press the right softkey.

# Phone Book

Your phone has a phone book that allows you to store names and numbers of commonly called people. The phone book is stored in two different places, the SIM card and the memory located in the phone. Even though the memory locations are located in two separate places, the phone book uses the memory as if it was one large block. Up to 399 different entries (99 in the phone memory, and up to 300 on the SIM card) can be stored in the phone book.

## Storing a New Number

When you start to dial a number using the keypad, the word "Save" is displayed in the bottom left of the screen.

1. Enter the number using the keypad that is going to be saved.
2. Press the "Save" softkey.
3. Enter the name of the entry using the desired text entry mode. For more information about entering text, see "Entering Information" on page 49.

**Note:** The maximum length of the name depends on the SIM card installed in the phone.

4. When finished entering the name, press the "OK" softkey. The first available memory location is displayed.
5. Press the right softkey to cycle between the SIM card and the Phone memory.
6. Press the "OK" softkey to save the number is the available memory location. To cancel

without saving the name and number, press the "End" key.

## Phone Book Options

When storing or viewing the phone book entries, "Options" is displayed in the lower left side of the screen.

The following options are available:

- Paste
- Edit
- Erase
- Copy
- Caller Group

### Accessing Options

1. Press the "Options" softkey to display the available options for the phone book entry.
2. Scroll up or down through the options using the arrow key or press the corresponding number on the keypad to select.

### Paste

This option allows you to paste the phone book number into the normal dialing mode. This is helpful if you need to dial a number similar to the one stored in the phone book. Use the back arrow softkey to edit the number.

To paste a number:

1. View the desired phone book entry.
2. Press the "Options" softkey.
3. Press "1" to "Paste" the number.
4. The number is displayed on the screen. Use the right softkey to delete one number at a time.

### Edit

This option allows you to edit the existing phone book entry.

To edit the entry:

1. View the desired phone book entry.
2. Press the "Options" softkey.
3. Press "2" to "Edit".
4. The name of the entry is displayed. Edit the name or press the "OK" softkey to continue.
5. The number of the entry is displayed. Edit the number or press the "Save" softkey to continue.
6. The entry is automatically saved.

### Erase

This option allows you to erase the phone book entry. A confirmation message is displayed to make sure that you want to permanently delete the message.

To delete an entry:

1. View the desired phone book entry.
2. Press the "Options" softkey.
3. Press "3" to "Erase".
4. Press the "Yes" softkey to delete the entry or "Cancel" to cancel the deletion.

### Copy

This option allows you to copy a phone number to a different location. Use this option to copy and paste an existing number into a new entry and then modify the number. Store the new number on the SIM card or in the phones memory.

To copy and edit an entry:

1. View the desired phone book entry.

2. Press the "Options" softkey.
3. Press ""4" for "Copy".
4. Select the desired memory location to copy the number into.
5. The phone book list is displayed with a duplicate entry.
6. Highlight the duplicate entry and press the "View" softkey.
7. Press the "Options" softkey.
8. Press "2" to edit the entry.

### Caller Group

The Caller Group allows you to assign the phone book entry to one of 5 different groups. You can also choose to select "No Group".

To set call group:

1. View the desired phone book entry.
2. Press the "Options" softkey.
3. Press "5" for "Caller Group".
4. The caller groups are displayed. Highlight the desired group and press the "Select" softkey.

## Searching and Dialing a Number

One of the most convenient features about the phone is the ability to save common names and phone numbers to allow easy dialing. No more looking up numbers in a day timer or regular phone book. Depending on the SIM card, the phone can store up to 300 different names and numbers. This allows you to keep all your friends and family's phone numbers with you at all times.

### Searching and Dialing

1. Press the "Name" softkey.
2. The following two choices are displayed:

- Search - This allows you to search the entries currently saved in the SIM Card and phone memory.

- Options - The following options are displayed:

    - Caller Group - Search listing by caller group.

    - Memory Status - Displays the available card memory available.

    - SDN - SIM Card Dependent.

3. Open the flip and enter the first few letters of the name you are looking for using the keypad.

4. Press the "Search" softkey.

**Note:** To display the entire contents of the phone book, just press the "Search" softkey without entering any search criteria.

5. Highlight the desired entry from the list and press the "Send" button.

**5**
# Menu Functions

As outlined in the menu tree("Menu Tree" on page 24), your phone is equipped with the following menus:

- Call Records
- Messages
- Tones
- Phone Settings
- Organizer
- Security
- Network Services
- WAP Browser

## Call Records

Call records are used to keep a list of missed, incoming, and outgoing calls on your phone. The time, date, and caller ID is displayed if available.

### Missed Calls

The last 10 missed calls are saved when you are away from your phone or just unable to answer an incoming call. A missed call is logged even if the caller leaves a voice mail message. When a missed call is received, a message is displayed to alert you that you missed the call. If the memory is already full, the oldest one is deleted to make room.

To view missed calls:

1. Open the flip and press the "Menu" softkey.
2. Press "1" for "Call Records".
3. Press "1" for Missed Calls"
4. The missed call list is displayed. Use the arrow keys to cycle through the missed calls.

### Incoming Calls

The calls 10 calls that are received and answered are saved in this log. The time, date, phone number, and caller name are all saved if available. If the memory is already full, the oldest incoming call entry is deleted to make room.

To view the incoming call list:

1. Press the "Menu" softkey.
2. Press "1" for "Call Records".
3. Press "2" for "Incoming Calls".
4. Use the arrow keys to cycle through the incoming calls.

### Outgoing Calls

A record of the last 10 outgoing calls are saved in the Outgoing call log. The time, date, phone number and caller name is saved if available. If the memory is already full, the oldest outgoing call is deleted to make room.

To view outgoing calls:

1. Press the "Menu" softkey.
2. Press "1" for "Call Records".
3. Press "3" for "Outgoing Calls".
4. Use the arrow keys to cycle through the incoming calls.

**Note:** In all Call Records (Missed, Incoming, and Outgoing), you can press the "Send" key to return or place a call if the caller ID information was saved.

### Delete All

The delete all option allows you to delete the Missed, Incoming, and Outgoing call logs.

To delete all:

1. Press the "Menu" softkey.
2. Press "1" for "Call Records".
3. Press "4" for "Delete All".
4. Press one of the following:
    - "1" for Missed Calls
    - "2" for Incoming Calls
    - "3" for Outgoing Calls
5. Press the "Yes" softkey to confirm deletion.

### Call Time

The amount of time spent on the phone is measured and saved. The following call times can be displayed:

- **Last Call** - Displays the call time of the last call made.
- **Total Outgoing** - Displays the total call time of all outgoing calls made from the phone.
- **Total Incoming** - Displays the total call time of all incoming calls.
- **Reset Timers** - Clears the above timers back to zero.

To access the call time:

1. Press the "Menu" softkey.
2. Press "1" for "Call Records".
3. Press "5" for "Call Time"
4. Press one of the following:
    - "1" for "Last Call"
    - "2" for "Total Outgoing".
    - "3" for "Total Incoming"

There is also a setting that resets all the timers back to zero.

To reset the call timers:

1. Press the "Menu" softkey.
2. Press "1" for "Call Records".
3. Press "5" for "Call Time"
4. Press "4" for "Reset Timers".
5. Enter your password and press the "OK" softkey.

## Messages

Your phone is capable of receiving voice mail notifications and text messaging. Each of these services is offered through your local carrier. For service information, please contact your carrier.

When a voice mail or text message is received, a notification is displayed on the screen and a tone is played to alert you that there is a new message available.

A text message is represented by an envelope icon. The voice mail message is represented by a reel-to-reel icon. If the message memory is full, an error message is displayed and you cannot receive any new messages. Delete older messages to insure that enough space is available.

### Reading Messages

When a text message is received, an alert is displayed on the screen. If the alert is dismissed, you can read your text messages by opening the "Read Messages" menu. When the Read Messages menu is opened, the header of the message is displayed. The following information is displayed in the open message:

- Message Number
- Message Status (New, Old, Not Sent, Sent)

To read messages:

1. Press the "Menu" softkey.
2. Press "2" for "Messages".
3. Press "1" for "Read Messages".

> •Press "1" for "Inbox" to read new or existing messages.

> •Press "2" for "Outbox" to view the messages that have already been written or saved, but not sent.

4. The header information of the first message is displayed. Press the "View" softkey to display the body of the message.
5. Press the Up/Down arrow to scroll through the message.

**Message Options**

The following options are available in the Read Messages menu:

- **Delete** - Allows you to delete old messages that are no longer needed to free up memory.
- **Text Reply** - This option allows you to reply by sending a new text message. You can also change the SMS number, send the message, save and send the message, save but not send the message.
- **Call Back** - Allows to call the sender of the message.
- **Cut Number** - Allows you to extract the phone number from the message text. The number can be saved in the phone book or called back.
- **Send** - Allows you to send a message that has not yet been sent.
- **Edit Message** - Allows you to edit the message.

## Write Messages

Your phone is equipped with Short Message Service (SMS). This allows you to send and receive

text messages from your phone. In the Write Messages menu you can write and edit text messages with up to 160 characters.

To write a new message:

1. Press the "Menu" softkey.
2. Press "2" for "Messages".
3. Press "2" for "Write Messages".
4. Enter the body of the message using the keypad. Select the desired mode of entry by pressing the right softkey.

**Note:** Each time the right softkey is pressed, a new mode is selected. The mode is displayed at the bottom of the screen.

5. Press the "OK" softkey when finished.
6. Select one of the options listed by pressing the corresponding numeric key:

    1 Send Only

    2 Save and Send

    3 Save Only

**Note:** When the message log is full, the envelope icon flashes and the only option available is "Send Only".

7. If "1" or "2" is selected, enter the destination number or select it from the phone book by pressing the "Name" softkey.
8. Press the "OK" softkey.

### Preset Message List

Using this menu you can save up to five different frequently used messages. The 5 default messages are:

---

- Call me when you get this message
- When can we meet?
- Where are you?
- Where is the meeting?
- Talk to you soon

You can scroll through the list by using the Up/ Down arrow key. The following options are available in the Preset Message List:

- **Edit** - Allows you to write a new message or edit the selected preset message.
- **Send Message** - Allows you to send the selected preset message.
- **Delete** - Allows you to delete the selected preset message.

To view the Preset Message List:

1. Press the "Menu" softkey.
2. Press "2" for "Messages".
3. Press "3" for "Preset Message List".

**Note:** If there are no preset messages, you can create new messages by pressing the "Options" softkey.

### Setup

All the default set up information for SMS is configured using this menu. There are two different menus in the Setup menu. They are:

- **VoiceStream**

    — Service Center - Allows you to save or change the phone number of the SMS center required for sending messages. This number is obtained from your local carrier.

— Default Type - Allows you to set the default message type. (Text and Email). The network converts the message into the selected format.

— Default Validity - Allows you to set the default time period for saving messages in the SMS center while they are attempting delivery. Possible values are; one hour, 6 hours, 24 hours, one week and Maximum.

— Setting Name - Allows you to change the name displayed in the Setup menu.

- **Common Setting**

  — Reply Path - This option turns On or Off the "Reply Path" option.

  — Delivery Reports - This option turns On or Off the "Delivery Reports" option.

  — Bearer Selection - This option allows you to choose between GSM and GPRS.

To access the Setup menu:

1. Press the "Menu" softkey.
2. Press "2" for "Messages".
3. Press "4" for "Setup".
4. Press "1" for "VoiceStream" or press "2" for "Common Settings".

### Broadcast

This service allows you to receive text messages on various topics, such as the weather, sports, or stock quotes. Text messages are displayed with the requested information when they are received.

The last five messages received are saved for later viewing. For more information, please contact your local carrier. The following options are available in the Broadcast menu:

- Read - Allows you to view the new broadcast message. Use the Up/Down arrow key to scroll through the message.
- Receive - This option enables or disables the broadcast option. This option must be enabled for you to receive broadcast messaging.
- Channel List - This list all the available channels. Channels currently selected are marked using an asterisk (*). When selected, you can edit, enable, disable, or delete the channel. The "Enter Channel" option allows you to enter a new channel to the list. Enter the channel ID and title for the new channel.
- Language - Allows you to select your desired language. The broadcast messages are sent in the language selected.

### Voice Mail

Voice mail messages are stored on the carrier's network. A notification message is sent by the network to your phone to alert you of a new message.

When you first contact the voice mail system, you are asked some simple questions to set up the new voice mail account. You must record your first and

last name and assign a password between 4 - 7 digits long. Follow the instruction prompts to properly set up the account.

**Connect to Voice mail:**

1. Open the flip and press the "Menu" softkey.
2. Press "2" for "Messages"
3. Press "6" for "Voice Mail".
4. Press "1" to connect.
5. Press "1" again or the "OK" softkey to confirm connection.
6. Follow the voice prompts.

**Note:** To connect to the voice mail system quickly, you can press and hold the "1" key.

### Voice Server Number

The Voice Server number can be changed depending on where you are located. If you make a trip to another country, you can modify the voice server number to connect to a local number. To access voice server number:

1. Open the flip and press the "Menu" softkey.
2. Press "2" for "Messages".
3. Press "6" for "Voice Mail".
4. Press "2" for "Voice Server Number".

## Tones

The tones menu is used to choose desired ringer types, compose melodies for custom ringers, and setup volume levels for the different tones available in the phone. The following options are available:

- Ring Tone
- Melody Composer
- Ring Volume
- Alert Type
- Keypad Tone
- Key Volume
- Message Tone
- Error Tone
- Minute Minder
- Connect Tone

### Ring Tone

This option allows you to select the type of ringer tone that you want to play for incoming calls and messages. Each time a tone is selected, it plays a sample ringer.

To access the ring tone:

1. Press the "Menu" softkey.
2. Press "3" for "Tones"
3. Press "1" for "Ring Tone".
4. Use the Up/Down arrow key to scroll through the available tones.
5. Press the "Select" softkey to save the tone as the new ringer.

### Melody Composer

The melody composer allows you to create your own custom ringer by composing notes. The notes

are composed by pressing the keypad and then using the Up/Down arrow to change the octave or pitch of the note. Three different octaves are available with a maximum of 100 notes. You can also adjust the rest and length of the note.

To compose a melody:

1. Press the "Menu" softkey.
2. Press "3" for "Tones".
3. Press "2" for "Melody Composer".
4. Select a memory location or existing melody from the list. Press the "Select" softkey.
5. The composer screen is displayed. Use the chart to compose the desired melody.

| Key | Note |
|-----|------|
| 1 | "C" - The first note in the musical scale.(do) |
| 2 | "D" (re) |
| 3 | "E" (mi) |
| 4 | "F" (fa) |
| 5 | "G" (soh) |
| 6 | "A" (la) |
| 7 | "B" (ti) |
| 8 | Move a note an octave higher or lower |

| Key | Note |
|-----|------|
| "Next" Softkey | Inserts the same note again. |
| "C" key | Delete a note. |
| Up or Down Navigation keys | Move a note a semi-tone up or down. |
| Left Navigation key | Change the length of a note. |
| "Listen" softkey | Listen to your melody. |
| "Modify" softkey | Modify your melody. |

**Note:** Use the "Next" softkey to select the previous notes when trying to modify.

6. Listen to the new melody by pressing the "Listen" softkey.
7. Press the "Save" softkey to indicate that you are satisfied with the melody.
8. Enter a name for the new tone.
9. Press the "OK" softkey to save.
10. Press the "Yes" softkey to save the new tone as the ring tone or "No" to just save in memory without changing the existing ring tone.

**Deleting a Melody**

1.  Select the melody that you want to delete from the melody composer list. Press the "Select" softkey.
2.  The composer screen is displayed with the notes.
3.  Press the "Delete" softkey .
4.  Press the "Yes" softkey to confirm deletion.

## Ring Volume

This setting allows you to adjust the desired ringer volume of the phone. There are five different levels of ringer volume. Use the volume keys located on the side of the phone to move the volume up or down.

Setting the ringer volume:

1.  Press the "Menu" softkey.
2.  Press "3" for "Tones".
3.  Press "3" for "Ring Volume".
4.  Use the Volume button located on the side of the phone to adjust the levels up or down.
5.  Press the "OK" softkey to save desired volume level.

## Alert Type

Allows you to configure how to be informed when new incoming calls are received. The following options are available:

> • **Light only** - Just the backlight is switched On with the caller ID information if available. The phone does not ring or vibrate.
> • **Melody** - The phone rings using the selected melody.

- **Vibration** - The phone vibrates when an incoming call is received. No ringer is heard.
- **Vibra+Melody** - The phone vibrates and rings when a new call is received.

To set the alert type:

1. Press the "Menu" softkey.
2. Press "3" for "Tones".
3. Press "4" for "Alert Type".
4. Select the desired option and press the "Select" softkey.

### Keypad Tone

Allows you to select the key tone type of tone that the keypad generates when the different keys are pressed.

The following options are available:

- **Off** - No sounds are made when the keys are pressed.
- **Tone** - Each key makes a unique sound when pressed. (Standard phone tones).
- **Beep** - each key makes the same beep noise when pressed.

To set the type of keypad tone:

1. Press the "Menu" softkey.
2. Press "3" for "Tones".
3. Press "5" for "Keypad Tone".
4. Select the desired option and press the "Select" softkey.

### Key Volume

Allows you to adjust the volume of the key tone when the keys are pressed on the keypad. The keys can also be configured to be silent.

To set the key volume:

1.  Press the "Menu" softkey.
2.  Press "3" for "Tones".
3.  Press "6" for "Key Volume".
4.  Select the desired level using the navigation or volume keys and press the "OK" softkey.

To turn the key volume Off:

1.  Press the "Menu" softkey.
2.  Press "3" for "Tones".
3.  Press "5" for "Key pad Tone".
4.  Press "1" for "Off".

**Message Tone**

This setting allows you to select how the phone informs you that a new message has been received.

**Note:** During a call, the message tone will not sound when a new SMS message is received. Instead, the light only indicates a new message is available.

The following options are displayed:

*   **SMS Tone** - Selects the alert for an incoming SMS message. The available choices are:

    *   Mode

    — Light Only

    — Vibration

    — Single

    — Periodic

    *   Tones

    — SMS Tone 1-10

- **CB Tone** - Selects an alert for an incoming cell broadcast.

    — Off

    — CB Tone 1-3

To set the message tone:

1. Press the "Menu" softkey.
2. Press "3" for "Tones".
3. Press "7" for "Message Tone".
4. Press "1" for "SMS Tone"
5. Press "1" for "Mode"
   Or

   Press "2" for "Tones".
6. Select the desired option and press the "Select" softkey.

### Error Tone

This setting allows you to select how the phone informs you when you make a mistake.

The following options are available:

- **Off** - The phone does not beep when an error occurs.
- **On** - The phone sounds a beep tone when a mistake is made.

To set the error tone:

1. Press the "Menu" softkey.
2. Press "3" for "Tones".
3. Press "8" for "Error Tone".

### Minute Minder

This setting allows you to have the phone beep every minute when you are on an outgoing call. This helps keep you informed of the length of the call.

The following options are available:

- **Off** - The phone does not beep.
- **On** - The phone beeps every minute.

To set the minute minder:

1. Press the "Menu" softkey.
2. Press "3" for "Tones".
3. Press "9" for "Minute Minder".

### Connect Tone

This setting allows you to have the phone beep when it connects to the network.

The following options are available:

- **Off** - The phone does not beep.
- **On** - The phone beeps when your call is accepted.

To set the connect tone:

1. Press the "Menu" softkey.
2. Press "3" for "Tones".
3. Press "0" for "Connect Tone".
4. Select the desired level using the navigation or volume keys and press the "OK" softkey.

## Phone Settings

The phone settings menu allows you to configure the phone preferences to make the phone easier to use. The following options are available in the Phone settings menu:

- Background Image
- Greeting Message
- Own Number
- Language
- Light
- Auto Redial
- Active Flip
- Anykey Answer
- LCD Contrast
- Car Kit Answer
- Reset Settings

### Background Image

The background image is displayed when the phone is in idle mode. The phone has several different choices:

- OFF
- Analog Clock
- My Message
- My Image 1
- My Image 2
- My Image 3

To set the background image:

1. Press the "Menu" softkey.
2. Press "4" for "Phone Settings".
3. Press "1" for "Background Image".
4. Select the desired option and press the "Select" softkey.

### Greeting Message

The greeting message allows you to set up a personal greeting message that displays for a few seconds when the phone is turned On.

To enter a greeting message:

1. Press the "Menu" softkey.
2. Press "4" for "Phone Settings".
3. Press "2" for "Greeting Message".
4. Enter the desired message using the keypad.
5. Press the "OK" softkey to save.

### Own Number

This menu allows you to enter your own name and number. If you have subscribed to ALS (Alternative Line Service), you can switch between services.

To access the own number menu:

1. Press the "Menu" softkey.
2. Press "4" for "Phone Settings".
3. Press "3" for "Own Number".

### Language

Your phone supports different languages in addition to English. The text and voice features are changed when the language setting is changed. The languages that are supported are:

- English
- Español
- Français

To access the language menu:

1. Press the "Menu" softkey.
2. Press "4" for "Phone Settings".
3. Press "4" for "Language".

### Light

This menu allows you to set the backlight and service light settings for the phone.

**Note:** If you turn off the backlight, there is an increase in the amount of available talk time.

The following options are available:

#### Backlight

This option allows you to configure the settings for the backlight.

The following options are available:

- **Off** - The backlight is not used.

- **Short** - The backlight is turned On when you press a key or receive a call. It turns Off 10 seconds after the last key is pressed.

- **Long** - The backlight is turned On when you press a key or a call is received. It turns Off 20 seconds after the last key is pressed.

To access the backlight menu:
1. Press the "Menu" softkey.
2. Press "4" for "Phone Settings"
3. Press "5" for "Light".
4. Press "1" for "Backlight"

#### Service Light

This setting allows you to turn On or Off the service light located on the top of the phone. The service light flashes to indicate service.

The following options are available:

- **On** - The service light flashes when the phone is ready for use.
- **Off** - The service light is not used.

To access the service light menu:

1. Press the "Menu" softkey.
2. Press "4" for "Settings".
3. Press "5" for "Light".
4. Press "2" for "Service Light".

### Auto Redial

This setting configures the phone to make up to 10 attempts to redial a number that is busy or not available.

The following options are available:

- **On** - The option is enabled. The number is re-dialed automatically.
- **Off** - The option is disabled.

To access the auto redial menu:

1. Press the "Menu" softkey.
2. Press "4" for "Phone Settings".
3. Press "6" for "Auto Redial".

### Active Flip

This setting configures the flip to answer or ignore an incoming call.

The following options are available:

- Disable
- Enable

To access the active flip option:

1. Press the "Menu" softkey.
2. Press "4" for "Phone Settings".
3. Press "7" for "Active Flip".

### AnyKey Answer

The any-key answer setting allows you to set up the phone to answer by pressing any key on the keypad. The only exception are:

- Pressing the "End" key
- Pressing and holding the volume key
- Pressing the "Reject" softkey.

Once the call is rejected, it is automatically forwarded to your voicemail.

The following anykey options are available:

- **On** - Enables the any-key answer option. Any key can be used to answer the phone.
- **Off** - The option is disabled and you must press the "Send" or "Accept" softkey or open the flip to answer an incoming call.

**Note:** Opening the flip answers all calls.

To access the any-key answer menu:

1. Press the "Menu" softkey.
2. Press "4" for "Phone Settings".
3. Press "8" for "Any-Key Answer".

### LCD Contrast

The contrast setting allows you to change the contrast of the display screen. Using the navigation button to change the contrast levels.

To access the contrast:

1. Press the "Menu" softkey.
2. Press "4" for "Phone Settings".
3. Press "9" for "Contrast".
4. Press the navigation button up or down until desired result is seen on the screen.
5. Press the "OK" softkey.

**Car Kit Answer**

This setting configures the phone to automatically answer an incoming call after 3, 5, or 10 seconds.

**Note:** This feature is only available with the Hands Free Car Kit accessory.

The following options are available:

- On - The option is enabled. The phone automatically answers incoming calls.
- Off - The option is disabled.

To access the Car Kit answer menu:

1. Press the "Menu" softkey.
2. Press "4" for "Settings".
3. Press "0" for "Car kit Answer".

**Reset Settings**

This setting is used to reset the phone to the factory default settings. Before you reset, the phone requests a 8 digit password.

**Note:** The password is preset to "00000000".

To access the reset menu:

1. Press the "Menu" softkey.
2. Press "4" for "Phone Settings".
3. Press "*" for "Reset Settings".
4. Enter the password and press the "OK" softkey.
5. Press the "OK" softkey to reset the phone.

## Organizer

The organizer feature allows you to schedule events, create a to do list, view a calendar, set the current date and time, set an alarm, and find out what time it is in other cities around the world.

The following options are available in the organizer menu:

- Calendar
- To Do List
- Time & Date
- Alarm
- Shortcut

### Calendar

This feature allows you to view the days of the calendar from 1996 - 2027.

- Use the "OK/Navigation" button to navigate the calendar screen.
- Press the "Menu" softkey for additional navigation options.

To view the calendar menu:

1. Press the "Menu" softkey.
2. Press "5" for "Organizer".
3. Press "1" for "Calendar".

### To Do List

This feature allows you to make a list of important tasks that need to be done. The list can be sorted using priorities and deadlines.

To create a new list:

1. Press the "Menu" softkey.
2. Press "5" for "Organizer".
3. Press "2" for "To Do List".
4. Press the "New" softkey.

5. Enter the name of the to do list.
6. Press the "OK" softkey.
7. Select the Priority level. (1= High, 2= Low).
8. Enter the desired "Until Date". Press the "OK" softkey.
9. Press the "Options" softkey.
10. The following options are displayed:

- **New** - Allows you to enter a new item.
- **Mark** - Allows you to mark an item or job.
- **Edit** - Allows you to edit an item in the list.
- **Sort** - Allows you to sort the list by priority or marking status.
- **Copy** - Copies one item into another.
- **Delete** - Deletes an item.
- **Delete All** - Deletes all items.
- **Exit** - Exits the To Do List.

### Time & Date

The Time & Date setting allows you to set the time, date, world time, and the desired format to display each on the screen.

To access the Time & Date settings:

1. Press the "Menu" softkey.
2. Press "5" for "Organizer".
3. Press "3" for "Time & Date".

#### Set Time

The set time setting allows you to set the correct time.

To access the Set Time menu:

1. Press the "Menu" softkey.
2. Press "5" for "Organizer".
3. Press "3" for "Time & Date".

---

4.    Press "1" for "Set Time".

**Set Date**

The set date setting allows you set the correct date.

To access the Set Date menu:

1.    Press the "Menu" softkey.
2.    Press "5" for "Organizer".
3.    Press "3" for "Time & Date".
4.    Press "2" for "Set Date".

**World Time**

This feature allows you to view the current time in 21 major cities around the world. Scroll through the cities using the navigation key. The screen displays the city name, current date and time, and the time difference between the selected city and your local time.

To access the world time menu:

1.    Press the "Menu" softkey.
2.    Press "5" for "Organizer".
3.    Press "3" for "Time & Date".
4.    Press "3" for "World Time".

**Format**

The format setting allows you to configure how the time and date are displayed on the screen.

The available choices are:

• Time Format:

— 24 Hours

— 12 Hours

• Date Format:

— YYYY/MM/DD

— DD/MM/YYYY

— MM/DD/YYYY

To access the format screen:

1. Press the "Menu" softkey.
2. Press "5" for "Organizer".
3. Press "3" for "Time & Date".
4. Press "4" for "Format".

### Alarm

This setting allows you to configure an alarm to ring at a desired time. The following alarms are available:

- **Once Alarm** - The alarm sounds only one time and is not repeated.
- **Daily Alarm** - The alarm sounds at the same time every day.
- **Weekly Alarm** - The alarm sounds at the same time every week.
- **Remove All Alarms** - Deletes the scheduled alarms.
- **Autopower** - If this option is enabled, the alarm will sound even if the phone is switched OFF.

To access the alarm menu:

1. Press the "Menu" softkey.
2. Press "5" for "Organizer".
3. Press "4" for "Alarm".
4. Press:

> "1" for "Once Alarm".
> "2" for "Daily Alarm".
> "3" for "Weekly Alarm".

"4" for "Remove All Alarms"

"5" for "Autopower".

5. Once an alarm is set, an alarm icon (bell) is displayed on the screen. To cancel the alarm when it sounds, open and close the flip or press the "Exit" softkey.

### Shortcut

The shortcut option allows you to map functions to the OK/Navigation button and Clear key. When the OK/Navigation button is moved up, down, left, or right when the phone is in idle mode, the shortcut to the menu function is performed.

The available options are:

- Key up (Calendar)
- Key down (Phone Book)
- Key right (Messages)
- Key left (Tones)
- C long press (Silent Mode)

To access the Shortcut menu:

1. Press the "Menu" softkey.
2. Press "5" for "Organizer".
3. Press "5" for "Shortcut".

## Security

The security menu allows you to restrict the usage of your phone to:

- Authorized people only.
- Specific calling.

Different codes and passwords are used to protect the features of your phone.

The following options are available in the security menu:

- PIN Check
- Change PIN
- Phone Lock
- Change Password
- SIM Lock
- FDN Mode
- Change PIN 2

**PIN Check**

When the PIN check feature is enabled, the phone requires a PIN number whenever the phone is turned On. If the incorrect PIN is entered, the phone will not power On.

**Note:** If you enter the PIN incorrectly three times, the phone is locked. You need to call your service provider for assistance.

The following options are available:

- **Enable** - You must enter a PIN each time the phone is turned On.
- **Disable** - The phone power On normally without requesting a PIN.

To access the PIN Check menu:

1. Press the "Menu" softkey.
2. Press "6" for "Security".

3.    Press "1" for "PIN Check".

**Change PIN**

This setting allows you to change the PIN number. The PIN feature must be enabled to access this option. The current PIN must be entered before a new PIN can be entered.

To access the change PIN menu:

1.    Press the "Menu" softkey.
2.    Press "6" for "Security"
3.    Press "2" for "Change PIN".
4.    Follow the screen prompts.

**Phone Lock**

When this setting is enabled, the phone is locked and requires you to enter a 4 digit password when the phone is powered On. The password is defaulted to "00000000" from the factory. Once the correct password is entered, the phone functions normally until it is switched Off.

The following options are available:

- • **Enable** - A password is required when the phone is powered On.
- • **Disable** - Phone operates normally, no passwords are required when the phone is powered On.

To access the phone lock menu:

1.    Press the "Menu" softkey.
2.    Press "6" for "Security".
3.    Press "3" for "Phone Lock".

**Change Password**

This setting allows you to change the current password in the phone. The current password must be entered before a new password can be entered. The password is defaulted to "00000000" from the factory.

To access the change password menu:

1. Press the "Menu" softkey.
2. Press "6" for "Security".
3. Press "4" for "Change Password".

**SIM Lock**

When the SIM lock feature is enabled, your phone only works with the current SIM card installed. If the SIM Card is removed, the phone is disabled. If a different SIM card is used, the phone still does not work.

**Note:** This setting is created by the user, there is no default. If the SIM Lock is entered incorrectly three times, the phone is locked.

The following options are available:

- **Enable** - SIM lock is enable and a password is assigned to the SIM card.
- **Disable** - The SIM lock is disabled. A password is required to disable SIM lock.

To access the SIM lock menu:

1. Press the "Menu" softkey.
2. Press "6" for "Security"
3. Press "5" for "SIM Lock".

**FDN Mode**

The FDN (Fixed Dial Number) mode, if supported by the SIM card, allows you to restrict your outgoing calls to a limited set of numbers. This option can be enabled or disabled.

1.  Press the "Menu" softkey.
2.  Press "6" for "Security"
3.  Press "6" for "FDN Mode".

**Change PIN2**

The Change PIN2 feature allows you to change your current PIN2 number to a different one. The current number must be entered before the PIN can be changed.

1.  Press the "Menu" softkey.
2.  Press "6" for "Security"
3.  Press "7" for "Change PIN2".

## Network Services

This menu contains the settings for the carrier's network that your phone is using. Please contact your local carrier to make sure they are supported.

The following options are available is the network services menu:

- Call Forwarding
- Call Waiting
- Network Selection
- Caller ID

### Call Forwarding

This setting allows you to forward your incoming calls to another number. When the call forwarding option is enabled, the phone does not ring or accept incoming calls. You can still make outgoing calls without any problems.

The following options are available:

- **Forward Always** - All incoming calls are forwarded to the specified number.
- **Busy** - Voice and data calls are forwarded if you are busy on an existing call.
- **No Reply** - This setting allows you to forward your voice and data calls to a specific number if the phone is not answered.
- **Unreachable** - If your phone is powered Off, or you are not in a coverage area, your incoming voice and data calls are forwarded to a specific number.
- **Cancel All** - All call forwarding options are cancelled and the phone is returned to normal operation.

To set up call forwarding:

1. Press the "Menu" softkey.

2.    Press "7" for "Network Services"
3.    Press "1" for "Call Forwarding".
4.    Press:

>   "1" for "Forward Always".
>   "2" for "Busy".
>   "3" for "No Reply".
>   "4" for "Unreachable".
>   "5" for "Cancel"

**Forward Always**

To forward all incoming calls to a specific number:

1.    Press the "Menu" softkey.
2.    Press "7" for "Network Services"
3.    Press "1" for "Call Forwarding".
4.    Press "1" for "Forward Always".
5.    Press:

>   "1" for "Voice Calls"
>   "2" for "Data Calls"

6.    Press the "Activate" softkey.
7.    Enter the number where you want to forward the calls.
8.    Press the "OK" softkey.

**Busy**

To forward all incoming calls when you are busy on an existing call:

1.    Press the "Menu" softkey.
2.    Press "7" for "Network Services"
3.    Press "1" for "Call Forwarding".
4.    Press "2" for "Busy"
5.    Press:

>   "1" for "Voice Calls".

"2" for "Data Calls".

6. Press the "Activate" softkey.
7. Enter the number where you want to forward the calls.
8. Press the "OK" softkey.

### No Reply

To forward all incoming calls to a specific number if there is no answer:

1. Press the "Menu" softkey.
2. Press "7" for "Network Services"
3. Press "1" for "Call Forwarding".
4. Press "3" for "No Reply"
5. Press:

   "1" for "Voice Calls".
   "2" for "Data Calls".

6. Press the "Activate" softkey.
7. Enter the number where you want to forward the calls.
8. Press the "OK" softkey.

### Unreachable

To forward all incoming calls when you are outside of your coverage area or the phone is powered Off:

1. Press the "Menu" softkey.
2. Press "7" for "Network Services"
3. Press "1" for "Call Forwarding".
4. Press "4" for "Unreachable"
5. Press:

   "1" for "Voice Calls".
   "2" for "Data Calls".

6. Press the "Activate" softkey.

7.  Enter the number where you want to forward the calls.

8.  Press the "OK" softkey.

**Cancel All**

To cancel all the forwarding options and return the phone to the default settings:

1.  Press the "Menu" softkey.
2.  Press "7" for "Network Services"
3.  Press "1" for "Call Forwarding".
4.  Press "5" for "Cancel All"

## Call Waiting

This setting allows you to be informed when another person is calling when you are already on an existing call.

The following options are available:

- Voice Calls
- Data Calls
- Cancel All

To set up call waiting:

1.  Press the "Menu" softkey.
2.  Press "7" for "Network Services"
3.  Press "2" for "Call Waiting".

**Voice Calls**

To setup call waiting for all incoming voice calls:

1.  Press the "Menu" softkey.
2.  Press "7" for "Network Services"
3.  Press "2" for "Call Waiting".
4.  Press "1" for "Voice Calls".
5.  Press the "Activate" softkey.

**Data Calls**

To setup call waiting for all incoming data calls:

1. Press the "Menu" softkey.
2. Press "7" for "Network Services".
3. Press "2" for "Call Waiting".
4. Press "2" for "Data Calls"
5. Press the "Activate" softkey.

**Cancel All**

To cancel the Call Waiting options and return the phone to the default settings:

1. Press the "Menu" softkey.
2. Press "7" for "Network Services"
3. Press "2" for "Call Waiting".
4. Press "3" for "Cancel All".

## Network Selection

This setting allows you to select the proper network for the phone.

The following options are available:

- Automatic - Automatically searches to find the network.
- Manual - List where you choose multiple networks.

To access the network selection menu:

1. Press the "Menu" softkey.
2. Press "7" for "Network Services".
3. Press "3" for "Network Selection".

**Automatic**

To configure the phone to search for the carrier's network automatically:

1. Press the "Menu" softkey.

2.   Press "7" for "Network Services"
3.   Press "3" for "Network Selection".
4.   Press "1" for "Automatic".

**Manual**

To manually configure the carrier's network settings:

1.   Press the "Menu" softkey.
2.   Press "7" for "Network Services"
3.   Press "3" for "Network Selection".
4.   Press "2" for Manual".
5.   Select the name from the list and press the "OK" softkey.

## Caller ID

This setting allows you to view caller information on the display screen.

The following options are available:

- **Default** - The default setting by the network is used.
- **Hide Number** - This option hides your number when calling someone else. It keeps your information from showing on the other phones display screen.
- **Send Number** - This option sends your number so that the other persons display screen shows your information.

To access the line identification menu:

1.   Press the "Menu" softkey.
2.   Press "7" for "Network Services"
3.   Press "4" for "Caller ID".

**Default**

To enable the Caller ID option:

1. Press the "Menu" softkey.
2. Press "7" for "Network Services".
3. Press "4" for "Caller ID".
4. Press "1" for "Default".

**Hide Number**

To hide your information:

1. Press the "Menu" softkey.
2. Press "7" for "Network Services".
3. Press "4" for "Caller ID".
4. Press "2" for "Hide Number".

**Send Number**

To send your information:

1. Press the "Menu" softkey.
2. Press "7" for "Network Services".
3. Press "4" for "Caller ID".
4. Press "3" for "Send Number".

## WAP Browser

Your phone is equipped with a fully functional web browser. The browser is different from a standard web browser found on a desktop PC. The browser on the phone is a text based browser. Most of the graphics are not displayed, which allows faster page downloads. The local carrier offers a web based service option that supports the browser that is installed on the phone. For more information about subscription rates and fees, contact your local carrier.

### Launching the browser

1. Press the "Menu" softkey.
2. Press "8" for "WAP Browser".

**Note:** You can also press the "Internet" key for quick launch of the browser.

**Note:** Press "End" to exit the browser.

### Navigating in the Browser

The navigation controls of the browser are the keypads and buttons on the phone. Use the softkeys and keypad to navigate to the desired location.

The following options are available in the browser:

- **Home** - Returns to the browser home page.
- **http://** - Allows you to enter a web address using the keypad.
- **Clear Cache** - Deletes the cache files saved in memory.

# Usage Guidelines: Performance and Safety

## Understanding Signal Strength

The quality of each call you make or receive, is dependent upon the signal strength in your area. Your phone informs you of the current signal strength by displaying a icon. The more bars displayed, the stronger the signal. The signal strength indicator ( $\mathbf{T}_{ll}$ ) displays in the upper left corner of your display screen.

## Specifications are Subject to Change

The information contained in this manual is believed to be correct at the time of printing, however, Samsung reserves the right to change or modify any of the specifications without notice or obligation to update existing units.

## Exposure To Radio Frequency Signals

Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also transmits radio frequency (RF) signals

In August, 1996. the Federal Communications Commission (FCC) adopted RF exposer guidelines with safety levels for hand-held wireless phones. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:

- ANSI C95.1 (1992)
- NCRP Report 86 (1986)
- ICNIRP (1996)

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI standard (C95.1).

The design of your phone complies with the FCC guidelines (and those standards).

### Antenna Care

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.

### Phone Operation

NORMAL POSITION: Hold the phone as you would any other telephone with the antenna pointed up and over your shoulder.

### Operating a Motor Vehicle

Check the laws and regulations on the use of wireless telephones in the areas where you drive. Always obey them. Also, if using your phone while driving, please:

- Give full attention to driving - driving safely is your first responsibility.
- Use hands free operation, if available.

### Electronic Devices

Most modern electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone.

### Pacemakers

The Health Industry Manufacturers Association recommends that a minimum separation of six (6") inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Persons with pacemakers:

- Should ALWAYS keep the phone more than six inches from their pacemaker when the phone is turned ON;
- Should not carry the phone in a breast pocket;
- Should use the ear opposite the pacemaker to minimize the potential for interference;
- If you have any reason to suspect that interference is taking place, turn your phone OFF immediately.

### Other Medical Devices

If you use any other personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Turn 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

Turn your phone Off in any facility where posted notices so require.

## Aircraft

FCC regulations prohibit using your phone while in the air. Switch Off your phone before boarding an aircraft.

## Blasting Areas

To avoid interfering with blasting operations, turn your phone Off when in a "blasting area" or in areas posted: "Turn off two-way radio". Obey all signs and instructions.

## Potentially Explosive Atmospheres

Turn your phone Off when in any area with a potential 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.

Areas with a potentially explosive atmosphere are often, but not always clearly marked. They include fueling areas such as gasoline stations; below deck on boats; fuel or chemical transfers 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; any other area where you would normally be advised to turn Off your vehicle engine.

**For Vehicles Equipped with an Air bag**

An air bag inflates with tremendous 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 in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

**Storing your phone**

You must not store or carry your phone, its parts, or accessories in the same compartment or other area where there flammable liquids, gases, or explosive or flammable materials.

**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 will invalidate 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 hardware and can be broken. Use common-sense guidelines to avoid dropping, hitting, bending, or sitting on it.

**Information to User**

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential

installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation; if this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1.  Reorient / Relocate the receiving antenna.
2.  Increase the separation between the equipment and receiver.
3.  Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4.  Consult the dealer or an experienced radio/ TV technician for help.

**CAUTION:** Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

# Your Phone as a Network Device

Your telephone requires a service provider to send and receive calls. Your phone is only one part of a system or "network" of devices that makes it possible for you to send and receive calls, text messages, voice message, access the Internet using the minibrowser, and to take advantage of all of the other services and features available when your phone is used with your service provider.

# FCC and Industry Canada Notice

## Cautions

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## FCC Compliance Information

This device complies with part 15 of the FCC Rules. Operation and is subject to the condition that this device does not cause harmful interference.

### Owner's Record

The model number, regulatory number and serial number are located on a nameplate inside the battery compartment. Record the serial number in the space provided below. This will be helpful if you need to contact us about your phone in the future.

Model:

Serial No.:

# Safety Information

The U.S. Food and Drug Administration's Center for Devices and Radiological Health Consumer Update on Mobile Phones

FDA has been receiving inquiries about the safety of mobile phones, including cellular phones and PCS phones. The following summarizes what is known–and what remains unknown–about whether these products can pose a hazard to health, and what can be done to minimize any potential risk. This information may be used to respond to questions.

Why the concern?

Mobile phones emit low levels of radio frequency energy (i.e., radio frequency radiation) in the microwave range while being used. They also emit very low levels of radio frequency energy (RF), considered non-significant, when in the stand-by mode. It is well known that high levels of RF can produce biological damage through heating effects (this is how your microwave oven is able to cook food). However, it is not known whether, to what extent, or through what mechanism, lower levels of RF might cause adverse health effects as

well. Although some research has been done to address these questions, no clear picture of the biological effects of this type of radiation has emerged to date. Thus, the available science does not allow us to conclude that mobile phones are absolutely safe, or that they are unsafe. However, the available scientific evidence does not demonstrate any adverse health effects associated with the use of mobile phones.

What kinds of phones are in question?

Questions have been raised about hand-held mobile phones, the kind that have a built-in antenna that is positioned close to the user's head during normal telephone conversation. These types of mobile phones are of concern because of the short distance between the phone's antenna– the primary source of the RF–and the person's head. The exposure to RF from mobile phones in which the antenna is located at greater distances from the user (on the outside of a car, for example) is drastically lower than that from hand-held phones, because a person's RF exposure decreases rapidly with distance from the source. The safety of so-called "cordless phones," which have a base unit connected to the telephone wiring in a house and which operate at far lower power levels and frequencies, has not been questioned.

How much evidence is there that hand-held mobile phones might be harmful?

Briefly, there is not enough evidence to know for sure, either way; however, research efforts are on-going. The existing scientific evidence is conflicting and many of the studies that have been done to date have suffered from flaws in their

research methods. Animal experiments investigating the effects of RF exposures characteristic of mobile phones have yielded conflicting results. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. In one study, mice genetically altered to be predisposed to developing one type of cancer developed more than twice as many such cancers when they were exposed to RF energy compared to controls. There is much uncertainty among scientists about whether results obtained from animal studies apply to the use of mobile phones. First, it is uncertain how to apply the results obtained in rats and mice to humans. Second, many of the studies that showed increased tumor development used animals that had already been treated with cancer-causing chemicals, and other studies exposed the animals to the RF virtually continuously–up to 22 hours per day.

For the past five years in the United States, the mobile phone industry has supported research into the safety of mobile phones. This research has resulted in two findings in particular that merit additional study:

1.In a hospital-based, case-control study, researchers looked for an association between mobile phone use and either glioma (a type of brain cancer) or acoustic neuroma (a benign tumor of the nerve sheath). No statistically significant association was found between mobile phone use and acoustic neuroma. There was also no association between mobile phone use and gliomas when all types of types of gliomas were considered together. It should be noted that the

average length of mobile phone exposure in this study was less than three years.

When 20 types of glioma were considered separately, however, an association was found between mobile phone use and one rare type of glioma, neuroepithelliomatous tumors. It is possible with multiple comparisons of the same sample that this association occurred by chance. Moreover, the risk did not increase with how often the mobile phone was used, or the length of the calls. In fact, the risk actually decreased with cumulative hours of mobile phone use. Most cancer causing agents increase risk with increased exposure. An ongoing study of brain cancers by the National Cancer Institute is expected to bear on the accuracy and repeatability of these results.

2. Researchers conducted a large battery of laboratory tests to assess the effects of exposure to mobile phone RF on genetic material. These included tests for several kinds of abnormalities, including mutations, chromosomal aberrations, DNA strand breaks, and structural changes in the genetic material of blood cells called lymphocytes. None of the tests showed any effect of the RF except for the micronucleus assay, which detects structural effects on the genetic material. The cells in this assay showed changes after exposure to simulated cell phone radiation, but only after 24 hours of exposure. It is possible that exposing the test cells to radiation for this long resulted in heating. Since this assay is known to be sensitive to heating, heat alone could have caused the abnormalities to occur. The data already in the literature on the response of the micronucleus

assay to RF are conflicting. Thus, follow-up research is necessary.

FDA is currently working with government, industry, and academic groups to ensure the proper follow-up to these industry-funded research findings. Collaboration with the Cellular Telecommunications Industry Association (CTIA) in particular is expected to lead to FDA providing research recommendations and scientific oversight of new CTIA-funded research based on such recommendations.

Two other studies of interest have been reported recently in the literature:

1. Two groups of 18 people were exposed to simulated mobile phone signals under laboratory conditions while they performed cognitive function tests. There were no changes in the subjects' ability to recall words, numbers, or pictures, or in their spatial memory, but they were able to make choices more quickly in one visual test when they were exposed to simulated mobile phone signals. This was the only change noted among more than 20 variables compared.

2. In a study of 209 brain tumor cases and 425 matched controls, there was no increased risk of brain tumors associated with mobile phone use. When tumors did exist in certain locations, however, they were more likely to be on the side of the head where the mobile phone was used. Because this occurred in only a small number of cases, the increased likelihood was too small to be statistically significant.

In summary, we do not have enough information at this point to assure the public that there are, or are not, any low incident health problems

associated with use of mobile phones. FDA continues to work with all parties, including other federal agencies and industry, to assure that research is undertaken to provide the necessary answers to the outstanding questions about the safety of mobile phones.

What is known about cases of human cancer that have been reported in users of hand-held mobile phones?

Some people who have used mobile phones have been diagnosed with brain cancer. But it is important to understand that this type of cancer also occurs among people who have not used mobile phones. In fact, brain cancer occurs in the U.S. population at a rate of about 6 new cases per 100,000 people each year. At that rate, assuming 80 million users of mobile phones (a number increasing at a rate of about 1 million per month), about 4800 cases of brain cancer would be expected each year among those 80 million people, whether or not they used their phones. Thus it is not possible to tell whether any individual's cancer arose because of the phone, or whether it would have happened anyway. A key question is whether the risk of getting a particular form of cancer is greater among people who use mobile phones than among the rest of the population. One way to answer that question is to compare the usage of mobile phones among people with brain cancer with the use of mobile phones among appropriately matched people without brain cancer. This is called a case-control study. The current case-control study of brain cancers by the National Cancer Institute, as well as

the follow-up research to be sponsored by industry, will begin to generate this type of information.

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

Under the law, FDA does not review the safety of radiation-emitting consumer products such as mobile phones before marketing, as it does with new drugs or medical devices. However, the agency has authority to take action if mobile phones are shown to emit radiation at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of mobile 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 at this time, FDA has urged the mobile phone industry to take a number of steps to assure public safety. The agency has recommended that the industry:

• support needed research into possible biological effects of RF of the type emitted by mobile phones;

• design mobile phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and

• cooperate in providing mobile phone users with the best possible information on what is known about possible effects of mobile phone use on human health.

At the same time, FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of mobile phone safety to ensure a coordinated effort at the federal level. These agencies are:

• National Institute for Occupational Safety and Health

• Environmental Protection Agency

• Federal Communications Commission

• Occupational Health and Safety Administration

• National Telecommunications and Information Administration

The National Institutes of Health also participates in this group.

In the absence of conclusive information about any possible risk, what can concerned individuals do?

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 people are concerned about avoiding even potential risks, there are simple steps they can take to do so. For example, time is a key factor in how much exposure a person receives. Those persons who spend long periods of time on their hand-held mobile phones could consider holding lengthy conversations on conventional phones and reserving the hand-held models for shorter conversations or for situations when other types of phones are not available.

People who must conduct extended conversations in their cars every day could switch to a type of mobile phone that places more distance between their bodies and the source of the RF, since the exposure level drops off dramatically with distance. For example, they could switch to:

• a mobile phone in which the antenna is located outside the vehicle,

• a hand-held phone with a built-in antenna connected to a different antenna mounted on the

outside of the car or built into a separate package, or

• a headset with a remote antenna to a mobile phone carried at the waist.

Again, the scientific data do not demonstrate that mobile phones are harmful. But if people are concerned about the radio frequency energy from these products, taking the simple precautions outlined above can reduce any possible risk.

Where can I find additional information?

For additional information, see the following websites:

Federal Communications Commission (FCC) RF Safety Program (select "Information on Human Exposure to RF Fields from Cellular and PCS Radio Transmitters"): http://www.fcc.gov/oet/rfsafety

World Health Organization (WHO) International Commission on Non-Ionizing Radiation Protection (select Qs & As): http://www.who.int/emf

United Kingdom, National Radiological Protection Board: http://www.nrpb.org.uk

Cellular Telecommunications Industry Association (CTIA): http://www.wow-com.com

U.S. Food and Drug Administration (FDA) Center for Devices and Radiological Health: http://www.fda.gov/cdrh/consumer/