

# SCH-A670 Series

A l l D i g i t a l  
M o b i l e P h o n e

## User Guide

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

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# SCH-A670 closed view



# SCH-A670 open view





# Quick Reference

## 1) MY METRO

- 1) Monthly Bill
- 2) MetroConnect
- 3) MetroPCS Card

## 2) CONTACTS

- 1) Find
- 2) Add
- 3) Rename Group
- 4) My Phone#
- 5) Memory

## 3) CALLS

- 1) Outgoing
- 2) Incoming
- 3) Missed
- 4) Erase Logs
- 5) Call Timer
- 6) Data Counter

## 4) MESSAGES

- 1) New Text Msg
- 2) New Pix Msg
- 3) Voice Mail
- 4) Inbox
- 5) Outbox
- 6) Draft Box
- 7) Saved Box
- 8) Web Alert
- 9) Msg Setting
- 0) Erase Msg

## 5) @METRO

- 1) @metro

## 6) MOBILE WEB

- 1) Get In Web

## 7) CAMERA

- 1) Take a Picture
- 2) Take a Video
- 3) Picture Gallery
- 4) Video Gallery
- 5) Settings

## 8) TOOLS

- 1) Voice Kit
- 2) Today
- 3) Scheduler
- 4) Jump To Date
- 5) To Do List
- 6) Memo Pad
- 7) Count Down
- 8) Alarm Clock
- 9) World Time
- 0) Calculator

## 9) SETUP

- 1) Location
- 2) Display
- 3) Sounds
- 4) Network
- 5) Security
- 6) Call Options
- 7) Shortcut
- 8) Language
- 9) Clock Set
- 0) Version

## Navigation Key Shortcuts




\*Voice Memo can be customized. Press the left soft key (☰) Menu, then press .






## Quick Reference (cont.)

### Turn the Phone On and Off

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

### Check Voice Mail

In standby mode, press and hold .








### Enter/Exit Silent Mode

• In standby mode, press and hold . To exit, press and hold  again.





### Set Call Ringer Volume

- In standby mode, press the volume key on the left side of the phone.
- Press the volume key up or down to set the call ringer volume as desired.




### Change Wallpaper for the Main LCD

1. In standby mode, press the left soft key () **Menu**, then press , , , .
2. Use the navigation up/down keys to navigate the wallpaper source, then press . You may need to repeat this step for sub menus.
3. Use the navigation key to highlight your choice of wallpaper, then press .




### Save a Number Quickly

1. In standby mode, enter the number you want to save using the keypad.
2. Press . With **New Entry** highlighted, press  again.
3. Select the number type using the navigation keys, then press .
4. Enter a name for the entry using the keypad, then press .


### View Software and Hardware Information

• In standby mode, press the left soft key () **Menu**, then press , .

### View Today's Calendar

• In standby mode, press the left soft key () **Menu**, then press , .

### Name Dial an Entry in Contacts

1. Press and hold  to open the **Voice** menu.
2. When the **Voice** menu appears, say "Name Dial."
3. You're prompted to say the name. Say the name exactly as it is entered in your Contacts.
4. The entry appears in the display and the number associated with the name is dialed.



# Introduction

Congratulations on your purchase of the Samsung SCH-A670 mobile phone. The SCH-A670 offers a mixture of features such as a high-resolution display, PIM (Personal Information Manager) functions, a built-in digital camera with flash and video capture capabilities, voice recognition applications, and more. We ask that you take time to read this guide and become familiar with your phone's many features.

## Key features of the SCH-A670

- High-Resolution Color Display
- Video Capture
- High Speed Data (CDMA 2000 1X Technology)
- Global Positioning Technology (GPS)
- PIM Functions (Scheduler, To-do-list, etc.)
- Short Message Service (SMS)
- Pix Messaging
- Voice Recognition Applications
- Built-In Digital Camera With Flash
- 16 Polyphonic Ringtones

## How to use this guide

The chapters for this guide are arranged in similar order to the menus and sub menus in your phone. A robust index for quick reference to most features begins on page 165. Also included is important safety information that you should know before using your phone. Most of this information is near the back of the guide, beginning on page 133.

## Install the battery

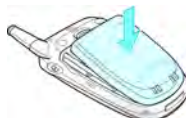
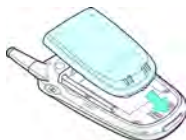


This phone comes packaged with a partially charged rechargeable standard Li-Ion battery and travel charger.




**Important!** The phone can be used while the battery is charging, but must be fully charged before first use, otherwise you could damage the battery.

1. Insert the bottom end of the battery into the phone with the label side down. Match the gold contacts on the battery to those on the phone.
2. Push the top end of the battery down until it snaps into place.



## Remove the battery

1. Press and hold  to turn off the phone (if on).
2. Pull the battery release latch toward the top of the phone. The top of the battery should pop up.
3. Use your finger to lift the battery (top end first) up and away from the phone.

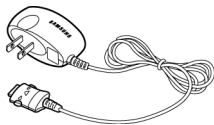


## Charge the battery

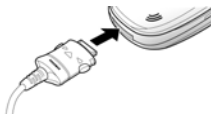
Your phone is powered by a rechargeable standard Li-Ion battery. Only use Samsung-approved charging devices and batteries. Samsung accessories are designed to maximize battery life. **Using other accessories may invalidate your warranty and may cause damage.**

### Use the travel charger

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






1. Plug the large end of the travel charger into a standard 120 or 220 VAC wall outlet.
2. Remove the small plastic plug from the charger/accessory connector in the bottom end of the phone.
3. Insert the smaller end of the adapter, arrow side up, into the charger/accessory connector until it clicks into place.



**Tip:** You can use your phone while charging, however, the battery charges faster if the phone is turned off.

## Battery indicator

The battery indicator (  ) in the upper-right corner of the display indicates power level. Three bars indicate a full charge, while an empty battery icon (  ) indicates a near empty battery. Two to three minutes before the battery is too low to operate, a blinking empty battery icon (  ) appears and a tone sounds. If you continue to use the phone without charging, it shuts down. Monitor the battery strength and ensure your battery is adequately charged.

# Understand your phone

## The antenna

Avoid touching the antenna while the phone is powered up. Contact with the antenna affects the quality of your calls and may cause the phone to operate at a higher power level than necessary. Before placing calls, make sure the antenna is fully extended for best signal quality.







## Backlight features

The amount of time that the display and backlight remain illuminated after a period of inactivity can be adjusted. Keep in mind that increasing these settings reduces battery life.









Folder Open enables the keypad or display backlight to remain on as long as the folder is open.

---


1. In standby mode, press the left soft key (  ) **Menu**.
2. Press , ,  for **Backlight**. The following backlight options appear in the display.
  - 1 **Lcd**
  - 2 **Keypad**
  - 3 **Power save**
3. Use the navigation key to highlight **Lcd** or **Keypad**, then press .
4. Use the navigation key to highlight the amount of time that you want the keypad or display to remain illuminated after a period of inactivity, then press .




## Power Save mode

Unless the backlight setting for the LCD has been changed, the backlight dims after a minute of inactivity, and then turns off. With Power save enabled, the backlight is always dim. After approximately one minute of inactivity, Power save turns the backlight off. To enable or disable Power save:


1. In standby mode, press the left soft key () **Menu**.
2. Press , ,  for **Backlight**. The following backlight options appear in the display.
  - 1 **Lcd**
  - 2 **Keypad**
  - 3 **Power save**
3. Use the navigation key to highlight **Power save**, then press . **Off** and **On** appear in the display.
4. Use the navigation key to highlight **On** or **Off**, then press .





## Left soft key

Functions for the left soft key () are defined by what appears above it in the display. Some functions of the left soft key are as follows.



- Press the left soft key () **Menu** to display the first of several menus.
- Press the left soft key () **Option** to view options in some cases.
- Press the left soft key () in response to prompts for browser charges and other instances.





## Right soft key

Functions for the right soft key () are defined by what appears above it in the display. Some, but not all functions of the right soft key are as follows:




- Press the right soft key () **Back** to return to the standby mode from any main menu.
- Press the right soft key () **Back** to return to the previous menu from a sub menu.
- In standby mode, press the right soft key () **Contacts** to enter the Contacts list.
- In camera mode, press the right soft key () **Gallery** to view stored pictures.

## Clear key

The CLR key () is used to erase or clear letters, numbers, or characters from the display. You can also use the CLR key () to return to a previous menu or return to standby mode from any menu.

- Press  to backspace and delete.
- To erase all digits or characters from the display screen, press and hold .
- To back up one menu level, briefly press .
- To return to standby mode from any menu, press and hold  until you return to standby mode.

## End key

- Press and hold  to turn on your phone.
- Press and hold  to turn off your phone.
- Press  once to disconnect a call, return to standby mode, or cancel any input.

## Headset connector

The headset connector is the input jack for the optional hands-free headset. The headset includes an earbud and microphone in a convenient, lightweight unit so you can talk without using your hands.


- Before connecting the headset, gently pry open the cover of the input jack on the phone to expose the connector inside.

## Service LED

The Service LED on the top of the phone has the following functions.

- Lights red while charging. Green when charging is complete.
- Flashes to indicate an incoming call or message.
- Lights momentarily when you power up the phone and flashes red when the phone is in need of a charge.

## Microphone

The microphone, located beneath  on the keypad, is used for conversation, voice setup, and recording voice memos.


## Alpha-Numeric keypad





Use the alpha-numeric keypad to enter text, numbers, and special characters.

## Speaker


The speaker, on the front of the flip, plays sounds such as ring tones and alerts.

## Send key




The SEND key () is used to answer calls, dial calls, and to recall the last number dialed:

- Press  once to answer calls.
- Enter a number and press  once to connect a call.
- Press  once in standby mode to display the most recently dialed number.
- Press  twice in standby mode to call the most recently dialed number.

## Navigation key

Use any of the four directional keys on the navigation key to browse menus, sub menus, and lists. Each of the four keys also act as a shortcut to launch specific applications. The up navigation key is user definable, however. Use the () key for such things as replying to or confirming prompts, and jumping to highlighted links on the web.

## Camera key

- In standby mode, press and hold the camera key () on the right side of the phone to activate the camera.
- Press the camera key () a second time to snap a picture.
- In standby mode, briefly press the camera key () to display camera sub menus.

## Your phone's display

The top line of the display is reserved for icons that indicate such things as network status, battery power, signal strength, and connection type. Other icons may appear elsewhere in the display as well. The following table lists some of these icons, along with their descriptions.

## Display screen icons



**Signal strength:** Always appears when your phone is on and indicates the current signal strength. More lines indicate higher signal strength.



**Service indicator:** Indicates a call in progress. When dialing a number, this icon flashes until the call connects.



**No service indicator:** Indicates your phone cannot find a signal because you're outside a service area. You cannot make or receive calls. Wait for a signal or move into an open area to try and find a signal. The no service indicator always appears when you turn on your phone and disappears once service is located.



**Roam:** Extended roaming indicator. Roaming occurs when your phone is outside the home area. While roaming, a wireless provider's system other than MetroPCS may be handling your call, so the service rate for the call may be higher than those a call within your home area. Please refer to information from MetroPCS on roaming rates.



**New Message:** Indicates that you've received a new voice, text, page or web alert message. You're also notified by a visual and audible alert.



**1X Protocol:** Indicates your phone is using the 1X protocol. The 1X protocol is capable of high-speed data (3G).



**IS95-2G Protocol:** Indicates your phone is using the IS95-2G protocol. This protocol is not capable of high speed data.



**Vibrate mode:** Indicates your phone is in vibrate mode (ringer is silent).



**Battery strength:** Indicates the battery charge level. The more black bars, the greater the charge. When the battery becomes very low, a flashing empty battery icon displays and the phone sounds an audible alert, which indicates your phone is about to shut down.



**Alarm clock:** The alarm clock is set.



**Silent mode:** Indicates your phone is in silent mode. ringer is silenced for all alerts, incoming calls, and incoming messages. The phone alerts you of incoming calls, alerts, or messages by vibration and a flashing Service LED.



**GPS (911 only):** This icon represents Global Positioning Service (GPS) for 911.



**GPS:** Indicates GPS is on for location.



**Flash in use:** Indicates the camera flash is set to On.



**Self Timer in use:** Delays the camera shutter from 5 to 10 seconds after you activate the camera shutter.







**Multi Shot in use:** Snaps multiple pictures after the camera shutter button is activated. The number of pictures snapped depends upon the resolution setting.

# Your phone's modes

## Call Answer mode


You can select how you want to answer a call.

1. In standby mode, press the left soft key ( **Menu**), then press , , . The following call answer options appear in the display.


**Send Key**

**Folder Open**


**Any Key**

2. Use the navigation key to highlight an option.
3. Press  to select the method for answering calls.

## Input mode

Input mode determines how you enter text, numbers and symbols. While at any text entry screen, press left soft key ( **Option**), then choose the input mode from the pop-up menu using the navigation key. Optional input modes are **T9 Word**, **ABC**, **Symbol**, and **123**, and **Canned Msg**.




**Tip:** You can also cycle between T9 Word, ABC, and 123 by repeatedly pressing and holding .

## Lock mode



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

## Standby mode

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



- After you power it on.
- When you press  after a call.

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


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

## Receive messages in standby mode

You can receive messages in standby mode. An alert tone sounds and a notification message appears in the display when a new message arrives.



- Press the right soft key () **View** to view now.
- Press the left soft key () **Ignore** to view later.

## Talk mode



You can place and receive calls only when your phone is on. While in a call your phone is in talk mode. Press the left soft key () **Menu** to display a list of menu options. See “In-Use menu” on page 28 for more information.

## Enter/Exit Silent mode



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

- In standby mode, press and hold . **Entering Silent Mode** briefly appears in the display and your phone returns to standby mode.
- While in Silent mode and standby mode, press and hold . **Exit Silent Mode** briefly appears in the display and your phone returns to standby mode.






## Vibrate mode

- In standby mode, repeatedly press the volume key () down until **Vibrate** appears in the display. The volume key is on the left side of phone, next to the SEND key ().


## Adjust the ringer

1. In standby mode, press the volume key () on the left side of the phone up or down. Options are:
  - **Silent**
  - **1-Beep**
  - **Vibrate**
  - **Vib+Ring**
  - **Level 1**
  - **Level 2**
  - **Level 3**
  - **Level 4**
  - **Level 5**
2. Press  once you're satisfied with the setting. The phone returns to standby mode.



**Tip:** You can also enter the Volume/Vibrate sub menu by pressing the left soft key () **Menu**, then , , , . Use the volume key to adjust the ringer setting.




The vibrate icon () appears in the display when the phone is in **Vibrate** or **Vibrate+Ring** mode.

# Get Started

## Obtain service

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

## Turn your phone on


1. Fully extend the antenna for the clearest reception, then open the flip.
2. Press and hold  for two or more seconds. Your phone powers up, @metro momentarily appears in the display, and the phone searches for a network signal.




As with any other radio-transmitting device, do not touch the antenna as it affects call quality and may also cause the phone to operate at a higher power level than is necessary.

---


- Once the phone finds a signal, the time, date, and day appear in the bottom of the display.
- You're now ready to place and receive calls.

If the phone is outside of your carrier's coverage or roaming area, the No Service indicator () appears in top of the display. If you cannot place or receive calls, try later when service is available.

## Turn your phone off

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




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

---

## Make and answer calls

### Outgoing

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

### Incoming

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

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



**Tip:** Assign pictures to Contacts entries. The entry's assigned picture appears in the display when you receive a call from that entry. See "Assign a picture to a Contacts entry" on page 42.

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

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





## Call notification features

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

- Nine ring volume settings including 1- beep, Vibrate, Silent, or Vibrate+Ring.
- Different ring types or melodies to distinguish callers.
- Name display with caller ID. (If the caller's name is programmed into your Contacts).
- Information about the last 20 incoming, missed, and outgoing calls are automatically stored to a call log.

## Call Answer


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

1. In standby mode, press the left soft key (  **Menu**, then press , , . The following options appear in the display.

**Send Key**




**Folder Open**

**Any Key**

2. Use the navigation key to highlight the **Call Answer** option of your choice.
3. Press  to activate the method for answering calls.

## Call Waiting

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






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

## Caller ID

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





## Call Block

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

1. In standby mode, press , , , .
2. Enter the phone number, then press .



## Three-way calling

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

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


## Silence an incoming ringer

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

- The up or down volume key on the left side of the phone.
- The END key (.
- The camera key ( on the right side of the phone.

## Ignore an incoming call

Ignored calls are immediately forwarded to voice mail.


- During an incoming call, press the left soft key () **Ignore**. The incoming call is forwarded to voice mail.

## Voice Mail

Voice mail allows callers to leave voice messages with your network. These messages can be retrieved any time you are in a network coverage area.

### Voice Mail setup

Before callers can leave voice mail messages, you'll first need to set up your account.



1. In standby mode, press and hold  until your phone dials the voice mailbox.
2. Once connected to voice mail, follow the recorded prompts to personalize your password, greeting, and mailbox options.



Once you're Voice Mail account has been set up, you can use the Voice Mail folder (in the Message menu) to view details of messages in your voice mailbox. See "Voice Mail" on page 65 for more information.





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### Check your voice mail

1. In standby mode, press and hold  until you're connected to the voice mail system. A recorded message prompts you for a password.
2. Enter your password, then press .
3. Follow the recorded prompts to listen to your voice messages, change administrative options, and so on.

# Menus and sub menus

Use shortcuts to quickly access menus and sub menus.

Press the left soft key (  ) **Menu**, then press the number to the right of the menu to jump to the desired menu, sub menu, or feature. For example, to jump to the **Outbox** sub menu, press the left soft key (  ) **Menu**, then press , .

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<b>Monthly Bill</b> .....	<b>1-1</b>
<b>MetroConnect</b> .....	<b>1-2</b>
<b>MetroPCS Card</b> .....	<b>1-3</b>

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<b>Add</b> .....	<b>2-2</b>
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<b>FRIEND</b> .....	<b>2-3-1</b>
<b>FAMILY</b> .....	<b>2-3-2</b>
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(disabled in digital service mode)

**Version ..... 9-0**




## Navigation key shortcuts


In standby mode, press a navigation key to launch the key's corresponding application.



\*Voice Memo can be customized. Press the left soft key (  ) **Menu**, then press , .

## Menu navigation



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

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





More than one menu may appear in your display. This setting can be modified in the Setup/Display/Menu Style menu.


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2. Use the navigation key to browse through the menus.
3. Press  to enter the menu or sub menu that appears in the display.
4. Press the right soft key (  ) **Back** to return to the previous menu.

## Return to the previous menu


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




## Navigate using a shortcut

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




**Tip:** Use the list of menus and sub menus, which begins on page 23, to navigate using shortcuts.

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


**Example:** Press the left soft key ( for **Menu**, then press , . This takes you to the **Tools** (Menu 8), and then to the **To Do List** (sub menu 5).

## In-Use menu

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

1. While in a call, press the left soft key  **Menu**. The menu items in the following table appear in the display.

In-Use Menu	Function
<b>Calls</b>	View your call logs.
<b>Contacts</b>	Display the Contacts menu.
<b>Voice Memo</b>	Record a voice memo.
<b>Silent/Quit</b>	Silence keypad tones.
<b>Send Tel#</b>	Send your phone number (if you're the recipient of the call). Send the recipient's phone number (if you're the originator of the call).
<b>Send DTMF</b>	Send your phone number as tones (if you're the recipient of the call). Send the recipient's phone number as tones (if you're the originator of the call).
<b>Voice Privacy</b>	Prevent recipients of your calls from seeing your number on their display.
<b>Location</b>	Turn your GPS location on or set GPS location for emergency calls only.
<b>Version</b>	View the software and hardware version information for your phone.






2. Use the navigation key to highlight a menu.
3. Press  to open the menu or activate the feature.

# My Metro





MyMetro displays your current balance, account information, and payment options available.

## Monthly Bill





When you select Monthly Bill, your billing message displays with your account balance, the due date, and your account information.

1. In standby mode, press the left soft key () **Menu**, then press , .
2. Press the left soft key () **Pay** to display payment options for your account. These options are available:
  - 1 **Credit card**
  - 2 **MetroPCS card**
  - 3 **Other options.**
3. Use the navigation key to highlight the payment option you want, then press .

## MetroConnect

1. In standby mode, press the left soft key () **Menu**, then press , .
2. When you select this option, a message saying, "Call now to request balance or add money?" displays.
3. Use the navigation key to highlight **Yes**, then press  to dial the call.

## MetroPCS Card

1. In standby mode, press the left soft key ( **Menu**), then press , . The following options display:
  - 1 **Request Bal**
  - 2 **Pay Monthly Bill**
2. If you select **Request Bal**, a message saying “Call to request MetroPCS Card Bal?” displays. Use the navigation key to highlight **Yes**, then press  to dial the call.
3. If you select **Pay Monthly Bill**, you can choose from the payment options displayed. Your payment is processed according to the option you choose.

# Contacts

Up to 500 entries can be stored in Contacts. Each entry can have up to five associated phone numbers and two e-mail addresses. Each phone number can be up to 32 digits in length, including hard pauses, and associated names can be up to 22 characters in length. You can specify the memory location of your choice for each entry.





You cannot store numbers to locations 311, 411, 611, or 911 in your Contacts. These locations are reserved for emergency numbers only.




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

## Open Contacts

1. In standby mode, press the left soft key () **Menu**, then press  for **Contacts**. The **Contacts** sub menus listed in the following table appear in the display.

Menu	Function
<b>Find</b>	Find a phone number By Name, By Entry, or By Group.
<b>Add</b>	Add a number or e-mail to your Contacts.
<b>Rename Group</b>	Rename one of your five groups.
<b>My Phone#</b>	View the 10-digit number assigned to your phone by MetroPCS.
<b>Memory</b>	Display available memory for dial and voice dial entries.




2. Use the navigation key to highlight the Contacts sub menu of your choice, and press .



**Tip:** You can also press the number on your alpha-numeric keypad that corresponds to the Contacts menu number.


## Find

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



1. In standby mode, press the left soft key () **Menu**, then press ,  for **Find**.
2. Use the navigation key to select the method by which to find an entry. The options listed in the following table are available.

Find	Function
<b>By Name</b>	Search Contacts alphabetically by name.
<b>By Entry</b>	Search Contacts by entry number.
<b>By Group</b>	Search Contacts by selecting from one of the five available groups.

### Find by Name


1. Enter a name *as entered in Contacts*. For example, if you saved the name as Amy Smith, begin the search by pressing  (for "A").

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

2. When the desired entry appears in the display, highlight the number using the navigation key (if necessary).
3. Press  to dial the number associated with the name.
4. Press  to view information about the entry.





5. Press the left soft key () **Option** to display the options listed in the following table.

Option	Description
<b>Edit</b>	Edit details of the highlighted name.
<b>Erase</b>	Erase the name and associated information.
<b>Add New</b>	Add a new entry to Contacts.


6. Use the navigation key to highlight an option, then press  to enter the highlighted option's sub menu.

### Find by entry

This option allows you to find a stored entry by location number.





1. In standby mode, press the left soft key () **Menu**, then press ,  for **Find**.
2. Use the navigation key to highlight **By Entry**.
3. Enter the number that corresponds to the entry, or use the navigation key to highlight the desired entry.
4. Once the entry is highlighted, press the left soft key () **Option** to display the options listed in the following table.

Option	Description
<b>Edit</b>	Edit details of the highlighted name
<b>Erase</b>	Erase the Name and associated information
<b>Add New</b>	Add a new entry to your Contacts

5. Use the navigation up/down keys to highlight an option, then press  to enter the highlighted option's sub menu.




## Find by group



This option allows you to find a stored entry in a related group.


1. In standby mode, press the left soft key () **Menu**, then press ,  for **Find**.
2. Use the navigation left/right keys to display **By Group**.
3. Press the navigation key briefly to highlight the group field.
4. Use the navigation left/right keys to display the group that you want to search. As each group appears in the display, entries assigned to the group also appear in the display beneath the group.
5. Use the navigation key to highlight the desired entry.
6. Press  to display information about the entry.

## Add new information to your Contacts



You can add an entirely new entry or add information to an existing entry.

1. In standby mode, press the left soft key () **Menu**, then press ,  for **Add**. A pop-up menu with the following options appears in the display.  

<b>Number</b>	<b>E-mail</b>
---------------	---------------
2. Use the navigation key to highlight the desired option, then press .
3. Enter information for the selected option, then press . **New Entry** and **Find** appear in the display.






4. With **New Entry** highlighted, press . The following (number type) icons appear in the display.






5. Use the navigation key to highlight the type that matches your new entry, then press .
6. Enter a name to associate with the type using the keypad.
7. Press  to save the entry.

## Rename group










Use this option to rename a group in Contacts.

1. In standby mode, press the left soft key () **Menu**, then press ,  for **Rename Group**.
2. Use the navigation key to highlight the group that you want to rename, then press . The current name of the group appears in the display with a flashing cursor at the end of the name.
3. Press the left soft key () **Option** to display a pop up menu with the following text entry modes.

**T9 word**    **ABC**  
**Symbol**    **123**

4. Press the corresponding number on the keypad for the method of entry that you prefer.
5. Press  to backspace and delete characters. Press and hold  to delete all characters in the display.
6. Enter a new group name using the keypad, then press .

## Edit Contacts numbers

1. In standby mode, press the left soft key () **Menu**, then press ,  for **Find**.
2. Use the navigation key to display the search method that you want to use (**By Name**, **By Group**, or **By Entry**).
3. Enter information to find the entry, or use the navigation key to highlight the entry containing the number that you want to edit.
4. Once the entry is highlighted, press .
5. Use the navigation key to highlight the number within the entry that you want to edit, then press the left soft key () **Option**. A pop-up menu appears in the display.
6. Use the navigation key to highlight **Edit**, then press 
  - Press  to backspace and delete numbers.
  - Press and hold  to clear all numbers in the highlighted field.
7. When you're finished editing the number, press . Your changes are saved and a confirmation message appears in the display.

## Add pauses

Calls to automated systems such as banking services often require a password or account number. Instead of manually entering the numbers, you can store the numbers to Contacts along with special characters called pauses.


- **P pause:** Stops the calling sequence until the phone receives further input.
- **T pause:** Stops the calling sequence for two seconds, then sends the remaining digits.



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

---

## Store pauses in a Contacts entry

1. In standby mode, enter the number you want to store (such as your bank's teleservice number).
2. Press the left soft key () **Option**. The following pause menu options appear in the display.

**P pause**


**T pause**




**P pause** is a hard pause (awaits input from you).


**T pause** is a 2-second pause that resumes after 2 seconds.

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3. Use the navigation key to highlight the pause option of your choice
4. Press  to enter the highlighted pause into the number sequence.




5. When you're finished entering information, press the right soft key () **Save** to store the number to Contacts.

## Pause dial from Contacts

1. If you stored the number using (two-second) T pause(s), simply recall the number from Contacts.
2. If you stored the number using (hard) P pause(s), recall the number from Contacts and wait for the appropriate prompt from the dialed number.
3. Press  to dial the number.

## Manual pause calling







To manually call a number with pause(s) without storing it to Contacts:

1. Enter the number you want to call.
2. Press the left soft key () **Option** to display the pause option pop-up menu.
3. Use the navigation key to highlight the desired pause.
4. Press  to enter the highlighted pause into the number sequence.
5. Press  to call the number.














**Tip:** Store pauses along with the number if you plan to call the number frequently.

## Erase individual Contacts entries







1. In standby mode, press the left soft key () **Menu**, then press ,  for **Find**.
2. Use the navigation key to display the search method that you want to use (**By Name**, **By Group**, or **By Entry**).
3. Enter information to find the entry, or use the navigation key to highlight the entry that you want to erase.
4. Once the entry is highlighted, press the left soft key () **Option**. A pop-up menu with the following menu items appears in the display  
**Edit**      **Erase**      **Add New**
5. Use the navigation key to highlight **Erase**.
6. Press . The phone prompts you to confirm.
7. Use the navigation key to highlight **Yes** or **No**, then press .





## Edit an existing e-mail address


1. In standby mode, press the left soft key () **Menu**, then press ,  for **Find**.
2. Use the navigation key to display the search method that you want to use (**By Name**, **By Group**, or **By Entry**).
3. Enter information to find the entry, or use the navigation key to highlight the entry that you want to edit.
4. Once the entry is highlighted, press the left soft key () **Option**. A pop-up menu appears in the display with **Edit** highlighted.
5. Press .

6. Use the navigation key to highlight the **E-mail** field.
7. Use the keypad to edit the e-mail address. To insert the @ symbol, press the left soft key () **Option**.
8. Use the navigation key to select **Symbol**, then press .
9. Press  (@ symbol) and enter the remainder of the e-mail address using the keypad.
10. Press the left soft key () **Option**.
11. Use the navigation key to highlight **.com**, then use the navigation key to display the desired domain type (.com, .edu, .net), then press .
12. Press  to save your changes.

## Assign a speed dial location to a Contacts entry

The speed dial location corresponds to the numbers on the keypad that you press to speed dial an entry. For example, location 005 assigns the Contacts entry to the  key, (1-touch dialing). Location 035 assigns the entry to the  and  keys, respectively (2-touch dialing). Location 325 assigns the entry to the , , and  keys, respectively (3-touch dialing).


1. In standby mode, press the left soft key () **Menu**, then press ,  for **Find**.
2. Use the navigation key to select the find method (**By Name**, **By Group**, or **By Entry**).
3. Enter information to find the entry, or use the navigation key to highlight the desired entry.
4. Press .

5. Use the navigation key to highlight the **Location** field.
6. Press the left soft key () **Edit**.
7. Enter the SpeedDial location using the keypad.









You can also use the left and right navigation keys to browse empty speed dial locations.

---

8. Press  to save your changes.









## Assign speed dial types

If you have more than one number (or type, such as Mobile or Office) for an entry, you can select which of those numbers are dialed when the associated speed dial key is pressed.

1. In standby mode, press the left soft key () **Menu**, then press ,  for **Find**.
2. Use the navigation key to select the find method (**By Name**, **By Group**, or **By Entry**).
3. Enter information to find the entry, or use the navigation key to highlight the desired entry.
4. Press .
5. Use the navigation key to highlight the **SpeedDial** field, then press the left soft key () **Edit**.
6. Use the left and right navigation keys to select the desired number (type) for speed dialing.
7. Press . Your changes are saved.

## Assign a picture to a Contacts entry

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

1. In standby mode, press the left soft key () **Menu**, then press , . The Gallery opens.
2. Use the navigation key to display the picture that you want to assign to the Contacts entry.
3. Press the left soft key () **Option**. A pop-up menu appears in the display.
4. Use the navigation key to highlight **Assign**, then press .
5. Use the navigation key to highlight **Contacts**, then press .
6. Use the navigation key to highlight the entry that you want to assign a picture, then press .
7. Press . The picture is assigned to the selected entry.


## Store numbers after a call


Once you've finished a call, you can store the number of the caller to your Contacts.




If the call was incoming and Caller ID information was unavailable, then the store option is also unavailable.

---



1. After you press  to end your call, the call time, length of call, phone number, and name of the party (if available) appears in the display.

2. Press the right soft key () **Save**. You're prompted to confirm this as a **New Entry**, or **Find** a name in your Contacts with which to associate the number.
3. Follow the instructions in the upcoming sections depending on whether the number is a new entry or you want to add it to an existing entry.




## Add a New Entry

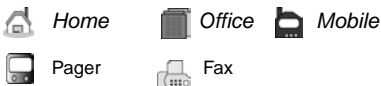
1. With **New Entry** highlighted, press . The following (number type) icons appear in the display.





2. Use the navigation key to choose the number type, then press .
3. Enter a name for the new entry and press . The new entry is saved to your Contacts.


## Add to an existing entry

1. In standby mode, enter the number that you want to add to an existing entry using the keypad, then press .
2. Use the navigation key to highlight **Find**, then press .
3. Use the navigation key to display the search method that you want to use (**By Name**, **By Group**, or **By Entry**).
4. Enter information to find the entry, or use the navigation key to highlight the desired entry, then press . The following number types appear in the display.




5. Use the navigation key to highlight the desired number type, then press .
6. Press  again at the **Contacts** menu. The number is added to the existing entry.



## Shortcuts to storing phone numbers

You can store a phone number by entering the number, and pressing the right soft key () **Save**. Follow the screen prompts to designate other information. You can also save a number after an incoming or outgoing call.




## One-Touch dialing

Memory locations 001 through 009 are special One-Touch dialing locations. You can call the phone numbers stored in Contacts from memory locations 001 through 009 by pressing and holding a single key. For example, for location number 001, press and hold  until the name and number appear in the display and the number is dialed.

## Two-Touch dialing




Memory locations 010 through 099 are special Two-Touch dialing locations. For example, for location number 013, briefly press , then hold down  until the name and number appear in the display and the number is dialed.

## Three-Touch dialing

Memory locations 100 through 500 are special Three-Touch dialing locations. For example, to dial location number 113, press , , then hold  until the name and number appear in the display and the number is dialed.




## My phone #

**My Phone #** displays the ten-digit number assigned to your phone by MetroPCS.

- In standby mode, press the left soft key () **Menu**, then press ,  for **My Phone #**. The phone number assigned by MetroPCS appears in the display.

## Memory

**Memory** displays available memory for dial and voice dial entries.

- In standby mode, press the left soft key () **Menu**, then press ,  for **Memory**. The number of dial numbers stored and available displays, as well as the memory used for voice entries.


# Calls






The **Calls** menu retains information about Outgoing, Incoming, and Missed Calls. You can also view times for your last call and the total of all calls.

## Outgoing


The last 20 outgoing calls are stored in the Outgoing call log. Review the Outgoing call log for the time and date of the call, as well as other information.



**Tip:** To quickly view your most recent outgoing calls, briefly press  in standby mode. Up to 20 of your most recent outgoing calls appear in the display.






1. In standby mode, press the left soft key () **Menu**, then press , . Your list of outgoing calls appears in the display.
2. Use the navigation key to highlight a call, then press  to view further information about the call.
3. Press the left soft key () **Option** to display a pop-up menu containing the options listed in the following table.

Option	Function
<b>Talk</b>	Call the selected number.
<b>Save</b>	Save the number to your Contacts.
<b>Prepend</b>	Add a prefix to the number.
<b>Erase</b>	Erase the selected call from your Outgoing call list.


4. Use the navigation key to highlight an option.
5. Press  to perform the highlighted option's function.

## Incoming

The last 20 Incoming calls are stored in your phone's Incoming call log. You can review the Incoming call log for time and date of the call, as well as other information.





1. In standby mode, press the left soft key () **Menu**, then press ,  for **Incoming**. Your list of Incoming calls appears in the display.
2. Use the navigation key to highlight a call, then press  to view further information about the call.
3. Press the left soft key () **Option** to display a pop-up menu containing the options listed in the following table.

Option	Function
<b>Talk</b>	Call the selected number.
<b>Save</b>	Save the number to your Contacts.
<b>Prepend</b>	Add a prefix to the number.
<b>Erase</b>	Erase the selected call from your Incoming call list.

4. Use the navigation key to highlight an option.
5. Press  to perform the highlighted option's function.


## Missed

The last 20 missed calls (calls not picked up) are stored in the Missed call log. Review the Missed call log for the time and date of the call, as well as other information.

1. In standby mode, press the left soft key () **Menu**, then press ,  for **Missed**. Your list of missed calls appears in the display.
2. Use the navigation key to highlight a call, then press  to view further information about the call.

3. Press the left soft key () **Option** to display a pop-up menu that contains the following options.






Option	Function
<b>Talk</b>	Call the selected number.
<b>Save</b>	Save the number to your Contacts.
<b>Prepend</b>	Add a prefix to the number.
<b>Erase</b>	Erase the selected call from your Missed call list.

4. Use the navigation key to highlight an option.
5. Press  to perform the highlighted option's function.

## Erase Logs




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

### Erase All Calls

1. In standby mode, press the left soft key () **Menu**, then press , ,  for **Erase Logs. Erase All Calls?** appears in the display as well as the options **Yes** and **No**.
2. Use the navigation key to highlight **Yes**, then press , or select **No** to exit without erasing call logs.



## Call Timer

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

1. In standby mode, press the left soft key () **Menu**, then press , . The options listed in the following table appear in the display.

Option	Function
<b>Last Call</b>	View the duration of your last call.

Option	Function
<b>Total</b>	View the duration of total, incoming and outgoing calls made on your phone since the last erasure.
<b>LifeTime</b>	View the duration of all calls on your phone since activation (LifeTime timers cannot be erased).
<b>Erase Total</b>	Erases the counters for the Total call timer.




- Press the number of the option you want enter, or use the navigation key to highlight the option and press .
- Press  to exit the **Option** menu.



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

## Data Counter

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

1. In standby mode, press the left soft key () **Menu**, then press , . The options listed in the following table appear in the display.


Option	Function
<b>Transmit</b>	View the amount of data (in kilobytes) that your phone has transmitted since last being reset.
<b>Received</b>	View the amount of data (in kilobytes) that your phone has received since last being reset.
<b>Total</b>	View the amount of data (in kilobytes) that your phone has transmitted and received since last being reset.








Option	Function
Erase Total	Erase (reset) the Transmit, Received, and Total data counters.

## Store numbers from call logs

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



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

1. In standby mode, press the left soft key () **Menu**, then press  for **Calls**.
2. Press the corresponding number on the keypad to view call logs for the following call types.
  -  for **Outgoing**,  for **Incoming**,  for **Missed**
3. Use the navigation key to highlight the number you want to store in Contacts and press .
4. Press the left soft key () **Option**, then use the navigation key to highlight **Save**.
5. Choose to add the number as a **New Entry**, or **Find** a number in your Contacts with which to associate the number.
6. Follow the prompts to store the number to the Contacts.






# Messages


Your phone is able to send and receive text and picture messages to compatible phones and devices. Text messages can be up to 160 characters in length. Before you send text messages, it's best to cover the basics of composing them using the text entry modes of Abc, Symbol, 123, and T9 Word.




Available memory is shared between all messages. You can store up to 50 incoming and 50 outgoing messages. However, the exact number is dependent upon message length.

## Create and send text messages


1. In standby mode, press the left soft key () **Menu**, then press , .
2. Enter the phone number of the recipient, then press .
3. Enter the content of your message using the keypad.
4. At any point while composing a message, press the left soft key () **Option** to display the text entry modes in the following table.

Option	Function
<b>T9 Word</b>	T9 Word recognizes commonly used words for the numeric sequence of keypresses and inserts the word into your message.
<b>ABC</b>	Enter characters while by pressing the key that contains the desired characters (such as  for "h").
<b>Symbol</b>	Use Symbol mode to enter symbols, such as &, %, and # into your message.
<b>123</b>	Use 123 mode to enter numbers into your message.

Option	Function
<b>Canned</b>	Insert a pre-composed message into the body of your current message.



5. Once you're finished entering your message, press . The New Message options listed in the following table appear in the display.

Option	Function
<b>Edit Send To</b>	Edit the recipient's Send To number.
<b>Edit Text</b>	Edit the content of your message.
<b>Send Options</b>	Choose the Priority, Privacy, whether you want to have a Delivery Acknowledgement, Insert a Signature or Call Back #.
<b>Save in Draft</b>	Save the message to your Draft folder.
<b>Save Text</b>	Save the text in your message as a canned message. Canned messages are pre-composed messages that can be inserted into any message you choose.

6. To send your message, press the left soft key  **Send**.


### Send options

You can set priority, privacy, and other options before you send a message.

1. After you've composed a message and pressed , you're returned to the New Message menu.
2. Use the navigation key to highlight **Send Options**, then press . The send options listed in the following table appear in the display.



Menu Item	Send Options	Function
<b>Priority</b>	<b>Normal</b> <b>Urgent</b>	Assign a priority to your message.

Menu Item	Send Options	Function
Privacy	Not Restricted Restricted Confidential	Choose the desired level of privacy for your message.
Delivery Ack	Off On	Request confirmation for when your message is received.
Insert Sign.	Off On	Insert your pre-composed signature into the message.
Call Back #	Yes No Edit	Insert a number into your message for the recipient to call you back.

- Use the navigation key to display the various Send Options for each menu item.
- When the desired send option is highlighted, press  to confirm the selection or to enter the send option's sub menu.

## Receive text messages

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

- Press the left soft key () **Ignore** to return your phone to standby mode. The message is saved to your inbox where you can view it later.
- Press the right soft key () **View** to open the message, where you have the option to Reply, Forward, Delete, Save Text, or Save Msg.

## Receive messages while in a call

When you receive a message while in a call, **New Message** appears in the display along with the closed envelope icon (✉). To view the message without disconnecting the call:

1. Press the left soft key (ⓘ) **Ignore** to ignore the message and save it to your inbox where you can view it later.
2. Press the right soft key (ⓘ) **View** to open the message, your call remains connected.


## Text entry modes

Text messages can be made up of alphabetical characters, numbers, and symbols. Each text entry mode is explained in further detail in the following table:

Text Entry Mode	Function
<b>ABC</b>	Alphabetical ABC mode options are: ABC - All uppercase Abc - Initial caps abc - All lower case
<b>Symbol</b>	Enter symbols into your message by pressing the number above the symbol in the display.
<b>123</b>	Enter numbers by pressing the corresponding key on the keypad.
<b>T9 Word</b>	Press each key only once to enter the letter of the word that you're spelling.

The current mode of text entry (**ABC**, **SYM**, **123**, or **T9 Word**) is indicated in the lower part of the display when composing a text message.

## Change text entry modes

- While composing a text message, press the left soft key ( **Option**) to display a pop-up menu containing the following options.

**T9 Word**  
**ABC**

**Symbol**  
**123**

**Canned**








The **Canned** option is initially hidden in the pop-up menu. Use the navigation key to scroll down and select this option.

---

### T9® Word

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

- In standby mode, press the left soft key ( **Menu**), then press ,  to compose a new text message.
- Enter the phone number of the recipient, then press .
- Press the left soft key ( **Option**) to display a pop-up menu containing the following options.

**T9 Word**  
**ABC**

**Symbol**  
**123**

**Canned**

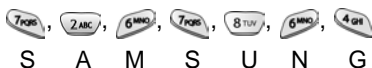


The **Canned** option is initially hidden in the pop-up menu. Use the navigation key to scroll down and select this option.

---

- T9 Word** is highlighted. Press .

- For practice, enter the word “Samsung” by pressing each of the following keys *only once*:



T9 Word recognizes that the most commonly used word for the numeric sequence you just entered is “Samsung.” If more than one word shares the same numeric sequence, T9 Word provides the most commonly used word. Press to display other words, if available.

## ABC

- In standby mode, press the left soft key () **Menu**, then press , to compose a new text message.
- Enter the phone number of the recipient, then press .
- Press the left soft key () **Option** to display a pop-up menu containing the following options.

**T9 Word**  
**ABC**


**Symbol**  
**123**

**Canned**








The **Canned** option is initially hidden in the pop-up menu. Use the navigation key to scroll down and select this option.

- T9 Word** is highlighted. Use the navigation key to highlight **ABC**, then press .
- Enter characters while in ABC mode by pressing the key labeled with the desired characters (such as for “h”).

- Press the key repeatedly until the desired character appears in the display.
- Pause briefly and the displayed character is accepted and inserted into your message.
- Press  to enter a space.

## Symbol

Symbol mode enables you to enter symbols such as @ or % into a text message.

1. In standby mode, press the left soft key () **Menu**, then press ,  to compose a new text message.
2. Enter the phone number of the recipient, then press .
3. Press the left soft key () **Option** to display a pop-up menu containing the following options.

**T9 Word**  
**ABC**



**Symbol**  
**123**

**Canned**








The **Canned** option is initially hidden in the pop-up menu. Use the navigation key to scroll down and select this option.

---

4. **T9 Word** is highlighted. Use the navigation key to highlight **Symbol**, then press . The first of four symbol screens appear in the display.
5. Use the navigation key to page through the other symbols, if desired.
6. Press the key that corresponds with the symbol that you want to enter. For example, press  for an exclamation point (!).
7. Repeat steps 3 through 6 to insert as many symbols into your message as desired.

## 123

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

1. In standby mode, press the left soft key () **Menu**, then press ,  to compose a new text message.
2. Enter the phone number of the recipient, then press .
3. Press the left soft key () **Option** to display a pop-up menu containing the following options.

**T9 Word**  
**ABC**

**Symbol**  
**123**

**Canned**



The **Canned** option is initially hidden in the pop-up menu. Use the navigation key to scroll down and select this option.



4. Press the key containing the corresponding number that you want to insert into your message.



## Send pix messages in camera mode

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





**Tip:** You can send a pix message to up to ten recipients. Separate each recipient's address or phone number with a comma in the **Send to** field of the pix message composer.

1. In standby mode, press the Camera button () on the right side of the phone. The Camera menu appears in the display with **Take a Picture** highlighted.
2. Press . The camera activates.

- Using the display as a viewfinder, press  when the image that you want to send appears in the display.
- Press . The pix message composer appears in the display with the picture that you just snapped attached.
- Enter the phone number or e-mail address of the recipient of the pix message.



**Tip:** Press the left soft key () **Option** to display a pop-up menu that allows you to search your Contacts for a recipient or insert symbols and letters into your message.






- Press the down navigation key to move the cursor to the **Subject** field, then enter a subject for the pix message using the keypad.
- Press the down navigation key until the **Message** field is highlighted, then enter a message for the recipient using the keypad.
- If you want to insert a sound into your pix message, follow the instructions in steps 9 through 11. Otherwise, proceed to step 12.
- Use the navigation key to highlight the **Sound** field.
- Press the left soft key () **Option** to display a pop-up menu with the options listed in the following table.

Option	Function
<b>Record New</b>	Record a new memo to insert into the message.
<b>Voice Memo</b>	Insert a pre-recorded memo into the message.
<b>My Melody</b>	Insert a melody into the message.
<b>Preloaded</b>	Insert a preloaded ring tone into the message.
<b>Delete</b>	Delete a sound that you have inserted into the message.



You can record and insert a voice memo of up to 30 seconds in length if you record first before attaching a picture. If a picture is attached before recording, the size of the voice memo is limited to the amount of remaining memory.

---

11. Use the up/down navigation keys to highlight an option, then press  to enter the option's sub menu and insert a sound into your message. Press  to exit the pop-up menu without inserting a sound.
12. To preview the pix message before sending, press the right soft key () **Next**, then select **Preview** from the list of options that appears in the display.
13. Press the left soft key () **Send** to send the message. **Pix Msg Sending** appears in the display and a progress bar indicates the send status.
14. To send the pix message now, press . **Pix Msg Sending** appears in the display and a progress bar indicates the send status.

## Send pix messages in standby mode




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

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You can send a pix message to up to ten recipients. Separate each recipient's address or phone number with a comma in the **Send to** field of the pix message composer.


---

1. In standby mode, press the left soft key () **Menu**, then press , .


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




**Tip:** Press the left soft key () **Option** to display a pop-up menu that allows you to search your Contacts for a recipient or insert symbols and letters into your message.

3. Press the down navigation key to move the cursor to the **Subject** field. Enter a subject for the pix message using the keypad.
4. Press the down navigation key until the **No Photo** image is highlighted. The **No Photo** image resembles a film slide.
5. Press the left soft key () **Option** to display a pop-up menu with the options listed in the following table.

Option	Function
<b>Take a Pix</b>	Snap a picture to insert into your pix message.
<b>Gallery</b>	Select from a list of pictures that you have taken to insert into your pix message.
<b>My Image</b>	Select from a list of pictures to insert into your pix message.
<b>Preloaded</b>	Select from a list or preloaded images to insert into your pix message.
<b>Delete</b>	Delete any images that you have attached to your pix message.




6. Use the up/down navigation keys to highlight an option, then press  to enter the option's sub menu and insert an image into your pix message.
7. Once you've inserted the image into your message, use the navigation to highlight the **Message** field.
8. Enter a message for the recipient using the keypad.


9. If you want to insert a sound into your pix message, follow the instructions in steps 10 through 12. Otherwise, proceed to step 13.
10. Press the down navigation key to highlight the **Sound** field.
11. Press the left soft key () **Option** to display a pop-up menu with the options listed in the following table.

Option	Function
<b>Record New</b>	Record a new memo to insert into the message.
<b>Voice Memo</b>	Insert a pre-recorded memo into the message.
<b>My Melody</b>	Insert a melody into the message.
<b>Preloaded</b>	Insert a preloaded ring tone into the message.
<b>Delete</b>	Delete a sound that you have inserted into your pix message.





You can record and insert a voice memo of up to 30 seconds in length if you record first before attaching a picture. If a picture is attached before recording, the size of the voice memo is limited to the amount of remaining memory.





12. Use the up/down navigation keys to highlight an option, then press  to enter the option's sub menu and insert a sound into your message.
13. You can now send or preview the pix message.
14. To preview the pix message before sending, press the right soft key () **Next**, then select **Preview** from the selection list that appears in the display.
15. Press the left soft key () **Send** to send the message. **Pix Msg Sending** appears in the display and a progress bar indicates the send status.

16. To send the pix message now, press . **Pix Msg Sending** appears in the display and a progress bar indicates the send status.

## Receive pix messages

1. When you receive a new pix message, the phone number from which the message was sent, and **Pix Msg Retrieving...** appears in the display. A progress bar indicates retrieval status.
2. After the pix message has downloaded, an alert sounds. **Ignore** and **View** also appear in the display.
3. Press the left soft key () **Ignore** to view the pix message later. Press the right soft key () **View** to view the pix message now.

## View a pix message later





1. Once a pix message has been downloaded to your phone, the left and right soft keys **Ignore** and **View** appear in the display.
2. Press the left soft key () **Ignore**. The pix message is sent to your Inbox.
3. In standby mode, press the left soft key () **Menu**, then press ,  to open your Inbox and view the message.

## Message folders

Messages are stored in any one of six folders. The sections that follow cover each folder in greater detail.

## Voice Mail

Messages in your voice mailbox are logged in the Voice Mail folder of the **Message** menu. Open the Voice Mail folder to view the voice mail messages.

1. In standby mode, press the left soft key () **Menu**, then press .
2. Use the navigation key to highlight **Voice Mail**, then press .
3. Press the left soft key () **SEND:Listen** to call your voice mailbox and listen to the message.






You can also press and hold  to dial your voice mailbox.

---



## Inbox

Received messages of all types (except Voice Mail) are stored in the **Inbox** folder.

1. In standby mode, press the left soft key () **Menu**, then press ,  to open the **Inbox** folder.




**Tip:** Press the right soft key () **Msg** while in a call to open the Message menu.

2. Use the navigation key to highlight the message that you want to view.
3. Press  to view contents of the highlighted message.
4. While viewing your message press the left soft key () **Option** to display the options listed in the following table.

Option	Function
<b>Forward</b>	Forward the message to another recipient.






Option	Function
<b>Delete</b>	Delete the message and its contents.
<b>Save Text</b>	Save only the text in the message.
<b>Save Msg</b>	Save the message to the Saved message folder.
<b>Save Addr</b>	Save the sender's number to your Contacts.
<b>Block Addr</b>	Block future messages from the sender.

5. Use the navigation key to highlight an option. Press  to perform the function for the highlighted option.

## Outbox

Your phone stores messages in the Outbox, regardless of whether the message was successfully transmitted. Verify if and when a message was successfully transmitted by enabling the Delivery Ack feature. See “Send options” on page 52 for more information on delivery acknowledgements.

### REVIEW MESSAGES IN THE OUTBOX

1. In standby mode, press the left soft key () **Menu**, then press ,  for **Outbox**. Your list of sent messages appear in the display.
2. Use the navigation key to highlight the message that you want to review, then press .
3. Press the left soft key () **Option** to display the options listed in the following table.


Option	Function
<b>Re-send</b>	Re-send the message.
<b>Save Msg</b>	Save the message to the Saved Msg folder.
<b>Delete</b>	Delete the message.



---

If the message was not delivered, the options listed in the previous table do not appear in the display.

---

4. Use the navigation key to highlight the desired option.
5. Press  to perform the function for the highlighted option.







## MESSAGES AND LOCK MODE

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




### Draft Box




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

### CREATE A DRAFT TEXT MESSAGE


1. In standby mode, press the left soft key () **Menu**, then press ,  for **New Text Msg.**
2. Enter the phone number of the recipient, then press .
3. Compose your message using the keypad, then press .
4. Use the navigation key to highlight **Save in Draft**, then press . A confirmation message appears in the display and your message is saved to the Draft Box.

### VIEW AND EDIT DRAFT MESSAGES


1. In standby mode, press the left soft key () **Menu**, then press , . Any draft messages that you've composed appear as a list in the display.


- Use the navigation key to highlight the message that you want to view, then press .
- Press the left soft key () **Option**. A pop-up menu appears in the display with **Edit** highlighted.
- Press . The options listed in the following table appear in the display.

Option	Function
<b>Edit Send To</b>	Edit the phone number of the recipient.
<b>Edit Text</b>	Edit, format, or add media and pre-composed text to the message.
<b>Send Options</b>	Select the priority, privacy, delivery acknowledgement, signature, and callback #.
<b>Save in Draft</b>	Continue to save the message to the Draft Box.
<b>Save Text</b>	Save only the text in the message, if media or other content is contained within the message.


- Use the navigation key to highlight an option. Press  to perform the function for the highlighted option.

### EDIT TEXT OPTIONS

- While editing the text of a draft message, press the left soft key () **Option**. The options listed in the following table appear in the display.







Option	Function
<b>T9 Word</b>	T9 Word recognizes commonly used words for the numeric sequence of keypresses and inserts the word into your message.
<b>ABC</b>	Enter characters by pressing the key that contains the desired characters (such as  for "h").
<b>Symbol</b>	Use to enter symbols, such as &, %, and # into your message.
<b>123</b>	Use to enter numbers into your message.

Option	Function
<b>Canned</b>	Insert a pre-composed message into the message.

- Use the navigation key to highlight an option. Press  to perform the function for the highlighted option.




## Saved Box

Once you view messages in your Inbox folder, you can then save the message to the Saved Box.

- In standby mode, press the left soft key () **Menu**, then press ,  for **Inbox**. Your Inbox messages appear in the display.
- Use the navigation key to highlight the message that you want to view (and save), then press .
- Press the left soft key () **Option**. A pop-up menu appears in the display.
- Use the navigation key to highlight **Save Msg**, then press . The message is saved to the Saved Box.

## Web Alert

Occasionally, @metro may send notifications to your phone in the form of **Web Alerts**. These alerts may contain information regarding new services or updates. When you receive an alert, you will receive a text notification and hear an audible tone.

- In standby mode, press the left soft key () **Menu**, then press , . Any web alerts that you have received appear in the display.






Contact @metro for availability.


---

## Msg setting


Use the **Msg Setting** menu to define settings for picture, text, and general messages.

1. In standby mode, press the left soft key () **Menu**, then press  . The Msg Setting menu appears in the display.
2. Use the navigation key to highlight **Text**, **Pix Msg**, or **General**.
3. Use the instructions in the following sections to change settings for **Text**, **Pix Msg**, and **General** messages.


### TEXT MESSAGE SETTINGS

1. With **Text** highlighted in the **Msg Setting** sub menu, press . Options for the text message settings listed in the following table appear in the display.


Option	Function
<b>Save in Outbox</b>	Options to save messages automatically in the Outbox, prompt before saving, or do not save messages to the Outbox.
<b>Insert Sign.</b>	Insert a signature into each outgoing message.
<b>Delivery Ack</b>	Choose to be notified (or not) on whether your messages have been delivered.
<b>Direct View</b>	Options are Off or On. With Direct View on, the full content of text messages appear in the display as they are received.
<b>Signature</b>	Create a signature, which appears at the bottom of all outgoing messages.
<b>Callback#</b>	Edit the callback# for all of your messages.
<b>Block Address</b>	Block or Unblock the reception of text messages from a specific number, or view the list of blocked addresses.

2. Use the navigation key to highlight the desired setting.  
Press  to enter the highlighted option's sub menu.


### PIX MESSAGE SETTINGS

1. With **Pix Msg** highlighted in the **Msg Setting** sub menu, press . The following options appear in the display.


Option	Function
<b>Save in Outbox</b>	Options to save messages automatically in the Outbox, prompt before saving, or do not save messages in the Outbox.
<b>Delivery Ack</b>	Choose to be notified whether your messages have been delivered or not.
<b>Retrieval Mode</b>	Choose Automatic to download and display pix messages as they are received. Choose Prompt Mode to be notified beforehand.

2. Use the navigation key to highlight the desired setting.  
Press  to enter the highlighted option's sub menu.

### GENERAL MESSAGE SETTINGS

1. With **General** highlighted in the **Msg Setting** sub menu, press . The following options appear in the display.

Option	Function
<b>Entry Mode</b>	Choose the default method for entering text into messages. Options are T9 Word and Alphabet.
<b>Canned Msg</b>	Edit your pre-composed messages, which can then be inserted into new messages.
<b>Msg. Alert</b>	Choose the volume level (or vibrate) when alerted of a message. Choose the alert message type, and frequency of alerts.
<b>Auto Delete</b>	Choose to receive (or not receive) a warning message when you delete a message.
<b>Voice Mail #</b>	Edit or view your Voice Mail number.

2. Use the navigation key to highlight the desired setting.  
Press  to enter the highlighted option's sub menu.

## Erase Msg






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

---








This function erases all messages in the selected folder. To delete a single message, open the folder from the Message menu, then delete the message from the Option menu while viewing the message content.

---

1. In standby mode, press the left soft key () **Menu**, then press ,  for **Erase Msg**. The Erase Msg sub menu appears in the display.
2. Use the navigation key to highlight the folder containing the messages that you want to delete.
3. Press  to open the highlighted folder. You're prompted to confirm the erasure of all messages in the folder.
4. Use the navigation key to highlight **Yes** or **No**, then press .



# @metro

With @metro services, you can download full featured applications over the air and onto your wireless phone, including games, personalized ring tones, pictures, and more.

1. In standby mode, press the right navigation key (  ). The shopping cart icon (  ) appears in the upper left corner of the display.
2. Press  . A message appears in the display informing you that browsing and downloading apps uses airtime.
3. Press  ( **Start** ), and wait for your phone to connect.
4. Use the navigation key to highlight the category of your choice, then press  .
5. Follow the instructions on the display.


## Settings

Use the **Settings** sub menu in @metro to manage, move, order applications and much more.

1. In standby mode, press the right navigation key to launch @metro.
2. At the @metro menu, use the navigation key to highlight **Settings** (  ), then press  . The options listed in the following table appear in the display.



Option	Function
<b>Order Apps</b>	Download applications over the network.
<b>Move Apps</b>	Move previously downloaded applications between available folders.
<b>Manage Apps</b>	View used and available memory.
<b>Main Menu View</b>	Select whether you want to view the main @metro menu in a list or icon format.

Option	Function
<b>Screensavers</b>	View downloaded screensavers.
<b>View Log</b>	View the @metro log, which displays information about recent activity using @metro.

- Use the navigation key to highlight the desired option.
- Press  to enter the option's sub menu and view or change settings.

## Help

The Help sub menu within @metro is a short tutorial on several @metro features. View information about charges, cancelling subscriptions, buying apps, disabling apps, and more.

- Within in the @metro menu, use the navigation key to highlight the question mark (  ) icon.
- Press . The Help subjects listed in the following sections appear in the display.

## Buying New Apps

To buy new and exciting applications, visit the @metro Shop. It provides you with a variety of apps you can choose from.

## What do I pay?

When you buy an app you are charged for the purchase cost of the app and the network connections to download it. Charges will also apply when you use apps that require network connections, such as downloading information and sending text messages.

## Charges

Charges will apply for network connections. A network connection is used when you are browsing @metro Shop, downloading and restoring apps, or cancelling subscription apps. Charges will also apply when you use apps that require network connections, such as downloading information and sending text messages.

## Cancelling Subscription

1. To cancel a subscription to an app, choose **Settings**, then **Manage apps**.
2. Select the app subscription you want to cancel.

## Demo Apps

A Demo app is free and is designed to demonstrate the app's main features. It usually expires after a certain period of time or a number of uses and often has limited functions. When you run a demo app, you will be presented with a purchase option so you won't have to look for the app in the @metro Shop.

## Removing Apps

You may remove apps that are no longer needed. When you remove an app, you cannot use the application unless you purchase it again.

1. To remove an app, choose **Settings**, then **Manage Apps**.
2. Select the app you want to remove.

## **Disabled Apps**

You can install new apps even if the memory of your phone is full by partially removing (disabling) apps you haven't used recently. When you need to use a disabled app, you can restore it at no additional purchase cost.

## **Restoring Apps**

Disabled apps can be quickly restored at no additional purchase cost. To restore an app, run the application you want to restore from the Main Menu. You will be guided through the restoration process.

## **Expired Apps**

Apps that were purchased based on the number of uses or for a specified period of time expire. You can purchase additional uses from the @metro Shop.

# Mobile Web


---



This feature may not yet be available through your current service provider.

---

Mobile Web with MSN<sup>®</sup> allows you to surf the web from your wireless phone.

- Each time you launch Mobile Web, your phone connects to the Internet and the service indicator icon () appears in the display.
- 



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

---

## Stored web content

After you exit Mobile Web, some information from your last session remains stored in the phone, (unless turned off). You can access this information without reconnecting. If, while viewing stored information you select a link to a site that was not accessed in your last session, you are automatically re-connect to the Internet.




## Launch Mobile Web

---




The first time you use Mobile Web, you are prompted to go through a security setup process. When the security key is sent to the carrier, a unique value is created. If the phone is reset, contact MetroPCS to reset the security key. The original is no longer valid and Mobile Web will not operate.

---

1. In standby mode, press the left navigation key () **Yes** to proceed.
2. Press the left soft key () **Yes** to proceed.
3. The @metro categories (each representing one or more web sites) appears in the display.
4. Use the navigation key to browse the categories.
5. Once the desired category is highlighted, press the left soft key () **Go** to direct your browser to the selected web site.

## Exit Mobile Web

- Press  to exit Mobile Web.

## Navigate the web



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

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

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

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











## Mobile Web soft keys

At the bottom of the Mobile Web display is a solid bar which contains the browser commands. The left () and right () soft keys on the keypad are used to carry out the commands that appear above them in the display.


These two keys are called “soft keys” because their function changes depending on where you are in the application.

## How Mobile Web keys work




The following table lists Mobile Web keys and their functions.

Key	Name	Function
	Navigation Key	Use the navigation key to browse lists and highlight options.
	CLR Key	A browser back-up key. Press once to back up one page. Press and hold to go back to MetroPCS with MSN home page. Press to clear the last number, letter, or symbol entered. Press and hold to completely clear the display.
	Asterisk/Shift Key	Press before entering text to enable upper case characters (in Abc mode).
	0/Next Key	Press to enter a zero (0), or to display another word in the dictionary when in T9 Word entry mode.
	Pound/Space Key	Press to insert a space when entering text.
	Numbers 1 thru 9	Use the number keys to select items in a menu if they are numbered.
	END Key	Press to exit Mobile Web and return the phone to standby mode.
	Left Soft Key	Press the left soft key to activate the command that appears above it in the display.
	Right Soft Key	Press the right soft key to activate the command that appears above it in the display.
	SEND Key	Press to dial a highlighted number.

## Links

Links have several purposes, such as jumping to a different page, jumping to a different site or even initiating a phone call from some sites. Links are shown inside of brackets ([ ]). Normally, the left soft key () is used to select a highlighted link.




## Place calls while using Mobile Web





You may initiate a phone call from Mobile Web if the site you are using supports this feature (the phone number may be highlighted and the left soft key () is labeled **Call**). Press the left soft key () **Call** to call the number. In most cases you can also press  to call the number. The Internet connection terminates when you initiate the call. After you end the call, your phone returns to standby mode.

# Camera


Take full color digital pictures, display them on your phone's vivid color display, and instantly share them with family and friends. It's fun, and as easy to use as a traditional point-and-click camera – just take a picture, view it on the display, and send it to up to ten people, right from your phone. Depending on the resolution you choose, you can save dozens of pictures to memory.

## Take pictures

Taking pictures with the built-in camera is as simple as choosing a subject, pointing the lens, and pressing a button. You can activate the camera by pressing and holding the camera key () or by using a shortcut (**Menu** , )

1. In standby mode, press and hold the camera button () on the right side of the phone.
2. Point the camera at your subject.
3. Using the display as a viewfinder, press  when the image that you want to capture appears in the display.
4. Press the right soft key () **Save** to save the picture to memory.
5. Press the left soft key () **Erase** to erase the photo.

## Save pictures

After you've snapped a picture, press the right soft key () **Save**. The picture is saved to the Picture Gallery, a part of the phone's memory devoted to storing, browsing, and viewing saved pictures.

## Take a video




Your phone is capable of recording short videos (and audio) of up to 12 seconds in length. Saved videos are stored in the **Video Gallery**.

---




Depending upon their size, you can store up to 2 videos in the Video Gallery.



---

1. In standby mode, briefly press the camera key on the right side of the phone. Several camera sub menus appear in the display.
2. Use the navigation key to highlight **Take a Video**, then press .
3. Press  again to begin recording video. The status of the recording is indicated in percentage at the bottom of the display.
4. To stop the recording before it reaches capacity, press the right soft key () **Stop**. Otherwise, the recording stops automatically when it reaches 100%, and the video is saved to the **Video Gallery**.


## Video Gallery

Saved videos are stored in the **Video Gallery**. When you open the Video Gallery, the current video and the number of videos stored in the gallery are indicated above the image that appears in the display.

1. In standby mode, press the camera key on the right side of the phone. A list of sub menus appear in the display.
2. Use the navigation key to highlight **Video Gallery**, then press .

- The first frame of the first saved video appears in the display.
- Browse other videos stored in the Video Gallery (if any), using the left/right navigation keys.
- When the desired video appears in the display, press the right soft key () **Play** to play the video or press the left soft key () **Option** to display a pop-up menu with the options listed in the following table.

Option	Function
<b>Assign</b>	Assign the video as wallpaper, or as an opening or closing animation.
<b>Rename</b>	Rename the video.
<b>Lock</b>	Lock the video so that it cannot be erased.
<b>Erase</b>	Erase the video.
<b>Erase All</b>	Erase all videos in the video gallery.
<b>Video Info</b>	View the title, when created, size, and quality of the video.




- Use the navigation key to highlight the option of your choice.
- Press  to perform the highlighted option's function or to enter its sub menu.

## Other camera features




In addition to the picture gallery and video gallery, the camera has a delay timer that allows you to put yourself in a picture, creative imaging features, and more.

### Picture Gallery


Saved pictures are stored in the Picture Gallery. You can browse the picture gallery one picture at a time (expanded mode), or view several pictures at once in thumbnail format.

1. In standby mode, press the left soft key ( **Menu**), then press , . Any pictures that you've saved appear in the display.
2. Use the navigation keys to browse pictures in the gallery.

### SWITCH FROM EXPANDED TO THUMBNAIL MODE


1. While viewing pictures in the picture gallery, press the right soft key ( **Thumbnail**) to view several smaller pictures at a time.
2. Once you've found a picture that you want to view full size, press the right soft key ( **Expand**).
3. Press the left soft key ( **Option**) while viewing pictures in the Picture Gallery to display the options listed in the following table.

Option	Function
<b>Pix Msg</b>	Send the currently displayed or highlighted picture as a pix message.
<b>Assign</b>	Assign the currently displayed or highlighted picture to Wallpaper, as an opening and closing (power on and power off) graphic, or as a photo ID for someone in your Contacts list.
<b>Rename</b>	Rename the currently displayed or highlighted picture.
<b>Lock</b>	Lock the currently displayed or highlighted picture so that it cannot be deleted.
<b>Erase</b>	Erase the currently displayed or highlighted picture.
<b>Erase All</b>	Erase all of the pictures in the Picture Gallery.
<b>Picture Info</b>	View the Title, time and date created, size, and quality of the currently highlighted or displayed picture.

- Use the navigation key to highlight the desired option.  
Press  to perform the function for the option or enter its sub menu.

## Delay pictures with the self timer

Self Timer allows you to delay a picture long enough so you or the person taking the picture can join others in the picture.

- In camera mode, press the left soft key () **Option**. A pop-up menu appears in the display that contains the options listed in the following table.




Fun Frame and Color Tone are not initially visible in the pop-up menu. Use the navigation key to scroll down and view these menu items.


---

**Flash**  
**Self Timer**  
**Multi Shot**

**Brightness**  
**Fun Frame**  
**Color Tones**

- Use the navigation key to highlight **Self Timer**, then press . The following options appear in the display.

**Off**  
**5 sec**  
**10 sec**


- Use the navigation key to highlight the desired delay, then press .

The next time you press the camera button, a countdown timer appears in the display that indicates the time remaining before the camera snaps the picture.

## Use Multi Shot

The camera can take multiple pictures in succession at the touch of a button. The number of pictures that you can take depends on the resolution setting. See “Change picture resolution” on page 87 for more information.

Camera Resolution	Number of pictures that can be taken
High	3
Medium	5
Low	7

1. In camera mode, press the left soft key (  ) **Option**. A pop-up menu appears in the display that contains the options listed in the following table.

**Flash**



**Brightness**

**Self Timer**

**Fun Frame**

**Multi Shot**

**Color Tones**

2. Use the navigation key to highlight **Multi Shot**, then press . **Off** and **On** appear in the display.
3. Use the navigation key to highlight **On**, then press .
4. The next time you snap a picture, the camera takes several pictures in rapid succession.

## Camera Settings



Flash, resolution, and picture quality settings keep you in control of the look and size of your pictures.

### Turn the flash on or off






Flash enables you to take pictures in low light. The flash is located on back of the phone, just above the battery.




---

When settings are defined in the camera settings menu (**Menu** , ), the settings are permanently saved. However, when settings are defined while the camera is in preview mode (preparing to take a picture), they are only active for the current camera session.

---

1. In standby mode, press the left soft key ( **Menu**), then press , , . **Off** and **On** appear in the display.
  2. Use the navigation key to highlight **Off** or **On**, then press . You're returned to the **Settings** menu.
- 



When the flash is set to **On**, the flash icon () appears in the display in camera mode.

---

## Change picture resolution

Change the size (in bytes) of your pictures using the Resolution setting. Options are **High**, **Medium**, and **Low**.

---








The camera only takes pictures in Low resolution mode (regardless of resolution setting) with Fun Frames enabled.

---



**Tip:** Change a photo's resolution for the current camera session (only) using the navigation up/down keys while in camera mode.

1. In standby mode, press the left soft key ( **Menu**), then press , , . The following options appear in the display.
  - High** (VGA 640 X 480)
  - Medium** (QVGA 320 X 240)
  - Low** (QQVGA 160 X 120)

2. Use the navigation key to highlight the desired resolution and press . You're returned to the **Settings** menu.
- 



The resolution setting affects zoom capabilities. When resolution is set to High, only X1 zoom is available. When resolution is set to Medium, X1 and X2 are available. When resolution is set to Low, X1, X2, and X4 zoom settings are available.

---

## Border pictures with Fun Frames





Add your own touch to pictures using Fun Frames. Each of the ten available settings border and crop pictures to lend a different theme to your images.

---



With Fun Frames enabled, the camera will only take pictures in Low resolution mode (regardless of the resolution setting in the camera Settings sub menu).

---

1. In standby mode, press the left soft key () **Menu**, then press , , .
  2. Use the navigation key to highlight one of the following fun frames.
- 



Choose **Normal** to disable Fun Frames.

---

**Normal**

**Dream**

**Flower01**

**Flower02**

**Grape**

**Frame**


**Theater**

**Mask**

**Muscle**

**Star**





**Wood**

3. Once the Fun Frame of your choice is highlighted, press . You're returned to the **Settings** menu.

- Now, any pictures you take adopt the theme of the fun frame that you've selected.

## Be creative with Color Tones


Change the look of your pictures with Color Tones. Choose from five available settings such as Emboss, Negative, and Sepia. The selected color tone previews in the display before you snap the picture.

- In standby mode, press the left soft key () **Menu**, then press , , .
- Use the navigation key to highlight one of the color tones in the following table.







Choose **Normal** to disable Color Tones.

Color Tone	Description
<b>Normal</b>	Subjects and pictures appear with a normal hue.
<b>Sepia</b>	Subjects and pictures appear in a brownish-gray hue.
<b>Mono-chrome</b>	Subjects and pictures appear in black and white.
<b>Negative</b>	Subjects and pictures appear with light and dark colors inverted.
<b>Emboss</b>	Subjects and pictures appear with a raised, ornamental look.
<b>Sketch</b>	Subjects and pictures appear as sketched artwork.

- Once the color tone of your choice is highlighted, press . You're returned to the **Settings** menu.
  - When you take your next picture, the phone's display previews your subject image with the selected color tone.

## Use Shutter Sound

Choose from five different sounds whenever you snap a picture. Aside from being a cool sound effect, Shutter Sound acts as an audible reminder that your camera has taken the picture.

1. In standby mode, press the left soft key () **Menu**, then press , , .
2. Use the navigation key to highlight one of the following shutter sounds. Each sound plays as it is highlighted.


**Sound 1**

**Sound 2**

**Sound 3**






**Sound 4**

**Sound 5**

3. Once your choice is highlighted, press . You're returned to the **Settings** menu.



## Quality setting

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




1. In standby mode, press the left soft key () **Menu**, then press , , .
2. Use the navigation key to highlight **Fine**, **Normal**, or **Economy**.
3. Once the quality setting of your choice is highlighted, press . You're returned to the **Settings** menu.

## Zoom in on a subject

Your camera has digital zoom capabilities of up to x4 in Low resolution mode (x2 in Medium). Pictures may appear somewhat grainy as you zoom in; this is a normal result of digital enhancement.


1. In camera mode, press the navigation left/right keys to zoom in and out on your subject.
2. Press  or the camera key () to snap the picture.



The zoom setting is affected by the resolution setting (**Menu** , , ). When resolution is set to High, only X1 zoom is available. When resolution is set to Medium, X1 and X2 are available. When resolution is set to Low, X1, X2, and X4 zoom settings are available.

## Set Brightness

Underexpose or overexpose pictures using the eleven brightness settings built in to your camera. The brightness control is handy for adjusting to conditions beyond range of the auto brightness feature.

1. In camera mode, press the left soft key () **Option**. A pop-up menu appears in the display that contains the following options.

**Flash**


**Self Timer**


**Multi Shot**

**Brightness**

**Fun Frame**

**Color Tones**

2. Use the navigation key to highlight **Brightness**, then press .





3. Use the navigation key to set the desired brightness level, then press . The brightness level is indicated in the top portion of the display and ranges from -5 to +5.

## Point, click, and send a picture

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



**Tip:** You can send a pix message to up to ten recipients. Separate each recipient's address or phone number with a comma in the **Send to** field of the pix message composer.

1. In standby mode, press and hold the camera key () to activate the camera.
2. Using the display as a viewfinder, snap the desired picture by pressing .
3. Press  to display the pix message composer.
4. Enter the recipient's phone number or e-mail address using the keypad.
5. Press  to send the pix message to the intended recipients.


# Tools

The Tools menu is a set of features and applications such as a Calendar, To Do List, and Memo Pad, Scheduler, etc. You can set customize your built-in voice kit, set reminders for yourself, create to do lists, perform calculations, and much more.

## Voice Kit

Voice recognition capabilities of the SCH-A670 are exceptional due to advanced, speaker-independent technology. This means there is no longer a need to “train” your phone to understand your voice. You can finally use your voice *in a natural manner* to dial numbers, lookup contacts, view your schedule, and much more. Please read the following content carefully to learn the most about this useful feature.

### Voice commands

The Voice menu contains the following commands, which you can activate by pressing and holding , then speaking the command. Each command listed in the following table is explained in greater detail in the sections that follow.

Command	Function
<b>Digit Dial</b>	Dial any seven or ten-digit North American phone number.
<b>Name Dial</b>	Dial a name, if stored in your Contacts.
<b>Quick Dial</b>	Display and dial voice tagged entries in your Contacts.
<b>Voice Memo</b>	Record a voice memo.
<b>Contacts</b>	Display your Contacts entries, if any exist.
<b>Today</b>	Display your calendar and view today's schedule.


## Digit Dial

Digit Dial lets you dial any valid seven-digit or ten-digit phone number by speaking the number naturally, without pausing between digits.

### DIGIT DIAL TIPS

- Digit Dial works best in quieter environments.
- When pronouncing a number, speak at a normal speed, saying each digit clearly. There is no need to pause between digits.
- The phone recognizes the digits one, two, three, four, five, six, seven, eight, nine, zero, and oh (zero). It doesn't recognize numbers such as "one eight hundred" for "1-800." Instead, say "one eight zero zero," or "one eight oh oh."
- The phone recognizes only valid seven or ten-digit North American phone numbers, optionally preceded by the digit "1."
- If you are experiencing frequent problems getting Digit Dial to recognize you, try adapting it to your voice, which can greatly improve accuracy. See the following section on Digit Dial Adaptation for more information.

### USE DIGIT DIAL

1. Press and hold .

"Say a Command" appears in the display and is pronounced through the speaker.


2. Say "**Digit Dial**." You're prompted to say the number.
3. Pronounce the number naturally and clearly.

The phone may display one or more numbers on the screen and prompt you for confirmation.

4. If the phone asks “**Did you say**” followed by the correct number, say “**Yes.**” The phone dials the number.
5. If the phone asks “**Did you say**” followed by any incorrect numbers, say “**No.**”

If there are other choices, the phone prompts you with them as necessary.



**Tip:** Choose a number from the list manually. Use the navigation key to highlight the number, then press  to select.

## DIGIT DIAL ADAPTATION

Digit Dial works well for most people without special adaptation. However, people with strong accents or unique voice characteristics may obtain better results by adapting the system to better match their voices.



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You should adapt Digit Dial only if the system is frequently not recognizing your speech. After you adapt Digit Dial, your phone is customized to your voice, and your voice only. Others will not be able to use it unless they reset the phone to factory defaults.







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Adaptation involves recording several digit sequences to adapt the system to the unique properties of your voice. The adaptation process takes about three minutes.

### Tips for adapting Digit Dial

- Adapt digits in a quiet place.
- Make sure you wait for the beep before starting to speak.
- Speak clearly, and say each digit distinctly.
- If you make a mistake while recording a sequence of digits, or if there is an unexpected noise that spoils the recording, re-record that sequence.







## Adapt Digit Dial to your Voice

1. In standby mode, press the left soft key () **Menu**, then press , ,  for **Voice Setup**.
2. Press ,  for **Adapt Digits**.

Your phone displays the first digit sequence and “**Please say**” plays through the speaker followed by the four digits appearing in the display.
3. Wait for the beep and repeat the digits *using your normal tone of voice*.
4. After a moment, the phone plays back the recording and prompts “**Did the recording sound ok?**” If the recording was good, say “**Yes**.” If you need to re-record, say “**No**.”
  - If you say “**No**,” the phone prompts you to pronounce the digits again. Wait for the beep and then re-record. Repeat this step until you’re satisfied with the recording.
5. After confirming that the recording sounds ok, repeat the recording process with the next set of digits. After six sets of digits, the phone asks whether you want to do more adaptation. Answer “**Yes**.”
6. Repeat steps 4-6 for another six sets of digits. After the sixth set of digits, the phone indicates adaptation is complete.

## **RESET DIGIT DIAL ADAPTATION**


You can reset Digit Dial to its original state.

1. In standby mode, press the left soft key () **Menu**, then press , ,  for **Voice Setup**.
2. Press  for **Set Digits**.
3. Press  for **Reset Digits**.


## Name Dial

Name Dial lets you dial any person in your Phone book by pronouncing that person's name. It automatically voice activates every contact in your Phone book without the need to record or "train" names before using them.

### PLACE A CALL USING NAME DIAL

1. Press and hold .  
"Say a Command" appears in the display and is pronounced through the speaker.
2. Say "Name Dial." The phone prompts, "Please say the name."
3. Say the full name of the person you want to call, exactly as it is entered in your Phone book.
4. The phone may display one or more names on the screen and prompt you to confirm the name you spoke. If this happens, respond to the prompts with "Yes" or "No" as appropriate.



**Tip:** You can also choose a name from the choice list manually. Use the navigation key to highlight the name and then press .

- If the name that you pronounced has more than one associated number, the phone displays the different locations (such as "home" or "office") and prompts you, "Which number?" In this case, pronounce the location that you want to call. The phone dials the number.






## Quick Dial

Quick Dial lets you dial a person by saying the name you've recorded for that person. Before you can use Quick Dial, you'll need to record the names you want to use.

### TIPS FOR RECORDING QUICK DIAL NAMES

- Record names in a quiet area.
- Choose a name that is not too long or short.
- Speak clearly and distinctly when you record.
- Avoid recording names that sound alike.



### RECORD A NAME OR PHRASE FOR QUICK DIAL

1. In standby mode, press the left soft key () **Menu**.
2. Press ,  for **Voice. Quick Dial** is highlighted.
3. Press . **Record** is highlighted.
4. Press .

The phone prompts, **"Please say the name."**

5. Wait for the beep and then say the name.


The phone plays back the name, and then prompts, **"Please enter the phone number with your keypad and then press OK."**

6. Use the keypad to enter the phone number that you want associated with this name (press the left soft key () **Options** to add dialing pauses, if the number requires).
7. When finished, press .






The phone prompts, **"Enter name."**

8. Enter the name via the keypad, then press .







## Use Quick Dial

1. Press and hold .  
“**Say a Command**” appears in the display and is pronounced through the speaker.
2. Say “**Quick Dial.**”  
The phone prompts, “**Who would you like to call?**”
3. Say one of the names you’ve recorded. If the name matches, your phone dials the number.
  - If a match doesn’t occur, the phone asks you to confirm the name and other prompts follow.
  - If no matches occur after following the prompts, the phone responds with “Sorry, no match found.”

### REVIEW YOUR QUICK DIAL LIST

1. In standby mode, press the left soft key () **Menu**.
2. Press ,  for **Voice. Quick Dial** is highlighted.
3. Press . **Record** is highlighted.
4. Press  for **Review**. Your list of recorded names appears in the display.
5. Use the navigation key to highlight a name to display more information, such as the name and its associated number.

### ERASE A QUICK DIAL NAME

1. In standby mode, press the left soft key () **Menu**.
2. Press ,  for **Voice. Quick Dial** is highlighted.
3. Press , then press  for **Erase all**.
4. Use the navigation key to highlight **Yes**, then press .  
The name is erased.

## Voice Memos

You can use your phone to record voice memos for later playback. You can also record the caller on the other end of the line during a phone conversation.

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There is limited space for the number and length of recordings.

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- The maximum number of voice memos is 10.
- The maximum length for a single voice memo is 60 seconds.

### RECORD A MEMO

1. In standby mode, press the left soft key ( Menu), then press , , , . The phone prompts, “**Please record after the beep.**”






**Tip:** In standby mode, press and hold until the phone prompts, “**Please say a command.**” Pronounce “**Voice Memo**” into the microphone to launch Voice Memo.

2. Wait for the beep, then start speaking. As it is recording the phone displays a countdown timer that shows the seconds remaining for the recording.
  - To pause the memo, press the left soft key ( Pause). When a memo is paused, select **Resume** to resume recording.
3. Press the right soft key ( Stop) once you're finished recording.









A pop-up menu appears in the display with options listed in the following table.

Option	Function
<b>Review</b>	Replay the memo that you just recorded.
<b>Rerecord</b>	Record over the memo that you just recorded.
<b>Save</b>	Save the memo that you just recorded.
<b>Quit</b>	Exit to the previous (Voice Memo) menu.







4. Use the navigation key to highlight an option. Press  to perform the function for that option.
5. To save the memo, select **Save** from the pop-up menu, then press .
6. Enter a name for the memo using the keypad.
7. Press  to save the memo.

## REVIEW AND ERASE MEMOS

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


1. In standby mode, press the left soft key () **Menu**, then press , , , . A list of saved memos appears in the display.
2. Use the navigation key to highlight the memo you want to review, and press . Information about the memo appears in the display.
3. Press the right soft key () **Play** to play the memo.
4. Press the left soft key () **Option** to **Play**, **Edit** or **Erase** the memo.

## Erase all memos at one time

1. In standby mode, press the left soft key () **Menu**.
2. Press , , , . **Erase All Voice Memos?** appears in the display.
3. Use the navigation key to highlight **Yes** (to erase all memos) or **No** (to return to the previous menu).
4. Press  to confirm your selection.

## **Contacts**

Contacts lets you retrieve contact information for any person in your Contacts by pronouncing the name of that person.

1. In standby mode, press and hold . The phone prompts, **“Say a command.”**
2. Say **“Contacts.”** The phone prompts you to say the name.
3. Pronounce the name of the person exactly as it is entered in your Contacts.





You may be asked to confirm the name before the phone looks up the contact information for that name.

- In this case, the phone prompts **“Did you say,”** followed by the next name it recognizes.
- Respond with a **“Yes”** or **“No”** as appropriate.
- If there is no match found, the phone responds with **“Sorry, no match found.”**

## Today

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

### Add a new event

1. In standby mode, press the left soft key () **Menu**, then press ,  for **Today**. You're prompted to enter a New Event.
2. Enter details of the event using the keypad. Press the left soft key () **Option** to display a pop-up menu containing the following text entry mode options.

**T9 Word**

**ABC**





**Symbol**


**123**



The current mode of text entry is indicated in the lower right of the display.

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3. Use the navigation key to highlight the entry mode that you want to use, or press  to exit the pop-up menu.
4. When you're finished entering details for the event, press . You're prompted to enter the time and date.
5. Enter the time and date for the event using the keypad.
  - Press  for A.M when **P** is highlighted.
  - Press  for P.M when **A** is highlighted.

6. When you're finished entering the time and date, use the navigation key to highlight **Notification**.
7. Use the left and right navigation keys to select the amount of time that you want to be notified by an alert before the event occurs.
8. Press  to store the event in your calendar. An alert will notify you prior to the event, if notification alert is set.

## Scheduler


Scheduler allows you to view the current, past or future month in calendar format. While viewing the calendar, the current date is highlighted, and days with scheduled events are surrounded by a box.

### View an event

1. In standby mode, press the left soft key () **Menu**, then press ,  for **Scheduler**.
2. A calendar appears in the display with the current date highlighted. The month and year appear in the upper right of the display.
3. Use the navigation up, down, left, and right keys to highlight different dates within the current month.
  - Press  to open a date that is highlighted.
  - Press the volume up key to view previous months.
  - Press the volume down key to view future months.





4. Press the left soft key () **Option** to display the options listed in the following table.

Option	Function
<b>View</b>	View events for the date surrounded by a box.
<b>Add new</b>	Add a new event for the date.

5. Use the navigation key to highlight an option. Press  to enter the highlighted option's sub menu.





## Jump to date

Go directly to any date that you specify in the Jump to Date entry screen.






1. In standby mode, press the left soft key () **Menu**, then press ,  for **Jump to Date**. The Jump to Date entry screen appears in the display.
2. Enter the desired Jump to date, then press . The calendar month for the date you specified appears in the display, with the date that you entered highlighted.

## To Do List





The To Do List allows you to create a task list. You can store, prioritize and manage up to twenty To Do List tasks.

1. In standby mode, press the left soft key () **Menu**, then press ,  for **To Do List**. The Add To Do screen appears in the display.
2. Enter details of the task using the keypad. Press the left soft key () **Option** to display a pop-up menu containing the following text entry mode options.


**T9 Word**  
**ABC**  
**Symbol**  
**123**

3. Use the navigation key to highlight the entry mode that you want to use, or press  to exit the pop-up menu.
4. When you're finished entering details for the task, press . You're prompted to select a priority for the task.
5. Use the navigation left/right keys to select **High** or **Low**.
6. Press the down navigation key to highlight **Enter Date**.
7. Enter a time and date for the task using the keypad.
  - Press  for A.M when **P** is highlighted.
  - Press  for P.M when **A** is highlighted.
8. Press  to store the task.

### **Add, Edit, and Erase To-Do List tasks**





1. In standby mode, press the left soft key ( **Menu**), then press ,  for **To Do List**.
2. Use the left/right navigation keys to browse tasks in your To Do List. Events are presented in order of priority.
3. Press the left soft key ( **Option**) while viewing your To Do List. A pop-up menu with the options listed in the following table appears in the display.

<b>Option</b>	<b>Function</b>
<b>Add new</b>	Add a new task to the To Do List.
<b>Edit</b>	Edit the task currently appearing in the display.
<b>Erase</b>	Erase the task currently appearing in the display.
<b>Erase All</b>	Erase all tasks from your To Do List.

4. Use the navigation key to highlight an option.
5. Press  to perform the function for the highlighted option.

## Memo pad

Create notes and store them in Memo Pad. Notes that you create in Memo Pad can't be prioritized or assigned an alert. Return to Memo Pad anytime to review and edit your notes.



1. In standby mode, press the left soft key ( **Menu**), then press ,  for **Memo Pad**.
2. If you have any stored memos, they appear as a list in the display. If this is your first time in Memo Pad, you're prompted to add a new memo.
3. Enter a memo using the keypad.
4. Press the left soft key ( **Option**) to display a pop-up menu containing the following text entry mode options.

**T9 Word**




**ABC**



**Symbol**

**123**


5. Use the navigation key to highlight the entry mode that you want to use, or press  to exit the pop-up menu.
6. When you're finished entering details for the memo, press . The memo is stored.

## Review, add, edit, and erase memos

1. In standby mode, press the left soft key ( **Menu**), then press ,  for **Memo Pad**. Your list of stored memos appears in the display.




- Use the navigation key to browse memos. Press  to open a highlighted memo.
- Press the left soft key () **Option** while viewing your memos. A pop-up menu with the options listed in the following table appears in the display.

Option	Function
<b>Add new</b>	Add a new memo to Memo Pad.
<b>Edit</b>	Edit the memo currently highlighted or appearing in the display.
<b>Erase</b>	Erase the memo currently highlighted or appearing in the display.
<b>Erase All</b>	Erase all memos from Memo Pad.

- Use the navigation key to highlight an option.
- Press  to perform the function for the highlighted option.

## Count Down

Count Down allows you to view the amount of time between the current date and any event that you want to schedule. You can create up to twenty Count Down events.

- In standby mode, press the left soft key () **Menu**, then press ,  for **Count Down**.



If you have any stored Count Down timers, the first timer appears in the display. If you have more than one, the event scheduled closest to today's date appears first. Use the navigation key to browse between multiple timers.

- Enter details for the Count Down event using the keypad.






3. Press the left soft key ( **Option**) to display a pop-up menu containing the following text entry mode options.

**T9 Word**

**ABC**




**Symbol**

**123**


4. Use the navigation key to highlight the entry mode that you want to use, or press () to exit the pop-up menu.
5. Once you've finished entering details for the Count Down event, press (). You're prompted to enter a time and date for the scheduled event.
6. Enter the time and date using the keypad and navigation key.
  - Press () for A.M when **P** is highlighted.
  - Press () for P.M when **A** is highlighted.
7. Press () to store the event.

## Review, add, edit, and erase Count Down events


Review scheduled Count Down events to determine how much time remains between the current time/date and any event that you've scheduled. You can also add another event, or edit and erase previously scheduled events.

1. In standby mode, press the left soft key ( **Menu**), then press (, ) for **Count Down**.
2. Any stored Count Down events appear in the display. The event scheduled closest to the current date appears first in the display.

Event details of the scheduled event appear in the display. The day, date, and time of the scheduled event appear in the bottom of the display.

3. Press the left soft key ( **Option**) while viewing your memos. A pop-up menu with the options listed in the following table appears in the display.

Option	Function
<b>Add new</b>	Add a new event to Count Down.
<b>Edit</b>	Edit the event currently appearing in the display.
<b>Erase</b>	Erase the event currently appearing in the display.
<b>Erase All</b>	Erase all scheduled events from Count Down.




4. Use the navigation key to highlight an option. Press  to perform the function for the highlighted option.

## Alarm clock






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



The alarm doesn't function when the phone is turned off. If the time for an alarm that was set for **Once** has elapsed while the phone is off, the alarm occurs at the specified time on the next day.


1. In standby mode, press the left soft key ( **Menu**), then press ,  for **Alarm Clock**. The following options appear in the display.

**Once**  
**Daily**  
**Off**




2. Use the navigation key to highlight the frequency for which you want the alarm to occur, then press .
3. Enter the time for the alarm using the keypad.
  - Press  for A.M when **P** is highlighted.
  - Press  for P.M when **A** is highlighted.
4. Press  when you're finished entering the time for the alarm. The alarm is set and the alarm icon () appears in the top of the display.

## When an alarm sounds

An animated alarm clock appears in the display and an alert sounds when the specified time for the alarm arrives.

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


## Turn off the alarm

1. In standby mode, press the left soft key () Menu, then press ,  for **Alarm Clock**. The following options appear in the display.

**Once**




**Daily**

**Off**

2. Use the navigation key to highlight **Off**, then press . All alarms are turned off.



## World Time

World Time allows you to view the time of day or night in another part of the world. World Time displays time in the 24 different time zones around the world.

1. In standby mode, press the left soft key () **Menu**, then press ,  for **World Time**. A world map appears in the display.
2. Use the navigation left/right keys to browse cities and times. The following cities are supported.







Alaska	San Francisco	Denver/Arizona
Chicago/Mexico	New York	Caracas
Brasilia	Mid Atlantic	Cape Verde
London	Paris/Berlin	Athens/Helsinki
Moscow	Abu Dhabi	Tashkent
Alma-ata	Bangkok/Jakarta	Hongkong/Beijing
Seoul/Tokyo	Guam/Sydney	Okhotsk
Wellington	Samoa/Midway	Honolulu, Hawaii

## Enable Daylight Savings Time (DST)

1. While viewing the World Time map, press the left soft key () **Option**. **Off** and **On** appear in the display.
2. Use the navigation key to highlight **On**, then press . Daylight Savings Time is enabled.

## Calculator

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

1. In standby mode, press the left soft key ( **Menu**), then press ,  for **Calculator**. The Calculator appears in the display.
2. Enter the first number in your equation using the keypad.  
(Numbers can be up to nine digits long.)
  - Press  to enter a decimal point.
  - Press  to change the sign for a number to a negative.
3. Use the navigation key to set the type of calculation that you want to perform. Your choices are as follows.
  - [ + ] Addition
  - [ x ] Multiplication
  - [ - ] Subtraction
  - [ ÷ ] Division
4. Use the keypad to enter the second number into your equation.
5. Press  to perform the calculation and view the result.

# Setup

The Setup menu contains sub menus that allow you to configure your display, sounds, network preferences, security options, as well as other settings.

## Location

GPS identifies your location to the network. You can fully enable this setting or set GPS to work only when 911 is used.



Check with MetroPCS to determine if/when/where location-based services are available.




1. In standby mode, press the left soft key ( Menu), then press , for **Location**. The Location settings listed in the following table appear in the display.

Location setting	Function
<b>Location On</b>	GPS is fully on wherever the feature is available.
<b>911 Only</b>	GPS is on (only) when you dial 911.


2. Use the navigation key to highlight an option.
3. Press to select the function. You're returned to the Setup menu.

## Display






You can set the menu style, standby mode animation, customize backlight settings, and more in the Display sub menu.

1. In standby mode, press the left soft key () **Menu**, then press ,  for **Display**. The Display sub menus listed in the following table appear in the display.

Sub Menu	Function
<b>Menu Style</b>	Choose how main menus appear in the display when the left soft key <b>Menu</b> is pressed. Select <b>Icon</b> to display main menus as graphics. Select <b>Nature</b> to display main menus in a list (text) format.
<b>Animation</b>	Choose the media that displays on your phone when you turn it on, turn if off, and while in standby mode.
<b>Front Display</b>	Select the contrast and wallpaper for the display on the front of the flip.
<b>Banner</b>	Create your own personalized greeting that appears in the display when your phone is in standby mode.
<b>Backlight</b>	Set backlight options for the LCD and keypad.
<b>Auto Hyphen</b>	With Auto Hyphen enabled, your phone automatically hyphenates numbers as they are entered.
<b>Service LED</b>	Turn the Service LED on or off.






2. Use the navigation key to highlight a sub menu.
3. Press  to enter the highlighted sub menu. The following sections describe the display sub menus in greater detail.

## Menu Style


1. In standby mode, press the left soft key () **Menu**, then press , ,  for **Menu Style**.
2. Use the navigation key to highlight **Icon** or **Nature**, then press .

## Animation

Animation allows you to choose the multi-media or pictures that appear in your phone's display when you turn it on, turn it off, and while in standby mode.






1. In standby mode, press the left soft key () **Menu**, then press , ,  for **Animation**.
2. Use the navigation key to highlight **Opening**, **Closing**, or **Wallpaper**, then press . A pop-up menu appears in the display with the options listed in the following table.

Option	Function
<b>Gallery</b>	Use a saved picture as an Opening, Closing, or Wallpaper image.
<b>Video Gallery</b>	Insert a saved video as an Opening, Closing, or Wallpaper image.
<b>My Image</b>	Use an image that you've downloaded from the Internet as an Opening, Closing, or Wallpaper image.
<b>Preloaded</b>	Use an image that came preloaded with your phone as an Opening, Closing, or Wallpaper image.

3. Use the navigation key to highlight the image type that you want to use.
4. Press  to browse and assign the image type **Opening**, **Closing**, or **Wallpaper**.

## Front Display

The Front Display sub menu allows you to select from three different clocks (for wallpaper) and adjust the contrast for the LCD on the front of the flip.

1. In standby mode, press the left soft key () **Menu**, then press , ,  for **Front Display**.
2. Use the navigation key to select **Wallpaper** or **Contrast**, then press .

### IF YOU SELECTED WALLPAPER





3. Use the left/right navigation keys to select from **Analog clock1**, **Analog clock2**, or **Digital Clock**.

### IF YOU SELECTED CONTRAST


4. Use the volume key or any of the navigation keys to adjust the contrast to your desired setting.

## Banner


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

1. In standby mode, press the left soft key () **Menu**, then press , ,  for **Banner**.



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

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2. Enter a word or short phrase to appear in your phone's display while in standby mode (Up to 12 characters).
3. Press  to save the new banner.

## Backlight


You can set the backlight for your display or keypad to remain on for a specified period of time or remain on as long as the flip is open.



Prolonged backlight use drains your battery faster.






1. In standby mode, press the left soft key () **Menu**, then press , ,  for **Backlight**. The following sub menus appear in the display.

Option	Function
<b>Lcd</b>	Sets the time the LCD backlight remains on after a period of inactivity. Optional settings are 5, 10, and 15 seconds as well as Folder Open.
<b>Keypad</b>	Sets the amount of time the keypad backlight remains on after a period of inactivity. Optional settings are 5, 10, and 15 seconds as well as Folder Open.
<b>Power save</b>	Unless the backlight setting has been changed, the backlight dims after a minute of inactivity, and then turns off. With Power save enabled, the backlight for the LCD is always dim. After one minute of inactivity, Power save turns the backlight off.

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






## Auto hyphen

Auto Hyphen automatically hyphenates phone numbers as they are entered. For example: 580-437-0000.

1. In standby mode, press the left soft key () **Menu**, then press , ,  for **Auto Hyphen. Yes** and **No** appear in the display.
2. Use the navigation key to highlight the desired setting.
3. Press  to confirm the setting.

## Service LED

You can turn the Service LED on the top of your phone on or off. The Service LED notifies you of the charge status, incoming calls, and more.







1. In standby mode, press the left soft key () **Menu**, then press , ,  for **Service LED. Off** and **On** appear in the display.
2. Use the navigation key to highlight **Off** or **On**, then press . Your settings are saved.

## Sounds

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





### Volume/Vibrate

Use the Volume/Vibrate sub menu to set the default volume for incoming calls and alarms.


1. In standby mode, press the left soft key () **Menu**, then press , ,  for the **Volume/Vibrate** sub menu.
2. Use the navigation key to highlight **Calls** or **Alarm**, then press .
3. Use the up and down volume keys to select the volume level (or vibrate mode) for the selected setting.
4. Press  to save the setting.

## Ringer type

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

1. In standby mode, press the left soft key () **Menu**, then press , ,  for the **Ringer Type** sub menu. The following ringer types appear in the display.

**Calls**                      **Data**  
**Alarm**                    **Planner**



2. Use the navigation key to highlight a ringer type, then press . A pop-up menu with the following options appears in the lower left of the display.



**My Melody** doesn't contain ringers or tones, unless you've previously downloaded them over the air.





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### My melody Preloaded

3. Use the navigation key to highlight **Preloaded**, then press .
4. Use the volume keys to scroll through the ringer types and melodies for the selected ringer type. Each tone plays as you scroll through the list.
5. When the desired ringer type plays, press  to save.

## Key Beep





Key Beep allows you to adjust the volume level and length of tone that the keypad generates each time you press a key.

1. In standby mode, press the left soft key () **Menu**, then press , ,  for the Key Beep sub menu. **Volume** is highlighted.



2. Press .
3. Use the volume keys or navigation key to set the volume level for keypad tones.
4. Press  when the desired key beep volume setting is reached. You're returned to the Key Beep sub menu.
5. Use the navigation key to highlight **Tone Length**, then press .
6. Use the navigation key to highlight **Long** or **Normal**.
7. Press  to save your settings.

## Alerts

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






1. In standby mode, press the left soft key () **Menu**, then press , ,  for **Alerts**. The **Alerts** sub menus in the following table appear in the display.

Sub menu	Function
<b>Minute Beep</b>	Sound an alert ten seconds before each elapsed minute of a call.
<b>Service</b>	Sound an alert when you go into and out of coverage areas.
<b>Connect</b>	Sound an alert when you connect a call.
<b>Disconnect</b>	Sound an alert when you disconnect a call.
<b>Fade</b>	Sound an alert when a dropped call occurs during a conversation.
<b>Roam</b>	Sound an alert when you leave your home service area while on a call.
<b>Privacy</b>	Emit a tone whenever you are in enhanced privacy mode.

2. Use the navigation key to highlight a sub menu, then press .
3. Use the navigation left/right keys to activate (or not activate) the selected alerts.
4. Press  to confirm your selection.






## Power on/off

Set your phone to play a sound whenever you turn the phone on and off.

1. In standby mode, press the left soft key () **Menu**, then press , ,  for **Power On/Off**.
2. Use the navigation key to highlight **On** or **Off**, then press .






## Roam ringer

Set your phone to sound a unique tone when a call is received outside a network service area. This feature is set to **Off** by default.

1. In standby mode, press the left soft key () **Menu**, then press , ,  for **Roam Ringer**.
2. Use the navigation key to highlight **On** or **Off**, then press .




## Whisper mode

This feature allows you to talk in a low volume during a phone conversation and still be heard by the party.




1. In standby mode, press the left soft key () **Menu**, then press , ,  for **Whisper Mode**.
2. Use the navigation key to highlight **On** or **Off**, then press .

## Network

The Network sub menu allows you to set your preferred system. Contact MetroPCS for more information.

1. In standby mode, press the left soft key () **Menu**, then press ,  for **Network**. The network sub menus listed in the following table appear in the display.

Sub menu	Function
<b>Set NAM</b>	If your service contract has two phone lines, set the NAM option for NAM 2 to use both lines. Set to NAM 1 otherwise.
<b>Roam Option</b>	Set your phone's roaming options to Home only, Automatic-A, or Automatic-B.

2. Use the navigation key to highlight the desired sub menu, then press .
3. If you selected **Set NAM**, use the navigation key to highlight **NAM 1** or **NAM 2**, then press .
4. If you selected **Roam Option**, use the navigation key to highlight **Home only**, **Automatic-A** or **Automatic-B**, then press .





## Security

Use the Security sub menu to lock your phone, set up emergency numbers, enable or disable voice privacy, set restrictions, and other security options.


### Lock Phone

Locking the phone limits all outgoing calls except those to 911 and the three user-programmed emergency numbers. You can lock the phone manually, or set the phone to lock automatically when turned on. In Lock Mode, you can answer

calls, but you must unlock the phone to place calls (except to emergency and secret numbers).

1. In standby mode, press the left soft key () **Menu**, then press ,  for **Security**. You're prompted to enter the lock code. The default lock code is the last four digits of your telephone number.
2. Enter the lock code, then press  for **Lock Phone**. The options listed in the following table appear in the display.

Option	Function
<b>Never</b>	The phone remains unlocked.
<b>On power up</b>	The phone locks automatically the next time your phone is powered on and stays locked until you enter the lock code.
<b>Now</b>	The phone locks immediately and stays locked until you enter the lock code.




3. Use the navigation key to highlight the Lock Phone option of your choice.
4. Press  to perform the function for the highlighted option.




**Important!** If you change the NAM1 setting after setting the phone to lock upon power-up and did not program a number into NAM2, you won't be able to access your phone. You must call the Service Center to unlock your phone.

## Change Lock

The default lock code is generally the last four digits of your phone number. It is advisable to change the default lock code to a secret code for security purposes.

1. In standby mode, press the left soft key () **Menu**, then press ,  for **Security**. You're prompted to enter the lock code.

2. Press  for **Change Lock**. You're prompted to enter the new lock code.
3. Enter the new lock code. You're prompted to re-enter the new lock code for verification.
4. Enter the new lock code again. Your changes are stored.



Your phone does not allow you to view the lock code for obvious security reasons. If you change the lock code, be sure to write down or memorize the new code.

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## Emergency #

You have the option of storing up to three emergency numbers to your phone. Each number can be up to 32 digits in length. All emergency numbers can be dialed any time, even when your phone is locked or restricted.



Emergency number 911 is hard-coded into your phone. You can dial this number any time, even when the phone is locked or restricted. If you call 911 an audible tone is heard and an Emergency prompt appears in the display for the duration of the call.

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**Important!** Because of various transmission methods, network parameters, and user settings used to complete a call from your wireless phone, a connection cannot always be guaranteed. Therefore, emergency calling may not be available on all wireless networks at all times.




**Important!** DO NOT depend on this phone as a primary method of calling 911 or for essential or emergency calls.

Remember to always turn your phone on and check for adequate signal strength before placing a call.

## STORE EMERGENCY NUMBERS




1. In standby mode, press the left soft key () **Menu**, then press ,  for **Security**. You're prompted to enter the lock code. The default lock code is the last four digits of your telephone number.
2. Enter the lock code, then press  for **Emergency #**.
3. Press , , or  to select from the three entry openings.
4. Enter the emergency number (up to 32 digits in length).
5. Press  to save the number that you entered.
6. Press  to exit and return to the previous menu.


## CALL EMERGENCY NUMBERS IN LOCK MODE

1. In standby mode, enter the emergency number via the keypad.
2. Press  to place the call.


## Voice Privacy

Voice privacy allows you to prevent those you call from seeing your number in their display when receiving your call. Voice privacy options are Standard and Enhanced.

1. In standby mode, press the left soft key () **Menu**, then press ,  **Security**. You're prompted to enter the lock code.
2. Enter the lock code. The default lock code is the last four digits of your phone number.







3. Press  for **Voice Privacy**. The options listed in the following table appear in the display.

Option	Function
<b>Standard</b>	Voice privacy is disabled.
<b>Enhanced</b>	Voice privacy is enabled.

4. Use the navigation key to highlight the **Voice Privacy** option of your choice, then press .




## Restriction



Restriction allows you to restrict outgoing calls, incoming calls, and calls placed from your Contacts.

1. In standby mode, press the left soft key ( **Menu**), then press ,  **Security**. You're prompted to enter the lock code.
2. Enter the lock code, then press  for **Restriction**.
3. Use the navigation key to highlight **Outgoing**, **Incoming**, or calls to anyone in your **Contacts**.
4. Press .
5. Use the navigation key to highlight **Yes** or **No**, then press .

## Erase memory






Erase memory erases your Contacts and Voice Dial recordings. This feature is useful if you want to give your phone to a friend or family member.

1. In standby mode, press the left soft key ( **Menu**), then press ,  **Security**. You're prompted to enter the lock code.

2. Enter the lock code, then press  for **Erase Memory**. A confirmation prompt appears in the display.
3. Use the navigation key to highlight **Yes** or **No**, then press . A confirmation message appears in the display while your messages are being erased. Your phone then returns to the **Security** menu.

## Reset Phone

Reset Phone returns all setup options to their factory default.





1. In standby mode, press the left soft key () **Menu**, then press ,  **Security**. You're prompted to enter the lock code.
2. Enter the lock code, then press  for **Reset Phone**. A prompt appears in the display to restore default settings (except for Contacts and Voice Dial).
3. Use the navigation key to highlight **Yes** or **No**, then press .

## Call Options


The Call Options sub menu allows you to set call options such as Auto Retry, Data rates for data calls, and more.

### Auto Retry

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





1. In standby mode, press the left soft key () **Menu**, then press , ,  for **Auto Retry**. The Auto Retry sub menu appears in the display with the following options.

<b>Off</b>	<b>Every 10 sec</b>
<b>Every 30 sec</b>	<b>Every 60 sec</b>



- Use the navigation keys to highlight the desired setting, then press .

## Data

Use the Data sub menu to set the Auto Detect feature for when you receive data and to set the Data Baud Rate.



- In standby mode, press the left soft key () **Menu**, then press , ,  for **Data**. The sub menus listed in the following table appear in the display.





Sub menu	Function
<b>Auto Detect</b>	Set data auto detect capabilities. Options are data off, data for next call, and data until powered off.
<b>Baud Rate</b>	Set the baud rate for data connections. Options are Auto, 19200, 38400, 57600, 115200, and 230400.

- Use the navigation key to highlight the Data sub menu of your choice, then press .
- Use the navigation key to highlight **Auto Detect** or **Baud Rate**, then press .
- Select the Auto Detect or Baud Rate settings as desired.


## Call Answer

You can select a specific answer mode when you receive an incoming call. Your phone can be preset to answer when you do any of the following:

- Send key:** Press  to answer an incoming call.
- Folder open:** Open the folder to answer an incoming call.
- Any key:** Press any key except  to answer an incoming call.





1. In standby mode, press the left soft key () **Menu**, then press , ,  for **Call Answer**. The following Call Answer sub menus appear in the display:

**Send Key**  
**Folder Open**  
**Any Key**


2. Use the navigation key to highlight the method you want to use for answering calls, then press .

## Auto Answer

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





1. In standby mode, press the left soft key () **Menu**, then press , ,  for **Auto Answer**. The following Auto Answer sub menus appear in the display:



**Off**  
**After 5 sec**  
**After 3 sec**  
**After 1 sec**

2. Use the navigation key to highlight the desired setting, then press .

## TTY/TDD




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

1. In standby mode, press the left soft key () **Menu**, then press , , . **TTY Full** and **TTY Off** appear in the display.

2. Use the navigation key to highlight your selection and press . You're returned to the previous menu and the TTY icon () appears in the top of the display.

## Shortcut

The up navigation key can be customized to launch any one of numerous applications or functions from standby mode. Use the Shortcut sub menu to choose the application that you want the navigation up key to launch.

1. In standby mode, press the left soft key () **Menu**, then press ,  for **Shortcut**. The following functions appear in the display.

**Scheduler**

**Ringer Type**

**Calculator**


**Voice Memo**

**Gallery**

**Memo Pad**

**Animation**




**Alarm**

2. Use the navigation key to highlight the desired function, then press .

You can now press the navigation up key in standby mode to launch the selected function.


## Language

The language option changes the language of menus, sub menus, and other user-interface features.

1. In standby mode, press the left soft key () **Menu**, then press ,  for **Language**. The Language sub menu appears in the display with the following options.

**English**

**Spanish**

2. Use the navigation key to highlight your language preference, then press .

## Clock Set

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Clock set is disabled in digital service mode.

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## Version

You can view both the software and hardware versions on your phone. This feature is helpful if you need to contact Customer Service.

1. In standby mode, press the left soft key () **Menu**, then press ,  for **Version**. Hardware and software information for your phone appears in the display.
2. Press  to return to the Setup menu.

# Usage guidelines: all about performance and safety

## Getting the Most Out of Your Reception

The quality of each call you make or receive depends on the signal strength in your area. Your phone informs you of the current signal strength by displaying a number of bars next to the signal strength icon. The more bars displayed, the stronger the signal.

If you're inside a building, being near a window may give you better reception.

## Understanding the Power Save Feature

If your phone is unable to find a signal after 15 minutes of searching, a Power Save feature is automatically activated. If your phone is active, it periodically rechecks service availability or you can check it yourself by pressing any key. Anytime the Power Save feature is activated, a message displays on the screen. When a signal is found, your phone returns to standby mode.

## Understanding How Your Phone Operates

Your phone is basically a radio transmitter and receiver. When it's turned on, it receives and transmits radio frequency (RF) signals. When you use your phone, the system handling your call controls the power level. This power can range from 0.006 watts to 0.2 watts in digital mode.

## Knowing Radio Frequency Safety

The design of your phone complies with updated NCRP standards described below.

In 1991-92, the Institute of Electrical and Electronics Engineers (IEEE) and the American National Standards Institute (ANSI) joined in updating ANSI's 1982 standard for safety levels with respect to human exposure to RF signals. More than 120 scientists, engineers and physicians from universities, government health agencies and industries developed this updated standard after reviewing the available body of research. In 1993, the Federal Communications Commission (FCC) adopted this updated standard in a regulation. In August 1996, the FCC adopted hybrid standard consisting of the existing ANSI/IEEE standard and the guidelines published by the National Council of Radiation Protection and Measurements (NCRP).

## Maintaining Your Phone's Peak Performance

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For the best care of your phone, only authorized personnel should service your phone and accessories. Faulty service may void the warranty.

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There are several simple guidelines to operating your phone properly and maintaining safe, satisfactory service.

- Hold the phone with the antenna raised, fully-extended and over your shoulder.
- Try not to hold, bend or twist the phone's antenna.
- Don't use the phone if the antenna is damaged.
- Speak directly into the phone's receiver.
- Avoid exposing your phone and accessories to rain or liquid spills. If your phone does get wet, immediately turn the power off and remove the battery. If it is inoperable, return it to MetroPCS or call Customer Care for service.

## Maintaining Safe Use of and Access to Your Phone

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

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS.

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

FOR CONNECTION TO A SUPPLY NOT IN THE U.S.A., USE AN ATTACHMENT PLUG ADAPTOR OF THE PROPER CONFIGURATION FOR THE POWER OUTLET.

### 10 Driver Safety Tips

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

When driving a car, driving is your first responsibility. When using your wireless phone behind the wheel of a car, practice good common sense and remember the following tips:

1. Get to know your wireless phone and its features such as speed dial and redial. If available, these features help you to place your call without taking your attention off the road.
2. When available, use a hands free device. If possible, add an additional layer of convenience and safety to your wireless phone with one of the many hands free accessories available today. Please Note: Hands free devices are required by law in some areas. You are

solely responsible for ensuring that your phone use complies with all applicable laws.

3. Position your wireless phone within easy reach. Be able to access your wireless phone without removing your eyes from the road. If you get an incoming call at an inconvenient time, if possible, let your voice mail answer it for you.
4. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow, ice, and even heavy traffic can be hazardous.
5. Do not take notes or look up phone numbers while driving. Jotting down a “to do” list or flipping through your address book takes attention away from your primary responsibility, driving safely.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.
7. Do not engage in stressful or emotional conversations that may be distracting. Make people you are talking with aware you are driving and suspend conversations that have the potential to divert your attention from the road.
8. Use your wireless phone to call for help. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident or medical emergencies. Remember, it is a free call on your wireless phone!

9. Use your wireless phone to help others in emergencies. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.
10. Call roadside assistance or a special non-emergency wireless assistance number when necessary. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or other special non-emergency number.

## Following Safety Guidelines

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Always turn off the phone in health care facilities and request permission before using the phone near medical equipment.

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To operate your phone safely and efficiently, always follow any special regulations in a given area. Turn your phone off in areas where use is forbidden or when it may cause interference or danger.

## Using Your Phone Near Other Electronic Devices

Most modern electronic equipment is shielded from radio frequency (RF) signals. However, RF signals from wireless phones may affect inadequately shielded electronic equipment.

RF signals may affect improperly installed or inadequately shielded electronic operating systems and/or entertainment systems in motor vehicles. Check with the manufacturer or their representative to determine if these systems are adequately shielded from external RF signals. Also check

with the manufacturer regarding any equipment that has been added to your vehicle.

Consult the manufacturer of any personal medical devices, such as pacemakers and hearing aids, to determine if they are adequately shielded from external RF signals.

## Turning Off Your Phone Before Flying

Turn off your phone before boarding any aircraft. To prevent possible interference with aircraft systems, the U.S. Federal Aviation Administration (FAA) regulations require you to have permission from a crew member to use your phone while the plane is on the ground. To prevent any risk of interference, FCC regulations prohibit using your phone while the plane is in the air.

## Turning Off Your Phone in Dangerous Areas

To avoid interfering with blasting operations, turn off your phone when in a blasting area or in other areas with signs indicating that two-way radios should be turned off.

Construction crews often use remote-control RF devices to set off explosives.



Never transport or store flammable gas, liquid or explosives in the compartment of your vehicle that contains your phone or accessories.

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Turn off your phone when you're in any area that has a potentially explosive atmosphere. Although it's rare, your phone or its accessories could generate sparks. Sparks could cause an explosion or a fire resulting in bodily injury or even death.

These areas are often, but not always, clearly marked, and they include:

- Fueling areas such as gas stations.
- Below deck on boats.
- Fuel or chemical transfer or storage facilities.
- 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's engine.

## Restricting Children's Access to your Phone

Your phone is not a toy. Children should not be allowed to play with it because they could hurt themselves and others, damage the phone or make calls that increase your phone bill.

## Caring for the Battery

The guidelines listed below help you get the most out of your battery's performance.

- Use only Samsung-approved batteries and desktop chargers. These chargers are designed to maximize battery life. Using other batteries or chargers voids your warranty and may cause damage.
- In order to avoid damage, charge the battery only in temperatures that range from 32° F to 104° F (0° C to 40° C).
- Don't use the battery charger in direct sunlight or in high humidity areas, such as the bathroom.
- Never dispose of the battery by incineration.
- Keep the metal contacts on top of the battery clean.
- Don't attempt to disassemble or short-circuit the battery.
- The battery may need recharging if it has not been used for a long period of time.

- It's best to replace the battery when it no longer provides acceptable performance. It can be recharged hundreds of times before it needs replacing.

Don't store the battery in high temperature areas for long periods of time. It's best to follow these storage rules:

Less than one month:

32° F to 131° F (0° C to 55° C)

More than one month:

32° F to 104° F (0° C to 40° C)

## Disposal of Lithium Ion (Li-Ion) Batteries

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For safety, do not handle a damaged or leaking Li-Ion battery.

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For safe disposal options of your Li-Ion batteries, contact your nearest Samsung-authorized service center.

**Special Note:** Be sure to dispose of your battery properly. In some areas, the disposal of batteries in household or business trash may be prohibited.

## Acknowledging Special Precautions and FCC

### FCC Notice

The phone may cause TV or radio interference if used in close proximity to receiving equipment. The FCC can require you to stop using the phone if such interference cannot be eliminated.

Vehicles using liquefied petroleum gas (such as propane or butane) must comply with the National Fire Protection Standard (NFPA-58). For a copy of this standard, contact the National Fire Protection Association, One Batterymarch Park, Quincy, MA 02269, Attn: Publication Sales Division.

## **Cautions**

Any changes or modifications to your phone not expressly approved in this document could void your warranty for this equipment, and void your authority to operate this equipment. Only use approved batteries, antennas and chargers. The use of any unauthorized accessories may be dangerous and void the phone warranty if said accessories cause damage or a defect to the phone.

Although your phone is quite sturdy, it is a complex piece of equipment and can be broken. Avoid dropping, hitting, bending or sitting on it.

## **Body-Worn Operation**

To maintain compliance with FCC RF exposure guidelines, if you wear a handset on your body, use the Samsung supplied or approved carrying case, holster or other body-worn accessory. If you do not use a body-worn accessory, ensure that the antenna is at least one inch (2.5 centimeters) from your body when transmitting. Use of non- Samsung approved accessories may violate FCC RF exposure guidelines.

For more information about RF exposure, please visit the FCC website at [www.fcc.gov](http://www.fcc.gov).

## **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 radio frequency (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 known 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 1.46 W/kg and when worn on the body, as described in this user guide, the highest SAR value is 1.29 W/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 **A3LSCHA670**.

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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.

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

## **FDA Consumer Update**

### **Do wireless phones pose a health hazard?**

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radio frequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

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

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

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

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

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

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Committee
- Occupational Safety and Health Administration

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

FDA shares regulatory responsibilities about wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones.

FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the

wireless exposures that people get from these base stations are typically thousands of times lower than those they get from wireless phones. Base stations are thus not the subject of the safety questions discussed in this document.

### **What kinds of phones are the subject of this update?**

The term “wireless phones” refers here to hand-held wireless phones with built-in antennas, often called “cell,” “mobile,” or “PCS”. These types of wireless phones can expose the user to measurable radio frequency energy (RF) because of the short distance between the phone and the user’s head.

These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person’s RF exposure decreases rapidly with increasing distance from the source. The so-called “cordless phones” which have a base unit connected to the phone wiring in a house, typically operate at far lower per levels, and thus produce RF exposures far below the FCC safety limits.

### **What are the results of the research done already?**

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radio frequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor

development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glaucoma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phones RF exposures. However, none of the studies can answer questions about long-term exposures, since average period of phone use in these studies was around three years.

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

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but ten or more years' follow-up may be needed to provide answers about some health effects, such as cancer. This is because the

interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

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

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

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

FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad

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

## **How can I find out how much radio frequency energy exposure I can get by using my wireless phone?**

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radio frequency energy (RF) exposures. FCC established these guidelines in consultation with FDA and other federal health and safety agencies. The FCC limit for exposure from wireless telephones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissue that absorb energy from the wireless phone and is set well below levels known to have effects.

Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (<http://www.fcc.gov/oet/rfsafety>) gives directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

## **What has FDA done to measure the radio frequency energy coming from wireless phones?**

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radio frequency energy (RF) exposure from wireless phones and other wireless hand sets with the participation and leadership of FDA scientists and engineers. The standard,

“Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques,” sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue-simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guidelines.

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

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

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

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

### **What about children using wireless phones?**

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radio frequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.

Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

### **What about wireless phone interference with medical equipment?**

Radio frequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This

test method is now part of a standard sponsored by the Association for the Advancement of Medical Instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed on late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI.

FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a “compatible” phone and a “compatible” hearing aid at the same time. This standard was approved by the IEEE in 2000.

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

### **Where can I find additional information?**

For additional information, please refer to the following resources:

- FDA web page on wireless phones  
(<http://www.fda.gov/cellphones>)
- Federal Communications Commission (FCC) RF Safety Program  
(<http://www.fcc.gov/oet/rfsafety>)
- International Commission on Non-Ionizing Radiation Protection  
(<http://www.icnirp.de>)

- World Health Organization (WHO) International EMF Project  
(<http://www.who.int/peh-emf>)
- National Radiological Protection Board (UK)  
(<http://www.nrpb.org.uk>)

## CTIA Safety Information

### Exposure to radio frequency signals

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

In August, 1996, the Federal Communications Commissions (FCC) adopted RF exposure 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 standard 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 specified or 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.

### **TIPS ON EFFICIENT OPERATION:**

For your phone to operate most efficiently:

- Extend your antenna fully.
- Do not touch the antenna unnecessarily when the phone is in use. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed.

## Driving

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 safety is your first responsibility.
- Use hands-free operation, if available.
- Pull off the road and park before making or answering a call if driving conditions so require.

## Electronic devices

Most modern electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against 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 hand-held 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 pacemaker 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.

### **HEARING AIDS**

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider (or call the customer service line to discuss alternatives.) *Optional for each phone manufacturer.*

### **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 potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

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 transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.

### **For vehicles equipped with an air bag**

An air bag inflates with great force. DO NOT place objects, including both installed or portable wireless equipment, in the area over the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

## 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: SCH-A670

Serial No.:

## User Guide Proprietary Notice

CDMA Technology is licensed by QUALCOMM Incorporated under one or more of the following patents:

4,901,307    5,109,390    5,267,262    5,416,797

5,506,865    5,544,196    5,657,420    5,101,501

5,267,261    5,414,796    5,504,773    5,535,239

5,600,754    5,778,338    5,228,054    5,337,338

5,710,784    5,056,109    5,568,483    5,659,569

5,490,165    5,511,073

T9 Text Input is licensed by Tegic Communications and is covered by U.S. Pat. 5,818,437, U.S. Pat. 5,953,541, U.S. Pat. 6,011,554 and other patents pending.

# Limited Warranty

## 1. What is Covered and For How Long?

SAMSUNG TELECOMMUNICATIONS AMERICA, L.P. (“SAMSUNG”) warrants the original (“Purchaser”) that SAMSUNG’s phones and accessories (“Products”) are free from defects in material and workmanship under normal use and service for a period commencing on the date of purchase and continuing for the specified period of time after the date:

- Phone - 1 year
- Batteries - 1 year
- Leather Cases/Pouch - 90 Days
- Holster - 90 Days
- Other Phone Accessories - 1 year

## 2. What is Not Covered?

The limited warranty is conditioned upon proper use of Product by Purchaser. This limited warranty does not cover: (a) defects or damage resulting from accident, misuse, abuse, neglect, unusual physical, electrical, or electromechanical stress, modifications of any part of the Product, including antenna, or cosmetic damage; (b) equipment that has the serial number removed or made illegible; (c) any plastic surfaces or other externally exposed parts that are scratched or damaged due to normal usage; (d) malfunctions resulting from the use of Product in conjunction with the accessories, products, ancillary, or peripheral equipment not furnished or approved by SAMSUNG; (e) defects or damage from improper testing, operation, maintenance, installation, or adjustment; (f) installation, maintenance, and service of product, or (g) Product used or purchased outside the

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### **3. What are SAMSUNG's Obligations?**

During the applicable warranty period, SAMSUNG will repair or replace at SAMSUNG's sole option, without charge to purchaser, any defective component part of the phone or accessory. To obtain service under this limited warranty, purchaser must return Product to an authorized phone service facility in an adequate container for shipping, accompanied by Purchaser's sales receipt or comparable proof of sale showing the date of purchase, the serial number of Product, and the seller's name and address. To obtain information on where to deliver the phone or accessory, call your service provider or Samsung Customer Care at (888) 987-4357. Upon receipt, SAMSUNG will promptly repair the defective product. SAMSUNG may, at SAMSUNG's sole option, use rebuilt, reconditioned, or new parts or components when repairing any product or replace a product with a rebuilt, reconditioned, or new product. Repaired products will be warranted for a period equal to the remainder of the original limited warranty on the original product or for 90 days, whatever is longer. All replaced parts, components, boards, and equipment

becomes the property of SAMSUNG. If SAMSUNG determines that any product is not covered by this limited warranty, purchaser must pay all parts, shipping, and labor charges for the repair or return of said product.

**4. What Are the Limits On SAMSUNG's Liability?**

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