SCH-N150 Series

P O R T A B L E

C E L L U L A R

T E L E P H O N E

User's Guide

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

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Introduction to the SCH-N150 phone

Congratulations on the purchase of your Samsung SCH-N150 phone. Using the latest digital technology, the N150 phone operates on the same basis as other wireless phones while providing superior resonance and tone quality.

The SCH-N150 phone is packed with productive features that are easy to use.

Here are some of them:

- Operates in 1900 MHz digital CDMA, 800 MHz digital CDMA, and 800 MHz analog networks.
- Voice Dialing – 20 Locations
- Answer and end calls just by opening and closing the phone's flip cover
- User friendly display with dedicated icons for signal strength, service, roaming, messages, vibrator, and battery
- 5 Monotone Ring Types, 15 Melody Tones
- Distinctive ringer types for voice, message, and alarm calls
- Distinctive ringer volumes for voice, message, and alarm calls
- Phone Book Memory – 100 Locations
- Call Logs – 10 Locations each for outgoing, incoming, and missed calls. These 30 Call Log numbers are all easy to redial.
- Two-Way Short Message Services (SMS) and Voicemail Notification
- Internet MiniBrowser
- Pause Dialing for tele-services
- Fast Ringer Mute during Incoming Call
- Alarm clock with programmable alarm
- Last number redial – last 10 Numbers
- One-touch Turbo dialing – 9 Locations
- Two-touch Turbo dialing – 90 Locations
- Three-touch Turbo dialing – 1 Location
- Easily mute the microphone during conversation
- Security features including Call Restriction, Emergency/Secret Number capability, and Lock mode
- Fax and Data capability
- Selectable English/Spanish user interface

How To Use This User Guide

This user guide explains your Samsung N-150 phone operations through easy-to-follow instructions and illustrations. Check out "Getting to know your phone" on page 15 to get started understanding the functions of your phone. You'll find much of what you need to know about using your new Samsung SCH-N150 phone right here.

We've included some important safety and usage information that you should know before using your phone. You'll find this information in "Usage guidelines — all about performance and safety" on page 122.

If you still have questions, we'll be happy to answer them. Just call our Samsung Customer Care Center toll-free at 1.888.987.HELP (4357).

We hope you enjoy using your new Samsung SCH-N150 Series Phone, and thanks for choosing Samsung.

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.Your consumer package

Your consumer package contains the following items:

- Samsung SCH-N150 phone with hand strap

- Samsung standard Li-Ion battery

- Samsung travel adaptor

- User guide

Front view of the SCH-N150

Antenna

LED

Headset/Earbud Connector

Speaker

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Display screen

Toggle
OK key
MENU   OK/✉
Menu key
Send key
SEND   END/○
End key
Clear key
C

1.~'   2 ABC   3 DEF
4 GHI   5 JKL   6 MNO
7 PQRS   8 TUV   9 WXYZ
✳ Shift   0 Next   # Space

Keypad

Microphone

Adaptor outlet

Phone's flip cover

Getting to know your phone

Antenna

The antenna is a device for transmitting or receiving signals. The shape and size of the antenna is determined, in part, by the frequency of the signals that they receive. An antenna makes the call sound clearer when it is fully extended. Use only in the normal position and do not touch the antenna unnecessarily when the phone is active.

Backlight features

Your keypad has backlighting for easy visibility. For further information on this feature see "Backlight" on page 81.

C (Clear) key

This ![C] key is used to erase numbers or characters that may have been incorrectly entered, or it can be used to return to a previous screen.

*   If an incorrect number or character has been entered on the display screen, press ![C] once briefly, to erase it.
*   To erase all digits or characters from the display screen, press ![C] for two seconds.
*   To back up one menu level, press ![C] once, briefly.
*   To return to standby mode from any menu, press ![C] for two seconds.

Display screen

The display screen comprises of two areas, an upper line of stationary icons, and the lower text and graphic area.

*   The top line of icons shown on the LCD (liquid crystal display), appear according to the phone's operating mode. For further information see "Turning your phone on" on page 19.

- The lower area of the LCD displays in-use information, for example (if available), the calling party's name and number, the call timer, Mute and Call Waiting, as well as menus, sub menus etc.

End (power on/off) key

This END/⊙ key is utilized in several ways:

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

Front flip (phone cover)

Closing your phone's flip cover ends a call, except when you are sending new messages from the Mail Kit menu, or wearing an earbud or headset. There are several options that can be set when you open the phone's flip cover:

- **Answer an incoming call:** To set this option, and for further information see "Answer mode" on page 92
- **Voice Dial an individual:** To set this option, and for further information see "Set active" on page 87.
- **Control the backlight:** To set this option, and for further information see "Backlight" on page 81.

Headset connector

This is where the optional hands free headset is connected. The headset includes an earbud and microphone in a convenient, lightweight unit so you can converse without using your hands. For further information see "How to order accessories" on page 124.

- Before inserting the hands-free headset connector to your phone, gently pry open the top of the cover to expose the headset connector.

LED indicator

The LED indicator flashes to indicate an incoming call or message. When you have the phone closed and the ringer set to off, the LED indicator will notify you of an incoming call or message.

• The LED indicator lights momentarily when you power up the phone.

Menu key

Press ▰ᴹᴱᴺᵁ▰ to enter the menu facility.

Microphone

A typical microphone used for conversation and recording.

Numeric keypad

Use these keys to enter text, numbers, and special characters.

OK/Message key

When in the menu facility, the ◢ᴼᴷ/✉◣ key stores information that you have entered, and also acts as an "OK" button when pressed. When in standby mode, ◢ᴼᴷ/✉◣ functions as a Mail Kit menu access key to send messages and review received messages.

Speaker

The speaker is for listening to voice conversations.

Send key

The ◢SEND◣ key performs several useful functions:

• Press ◢SEND◣ once to answer calls.

• Enter a number and press ◢SEND◣ once, to connect.

• Press ◢SEND◣ twice in standby mode to redial the last outgoing number.

Toggle

The toggle allows you to locate different menu options by pressing the appropriate arrow.

When in standby mode the toggle can act as a hot key. You can locate the Phone Book menu options by pressing the left arrow. You can access, and then change the ringer volume by pressing either the up or down arrow, and pressing the right arrow allows you to access the Web menu.

Adaptor outlet

The adaptor outlet is also used to connect your phone to a wireless data device or a hands-free car kit (both sold separately). The adaptor outlet is located at the bottom of the phone.

• Before using, gently pry the cover from the bottom of the phone to expose the adaptor outlet.

• To charge your battery, plug the travel adaptor that is supplied with your phone into a wall outlet.

• Using your thumb and first finger, gently squeeze the two buttons located on either side of the other end of the travel adaptor and insert the adaptor into your phone's outlet. The yellow arrow on the travel adaptor should be facing upwards and pointing toward the phone.

• When you unplug the travel adaptor from your phone, squeeze these same two buttons, and pull gently on the adaptor to disconnect it from the phone without causing damage to either device.

Getting Started

Getting service

You must contact the service carrier of your choice and follow their instructions for obtaining service for your Samsung N150 phone. It is suggested that you read this user guide to fully understand the services that your phone supports.

Turning your phone on

When you are ready to turn your phone on, fully extend the antenna for the clearest reception. Open the phone's flip cover and press [ENDo], continue to hold this key down for more than one second to power the phone on:

Note: Your phone has a built-in antenna. As with any other radio-transmitting device, do not touch the antenna as it affects call quality and can cause the phone to operate at a higher power level than is necessary.

The LED indicator momentarily lights, and a power-up alert sounds. The phone begins searching for a network signal, when found, the date, day, and time display, the phone enters standby mode. Your phone is now ready to place and receive calls.

If the phone is out-of-service the [icon] icon displays. If this happens you cannot place or receive calls. You must try later when service becomes available. For further information see "The top line of the display screen" on page 29

Turning your phone off

To turn your phone off, press and hold [ENDo] down for more than two seconds. Notice that when the phone is turned off, both the display screen and the backlight remain off.

Note: If your phone is on, and [ENDo] is pressed for less than one second, the phone will not power off. This feature prevents your phone from being turned off accidentally.

Several ways to answer a call

When you receive a call, the phone will ring and the phone icon $\curvearrowright$ is displayed on your screen. If the caller can be identified, the caller's phone number, (or name if pre-stored in your Phone Book), is displayed. If the caller cannot be identified, only the phone icon and "Call from Unavailable No" is displayed. For further information see "Answer mode" on page 92.

There are several ways to answer an incoming call.

*   Open the phone's flip cover.
*   Press **SEND**.
*   Press any key.
*   By setting the **Auto Answer** feature you can turn your phone to automatically answer a call after the ringer sounds by selecting:
    off, after 1 sec, after 3 sec, or **after 5 sec**.
    (For further information see "Setting auto answer" on page 43.)

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List of main and sub menus

This list displays the main menu structure, and shows the individual sub menus and features assigned to each main menu option.

1:Calls

    1:Outgoing
    2:Incoming
    3:Missed
    4:Erase Logs   Outgoing/Incoming/Missed/All
    5:Air Time
        1:Last Call
        2:Total
        3:LifeTime
        4:Erase Total

2:Phone Book

    1:Find Name
    2:Add Entry
    3:Find Entry
    4:RelationSrch
    5:Add E-mail

3:Web

    1:Get In Web
    2:Prompt   None/To Start/To End/Both

4:Scheduler

    1:Today
    2:View Month
    3:Jump To Date
    4:To Do List
    5:Count Down
    6:World Time
    7:Calculator
    8:Alarm

5:Sounds

    1:Ringer Vol
        1:Calls
        2:Alarm
    2:Ringer Type
        1:Voice Calls
        2:Alarm
        3:Data/Fax In
        4:Schedule
    3:Key Beep

	4:Alerts	
	1:Minute Beep	On/Off
	2:Service	On/Off
	3:Connect	On/Off
	4:Disconnect	On/Off
	5:Fade	On/Off
	6:Roam	On/Off
	7:Privacy	On/Off
	5:Voice Volume	
	6:Roam Ringer	On/Off
	7:Pwr On/Off	On/Off
6:Display		
	1:Backlight	Always Off/7 Seconds/15 Seconds/30 Seconds/Flip Open
	2:Banner	
	3:My Phone #	
	4:Language	
	5:Set Time	
	6:Auto Hyphen	Yes/No
	7:Version	
7:Voice Dial		
	1:Record	
	2:Review	
	3:Erase All	
	4:Set Active	[*] Only, [*]/Flip
8:Games		
	1:Flying tight	
	2:Run for Money	
9:Set Up		
	1:Auto Retry	off/every 10 seconds/every 30 seconds/every 60 seconds
	2:Auto Answer	off/after 1 sec/after 3 sec/after 5 sec
	3:Answer Mode	By any key/By flip open/By send key
	4:Tone Length	long/normal
	5:Set NAM	NAM 1/NAM 2
	6:Set System	Home only/Automatic-A/Automatic-B
	7:Data/Fax	data-fax off/fax for next call/fax until powered off/ data for next call/data until powered off
	8:Set Network	1-Time Analog Call/Automatic
	9:Whisper Mode	On/Off
0:Security		
	1:Lock Mode	Never/On power up/Now
	2:Restrict	No/Yes
	3:Lockcode	
	4:Emergency #	1/2/3
	5:Send PIN	Never/Prompt
	6:Clear MEM	Proceed
	7:Reset Phone	Proceed
	8:Voice Privacy	standard/enhanced

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Mail Kit

- 1:New Messages
  - 1:Send To   PhoneBook/T9 Word/ABC/Symbol/123
  - 2:Message
  - 3:Call Back
  - 4:Options   Priority/Validity/Send Later/Delivery Ack/Message
  - 5:Action   SEND:Send Msg/OK:File Msg/CLR:Cancel/END:Quit
- 2:Voice
- 3:Inbox
- 4:Outbox
- 5:Filed Msg
- 6:Web Alert
- 7:Erase Msg
  - 1:Voice
  - 2:OldInbox
  - 3:NewInbox
  - 4:Outbox
  - 5:Filed
  - 6:All Messages
- 8:Msg Setup
  - 1:General
    - 1:Scroll Timer   1/2/3/4/5 seconds/Off
    - 2:Msg. Reminder   Every 2 mins/Off/Once
    - 3:Message Volume
    - 4:Ringer Type
      - 1:Voice Mail
      - 2:Page
      - 3:Text
      - 4:Browser Msg
  - 2:New Message
    - 1:Callback#
    - 2:Save Message   Auto Save/Prompt Save/Do Not Save
    - 3:Entry Method   T9 Word/Alphabet
    - 4:Delivery Ack   On/Off
    - 5:Canned Msg.
      - 0:Yes
      - 1:No
      - 2:Call me
      - 3:Need directions
      - 4:Where are you?
      - 5:Will call later
      - 6:Busy
      - 7:On my way
      - 8:Will arrive 15 minutes
      - 9:Thank you

In-Use Menu (Can be opened only when on a call)

- 1:Mute/Quit
- 2:Calls   Outgoing/Incoming/Missed/Erase Logs/Air Time
- 3:Phone Book   Find Name/Add Entry/Find Entry/RelationSrch/Add E-mail
- 4:Silent/Quit
- 5:Send Tel #
- 6:My Phone #
- 7:Version
- 8:Voice Privacy
- SND:Send DTMF

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Using your phone's menus

The phone offers a range of functions that allow you to tailor the phone to your personal requirements. These functions are arranged in menus and submenus.

The menus and submenus can be accessed by toggling or using shortcuts.

Accessing menus using the toggle

Menu options are numbered but can also be accessed by use of the toggle. To use the toggle, press your thumb repeatedly on the arrow in the direction which you wish to go. Press right to go to the right, press down to go forward, press left to go in that direction, and press up to go backwards through the menu options. When your objective is reached, press OK/✉ to save or activate it. Below is an example of how to set the Connect tone.

1. In standby mode, press **MENU** to access the main menu options.

2. Use your thumb to press the toggle until the **Sounds** menu displays.

3. Press OK/✉ to select this option.

4. Again, use your thumb to toggle to highlight **Alerts.**

5. Press OK/✉ to open the **Alerts** menu.

6. Toggle to highlight **Connect.**

7. Press OK/✉ to open the **Connect** menu.

8. Use the down arrow on the toggle to highlight ***On**.

9. Press OK/✉ to save.

Note: *Should you wish to reset the Connect tone, toggle to highlight **Off**.

Returning to the previous menu

• When in most menu levels, you can return to the previous menu level by pressing **C**.

• You can also press **C** to exit the menu without saving the setting.

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Accessing menus using shortcut numbers

All main menus, menu levels, and menu content items are assigned numbers.

All menus and their contents can be accessed using these "Shortcut" numbers.

An example exercise for setting the **Connect** tone.

1.   In standby mode, press to access the main menu.

2.   Press for **Sounds**.

3.   Press for **Alerts**.

4.   Press for **Connect**.

5.   Toggle to highlight *On.

6.   Press to save.

Note: *Should you wish to reset the Connect tone, toggle to highlight **Off**.

Note: For further details, see "List of main and sub menus" on page 21 for numbers assigned to each menu and sub menu item.

Your phone's modes

Answer mode

With this option activated, your phone will allow you to select a specific mode when you receive an incoming call. For further information see "Several ways to answer a call" on page 20.

Digital mode

Your phone has some features that work only in digital service areas, the **D** icon indicates that your phone is operating in digital mode. If the digital icon is absent, your phone is operating in analog mode.

Input modes

Input modes are used for entering text, numbers and symbols into various screens. For further information see "Entering text, numbers, and/or symbols" on page 101.

Lock mode

When you lock your phone using the Lock Mode menu option, phone usage becomes restricted. You can receive messages and calls, but you cannot make an outgoing call until your phone is unlocked. You can unlock your phone, by following the prompts and entering the lock code.

Power save mode

Your phone comes with a power save feature that automatically activates if your phone is unable to find a signal after 15 minutes of searching. While this feature is active, the phone's battery charge is conserved. The phone automatically rechecks periodically for a signal. To manually force the phone to recheck for a signal, press any key. A message on the display screen will inform you when your phone is operating in the power save mode.

Silent mode

The "Silent Mode" feature allows you to instantaneously silence the ringer when in standby mode.

- With the phone in standby mode, press and hold ![#Space] for 2 seconds. "Entering Silent Mode" displays briefly. (The silent mode icon ![icon] displays on the standby screen.)

- To exit from "Silent Mode" press and hold ![#Space] for 2 seconds. The screen prompt "Exit Silent Mode" displays, and your phone automatically reactivates the previous ringer volume setting. (The silent mode icon ![icon] is removed from the standby screen.)

Standby mode

Standby mode is the fundamental state of your phone once your phone has found service. Your phone goes into standby mode soon after you power it on, or, if your phone is on, whenever you press ![END]. When in standby mode, you will see the power up animation (the animation displayed when you turn on your phone), service provider logo, month/date, (the day will display between parentheses), and time. If a feature of your phone is activated, the feature icon will also be displayed. Other active icons appear across the top line of the display.

While in standby mode, enter a phone number, and press ![SEND] to call it.

Press ![END] at any time to return to standby mode, but be careful; if you are on a call when you press ![END], you will return to standby mode and disconnect your call.

Messages can also be received when in standby mode, the alert tone will sound (unless turned off), when a new message is received.

The menu is accessed when you are in standby mode by pressing ![MENU]. For further details see "List of main and sub menus" on page 21 for a listing of the menu items.

Talk mode

You can place and answer calls only when your phone is turned on. When you are on a call your phone is in Talk mode. Pressing **MENU** will give you a list of the In-Use menu options.

Vibrate mode

In standby mode, press the up arrow on the toggle to adjust the ringer volume (11 levels) which include 1-beep, vibrate, and silent modes. When your phone vibrates, press **OK** to save. (The vibrate icon appears on the display.) To change the setting press the down arrow on the toggle to adjust the ringer volume, and press **OK** to save. The vibrate icon will be deleted from the display screen.

The top line of the display screen

Display indicators (or icons) appear across the top of your phone's display screen. The signal strength and battery strength icons will always appear, but other icons display based upon your phone's operating mode.

.
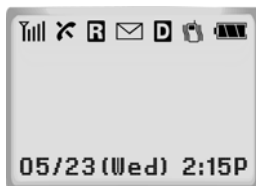
Signal strength: This icon always appears when your phone is on, and shows your current signal strength. More lines indicate more signal strength. Four lines indicate maximum strength, and one line indicates least strength.

Service indicator: This icon indicates a call is in progress. When the phone is calling a number, this icon will flash until the call is connected.

No service indicator: This icon indicates your phone cannot find a signal because you're outside a service area. When this is displayed, you cannot make or receive calls. Wait a little while for a signal or move into an open area.

Note: The no service indicator icon will always appear when you turn on your phone. As soon as service is located, the indicator will disappear.

Roaming: This icon displays when the phone is outside your carrier's area and your phone is receiving service from another carrier's network.

If you are:

- In your home service area, this indicator will not display.
- In a preferred analog or digital roaming area (where your service provider has a roaming agreement in place), this indicator will be on, but not flashing.
- In an analog or digital area that is not covered by your phone's own service provider, this indicator will be on.

New Message: This icon appears when a new voice, text, page or Web alert message has been received.

Digital mode: This icon indicates your phone is operating in digital mode. Your phone has some features that work only in a digital service area; these services include the Web Browser and certain other message(s) services. If this icon is absent, your phone is operating in analog mode.

Vibrate mode: This icon indicates that an incoming call will make the phone vibrate rather than ring. This feature can be used for situations where your ringer will not disturb others, or for "loud" situations where you will be unable to hear the ringer.

Battery strength: This icon is always displayed when your phone is active, it displays your battery charge level. The more black bars you see, the greater the charge. When the battery becomes very low, a flashing empty battery icon displays and the phone sounds an audible alert; this indicates that your phone is about to turn itself off.

Other phone icons

▤ **Duplicate:** This icon indicates that a duplicate message was sent.

@ **E-mail:** This icon represents an e-mail address.

▤ **Fax:** This icon represents a fax number.

▨ **Filed Message:** This icon displays if a message has been filed.

⌂ **Home:** This icon indicates represents an individual's home number.

✉ **Message:** Icon displays when outgoing messages are transmitted.

✉ **Message read:** This icon displays when you have read a message.

✉ **Message received:** This icon indicates that an incoming text, voicemail, page or browser message has been received.

▤ **Mobile:** This icon represents a mobile phone number.

M **Multi:** This icon displays if multi messages are successfully delivered.

❓ **No label:** This icon indicates that no label exists for this entry.

▤ **Office:** This icon represents an office number.

▭ **Pager:** This icon represents a pager number.

✉ **Send Delivered:** This icon displays if a sent message is delivered.

✉ **Send Failed:** This icon displays if a message failed to be sent.

▤ **Speed dial:** This icon displays when the number you wish to call is available using the speed dial feature.

🅿 **Voice privacy:** This icon indicates that voice privacy is enabled.

P **Voice privacy:** If an area supports voice privacy this icon displays.

▶▶ **Urgent:** This icon displays if a message is urgent.

Using the battery

Note: Your phone comes packaged with a partially charged, rechargeable standard Li-Ion battery. The phone can be used while the battery is charging, but must be fully charged the first time you use your phone otherwise the battery could be damaged.

Installing the battery

The battery attaches to the phone very easily:

1. Gently place the top end of the battery (The top end of the battery displays the word Samsung in raised letters), into the provided slots on the underside of the phone (place about half an inch away from the button in order to connect with the slots properly.)

2. Press the battery down and slide it toward the top of the phone until you hear it click into place.

Removing the battery

To remove the battery from your phone:

1. Turn the phone off (by pressing and holding until the closing animation begins.)

2. On the back side of the phone, hold the button down and push the battery toward the bottom edge of the phone (see illustration). The battery will then lift or fall away from the phone.)
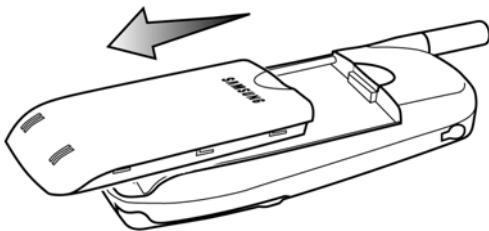
Charging the battery

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

When the phone has finished charging it can be disconnected.

Low battery indicator

You can tell whether or not your battery needs to be recharged by checking the battery indicator (this icon **▮▮▮** is located in the upper-right corner of the display screen). The presence of all three bars indicate a full charge. No bars (the battery icon is empty) means your battery must be charged.

The empty battery icon

Two to 3 minutes before the battery charge level gets too low to operate the phone, the battery sensor will let you know by blinking an empty battery icon (▭), and sounding a tone. If you continue to operate the phone without charging the battery, the phone will automatically turn off. If this happens, your wireless call will be terminated. However, if you plug into a charging device, you can continue your call. Be sure to monitor the battery strength icon and make certain your battery is adequately charged.

Caring for the battery

Protecting your battery

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

- Use only Samsung-approved batteries and adaptors. These adaptors are designed to maximize battery life. Using other batteries or adaptors voids your warranty and may cause damage.
- In order to avoid damage, charge the battery only in temperatures that range from 32º F to 113º F (0º C to 45º C).
- Don't use the battery adaptor 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: 4º F to 140º F (-20º C to 60º C)
  More than one month: 4º F to 113º F (-20º C to 45º C)

Disposal of Lithium Ion (Li-Ion) batteries

For safe disposal options of your Li-Ion batteries, contact your nearest Samsung Authorized Service Center.

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

Using the travel adaptor

The travel adaptor allows you to charge your phone's battery from any 110 volt AC standard wall outlet. Also, using the travel adaptor allows you to make a phone call while the battery is charging. The travel adaptor will fully charge an "empty" standard battery in approximately 4 hours, and an "empty" extended battery in about 6 hours.

Follow these steps:

1. With the battery in position in the phone, attach the cord from the travel adaptor by plugging it into the adaptor outlet at the bottom of the phone.

2. Connect the adaptor to a standard 110 volt AC wall outlet. The phone will automatically power on. The battery will begin charging immediately, and the LED will light and remain red while the battery icon animates, the icon will remain animated, even if the phone is turned off during charging.

3. The LED on the phone indicates the status of the battery being charged.

    - **Red** (solid) indicates that the battery is charging.
    - **Green** (solid) indicates that the battery is fully charged.
    - **Orange (**solid) indicates (1) the battery is not seated correctly in the phone, (2) the adaptor is not plugged in correctly, or (3) the battery is inoperable. Please check the adaptor and/or battery.

4. Make a phone call at your convenience when the phone is plugged into the travel adaptor. The adaptor will continue to charge the battery even when you are making the call!

Note: The battery charges faster when the phone is turned off.

Calls

Outgoing

To place a call press ![END/O] to power on your phone. The phone first shows an animated sequence and the icons discussed earlier display, this indicates your phone is on. (No dial tone will be heard). This is called standby mode.

1. Enter the phone number you wish to call (up to 32 digits), by pressing the numeric keys. The phone numbers display from left to right.

2. Press ![SEND] to place a call to the entered phone number.

•   A record of the last 10 calls made is stored to the "Outgoing" call log list.

Incoming

Your phone signals an incoming call or message in the following ways:

•   The backlight illuminates.
•   The red LED indicator flashes.
•   The ringer sounds (unless you have set the ringer to vibrate or off.)

Incoming call notification continues until one of the following events occurs:

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

Your phone provides the following voice call notification features.

•   Eleven ring volume settings including vibrate or off.
•   Five ring types, and fifteen melody tones (see "Ringer type" on page 75).
•   Name display with Caller ID. (If the caller's name is programmed into your Phone Book.)
•   Automatic storage of an incoming call's information to a call log. (The last 10 calls you answered are stored in an "Incoming" call log list and the last 10 calls you missed are stored in a "Missed" call log list).

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Missed

Your phone keeps a list of calls that you did not answer when the phone was active and service available. The phone indicates a missed call by displaying a text notification on the screen. Additionally, if caller information is available, a Missed call entry is created, and the screen displays the phone number of the most recent missed call.

Your phone has two convenient options for when you have missed a call:

• Press **SEND** to call the displayed number. (To view a call log of your missed calls, see "Reviewing outgoing, incoming, or missed calls" on page 38.)

• Press **C** to clear the "Missed Call" message from the display.

Erase logs

You can erase any one of the three call directories (Outgoing, Incoming or Missed), or you can erase all three directories together. To erase all directories:

1. In standby mode, press **MENU** to display the main menu.

2. Press **1.** for the **Calls** menu.

3. Press **4 GHI** for **Erase Logs**. The available options are **Outgoing**, **Incoming**, **Missed** and **All**.

4. Toggle **▼** up or down between these options.

5. Press **OK/✓** to erase all your call directories.

6. Press **C** to cancel the action and return to the previous menu.

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Reviewing outgoing, incoming, or missed calls

When a call log is displayed, press the number associated with the call log to be connected.

1. In standby mode, press **MENU** to display the main menu.

2. Press **1.-** for **Calls**.

    • Press the number associated with the call log to select an option:

    • Press **1.-** for **Outgoing** calls.

    • Press **2 ABC** for **Incoming** calls.

    • Press **3 DEF** for **Missed** calls.

3. When that call log option displays, toggle up or down to locate the call information you require. If there is a Phone Book match, the name displays. If there is no Phone Book match, only the phone number will display.

4. When an individual call log is highlighted:

    • Press **SEND** to be connected to that party.

    • Press to review all the available call information (name and phone number [if available] and time/date stamp.)

    • Press **MENU** for further options (**Talk** to call the number, **Save** to store the number to your **Phone Book**, or **Prepend** to prepend the number).

5. Press **C** to exit the call log, and return to the previous screen.

Keeping track of call activity

Your phone saves a record of calling activity that permits you to easily return calls.

Your phone retains these three call directories in memory:

* **Outgoing:** The last 10 calls placed from your phone.
* **Incoming:** The last 10 calls placed to your phone.
* **Missed:** The last 10 calls placed to your phone that you did not answer.

Each entry, or call log contains the name and/or (if available), phone number and a time/date stamp.

In addition to the Incoming, Outgoing, and Missed call directories, your phone maintains an air time log. For further information see "Air time" on page 40.

Viewing call logs during a conversation

1. Press ▬▬ to display the **In-Use** menu.

2. Press 2ABC for **Calls**.

3. Toggle ▬▬ to highlight an option. The available options are **Outgoing**, **Incoming** and **Missed**.

4. Press ◀OK/☰▶ to open the log of choice, or press 🅲 to cancel, and return to the previous screen.

Three way calling

To place a three way call:

1. Call the first party, and press SEND. When connected, ask them to remain on the line, press SEND and they will be placed on hold.

2. Call the second phone number, and press SEND.

3. When the second party answers, press SEND and all parties will be connected.

Note: If you have questions regarding the billing of three way calls please contact your service carrier. It is usual for you to be billed for both calls.

Air time

Your phone records (or logs), the amount of air time or talk time used for all calls.

You can view this time from standby mode:

1.   In standby mode, press **MENU** to display the main menu.

2.   Press **1.** for **Calls**.

3.   Press **5JKL** for **Air Time**.

4.   Toggle 〈 〉 to highlight an option. The available options are:

     Last Call, Total, LifeTime and **Erase Total.**

5.   Press **OK/☰** to open an option, or press **C** to cancel, and return to the previous screen.

Last call

Last call allows you to review the amount of time spent on the last call you made.

1.   In standby mode, press **MENU** to display the main menu.

2.   Press **1.** for **Calls**.

3.   Press **5JKL** for **Air Time**.

4.   Press **1.** for **Last Call**. The amount of time spent on your last call displays.

5.   Press **C** to return to the previous display screen.

Total

Total air time is the cumulative amount of time the phone has been used since the total air time was last erased. Air time for all incoming and outgoing calls is saved here. This feature is not intended for billing purposes.

1. In standby mode, press [MENU] to display the main menu.

2. Press [1] for **Calls**.

3. Press [5JKL] for **Air Time**.

4. Press [2ABC] for **Total**.

    The screen displays the total number of calls and the total air time for calls made and received since you last set the **Total** air time to zero (by using the "**Erase Total**" option.)

5. Press [C] to return to the previous display screen.

LifeTime

LifeTime air time is the amount of time the phone has been used since it was first activated. Air time for all incoming and outgoing calls is saved here. This feature is not intended for billing purposes.

Note: You cannot erase any information created by this option.

1. In standby mode, press [MENU] to display the main menu.

2. Press [1] for **Calls**.

3. Press [5JKL] for **Air Time**.

4. Press [3DEF] for **LifeTime**.

    The screen displays the total number of calls made from this phone, and the total amount of air time used since this phone was set-up. This information cannot be erased.

5. Press [C] to return to the previous display screen.

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Erase total

If you choose the Erase Total option, the counter for all air times with the exception of LifeTime, will be set to "zero". The counter will begin counting the next time you make or receive a call.

To erase your total air time.

1. In standby mode, press [MENU] to display the main menu.

2. Press [1.-] for **Calls**.

3. Press [5JKL] for **Air Time**.

4. Press [4GHI] for **Erase Total**. Toggle to highlight **Yes** or **No**.

5. With **Yes** highlighted, press [OK/☰] to erase the total airtime and return to standby mode, or press [C] to cancel the operation and return to the previous display screen.

Phone Book

Your phone permits you to store up to 100 numbers and names in the Phone Book. Each entry can have up to 7 associated phone numbers and one e-mail address. Each entry can contain up to 32 digits including hard pauses, with an associated name of up to 12 characters. (Name entry is optional) Stored phone numbers can be placed into one of seven categories - Speed dial, Home, Office, Mobile, Pager, Fax and No label. You can even specify the memory location of your choice for each entry. Memory locations can be marked "Secret" preventing the unauthorized from viewing the telephone number.

One-Touch and Two-Touch Dialing from your Phone Book makes it easy to call a phone number stored in your Phone Book. See "Shortcuts to memory dialing" on page 60.

Setting auto answer

With this option activated, your phone will automatically answer calls after the specified number of seconds. This options is useful when driving.

If Auto Answer is set to 'Off' the phone will not answer an incoming call. If you do not answer the call it is automatically stored in the Missed Call log.

To enable Auto Answer.

1. In standby mode, press **MENU** to display the main menu.

2. Press **9 WXYZ** for **Setup**.

3. Press **2 ABC** for **Auto Answer**. The **Auto Answer** screen displays.

4. Toggle to highlight an option. The available options are:

    off, after 1 sec, after 3 sec, or **after 5 sec.**

5. Press **OK** to save.

6. Pressing **C** returns you to the previous screen.

Add entry
Adding a phone number

This menu allows you to add a phone number to your Phone Book, but as the exercise progresses you will learn how to add further entries including a Name, Category, Relation and Ringtype, together with the ability to generate an entry location number, and make a number secret.

Here are a list of the Phone Book options:

- **Number:** Telephone number.
- **Name:** Name associated to a telephone number.
- **Entry:** The memory location number which is allocated to the name in the list of names and numbers that you created.
- **Secret:** This field allows you to designate a number "secret".
- **Category:** A "category" label is associated with each phone number. For example: **Speed Dial, Home, Mobile, Office, Pager, Fax**, and **No Label.**
- **Relation:** A **"relationship"** label is associated with a group associated to a number. For example: **No Group**, **Friend**, **Family**, **Colleague** and **VIP**.
- **Ringtype:** This field allows you to set a distinctive ring type for the entry.

With the phone in standby mode:

1. Press ▬▬▬ for the main menu.

2. Press **2** ABC for **Phone Book**.

3. Press **2** ABC for **Add Entry**. The **Phone Book** display screen prompts **New Entry?**.

4. Press **OK/☰**. The prompt changes to **Add Entry**. Enter the phone number. (Up to 32 digits can be entered.) For pause options press ▬▬▬. For further details on pause calling, see "Adding pauses" on page 52.

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5. Press to save the entry. The **Phone Book** (Information) screen displays with the newly added number highlighted in the **Number** field. The **Name** field remains empty while the **Entry, Secret, Category, Relation** and **Ring Type** fields contain generated information. The **Entry** field contains a newly generated location number. Information for other field's will change as you continue.

Adding a name

To add a name to the Phone Book:

1. At the **Phone Book** (information) screen, toggle to highlight **Name**.

2. Press , the **Enter name** screen displays. Enter a name.

3. Press to save and display the information in the **Name** field on the **Phone Book** (information) screen.

Note: Press and hold to toggle between text entry modes and numeric icons, making it easier to enter information in the correct format.

Adding a relation label

To add a "relationship" label associated with a group, which is associated with a number in the Phone Book.

1. At the **Phone Book** (information) screen, toggle to highlight **Relation**.

2. Press , the **Relation** menu screen displays. The options **No Group, Friend, Family, Colleague** and **VIP** display.

3. Highlight an option and press to save and display the information in the **Relation** field on the **Phone Book** (information) screen.

Adding and changing a ring type

To set a distinctive ring type to a Phone Book entry:

1. At the **Phone Book** (information) screen toggle [icon] to highlight **RingType**.

2. Press [MENU], the **RingType** screen displays. Toggle to highlight an option. The options show: Inactive, 5 monotone ringers, and 15 melodies.

3. Press [OK/□□] to save and display the information in the **RingType** field on the **Phone Book** (Information) screen.

Overwriting a category

The Category field is automatically filled and designated Speed dial when an Entry number is generated by the phone. You may wish to change this phone generated Category label to one of the following: Home, Mobile, Office, Pager, Fax, or No label, with Speed Dial remaining the default option.

1. At the **Phone Book** (information) screen, toggle [icon] to highlight **Category**.

2. Press [MENU], the **Category** screen displays. The options **Speed dial**, **Home**, **Mobile**, **Office**, **Pager**, **Fax**, and **No label**, display.

3. Press [OK/□□] to save and display the new **Category** label on the **Phone Book** (information) screen.

Overwriting existing name and number information

It is possible, using the same techniques to automatically overwrite existing information using separate actions in both the name and number fields. Follow these instructions:

1. At the **Phone Book** (information) screen, press the toggle arrow repeatedly to locate and highlight an existing name or number field that needs the information changed. When highlighted, press .

2. The name or number will be displayed. To overwrite, hold down , until you clear the existing name or number. Enter new information and press to save. The new information will be displayed.

Setting secret

This feature allows you to keep certain numbers in your Phone Book confidential so that others cannot access them.

1. From the **Phone Book** (information) screen, toggle to highlight **Secret.**

2. Press . Toggle to highlight the **On** (secret) or **Off** (cancel) option.

3. Press to save.

Note: All Phone Book entries can be made secret. If you access the entry later, you will be prompted to enter your 4-digit user lock code.

Find name

This option allows you to find a stored name (alphabetically) in the Phone Book and place a call to that name.

1. In standby mode, press to display the main menu.

2. Press for **Phone Book**.

3. Press for **Find Name**. (For quicker access to the entry can also press the key associated with the first character of the name you wish to find.)

4. Toggle to highlight the name.

5. Press to select the name. The display screen shows the phone number and E-mail address (if available) associated with the name.

6. Press to place the call.

With an entry selected, press to access any of the following options:

- **Talk:** Pressing or calls the number.
- **Add #:** Permits the adding of a phone number.
- **Edit:** Permits editing of the phone number, name, entry number, category, secret number, relation and ring type.
- **Prepend:** Allows you to prepend a number to either a feature code or area code before calling.
- **Erase:** Erases the number.
- **Name Ring:** Permits you to select a unique tone to identify an incoming caller.
- **E-mail addr:** Permits you to add an E-mail address.

7. Pressing returns you to the previous screen.

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Find entry

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

1. In standby mode, press [MENU] to display the main menu.

2. Press [2 ABC] for the **Phone Book**.

3. Press [3 DEF] for **Find Entry**.

4. Toggle [up/down] to highlight a specific entry.

5. Press [OK/□] to select the entry. The entry information is displayed.

6. Toggle [up/down] to highlight the phone number.

7. Press [SEND] to call the number.

Note: If no name is associated with the number, the **Name Label** shows **No Name**

Relation search

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

1. In standby mode, press [MENU] to display the main menu.

2. Press [2 ABC] for the **Phone Book**.

3. Press [4 GHI] for **RelationSrch.**

4. Toggle [left/right] left or right to review the **Relation** groups displayed at the bottom of the screen and see associated names mid screen.

5. Toggle [up/down] down to highlight a specific entry.

6. Press [OK/□] to select the entry from the group. The entry information is displayed, with the phone number highlighted.

Note: If the phone number is designated "secret" the number will not be displayed on the standby screen when called.

7. Press [SEND] to call the number, or press [C] to return to the previous display screen

Adding an e-mail address

Use this method to add a new e-mail address to an entry in the Phone Book.

1. In standby mode, press **MENU** to display the main menu.

2. Press **2ABC** for **Phone Book**.

3. Press **5JKL** for **Add E-mail**. The **Phone Book** screen displays the highlighted words **New Entry?**

4. Press **OK/menu**.

5. The **E-mail Addr** blank screen displays together with **MENU:Options**.

Note: Choosing **MENU:Options** allows you to select from entry modes: **T9 Word , ABC, Symbol** and **123**. For further information on these entry modes see "Entering text, numbers, and/or symbols" on page 101.

6. Begin entering the e-mail address using the keypad. You can enter up to 48 characters. After entering the e-mail address.

7. Press **OK/menu** to save. The **Phone Book** (information) screen displays the newly entered e-mail address.

Note: To continue to complete the Name, Entry, Secret, Category, Relation, and Ring Type fields, information is available on adding a name see "Adding a name" on page 45, adding an entry see "Add entry" on page 44, Secret numbers see "Editing phone book numbers" on page 54, for Relation see "Adding a relation label" on page 45, "Adding and changing a ring type" on page 46, or "Storing emergency numbers" on page 118. Categories may be selected using the MENU:Options prompt.

Editing an existing e-mail address

Use this method to edit an existing e-mail address.

1. In standby mode, press **MENU** to display the main menu.

2. Press **2 ABC** for **Phone Book**.

3. Press **3 DEF** for **Find Entry**. The **Phone Book** displays.

4. Toggle to highlight the entry and press **OK/☒**.

5. Press **MENU**, and select the **Edit** option. The Phone Book (information) screen displays. Edit the existing E-mail address using the methods described under "Adding an e-mail address" on page 50

6. Press **OK/☒** to save.

Adding an e-mail address to an existing phone book entry

You can add an E-mail address to an existing entry in the Phone Book, your phone can then send a message via the network service provider to the e-mail address.

1. In standby mode, press **MENU** to display the main menu.

2. Press **2 ABC** for the **Phone Book.**

3. Press **5 JKL** for **Add E-mail**. The **Phone Book** (information) screen displays with the entries found under **Find Entry**.

4. Toggle to highlight the name requiring the E-mail address.

5. Press **OK/☒** to open. The **E-mail addr** entry screen displays.

6. Press **MENU** for the options menu and select from entry modes   For further information see "Adding an e-mail address" on page 50.

7. Enter the E-mail address. You can enter up to 48 characters.

8. Press **OK/☒** to save. The **Phone Book** (information) screen displays showing the newly added E-mail address.

Adding pauses

When you call automated systems (like banking services), you are often required to enter a password or account number. Instead of manually entering the numbers each time, you can store the numbers in your Phone Book separated by special characters called pauses.

- **Hard pause**: A hard pause stops the calling sequence.

- **Two second pause**: A 2 second pause stops the calling sequence for 2 seconds and then automatically sends the remaining digits.

- **Hyphen**: Places a hyphen between characters.

Your phone has 3 pause calling methods: pause calling from the Phone Book (see "Manual pause calling" on page 53), and manual pause calling (see "Manual pause calling" on page 53).

Note: Multiple 2 second pauses can be entered to extend the length of a pause. For example, 2 consecutive 2 second pauses cause a total pause time of 4 seconds. However, keep in mind that pauses count as digits towards the 32 digit calling maximum.

Storing pauses in a phone book entry

To store a number in your Phone Book that contains pauses.

1. Enter the phone number you want to store (such as the bank's teleservice phone number).

2. Press [MENU]. The pause menu options display.

3. Toggle [✦] to highlight one of the three pause menu options offered.

4. Press [OK/☒] to select an option. Continue entering the number and using [OK/☒] to enter pauses.

   • **"P" Hard Pause**: The letter "P" displays within the number, meaning that a hard pause will occur at that point in the calling sequence. Enter the digits that need to follow the pause (such as your account number).

- **"T" pause:** The letter "T" displays in the number, meaning that a "Timed" (2 second) pause will occur at that point in the calling sequence. Enter the digits that need to follow the pause (such as your account number).
- **Hyphen:** Places a hyphen between characters.

5. When the number and pauses are complete, press <img_ref> to store the number in your **Phone Book**.

Pause dialing from a stored entry

To pause dial from the Phone Book:

1. If you stored the number using (2 second) "T" pause(s) , simply call the number from the Phone Book.

2. If you stored the number using (hard) "P" pause(s), call the number from the **Phone Book** and wait for the appropriate prompt from the number you are calling (credit card number, bank account number, etc.). When prompted, press <img_ref> to send the DTMF number that follows your hard pause. "SENDING DTMF" flashes on the screen (the transmitted tones are audible).

Manual pause calling

To manually call a number with pause(s) without storing to the Phone Book. For pause information see "Storing pauses in a phone book entry" on page 52.

1. Enter the phone number of the service you want to call (such as a bank's teleservice phone number). For example, your bank's teleservice phone number might be an 800 number. Begin by entering the number 1.

2. Press <img_ref> to display the pause **Menu** options. Use the toggle <img_ref> to locate the pause option of choice and press <img_ref> to activate. Continue in this manner until the complete number with pause(s) has been entered. Now press <img_ref> to call the number.

Note: Storing pauses is convenient if you plan to call the number frequently.

Accessing your phone book during a conversation

To access your phone book during a conversation:

1. Press [MENU] to display the **In-Use** menu.

2. Press [3 DEF] for **Phone Book.**

3. Use your keypad to enter the number associated with the **Phone Book** menu option to locate the information required.

Editing phone book numbers

Once stored in the Phone Book, an entry can be changed quite easily.

To change a Phone Book entry:

1. In standby mode, press [MENU] to display the main menu.

2. Press [2 ABC] for **Phone Book**.

3. Press [3 DEF] for **Find Entry**. The **Phone Book** displays.

4. Toggle [arrows] to highlight the entry requiring editing.

5. Press [OK]. The existing phone number is highlighted

6. Press [MENU], and toggle to highlight the **Edit** option.

7. Press [OK]. The **Phone Book** (information) screen displays.

Note: If the number has been designated as " **Secret**" you are prompted to enter your 4-digit **Lock Code**. Once entered, toggle [arrows] to locate the **Secret** option, and press [MENU]. Toggle to highlight **Off** and press [OK]. The **Phone Book** (information) screen now displays **Secret: Off.**

8. Press [MENU].

9. Press [C] until the existing number is deleted. Enter the new number. (You can enter up to 32 digits.) (Press [MENU] if you need the pause menu.) Use the keypad to enter the phone number. The number displays from left to right.

10. Press [OK] to save the new number to the **Phone Book**.

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Prepending a phone number

The Prepend option permits you to add prefix numbers such as area codes and network feature activation codes to phone numbers that are already stored in your Phone Book or call log.

To Prepend a stored phone number:

1. In standby mode, press **MENU** to display the main menu.

2. Press **2ABC** for **Phone Book.**

3. Press **1-** for **Find Name**, or **3DEF** for **Find Entry**. **Find Name** searches the **Phone Book** entries alphabetically, and **Find Entry** searches the **Phone Book** entries numerically.

4. Find the number you want to "Prepend" by using one of the search methods described in "Setting auto answer" on page 43, and then press **OK/** to save.

5. Press **MENU** to display **Menu** options.

6. Use the toggle **arrows** to locate the **Prepend** option.

7. Press **OK/**. The screen displays **"Prepending"**.

8. Use the keypad to prepend the number (which cannot be longer than 10 digits.)

9. Press **SEND** to place the call.

Erasing individual phone book entries

To erase an existing entry from either the Find Name or Find Entry option.

1. In standby mode, press **MENU** to display the main menu.

2. Press **2ABC** for **Phone Book.**

3. Press **1-** for **Find Name** or **3DEF** for **Find Entry.**

4. Toggle **to** highlight the information and press **OK/** .

5. Press **MENU** to display the menu options which are:

   Talk, Add #, Edit, Prepend, Erase, Name Ring, and **E-mail addr**.

6. Toggle ⬆⬇ to highlight the **Erase** option. Press **OK**. The phone prompts **Yes** or **No**. Toggle ⬆⬇ to your option of choice.

7. Press **OK** to confirm (Yes) and erase the **Phone Book** entry, or press **C** to cancel (No) the **Erase** command and return to the **Phone Book**.

Erasing your phone book

You can erase all the numbers stored in your Phone Book. This is useful if you want to give your phone to a friend or family member, or if you need to erase all of your phone numbers.

1. In standby mode, press **MENU** to display the main menu.

2. Press **0 Next** for **Security**. Enter your current 4-digit lock code.

3. Press **6 MNO** for **Clear MEM**. A confirmation message displays asking if you still want to "**Proceed**".

4. Press **OK** to continue and erase the **Phone Book entirely,** or press **C** to cancel the operation. The message **"Erasing Phone Book and Voice Dial"** displays while the operation is under way. The phone then returns to standby mode.

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Adding a name ringer to your phone book entry

You can associate one of 20 different ringers (fifteen melodies and five monotones) to numbers stored in your Phone Book. When you receive an incoming call from a number matching an entry in your Phone Book your phone will play the associated ringer to announce the call.

Note: If the Caller ID information is unavailable for an incoming call then the Name Ringer option will also be unavailable.

1. In standby mode, press ▰▰▰ to display the main menu.

2. Press **2ABC** for **Phone Book**. (Find the entry to which you wish to add a **Name Ringer**, using one of the search methods described under "Find name" on page 48, or "Find entry" on page 49.)

3. Toggle ▰▰▰ to highlight the entry to which you wish to add a **Name Ringer**.

4. Press ◀OK/▱.

5. Press ▰▰▰.

6. Toggle ▰▰▰ to highlight **Name Ring**.

7. Press ◀OK/▱. Your phone displays the current **Name Ringer** setting.

8. Toggle ▰▰▰ to listen to other available ringers and melodies.

9. Press ◀OK/▱ to save your selection.

Setting speed dial

For each name entered in the Phone Book, the option of designating a Speed Dial number is available.

1. In standby mode, press **MENU** to display the main menu.

2. Press **2 ABC** for **Phone Book**.

3. Press **1 .-** for the **Find Name,** or **3 DEF** for **Find Entry** .

4. Toggle **⬆⬇** to highlight the entry you wish to designate.

5. Press **OK/☐** to display that entry's phone number.

6. Press **MENU** for options.

7. Toggle **⬆⬇** to highlight the **Edit** option.

8. Press **OK/☐**. The **Phone Book** (information) screen displays.

9. Toggle **⬆⬇** to highlight **Category**.

10. Press **MENU** for options.

11. Toggle **⬆⬇** to highlight **Speed dial,** and press **OK/☐**. The Phone Book screen displays with the wording **Entry: 000** highlighted.

12. Use the keypad to enter the associated **Speed dial** number.

13. Press **OK/☐**. If you have previously set a speed dial number for this name or entry an "**Overwrite?**" prompt will be displayed. Use the **⬆⬇** toggle arrows to choose "**Yes**" or "**No**", press **OK/☐** to continue, following the prompts, or press **C** to cancel and return to the previous screen.

Storing incoming phone numbers at the end of a call

To store a phone number after ending a call:

Note: If the call was incoming, and Caller ID information was unavailable, then the store option will also be unavailable.

1. Once you have pressed ⬛ to end your call, the screen displays the call time (length of call), phone number and name of the party (if available).

2. Press ⬛ for main menu.

3. Press ⬛ for **Calls**.

4. Press ⬛ for **Incoming**.

5. Press ⬛.

6. Press ⬛ for menu options, toggle to highlight **Save**.

7. Press ⬛ to store the phone number to the **Phone Book**.

Storing phone numbers from call logs

Use this method to store a phone number from the call logs.

1. In standby mode, press ⬛ to display the main menu.

2. Press ⬛ for **Calls**.

3. Press ⬛ for **Outgoing**, or ⬛ for **Incoming** call activity.

4. Highlight the number that you wish to store to the **Phone Book** and press ⬛.

5. Press ⬛ for menu options, toggle to highlight **Save.**

6. Press ⬛ to store the phone number to the **Phone Book**.

Note: The number can be stored to the Phone Book as a new entry, or for further details regarding updating an existing entry see "Editing phone book numbers" on page 54.

Shortcuts to storing phone numbers

You can store a phone number by entering the number, and pressing ⬬. Follow the screen prompts to designate other information. You can also save a number after an incoming or outgoing call. For further information see "Storing phone numbers from call logs" on page 59

Calling numbers from the phone book

Calling numbers from your Phone Book is simple. Different methods are explained below:

One-touch dialing

Memory locations 001 through 009 are special One-Touch locations. You can call the phone numbers stored in the Phone Book memory from 001 through 009 by pressing one key. For example, for location number 001. Press and hold ⬬ until the name and number are displayed and called.

Two-touch dialing

Memory locations 010 through 099 are special Two-Touch locations. For example, for location number 013, press ⬬ and hold down ⬬ until the name and number are displayed and called. To dial the number 100, Three Touch dialing is required.

Shortcuts to memory dialing

Speed Dialing:	From standby mode, enter the entry's **Speed Dial** number, and press ⬬ to call .
Toggling to the #:	From standby mode, press ⬬ for main menu, press ⬬ for **Phone Book**, press ⬬ for **Find Entry**. Toggle to highlight the entry, press ⬬ to call that entry's **Speed Dial** number.

Web/Minibrowser

Your phone comes equipped with Wireless Web Internet access through a MiniBrowser. The MiniBrowser displays immediate information through your phone. You can view specially designed versions of popular sites which include sports, weather, news, stock quotes, etc. Browsing the Web through your phone is not the same as using your PC since site providers have only selected certain aspects of the available sites to present to the wireless phone users and have removed most graphics.

Each time you launch the MiniBrowser, the phone will connect to the Internet and the service indicator icon will display. Any time the service indicator icon is visible on the display, you are connected to the Internet and will be invoiced accordingly. Rates and pricing vary according to your service option. For further information contact your service provider.

The MiniBrowser will end an Internet connection after a certain period of inactivity, however some information from your session remains stored in the phone, and (if you leave your phone turned on) you can access this information without reconnecting to the Internet. If you are viewing this stored information, and you select a link to a site that was not accessed in your last session, then you will automatically be re-connected to the Internet. For this reason, you may find that you are billed for several network connections within a single session. This is normal and is designed to minimize your bill.

Note: The phone must be in a digital network to use the MiniBrowser. When you are in a digital network, the **D** icon is displayed.

A shortcut to launching the Web

Once you have registered with your carrier, you can quickly use this shortcut to access the Minibrowser.

• In standby mode, press the right toggle arrow, then press .

Launching the minibrowser

Note: The first time you use the MiniBrowser, you will be prompted to go through a security setup process that takes approximately three to five minutes.

Note: When the security key is initially sent to the carrier, a unique value is created. If the phone is reset for any reason, you must contact the carrier to reset the security key. The original key is no longer valid and will not allow the MiniBrowser to operate.

To launch the MiniBrowser.

1.   In standby mode, toggle [image] right, or press [MENU] [3 DEF].

2.   Press [1.-] for **Launch Web**. The prompt states **"Charges will apply. Start MiniBrowser?"** Press the left toggle arrow. Your phone will begin its search to launch the MiniBrowser.

Note: A reminder of the charge incurred may appear (depending on your prompt setting - see "The minibrowser start and end prompts" on page 63). To dismiss the prompt, simply choose yes or no. If no prompt is displayed, you are immediately connected to the internet.

3.   Once connected, the Home Page (or the last page visited), will be displayed. To access the Home Page from any other menu in the MiniBrowser, press and hold [MENU].

An example of a **Home Page** is shown below:

> **WIRELESS WEB**
> **HOME PAGE**
> 1. Financial
> 2. Traffic
> 3. Travel
> 4. Weather
> 5. Sports
> 6. Entertainment
> 7. Games
> 8. Shopping
> 9. Portals

Note: What appears in the display window is dependent upon the service provider content. To view additional text, use the toggle [image].

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Exiting the web/minibrowser

Press END or close the phone's flip cover to exit the Web.

If the **"Prompt to end"** or **"Prompt both"** option is selected in the MiniBrowser setup (MENU 3 DEF 2 ABC), a prompt asking if you want to end the MiniBrowser call is displayed.

The minibrowser start and end prompts

Your phone can be set to view a prompt each time you start or end a MiniBrowser session. You have the option to change this default prompt setting. The default setting may differ as it is based upon the carrier's requirement. To change the settings:

1. In standby mode, use your thumb on the toggle's right arrow, or press MENU to display the main menu, and press 3 DEF for **Web.**

2. Press 2 ABC for **Prompt**.

3. Toggle ⬍ to highlight one of the four options:

    •**None:** This prompt is never displayed.
    •**To Start:** You will see this prompt when you enter the browser, but not when you exit it.
    •**To End:** You will see this prompt only when you exit the browser.
    •**Both:** You will be prompted when you enter or exit the browser.

4. Press OK to save your setting or press C to cancel.

The minibrowser soft keys

At the bottom of the MiniBrowser display is a solid bar which contains the browser commands. The "soft" keys (OK   HOME) appear below the solid bar and are used to execute the commands. These two keys are called "soft" keys because their function changes depending on where you are in the MiniBrowser software.

Navigating the web

When you use the MiniBrowser, some of the keys on your keypad will operate differently than during a normal phone call. These keys are explained in "How the minibrowser works" on page 64.

The MiniBrowser 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.

How the minibrowser works

Toggle: Use the **up/down** toggle arrows to find and select from all MiniBrowser options. The selected option is indicated by an arrow. Also use the toggle to move the cursor when editing text. The **right/left** toggle arrows are soft keys. The **left** soft key is used as "OK" or "Retry". The **right** soft key is used to access secondary options, or a menu of secondary options such as "Cancel" or "Done".

OK / message: This key is used primarily for selecting the highlighted item.

C (CLR): This key performs two functions:

- It is used as a browser back-up key. Pressing it once backs you up one page. Pressing and holding it down backs you up to the carrier's **Home Page**.

- It also clears entered text or numbers. When entering numbers or text, press it to clear the last number, letter, or symbol. Press and hold it down to completely clear the input field.

Asterisk / Shift: Press this key before entering text to create upper case characters. You can also use this key to move back one space on the display screen.

0 / Next: Press this key to enter a 0, or to move to the next word when in T9 predictive word entry mode.

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

Numbers 1 - 9: If items on a menu are numbered, these keys can be used to select them.

END: Press this key to exit the MiniBrowser and return the phone to standby mode.

MENU: This key can be used to enter the MiniBrowser menu at any time.

SEND: This key can be used to send a call.

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Using links

Links have several purposes, including 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 ([   ]), and you can normally use the left soft key to select a link when it is highlighted.

Making a phone call while using the minibrowser

You may initiate a phone call from the MiniBrowser if the site you are using supports this feature (the phone number may be highlighted and the left soft key will appear as "Call"). Pressing the "Call" soft key will call the number. In most cases you can also use **SEND** to call the number. The Internet connection will be terminated when you initiate the call. After you end the call, your phone will return to standby mode.

Scheduler

Information features

Information features allow you to add events in a calendar format that can be viewed, and if so required alert you to these same events.

How to access information features

1. In standby mode, press [MENU] to display the main menu.

2. Press [4 GHI] for **Scheduler**.

3. Toggle [arrows] to highlight an option. The available options are:

    Today, View Month, Jump To Date, To Do List, Count Down, World Time, Calculator and **Alarm**.

4. Press [OK/E] to open that option.

Scheduler

Scheduler functions allow you to schedule personal events and view them in an easily read format.

Today

You can schedule up to 9 events for the current day by indicating each event's start and end time. You can be alerted by an alarm before an event is to commence. Events that are scheduled for future dates automatically appear on your Today events schedule on that particular day.

How to schedule an event

1. In standby mode, press **MENU** to display the main menu.

2. Press **4 GHI** for **Scheduler**.

3. Press **1.** for **Today,** the **New Event** screen displays. (Pressing **MENU** will offer further options. For example: **T9 Word, ABC, Symbol** and **123**. Toggle to highlight an option, and press **OK/** to select that option.)**Note:**Press and hold **★Shift** to toggle between text entry modes and numeric icons, making it easier to enter information in the correct format.

4. Enter the event. (Up to 32 characters can be entered.)

5. Press **OK/** to continue. The **Time/Date** screen displays. Add the start time and date using the keypad.

6. Press **OK/** to display the next screen. Add the end time and date. After the correct information has been entered

7. Press **OK/**, an alarm screen is displayed. Toggle to highlight an alarm to notify you of your event. The options are: **No alarm, On time, 10Min before, 30Min before, 1Hour before.**

8. Use the toggle to locate the option and press **OK/** to save. The phone prompts that the information is "**Stored**".

How to add, edit, or erase an event

1. In standby mode, press **MENU** **4 GHI** for the menu and **Scheduler**. Press **1.** for **Today**.

2. Press **MENU** for the following options:

    • **Add New:** Allows you to add an event.

    • **Edit:** Allows you to edit an event.

    • **Erase:** Allows you to erase an event.

3. Press **OK/** to select the option of choice, and complete the exercise by following the prompts.

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View month

View Month allows you to view in calendar format the current month, a past month or a future month. In View Month, the current date is highlighted on the calendar. Days with scheduled events are underlined.

How to view an event

1. In standby mode, press ![MENU] to display the main menu.

2. Press ![4 GHI] for **Scheduler**.

3. Press ![2 ABC] for **View Month,** a current calendar screen displays. (The current date is highlighted, but you can use the toggle to select a new date and month. (If more than one event is scheduled, use the toggle to display them.)

4. Pressing ![MENU] at a selected date, offers the following options:

    •**View**: Permits you to view the previous entries for that date.
    •**Add New**: Permits you to add a new entry for that date.

5. Toggle to highlight **Add New.** Select ![OK] to enter the option. The **New Event** screen displays. Complete the exercise by following steps 4 through 9 as indicated in "How to schedule an event" on page 68.

Jump to date

Jump To Date allows you to specify the calendar date you want to view. Arriving at the desired date, you can enter, edit, and/or erase events in your calendar.

Using jump to date

1. In standby mode, press ![MENU] ![4 GHI] for the menu and **Scheduler**. Press ![3 DEF] for **Jump To Date**. Complete the exercise by using steps 4 through 9 as indicated in "How to schedule an event" on page 68.

To do list

The To Do List allows you to compile a list of items to be completed. Your phone can store, prioritize and manage twenty To Do List items.

Creating a to do list item

1. In standby mode, press **MENU** **4 GHI** for the menu and **Scheduler**. Press **4 GHI** for **To Do List**. An **Add To Do** screen displays. Complete the exercise by using steps 4 through 9 as indicated in "How to schedule an event" on page 68. You can choose the toggle to set the priority for a **To Do List** item. Your choices are **High** and **Low**.

How to view, edit, add or erase a to do list item

1. In standby mode, press **MENU** **4 GHI** for the menu and **Scheduler**. Press **4 GHI** for **To Do List**. Toggle to locate the event you wish to change.

2. Press **MENU**. Your options are: **Add new, Edit**, and **Erase**. Complete the exercise by following the prompts.

Count down

Count Down allows you to find out how much time will elapse between the time entered and a scheduled event. You can create up to twenty Countdown timers.

•   The keys **2 ABC** and **7 PQRS** are equal to A.M. and P.M.

•   Countdowns can be entered for dates between the years 1980 and 2099.

1. In standby mode, press **MENU** **4 GHI** for the menu and **Scheduler**. Press **5 JKL** for **Count Down**. The screen prompts for a new **Count Down**. Enter a name for your new **Count Down** timer. Press **OK/☒** to complete.

2. Enter the date and time you want to "**Count Down**" to. For example: if today's date is April 1, 2001 and you wish to know how many months, days, and hours remain before 7:00 P.M. February 14th 2002, enter the time 07:00 P.M. and the date 02/14/2002.

3. Press **OK/☒** to store the **Count Down** timer.

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How to view, edit, add or erase a count down timer

1. In standby mode, press [MENU] [4 GHI] for the menu and **Scheduler**.
    Press [5 JKL] for **Count Down**. Countdown timers display in order of the least amount of time passed since the countdown commenced, and least amount of time remaining until the specified date.

2. Press [MENU] to open the options. Your choices are: **Add New, Edit**, and **Erase**. Press [OK/✉] to select the option. Use the toggle to find the item you wish to change and follow the prompts. You can press [C] at any time to exit the exercise.

World time

Informs you of the time of day, or night in another part of the world. World Time displays the time in 24 different time zones around the world, in one or more major cities, states, regions or countries. It should be noted that World Time does not support Daylight Savings Time for countries other than the USA.

Checking current time world wide

1. In standby mode, press [MENU] [4 GHI] for the menu and **Scheduler**.
    Press [6 MNO] for **World Time**. The screen displays a world map. The city, country, time and date are indicated by a longitude indicator. You can toggle up/down, left/right to reach the city and time you need.

• Alaska	• San Francisco	• Denver, Arizona
• Chicago, Mexico	• New York	• Caracas
• Buenos Aires	• 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

Calculator

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

To perform a calculation

Use ★Shift to enter a decimal point, and #Space to change the sign for a number to a negative.

1. In standby mode, press MENU 4GHI for the menu and **Scheduler**. Press 7PQRS for **Calculator**. The Calculator screen displays.

2. Use the keypad to enter the first number in your calculator. (Numbers can be up to 9 digits long.)

3. Use the toggle arrows to set the operator for your calculation. Your choices are:

    [+] Addition, [-] Subtraction, [x] Multiplication, [/] Division.

4. Use the keypad to enter the second number into your calculator.

5. Press OK/☰ to perform the calculation and view the result, or continue to calculate with the same operator, or change the operator and continue. Every time you change the operator, the previous calculation is performed and the result is displayed as the bottom number on the display screen.

6. Press OK/☰ to perform the calculation and view the result.

Alarm

Your phone has an alarm clock that can be set to go off once, or daily at a specified time.

Once set, the alarm is easy to change or turn off completely.

To set the alarm:

1. In standby mode, press **MENU** to display the main menu.

2. Press **4 GHI** for **Scheduler**.

3. Press **8 TUV** for **Alarm**. Your options are **Set** and **Release**.

4. Press **1.-'** for **Set**.

5. Toggle to the option you want to use. Your choices are **Once,** or **Daily**.

6. Press **OK/⊠**. The Alarm menu opens.

7. Using the keypad, enter the time for the alarm to activate. Select **OK/⊠** to store the setting, or press **C** to return to the previous alarm options menu.

   • As your phone only supports a 12 hour time display, it is necessary to press either **2 ABC**, or **7 PQRS**. These keys represent A.M. and P.M. respectively.

8. Should you wish to terminate the alarm follow steps 1 through 3 and press **2 ABC** for **Release**. Press **OK/⊠** to save, or press **C** to return to the previous alarm options menu.

Note: Once an alarm is set, an alarm clock icon ⏰ displays on the screen in standby mode. When the alarm is turned off the alarm clock icon ⏰ is removed.

Note: To change the alarm time, or turn the alarm off, repeat steps 1 through 3 above, and follow the prompts.

Sounds

Ringer options

Your phone provides a variety of ringer options through the Sounds menu. These options allow you to customize your ringer type and ringer volume settings in order to easily recognize a certain type of incoming call, message or scheduled event.

Note: To adjust your ringer volume (for example, to quickly turn it off or to the vibrate mode before you enter a meeting, concert, etc.) see "Ringer volume" on page 74.

Adjusting ringer volume (rapidly)

From the standby mode, you can adjust the ringer (8 levels), set it to vibrate, set it to 1-beep, or set it to mute using the toggle � "Up/Down" arrows.

Adjusting voice volume during a call

You can adjust the handset as well as the (optional) headset volume during a call by using the toggle's � up/down arrows.

Ringer volume

To activate the two options under the ringer volume option for Sounds.

1. In standby mode, press **MENU** to display the main menu.

2. Press **5 JKL** for **Sounds**.

3. Press **1.** for **Ringer Vol**. Two options display: **Calls,** and **Alarm.**

4. Press the numeric key, or highlight the option and select it using **OK/☑**

5. The screen immediately displays the volume icon ◡᪲᪲ the bars of which will change according to the setting chosen, you can also press the toggle �️ down arrow to change the setting. When the desired setting is reached, press **OK/☑** to save.

6. Press **C** to return to the previous menu at any time.

Note: When the lowest volume setting is reached, the phone automatically goes into vibrate mode, physically alerting you to this option.

Ringer volume — Calls

Refer to "Ringer volume" on page 74 for instructions on operating this option.

Ringer volume — Alarm

Refer to "Ringer volume" on page 74 for instructions on operating this option.

Ringer type

Five monotone ringer types and fifteen melody tones can be found under the ringer type option in the Sounds menu.

Ringer type — Voice Calls

To activate, view or change the ringer type for voice calls:

1. In standby mode, press **MENU** to display the main menu.

2. Press **5 JKL** for **Sounds**.

3. Press **2 ABC** for **Ringer Type**.

4. Press **1.-'** for **Voice Calls**.

5. Use the toggle arrow to locate and toggle through the 5 monotone ringer types and 15 melody tones. Each tone plays as you toggle through the options.

6. When the desired ringer type plays, press **OK/☰** to save the setting.

Note: You can press **C** to return to the previous menu at any time.

Ringer type — Alarm

To activate, view or change the ringer type for the alarm:

1. In standby mode, press **MENU** to display the main menu.

2. Press **5 JKL** for **Sounds**.

3. Press **2 ABC** for **Ringer Type**.

4. Press **2 ABC** for **Alarm**.

5. Use the ![toggle arrows] toggle arrows to locate the 5 monotone ringer types and 15 melody tones. Each tone plays as you toggle through the options.

6. When the desired ringer type plays, press ![OK] to save the setting.

Note: You can press ![C] to return to the previous menu at any time.

Ringer type — Data/Fax incoming

To activate, view or change the ringer type for incoming data/fax calls:

1. In standby mode, press ![MENU] to display the main menu.

2. Press ![5 JKL] for **Sounds**.

3. Press ![2 ABC] for **Ringer Type**.

4. Press ![3 DEF] for **Data/Fax In**.

5. Use the ![toggle arrows] toggle arrows to locate the 5 monotone ringer types and 15 melody tones. Each tone plays as you toggle through the options.

6. When the desired ringer type plays, press ![OK] to save the setting.

Note: You can press ![C] to return to the previous menu at any time.

Ringer type — Schedule alerts

To activate, view or change the ringer type for schedule alerts:

1. In standby mode, press ![MENU] to display the main menu.

2. Press ![5 JKL] for **Sounds**.

3. Press ![2 ABC] for **Ringer Type**.

4. Press ![4 GHI] for **Schedule**.

5. Use the ![toggle arrows] toggle arrows to locate the 5 monotone ringer types and 15 melody tones. Each tone plays as you toggle through the options.

6. When the desired ringer type plays, press ![OK] to save the setting.

Note: You can press ![C] to return to the previous menu at any time.

Key beep

Key Beep allows you to adjust the tone volume that the keypad generates each time you press a key. The display icon shows up to 8 levels (the loudest setting). No bars indicate that the key beep function is silenced.

1. In standby mode, press ◁MENU▷ to display the main menu.

2. Press **5 JKL** for **Sounds**, then press **3 DEF** for **Key Beep**.

3. Press the toggle arrows to locate the 8 volume levels ⟨➖▮▮▮▮.

4. When the desired volume is reached, press ◁OK/☒ to save the setting.

Note: You can press **C** to return to the previous menu at any time.

Alerts

Your phone will beep from time to time, this beep is called an alert beep. Alert beeps can easily be turned on or off. This feature offers 7 different options: **Minute beep, Service, Connect, Disconnect, Fade, Roam,** and **Privacy**.

Alerts — Minute beep

You can set the minute beep option to sound an alert 10 seconds before each elapsed minute to remind you of the length of the current call.

To turn minute beep on or off:

1. In standby mode, press ◁MENU▷ to display the main menu.

2. Press **5 JKL** for **Sounds.**

3. Press **4 GHI** for **Alerts**. Seven different options display: **Minute beep, Service, Connect, Disconnect, Fade, Roam,** and **Privacy**. In this exercise select the **Minute beep** option. (For other **"Alerts"** exercises to work correctly, select the appropriate option.)

4. Press the toggle arrows to choose between **On** or **Off**.

5. When the desired setting is reached, press ◁OK/☒ to save the setting.

Note: You can press **C** to return to the previous menu at any time.

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Alerts — Service

You can set the service alert option to sound an alert when the phone goes in and out of service coverage areas.

Refer to "Alerts — Minute beep" on page 77 for instructions on how to operate this option.

Alerts — Connect

With this option set to "On", the phone sounds an alert when your call is connected.

Refer to "Alerts — Minute beep" on page 77 for instructions on how to operate this option.

Alerts — Disconnect

When this option is set to to "On", the phone sounds an alert when the phone experiences a dropped or a failed call.

Note: You can press to return to the previous menu at any time. When a call experiences a failed or dropped call, a text message will display. Press to clear the prompt and return to standby mode. If the dropped call was an outgoing call from your phone, you can redial the number automatically by pressing twice.

Refer to "Alerts — Minute beep" on page 77 for instructions on how to operate this option.

Alerts — Fade

With this option is set to to "On", the phone sounds an alert when a dropped call occurs during conversation in response to a signal fade.

Refer to "Alerts — Minute beep" on page 77 for instructions on how to operate this option.

Alerts — Roam

When this option is set to to "On", the phone sounds a unique tone when you leave your "home" service area when on a call.

Refer to "Alerts — Minute beep" on page 77 for instructions on how to operate this option.

Alerts — Privacy

When this option is set to to "On", the phone sounds an alert when an incoming calls is designated a "Privacy" call.

A **P** for "Privacy" will also appear on the display screen.

Refer to "Alerts — Minute beep" on page 77 for instructions on how to operate this option.

Voice volume

This option enables you to adjust the voice volume of the earpiece while on a call. The display icon shows up to 8 levels (the loudest setting).

To adjust the voice volume level:

1. In standby mode, press **MENU** to display the main menu.
2. Press **5 JKL** for **Sounds**.
3. Press **5 JKL** for **Voice Volume**.
4. Press the **toggle arrows** to adjust the volume setting.
5. When the desired volume level is reached, press **OK/⊠** to save the setting.

Note: You can press **C** to return to the previous menu at any time.

Roam ringer

When this option is set to "On", your phone sounds a unique tone when a call is received in a "roam" service area.

(This feature is to "On" by default).

To set the roam ringer alert on or off:

1.   In standby mode, press [MENU] to display the main menu.

2.   Press [5 JKL] for **Sounds**.

3.   Press [6 MNO] for **Roam Ringer**.

4.   Press the [toggle arrows] toggle arrows to choose between **On** or **Off**.

5.   When the desired setting is reached, press [OK/⌫] to save the setting.

Note: You can press [C] to return to the previous menu at any time.

Power on/off

When this option is set to on, the phone sounds an alert when the phone is either powered on, or powered off.

To set the Power On/Off alert:

1.   In standby mode, press [MENU] to display the main menu.

2.   Press [5 JKL] for **Sounds**.

3.   Press [7 PQRS] for **Power On/Off**.

4.   Press the [toggle arrows] toggle arrows to choose between **On** or **Off**.

5.   When the desired setting is reached, press [OK/⌫] to save the setting.

Note: You can press [C] to return to the previous menu at any time.

Display

The following features offered under the Display menu allow you to customize your phone.

- Control when, and for how long, your backlight is active.
- Define a personal greeting of up to 12 characters.
- Display your own phone number.
- Set the language.
- Set time and date manually.
- Automatically hyphenate phone numbers.
- View the hardware and software versions of your phone.

Backlight

There are several options for setting the backlight features.

When the phone's flip is closed, the backlight will remain off, this conserves battery power. When the phone's flip is open, the length of time that the backlight remains active can be set to 7, 15, or 30 seconds. Remember that backlight usage drains your battery faster.

To set the Backlight:

1. In standby mode, press **MENU** to display the main menu.
2. Press **6 MNO** for **Display**.
3. Press **1.-'** for **Backlight**.
4. Press the **toggle arrows** to go through the menu options: **Always Off, 7 seconds, 15 seconds, 30 seconds** (after last key press), or **Flip Open**.
5. When the desired setting is reached, press **OK** to save.

Banner

This option allows you to edit and personalize the banner displayed on the standby display screen.

Note: Enter the personal greeting using the keypad, Press ![MENU] for **T9 Word, ABC, symbols** and **123** options respectively

Note: The ![Shift] key will also toggle through the same options in identical order, and can be pressed for upper case characters.

To change the banner:

1. In standby mode, press ![MENU] to display the main menu.
2. Press ![6 MNO] for **Display**.
3. Press ![2 ABC] for **Banner**. Clear the existing banner by pressing ![C].
4. Enter your new banner (Up to 12 characters).
5. Press ![OK/EZ] to save.

My phone

To display your phone's number:

1. In standby mode, press ![MENU] to display the main menu.
2. Press ![6 MNO] for the **Display**.
3. Press ![3 DEF] for **My Phone #**. The phone's number displays.
4. You can press ![C] to return to the previous menu at any time.

Language

The language option on your phone can change the language of voice prompts, menus, and key-input.

To change the language:

1. In standby mode, press **MENU** to display the main menu.

2. Press **6 MNO** for **Display**.

3. Press **4 GHI** for **Language.**

4. Toggle to highlight the language required.

5. Press **OK/☰** to save.

Note: You can press **C** to return to the previous menu at any time.

Set time

Your phone is equipped with a standard clock. Your phone automatically displays the time and date when in digital mode. This same information is unavailable on the screen when your phone is out of service or in analog mode when powered up.

To manually set the time and date:

1. In standby mode, press **MENU** to display the main menu.

2. Press **6 MNO** for the **Display**.

3. Press **5 JKL** for **Set Time**. The **Time Set** menu displays.

4. Enter the time (using the 12 hour format) and date. Use **2 ABC** for A.M. and **7 PQRS** for P.M..

5. When the desired setting displays, press **OK/☰** to save.

Note: You can press **C** to return to the previous menu at any time.

Auto hyphen

With the option set to "Yes", your phone automatically hyphenates numbers. For example: 972-761-0000.

To set the Auto Hyphen option:

1. In standby mode, press ▭▭▭ to display the main menu.

2. Press **6 MNO** for **Display**.

3. Press **6 MNO** for **Auto Hyphen**. The "**On**" and "**Off**" options display.

4. Toggle ▭▭ to highlight an option.

5. Press ▭▭ to save.

Note: You can press ▭ to return to the previous menu at any time.

Version

You can view both the software version and hardware version running on your phone. This feature is helpful if you need to call your carrier.

1. In standby mode, press ▭▭▭ to display the main menu.

2. Press **6 MNO** for **Display**.

3. Press **7 PQRS** for **Version**. The hardware and software information displays.

4. Press ▭▭ to return to standby mode.

Voice dial

Your phone features Voice Dial(ing). When on a digital network, you can call up to 20 stored names simply by speaking one of the names into the microphone. Using the Voice Dialing feature requires that you first program the phone to recognize the name of the person you are calling.

Note: Voice dialing entries cannot be connected to your phone book. If you wish to set voice dialing for frequently used numbers in your phone book, you must separately record the names and re-enter the same phone numbers into the Voice Dial memory locations.

Tips on recording names

- Avoid recording similar names phonetically. If you record a name similar to one already stored in voice memory, the phone requests another name.

- Avoid recording in a noisy place.

- Speak clearly and naturally.

- Avoid very long or very short names. Names with two to five syllables are recommended.

- If a voice entry does not properly connect, you may need to record the name and number again.

Record

The phone provides voice prompts and screen displays to guide you through the recording process.

To program the phone for voice calling:

1. In standby mode, press **MENU** to display the main menu.

2. Press **7 PQRS** for **Voice Dial**.

3. Press **1** for **Record**. The phone will prompt you to say the name you want to record.

4. Wait for the beep and then say the name. For best results, use names with at least two syllables, or use both a first and last name. The phone stores the name as a "first" sample, and then prompts you to say the name again.

5. Respond to the prompt by repeating the name exactly as you did the first time. The phone stores the name as a "second" sample and then requests the phone number.

6. Enter the phone number using the keypad.

7. Press <img> to save the number. The entered number displays, the phone prompts "**Recorded**". If the entered number matches a number already stored in your Phone Book, the name also displays.

8. The screen then returns to the **Voice Dial** menu.

Review

To review voice calling entries:

1. In standby mode, press <img> to display the main menu.

2. Press <img> for **Voice Dial**.

3. Press <img> for **Review**. A list of stored numbers display. (The names also display if stored in the Phone Book.)

4. Toggle <img> to highlight the desired entry and press <img>. The recorded name is vocalized. Press <img> while reviewing an entry to erase that same entry. When finished, the phone returns to standby mode.

Note: You can locate the entries without having to listen to each one by using the toggle arrows <img>, or you can listen to them all as they play in order if you press <img>.

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Erase all

To erase all voice calling entries

1. In standby mode, press **MENU** to display the main menu.

2. Press **7 PQRS** for **Voice Dial**.

3. Press **3 DEF** for **Erase All**.

4. At the voice prompt and screen prompt, press **OK/☰** to confirm that you wish to **Erase All** of the entries. A screen prompt will display when the entries have been erased.

5. Press **C** at any time to exit without removing any voice entries.

Set active

Voice dialing is always active once you have programmed the phone to accept voice entries and associated the phone numbers. To place voice activated calls, press and hold **✱ Shift**. Then say the name into the phone after you hear the voice prompt and the beep.

Note: You can also initiate a voice call by opening the phone's flip cover, when this option is selected through the menu.

To change the **Voice Dial** activation options:

1. In standby mode, press **MENU** to display the main menu.

2. Press **7 PQRS** for **Voice Dial**.

3. Press **4 GHI** for **Set Active**.
   Two options display: **[*] Only** and **[*]/Flip**.

4. Press **OK/☰** to save the setting.

- **[*]:** Represents the number.

- **[*] Only:** Enables voice calling only by pressing and holding **✱ Shift**.

- **[*] /Flip:** Enables voice calling either, by pressing and holding **✱ Shift** or, by opening the phone's flip cover.

Games

Your phone's software allows you to play the following games:

- Flying Tight
- Run for Money

Flying tight

To play Flying tight:

1. In standby mode, press **MENU** to display the main menu.

2. Press **8 TUV** for **Games**.

3. Press **1.-'** for **Flying tight**. When the "start screen" is displayed, pressing **MENU** takes you to the Help screen which describes how to play the game.

4. Press **OK/☞** to begin the game.

Object

The object of the game is to fly the plane inside a cave through a maze of obstacles for the longest possible time. Use the toggle to control and sustain the plane's flight path and avoid the cave's wall. Keep your thumb on the toggle pushing "up" repeatedly to counteract gravity that wants to pull the plane down. The display timer shows how long you have managed to beat the odds.

Your life depends on how long you can avoid the creatures and objects that appear to cross your path. If you hit the cave's wall too much, or encounter the creatures or objects too many times (3) the game is over. You can pick up "E" (energy) along the way to extend your life, and a "B" (bomb) to destroy all the objects and creatures. The longer you manage to stay "alive", the higher your score. A high score is recorded each time you play.

Key commands

The following options are displayed prior to the start of the game:

Press the "up" arrow repeatedly to keep the plane in the air.

Press the "down" arrow repeatedly to lower the plane.

Press to begin the game.

Press to end the game.

Press to end the game.

Run for money

To play Run for money:

1. In standby mode, press **MENU** to display the main menu.

2. Press **8 TUV** for **Games**.

3. Press **2 ABC** for **Run for money**. When the "start screen" is displayed, pressing **MENU** takes you to the Help screen which describes how to play the game.

4. Press **OK/☑** to begin the game.

Object

The object of the game is to control the creature on the skate board, avoid collisions with motorcycles, and to pick up as many "Money" bags as you can before the game ends. Picking up a money bag increases the "Money" count. However, each time you are hit by a motorcycle your "Money" count resets itself to zero. You must pick up the specified number of money bags during each stage in order to advance to the next stage of the game. If a stage ends, and you have less than the specified number of money bags the game is over. A high score for both money and stage is recorded each time you play.

Key commands

The following options are displayed prior to the start of the game:

Press the "up" arrow repeatedly to move the creature upward.

Press the "down" arrow repeatedly to lower the creature.

Press to begin the game.

Press to end the game.

Press to end the game.

Setup

The following features allow you to personalize your phone.

Auto retry

With this option activated, your phone automatically retries the call when a connection fails. Dependent upon your location, the number of raters may vary.

To enable Auto Retry.

1. In standby mode, press **MENU** to display the main menu.

2. Press **9 wxyz** for **Setup**.

3. Press **1.-** for **Auto Retry**. The **Auto Retry** screen displays.

4. Press **↕** the toggle arrows to highlight an option. The options are:
   off, every 10 seconds, every 30 seconds and **every 60 seconds.**

5. Press **OK/☰** to save your option.

6. Pressing **C** returns you to the previous screen.

Auto answer

For further information on this feature see "Setting auto answer" on page 43.

Answer mode

With this option activated, your phone will allow you to 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:

- **By SEND key:** You can answer the phone by pressing **SEND**.
- **By Flip Open:** You can answer the phone by opening the phone's flip.
- **By any key:** You can answer the call by pressing any key.

To set Answer Mode:

1. In standby mode, press **MENU** to display the main menu.
2. Press **9 wxyz** for **Setup**.
3. Press **3 DEF** for **Answer Mode**. The **Answer Mode** screen displays.
4. Use the toggle arrows to highlight an option. The options are: **By flip open**, **By SEND key**, and **By any key.**
5. Press **OK/☞** to save your option.
6. Pressing **C** returns you to the previous screen.

Tone length

Some older phones recognize only longer tones. Therefore you may have to change the tone length for some calls. When calling a paging system or a credit card company remember that your phone should be set in the normal mode.

To change the tone length:

1. In standby mode, press **MENU** to display the main menu.
2. Press **9 wxyz** for **Setup**.
3. Press **4 GHI** for **Tone Length**. The **Tone Length** screen displays.
4. Use the toggle arrows to toggle between "**normal**", and "**long**".
5. Press **OK/☞** to save your option.
6. Pressing **C** returns you to the previous screen.

Set NAM

Your Samsung phone can store two NAMs (NAM stands for Numerical Assignment Module, and is essentially your phone number). This means that you can have two phone numbers on one phone, and you can quickly and easily switch your service back and forth between the two numbers using the NAM menu.

Note: Each NAM has an associated set of system roaming settings. See "Set network" on page 98 for information on these settings.

To select the NAM you want to use:

1. In standby mode, press ▱▱▱ to display the main menu.

2. Press ⑨ for **Setup**.

3. Press ⑤ for **NAM**.

4. Use the toggle arrows ▱ to toggle between **NAM 1** and **NAM 2**.

5. Press ▱▱ to save your option of choice.

6. Pressing ▱ returns you to the previous screen.

Note: If you change your NAM, the phone automatically reboots and acquires service using the new NAM.

Set system

Your Samsung phone allows you to set the preferred system. Changing this setting affects your charges, so contact your service provider to determine the best roaming methods for you.

To select the system you want to use:

1. In standby mode, press [MENU] to display the main menu.

2. Press [9 WXYZ] for **Setup**.

3. Press [6 MNO] for **Set System**. The **Set System** screen displays.

4. Use the toggle arrows [toggle] to select an option. The options are: **Home only, Automatic-A,** and **Automatic-B.**

5. Press [OK/☰] to save.

6. Pressing [C] returns you to the **Setup** menu.

• **Automatic-A:** With this setting, your phone will always try your calls using the Preferred Roaming List loaded into your phone, but if your phone cannot find any preferred systems, then it will attempt to acquire any digital or analog "A" system. In a wireless service area, there are usually at least two service providers which are referred to as "A" and "B" systems. Your service provider will provide you information about this when you sign up for service.

• **Automatic-B:** With this setting, your phone will always try your calls using the Preferred Roaming List loaded into your phone, but if your phone cannot find any preferred systems, then it will attempt to acquire any digital or analog "B" systems.

• **Home Only:** With this setting, you cannot roam. If your home system is not available then your call will not be connected and the ✗ No Service icon is displayed. In some service areas, an operator may come on-line and ask you how you would prefer to pay for the call.

Data/fax

Your Samsung phone is capable of sending and receiving digital data and fax calls when connected to a computing device (laptop, desktop, hand held, palmtop, etc.) running Windows 95, Windows 98, Windows 2000, Windows ME, or Windows NT. Your Samsung phone functions just like a typical modem on your PC, enabling you to use wireless data involving a wide variety of Windows software applications.

To use digital data or fax services with your Samsung phone, you will need to obtain a digital data/fax kit from your service provider. This kit will contain the necessary cables, software, and documentation required for you to connect and use your phone with your computing device. To set up Data/Fax calls:

1. In standby mode, press ▬▬ to display the main menu.

2. Press **9 wxyz** for **Setup**.

3. Press **7 pqrs** for **Data/Fax**. The **Data Mode** screen displays.

4. Use the toggle arrows ▼ to select an option. The options are:
    data/fax off, fax for next call, fax until powered off, data for next call, and **data until powered off.**

5. Press ◀OK/▢▢ to save your option of choice.

6. Pressing **C** returns you to the previous screen.

*   **data/fax off:** (No incoming Data/Fax calls can be received.)

*   **fax for next call:** (Waiting for Fax Call. No Voice Calls can be received for next 10 minutes.)

*   **fax until powered off:** (No Voice Calls can be received.)

*   **data for next call:** (Waiting for data call. No voice calls can be received.)

*   **data until powered off:** (No voice calls can be received.)

Note: The phone must be on a digital network to receive or send faxes and data. When you are in a digital network, the **D** icon is displayed.

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Receiving a fax

1. In standby mode, press **MENU** to display the main menu.

2. Press **9 wxyz** for **Setup**.

3. Press **7 pqrs** for **Data/Fax**.

4. Use the toggle arrows to highlight **fax for next call.**

5. Press **OK** to save this option.

In the Fax program on your PC set up **Answer Mode**. Click on "Receive" and select either **Automatic Receive** (recommended), or **Manual Receive**. Your phone is now ready to receive an incoming fax.

Note: Once you have set your phone's mode to "fax for next call", you cannot receive regular voice calls until you change back to "data/fax off". or a fax is received.

Changing your phone back to voice calling

To change your phone back to voice calling:

1. In standby mode, press **MENU** to display the main menu.

2. Press **9 wxyz** for **Setup**.

3. Press **7 pqrs** for **Data/Fax**.

4. Use the toggle arrows to highlight **data/fax off.**

5. Press **OK** to save this option. The screen displays **"No incoming Data/Fax calls can be received"**.

Ending a fax or data call

Some of the normal ways to end a call, like closing the phone, will not end a fax or data call. Always close the connection through the application on your computer. Your phone will return to standby mode. Disconnecting the data cable or turning off your phone will also end a data or fax call, but may disrupt your computer.

Sending a fax or data file

When connected to a computing device, your phone allows wireless fax and data transmissions. Your computing device software initiates the call to the destination phone number. Your Samsung phone functions as a wireless modem to send the fax or data file to the number designated by your PC software.

Set network

Your phone is set to digital mode. When in a weak signal area you may wish to seek better coverage. Your phone allows you to do this, forcibly searching for analog service. To set network:

1. In standby mode, press **MENU** to display the main menu.

2. Press **9 wxyz** for **Setup**.

3. Press **8 TUV** for **Set Network.** Select an option, or press to **C** cancel.

- **1-Time Analog Call**: This switches your phone into analog mode. Your phone will remain in analog mode for up to 10 minutes until a call is made. At that time your phone will automatically return to default.

- **Automatic**: This feature automatically looks for all forms of service. (1.9 MHZ, 800 MHZ, AMPS) according to the PRL (Preferred Roaming List) supplied by your carrier.

4. Press to toggle between options, and press **OK** to save.

Audio AGC - whisper mode

Audio AGC (Automatic Gain Control) or "Whisper Mode" automatically increases the microphone gain levels to allow the other party to hear your voice even though you may be whispering.

To set whisper mode:

1. In standby mode, press **MENU** to display the main menu.

2. Press **9 wxyz** for **Setup**.

3. Press **9 wxyz** for **Whisper Mode**.

4. Press to toggle between **"on"** and **"off"**.

5. Press **OK** to save.

Note: In normal environments, this feature may cause the volume of your voice to be too loud.

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Mail Kit

Mail Kit allows you to create, send, read, and save your messages. Your phone receives three kinds of messages: voicemail, text, and browser messages. To access Mail kit, press ▬◀OK/✉▬.

Note: Contact your service provider about activating the sending and receiving short message feature. This feature will only be available if your service provider's network supports it.

The Mail kit contains the following eight menus:

* **New Messages**
* **Voice**
* **Inbox**
* **Outbox**
* **Filed Msg**
* **WebAlert**
* **Erase Msg**
* **Msg Setup**

Mobile Originating (MO) SMS text messaging

Your Samsung N150 phone is able to send and receive text messages. When a message is received, your phone will sound an alert tone (unless turned off) and a new message pop-up window will be displayed on the screen.

Note: A total of 40 messages are available for messages. This memory is shared between all messages. The number of messages that can be stored is dependent upon the length of the messages. Messages that you send can contain a total of 160 characters.

Creating SMS Text Messages

1. In standby mode, press ![OK] to display **Mail Kit**.

2. Press ![1] for **New Messages**. The screen displays **Send To:**.

3. Press ![MENU] to select from options. (**Phone Book**, **T9 Word, ABC, Symbol, 123**).

- **Phone Book** allows you to search either by **Name**, **Entry**, or **RelationSrch**.

4. Toggle ![up/down] to highlight an option, then press ![OK] to select.

5. Toggle ![up/down] to highlight, then press ![OK] to select the entry mode. When the information is complete press ![OK] to continue.

6. Enter the message using the keypad and selected method of entry. When finished, press ![OK]. This returns you to the **New Message** menu.

To continue, select from the following two menus:

7. Pressing ![4] opens the **Options** menu. Select from the following:

- **Priority:** Allows you to select either **Urgent or Normal.**
- **Validity:** Allows you to select the period of time you wish to message to be available to the recipient. The choices are: **None, 30 min., 1 hour, 2 hours, 12 hours, 1 day, 2 days,** and **3 days,**
- **Send Later:** Allows you to select from: **None, 30 min., 1 hour, 2 hours, 12 hours, 1 day, 2 days,** and **3 days,**
- **Delivery Ack:** Select either **On** or **Off** as required.
- **Message: Do not save.** (Default). Others options are: **Prompt Save** and **Auto Save**.

8. Pressing ![5] opens the **Action** menu . Select from the following:

- **Send:** Allows you to send the message.
- **OK:** Allows you to save the message.
- **CLR:** Allows return to the previous menu.
- **END:** Allows you to cancel the message and end the session.

Entering text, numbers, and/or symbols

At various times when using your phone, you will need to enter text in the display screen. Some examples would be: adding an E-mail address, storing a name in the Phone Book, entering events in the Scheduler, or inputting text messages. If you want to enter text on the display screen.

1. You must be in one of the given examples in order to select **MENU** to view the menu options: **T9 Word** represented by 🔵, 🔵, and 🔵. **ABC** represented by 🔵, 🔵, and 🔵. **Symbol** represented by 🔵, and **Numeric** represented by 🔵.

2. After you are in the correct menu, use the toggle to highlight your option choice, then press **OK/☒** to save the option. Enter your information and remember you can:

- Press **# Space** to insert a space.

- Press **C** to clear the last number, letter, or symbol, or Press and hold **C** to completely clear the input field.

If you wish to change the input mode again, after pressing **MENU** to view the options: **T9 Word, ABC, Symbol,** and **Numeric**, use the toggle arrows to highlight your option choice, then press **OK/☒** to save.

- **ABC:** This is the text entry mode. Upper case entry mode 🔵 icon, lower case entry mode 🔵 icon, and initial upper case with lower case entry mode 🔵 icon: These icons represent the alphabetical text entry modes and can also be used for multi-tap typing. For example: quickly press **2 ABC** three times to display the letter C, and press **5 JKL** twice to display the letter K.

- **T9 Word:** This is the predictive word entry mode. You can quickly and easily enter frequently used words.

- **Symbol:** Symbol entry used with numeric keys and associated symbols.

- **Numeric:** This is the number entry mode.

Alphabetical text entry

Alphabetical text entry characters may be entered in ABC mode, by pressing the corresponding key to the letter you wish to enter.

Press the same key repeatedly to change between the characters represented by each key. To change capitalization formats while entering text, press **✱Shift** to toggle between **AB**, **ab**, and **Ab** modes.

Entering numbers

Numeric mode **123** enables you to enter numbers into a text message.

Symbol entry

Symbol mode **Sy** enables you to enter symbols into a text message. Use **MENU** to display the options, then press the toggle arrows up/down to select the symbol option. When displayed, use the toggle to manipulate the symbols. When in Symbol input mode, press the key shown on the display under the required symbol. Here are the list of available symbol characters:

• **1.-'**	!	_	\	;
• **2 ABC**	@	+	?	¡
• **3 DEF**	#	=	.	¿
• **4 GHI**	%	:	,	<<
• **5 JKL**	&	"	{	>>
• **6 MNO**	*	'	}	±
• **7 PQRS**	<	(	$	^
• **8 TUV**	>	)	[	·
• **9 WXYZ**	-	/	]	º

T9® Word text entry

T9 Word, or T9 for "text on 9 keys", requires only one key press per letter, and recognizes the most commonly used word of a numeric sequence.

For example, to enter the word "hello", you can spell out the word by pressing only five keys, 4-3-5-5-6. T9 Text Input recognizes the most commonly used word for that numeric sequence is "hello". If two or more words share the same numeric sequence, T9 provides the most commonly used word, with the ability to toggle to the next most commonly used word by pressing **0 Next**.

Press **0 Next** repeatedly to display all of the available words that T9 knows. When the word you need displays, continue to enter text in the same way, or change to another text or character entry mode.

Note: To type words not found in the T9 mode, change the text input mode to ABC mode. You can include numbers between letters without exiting the T9 input mode by pressing and holding the desired numeric key.

New messages

You can create text or e-mail messages to send to another party. Each message can be sent to up to 10 numbers or E-mail addresses at a time. Message options allow you to set a priority, validate a time period, or send a message after a specified time. You can also file draft messages yet to be sent, into a folder, or save sent messages to the Outbox to review their delivery status.

Note: Sending messages is only supported in digital networks. This feature will only be available if your service provider's network supports it.

Note: Once you commence entering the data to be sent, the number of characters available will be displayed on the screen.

1. In standby mode, press to display **Mail Kit**.

2. Press for **New Messages**. The screen displays **Send To:** ([This is a required entry field], once the recipient's data is entered it can be sent any time by pressing .) (Pressing permits selection from the options: **Phone Book, T9 Word, ABC, Symbol** and **123**.

- **Phone Book:** Allows you to retrieve the Phone Number or e-mail address to which the data is to be sent using the options: **Find Name**, **Find Entry** and/or **RelationSrch** .

- **T9 Word, ABC, Symbol** and **123** are text entry modes.

3. After finding and entering the **Send To:** information, press to go to the **Message** menu.

4. Enter your message data, (press to select your text entry mode), when finished, press to return to the **New Message** menu.

5. If the same message is to be sent to multiple recipients, press to go to the **Send To:** menu. Entry "01" is the first destination, the address is already entered (there are 10 destinations available.) Pressing allows you to select the **Edit** option if you so require, if not.

6. Select 1, or select from the 10 multiple destinations available using the toggle ⏷ arrows. (Press **MENU** to open the **PhoneBook** or **Edit** options if required), when finished press **OK/⊠**.

7. To add additional recipient addresses, repeat the above steps. The multiple destinations entered will be updated on the **Send To:** screen.

8. Press **SEND** at any time to despatch the information.

Voice

Refer to "Reviewing voice mails and text messages" on page 112, for instructions on how to operate this option.

Responding to a Message

Note: For further information see "Message options" on page 114.

Inbox

Your phone receives incoming messages in both standby and talk modes. When you are on a call and receive a message, your phone automatically mutes the ringer and displays a pop-up window which displays two options: Ignore and Text. Select Text to read the message or choose Ignore to ignore the message.

Outbox

Your phone stores messages in Outbox, regardless of whether the message was successfully transmitted. If "Do Not Save" was not set in the Save Message setting under Msg Setup, you can review, resend, or delete any message stored in the Outbox. You can also verify if a message or E-Mail was successfully transmitted, and at what date and time by opening the Delivery Acknowledgement feature.

Reviewing outbox

To review outgoing messages:

1. In standby mode, press **OK/⊠**, to display the **Mail Kit** menu.

2. Press ![4GHI] for **Outbox**. A list of messages displays.

An icon displayed next to the entry number represents the transmission status:

•   ![icon] indicates that the message was successfully transmitted and delivery was acknowledged (Delivery Ack).

•   ![icon] indicates that the message was transmitted but is, as yet, undelivered.

•   ![icon] indicates that the message transmission failed.

3. Using the ![toggle] toggle, highlight the message you wish to review and press ![OK] to select it. Across the top of the new display screen will display **"Tx Msg **"**, (where ****** represents the message number). The display screen will also show the date and time of transmission, together with the Send to #, E-Mail address, call back number, the message and the delivery status.

4. Press ![MENU] for further options. A **"Sent Msg"** menu will display.

•   Select **"Re-send"** to resend the message, press ![SEND] to resend with the same message settings, or follow the steps shown in "Web alert" on page 109, to edit and resend the message.

•   Select **"Delete"** to delete the message from **Outbox**.

Message memory capacity

Your phone can store up to 40 messages combined for all messages. The storage capacity includes all received, sent, filed message types, VMN (Voicemail Notification), and text messages. The number of messages stored, depends upon the length of each message. When message memory reaches over 75% capacity, the screen displays "Memory is **% full. Erase old messages", where ** is between 75% to 100%. At 100% capacity, the screen displays a text notification and rejects additional incoming messages until you erase the stored messages from Inbox, Outbox or Filed Msg.

Messages and lock mode

Incoming messages are received even when your phone is in Lock Mode. The screen will display the time and date of the message but you cannot access the message. To access the message, unlock the phone to proceed

Delivery acknowledgement

If Delivery Acknowledgement is set to "on" by using either Message Setup or New Messages options in the Mail Kit menu, a message alert will be sent to your phone. This Delivery Acknowledgement message alert appears on the phone's display screen, indicating that the message was successfully delivered, together with the recipient's address and the delivery date and time. This information will be displayed on your screen until you press any key, it will include the delivered date/time stamp, and text notification of "Message to (Send To #, or E-mail Address) delivered."

Note: This Delivery Acknowledgement message will not be stored into memory as it is a "one-time" only display. Also, if multiple messages were transmitted consecutively within a short time period, only information relating to the last message delivered will display.
Note: Delivery Acknowledgement is a message sent from the system to indicate that a message arrived at its destination without error.

Use the following method to review the delivery status of an outgoing message:

1. In standby mode, press ![OK/menu key] to display the **Mail Kit** menu.

2. Press ![4 GHI key] for **Outbox**.

3. Toggle to view the delivered date/time stamp for the transmitted message located at the bottom of the display.

4. Pressing ![C key] returns you to the previous screen.

Note: While reviewing a message, you can press ![MENU key] for more options. See "Message options" on page 114.

Filed message

Your phone can store draft messages that are yet to be sent in the Filed Msg folder. You can access this folder at a later time to edit and send the message.

Note: The memory capacity available for the Filed Msg folder is relative to the Outbox memory capacity.

To store unsent messages to the Filed Msg folder:

1.   In standby mode, press <img_ref>, to display the **Mail Kit** menu.

2.   Press <img_ref> for **New Messages**. The **Send To:** screen displays. Press <img_ref> for the options. Toggle to highlight an option and press <img_ref>.

Note: If the Phone Book option is chosen the Find Name, Find Entry and Relationsrch options become available. Toggle to highlight the option of choice and press <img_ref>

3.   Enter the **Send To:** information and press <img_ref> . The **Message** screen displays.

4.   Press <img_ref> for the options. Toggle to highlight an option and press <img_ref>.

5.   Enter a message, when finished press <img_ref>, the **NEW MESSAGES** screen displays.

6.   Press <img_ref> for **Action**.

7.   Press <img_ref> for **Filed Msg**.

To access unsent messages and continue editing:

1.   Press <img_ref>, to display the **Mail Kit** menu.

2.   Press <img_ref> for **Filed Msg**. The number of pending messages display next to the **Filed Msg** text. The filed messages will display in order.

3.   Toggle <img_ref> to highlight the message, and press <img_ref> to open.

4.   Follow the steps shown in "Web alert" on page 109, to edit and resend the message.

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Web alert

Your phone alerts you with incoming browser messages. When a new message arrives, your phone will display a text notification together with an audible alert. You can access Web Alert from the Mail Kit menu.

Erase message

1. In standby mode, press <img_ref />, to display **Mail Kit.**

2. Press **7 PQRS** for **Erase Msg**.

3. Toggle <img_ref /> to highlight an option from those offered:

    Voice, **OldInbox**, **NewInbox**, **Outbox**, **Filed**, and **All Messages.**

4. Press <img_ref /> to complete the action.

Message setup

1. In standby mode, press <img_ref />, to display **Mail Kit.**

2. Press **8 TUV** for **Message setup**.

3. Toggle <img_ref /> to highlight an option from those offered:

    General, and **New Messages.**

4. Press <img_ref /> to complete the action.

You can preset a number of options for general settings or new messages. The message indicator is displayed and remains on the screen until you listen to the new voicemail message, read the **New BrowserMsg** or **Text Msg.**

General

Offers a number of separate features, Scroll Timer, Msg. Reminder, Message Volume, and Ringer Type.

Scroll Timer

Scroll Timer allows you to select the amount of time you would like your scroll to be available before closing.

The choices are: **Off, 1/2/3/4/5 seconds.**

Msg. Reminder

Message Reminder allows you to select the number of times you would like to be reminded that you have a message.

The choices are: **Off, Once, Every 2 mins.**

Message Volume

1. When selected, the screen immediately displays the volume icon ![icon], the bars of which will change according to the setting chosen. When the desired volume setting is reached, press ![OK] to save.

2. Press ![C] to return to the previous menu at any time.

Note: When the lowest volume setting is reached, the phone automatically goes into vibrate mode, physically alerting you to this option.

Ringer Type

Four options can be found under this heading. All have five monotone ringer types and fifteen melody tones.

1. Use the toggle ![arrow] arrow to locate and toggle through the ringer types. Each tone plays as you toggle through the options.

2. When the desired ringer type plays, press ![OK] to save the setting.

Ringer Type — Voice Mail

Refer to "Ringer Type" on page 110 for instructions on how to operate this option.

Ringer Type — Page

Refer to "Ringer Type" on page 110 for instructions on how to operate this option.

Ringer Type — Text

Refer to "Ringer Type" on page 110 for instructions on how to operate this option.

Ringer Type — Browser Msg

Refer to "Ringer Type" on page 110 for instructions on how to operate this option.

New Message

Offers a number of options. Each option offers different features.

Callback

Press ![SEND] to automatically call the number displayed on the screen.

Save Message

You are offered three options. Select ![OK] to save the setting.

Prompt Save - saves the message.

Do Not Save - does not save the message

Auto Save - automatically saves the created message to the **Outbox** after the message has been transmitted.

Entry Method

You can toggle between **Alphabet** and **T9 Word** (predictive keypad) for the default setting. Select ![OK] to save the setting.

Delivery Ack.

Toggle to highlight **On** or **Off**. Select ![OK] to save the setting.

Canned Msg.

There are a total of 10 frequently used canned messages pre-programmed into your phone. You can select the number that is associated with each canned message, and press ![OK] to edit it.

Once you have completed the editing of a **canned message**, press ![OK] to save. For further information see "List of main and sub menus" on page 21.

Receiving a message in standby mode

When your phone receives incoming messages in standby mode, the ringer sounds, (unless it is turned off), and the screen displays: "**New Voicemai**l", "**New Text**", "**New Page**" or "**New BrowserMsg**". The message icon is displayed, and remains on display until you listen to, or read, the new message.

Receiving a message while on a call

When you receive message when you are on a call, the **New Messages** screen displays two options: "**Ignore**" and" **Text**". The "closed envelope" icon ✉ is displayed.

You can easily review the new message while on the call by just pressing 🔘. Your call will not be disconnected, and you can ask the other party to wait while you review the message. If you wish to ignore the message, just select that option and continue with your call.

Reviewing voice mails and text messages

When a message arrives, you can recall the sender's call back number if it is available, by pressing 🔘. If you only wish to review the message, press 🔘. The **Inbox Msg** list provides options for reviewing the sender's name, number, date and time information, and the message.

Reviewing stored voicemail and text messages in standby mode

1. In standby mode, press **[OK/⊠]**, to display the **Mail Kit** menu. The number of received or sent messages displays next to the associated message type in the menu.

2. Press **[2 ABC]** for **Voice**. The date and time for the last voice mail message received is displayed, together with a notification of the number of new voice mail messages.

   • You can press **[SEND]** twice to call your mail box directly to review voice mails.

   • You can press **[3 DEF]** for **Inbox.** A list of messages displays.

   • **▶▶** next to an entry number indicates an urgent message.

   • **✉** next to an entry number indicates that the message has already been read.

3. Use the **[⌄]** toggle arrows to highlight the message you wish to review, press **[OK/⊠]** to open it.

   • While reviewing the message, you can press the **[⌄]** toggle arrow to locate the message information such as **date and time**, **sender's call back number**, **senders number**, **E-Mail address**, and **message**. However, if you wait a few seconds the phone will automatically scroll through the display.

   • To review other messages. Using the **[⌄]** toggle press the appropriate arrow to the right to review the next message, or to the left to review the previous message.

4. Pressing **[C]** returns you to the previous screen.

Note: When reviewing a message, you can press **[MENU]** for further options. For further information see "Message options" on page 114.

Note: When in standby mode, press and hold down **[OK/⊠]** to automatically dial voice mail.

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Message options

When reviewing Messages, the menu provides a number of options. You can return a call or text message to the phone number, or e-mail address in that message, or you can forward the message to another.

1. In standby mode, press , to display the **Mail Kit** menu. A number of received or sent messages displays next to the associated message type in the menu.

2. For **Text** messages use the toggle to locate the message you wish to review, press to open it.

3. Press to view the following options:

   "**Reply", "Forward", "Delete", "Save Address" and "Save cb#"**

   - **Reply:** to reply to the sender. The phone accesses the "**New Message**" menu and copies the sender's originating address to the "**Send To:**" field.
   - **Forward:** to forward the message to another. The phone accesses the "**New Message**" menu, and copies the sender's message (body) to the "**Message"** field.
   - **Delete:** to delete the message from the **Inbox**.
   - **Save addr:** to save the sender's e-mail address to the Phone Book. The address is automatically copied into the **Add Entry** or **E-mail Entry** field. For further information see "Add entry" on page 44 and "Adding an e-mail address" on page 50 for assistance on saving phone numbers or E-mail addresses to the Phone Book.
   - **Save cb#:** to save the call back number to the **Phone Book**. The number is automatically copied to the **Add Entry** field.

4. Pressing returns you to the previous **Inbox** messages list screen.

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Security

Your phone provides security options, including a user-programmable lock code and emergency/secret phone number features. To access the Security menu in standby mode, press ![MENU], ![0 Next], and then enter the 4-digit lock code (normally the lock code is the last 4-digits of your phone number). Press the associated digit key to access one of the following Security options:

- **1. Lock Mode**
- **2. Restrict**
- **3. Lockcode**
- **4. Emergency #**
- **5. Send PIN**
- **6. Clear MEM**
- **7. Reset Phone**
- **8. Voice Privacy**

Lock mode

Locking the phone limits all outgoing calls except calls to the three hard-coded emergency numbers (911, *911 and #911), and the three user-programmable emergency/secret numbers.

You can lock the phone manually during use, or set the phone to lock automatically when it is turned on. When the phone is in Lock Mode, you can answer incoming calls, but you must unlock the phone to place outgoing calls (except to emergency and secret numbers).

Locking the phone

The Security menu allows you to lock the phone manually or automatically when powering on your phone or to leave the phone unlocked.

To lock the phone:

1. In standby mode, press ![MENU] to display the main menu.

2. Press ![0 Next] for **Security** and enter your current lock code.

3. Press for **Lock Mode**. Use the toggle to locate an option:

- •**Never:** The phone remains unlocked.
- •**Now:** The phone locks immediately and stays locked until the lock code is entered.
- •**On Power-Up:** The phone locks automatically the next time your phone is powered on and stays locked until the lock code is entered.

4. Press to save the setting.

Unlocking the phone

When the phone is locked, pressing , , or causes the phone to display **"User Lock"**. Just enter the phone's lock code, and the phone is immediately unlocked.

Calling in lock mode

You can place emergency calls and to the 3 confidential numbers you programmed in the lock mode. To place normal outgoing calls in lock mode, enter the lock code to unlock the phone, and then call the phone number.

To place an outgoing call in lock mode:

To call an emergency or confidential number, enter the number and then press .

Restricting the use of your phone

This feature allows you to restrict the use of your phone.

1. In standby mode, press to display the main menu.

2. Press for **Security**. Enter your current lock code.

3. Press for **Restrict**. The 'Restrict Phone' screen displays.

4. Use the toggle to locate the 'Yes' or 'No' option offered, and press to save the option of choice.

5. Pressing returns you to the previous screen.

Lockcode

The default lock code for your phone is generally the last four digits of your phone number. You can enter a personal lock code and later change the lock code as often as you like.

To enter a new lock code:

1. In standby mode, press ![MENU] to display the main menu.

2. Press ![0 Next] for Security.

3. Enter your current lock code.

4. Press ![3 DEF] for **Lock Code**. The screen prompts "**ENTER NEW CODE**". Enter a new, 4-digit lock code by pressing the keypad. You will be prompted to "**RE-ENTER NEW CODE**". Enter the same 4-digit lock code.

5. Press ![OK] to save the new lock code, or press ![C] to exit.

Note: Your phone does not allow viewing of the lock code unless you know the lock code (this is for obvious security reasons). So, if you change the lock code, be sure to write down or memorize the new code.

Emergency #'s

Your phone provides the option of storing three emergency numbers. Each number can be up to 32 digits.

All emergency numbers can be manually called at any time even when your phone is locked or restricted. This can be a useful feature for controlling what numbers can be called from your phone.

Note: Emergency numbers 911, *911, and #911 are hard-coded to your phone. You can dial these numbers by pressing ![SEND] after number entry at any time, even when the phone is locked or restricted. If you call 911 an audible tone is heard and an "**Emergency**" prompt is displayed during the duration of the call.

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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.

DO NOT depend on this phone as a primary method of calling 911 or for any other essential or emergency communications.

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

Storing emergency numbers

To store emergency numbers:

1. In standby mode, press **MENU** to display the main menu.

2. Press **0 Next** for **Security** and enter your current lock code.

3. Press **4 GHI** for **Emergency #**.

4. Press **1.-'**, **2 ABC**, or **3 DEF** to select from the three entry openings.

5. Enter the emergency number. Up to 32 digits can be entered for each number.

6. Press **OK/☰** to save the number entered.

7. Press **C** to exit and return to the previous menu.

Calling emergency numbers in lock mode

To call emergency numbers in lock mode:

1. In standby mode, use the keypad to enter the emergency number.

2. Press **SEND** to place the call.

Send PIN

The PIN (Personal Identification Number) feature prevents your phone from being used by unauthorized persons. Contact your service provider for complete information on this feature.

To set your phone to prompt for your PIN to be sent to the system whenever a call is placed.

1. In standby mode, press **MENU** to display the main menu.

2. Press **0 Next** for **Security** and enter your current lock code.

3. Press **5 JKL** for **Send PIN**.

4. Choose between **Never** or **Prompt**.

5. Press **OK** to save.

Note: Your service provider must enable this feature and assign you a PIN in order for this feature to work.

Clear MEM

Clear MEM erases your Phone Book and Voice Dial recordings. Personal settings (the call log, Mail Kit messages, Schedules, or other phone feature settings), are unaffected by clearing the memory on your phone. This feature is useful if you want to give your phone to a friend or family member, or if you want to erase all of your phone numbers. To clear your phone's memory:

1. In standby mode, press **MENU** to display the main menu.

2. Press **0 Next** for **Security** and enter your current lock code.

3. Press **6 MNO** for **Clear MEM**. A confirmation prompt **"Proceed"** will display.

4. Press **OK** to clear the phone's memory, or press **C** to cancel the operation.

Note: After a few seconds, a prompt "Erased" message will display and the phone will return to standby mode.

Resetting your phone

Resetting the phone returns all setup options to the factory default settings.

To reset the phone:

1. In standby mode, press [MENU] to display the main menu.

2. Press [0 Next] for **Security** and enter your current lock code.

3. Press [7 PQRS] for **Reset Phone**. A confirmation prompt displays asking if you want to "**Proceed**".

4. Press [OK/☒] to reset the phone or press [C] to cancel the operation.

Note: This may take up to 20 seconds to complete. Once complete, the phone will automatically power cycle itself and return to standby mode.

Voice privacy

When in an area that supports the voice privacy option and it is enabled, the phone makes an audible beep.

To activate voice privacy.

1. In standby mode, press [MENU] to display the main menu.

2. Press [0 Next] for **Security** and enter your current lock code.

3. Press [8 TUV] for **Voice Privacy**. Select **"Enhanced"** to activate, or **"Standard"** to deactivate the **Voice Privacy** feature.

4. Press [OK/☒] to save the setting, or press [C] to cancel.

Note: Your service provider must enable this feature. Contact your service provider to verify if this feature is available on their network.

Note: Your phone's display screen will display a [P] icon when the phone's voice privacy is enabled. If in an area that does support voice privacy the character [P] is displayed.

In-Use Menu

Your phone includes both a standby menu and an In-Use menu. The In-Use menu is displayed by pressing **MENU** while the phone is being used during a call in progress. The In-Use menu options are:

*   **Mute/Quit** - Mutes or (Un)mutes your end of a phone conversation so that the recipient can hear nothing.

*   **Calls** - Checks your call log for outgoing, incoming, and missed calls. You can also erase the logs from this menu.

*   **Phone Book** - Accesses the Phone Book menu options.

*   **Silent/Quit** - Activates or deactivates the "Silent keypad" feature. When set to the silent mode, your keypad's tone is not sent out to the calling party. However, this feature should not be used when you access automated services that require you to select options, or enter numbers using the keypad.

*   **Send Tel #** - Sends your phone number to the calling party or automated services.

*   **My Phone #** - Displays the phone's own number.

*   **Version -** Displays the version of the software and hardware that is being used on the phone.

*   **Voice Privacy** - Although your conversation is securely encrypted to prevent eavesdropping when used in digital mode, this feature extends the encryption when set to the enhanced mode.

Usage guidelines — all about performance and safety

Understanding signal strength

The quality of each call you make or receive, is dependent upon the signal strength in your area. Your phone will inform 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. The signal strength indicator ( ) displays in the upper left corner of your display screen. The voice quality of your phone will always be at its clearest when the antenna is fully raised. If you're inside a building, reception may be much better near a window.

Understanding the power save mode

If you are trying to use your phone in an area where the signal is too weak, the Power Save feature will automatically activate to conserve battery power when you have been unable to pick up a signal for 15 minutes. If your phone is on, it will periodically recheck service availability, or you can do so yourself manually by pressing any key. A message will be displayed on the screen any time Power Save has been activated. 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 is turned on, it receives and transmits radio frequency (RF) signals. When your phone is in use, the system handling your call controls the power level. This power can range from 0.006 watts to 0.2 watts in digital mode.

Specifications are subject to change

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

FCC RF Exposure information

The design of your Samsung 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).

Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations

Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for a replacement antenna. The design of the phone complies with these updated standards. Of course, if you want to limit RF exposure even further than the updated standard, you can choose to control the duration of your calls and operate your phone in the most power-efficient manner.

- You should not touch the antenna unnecessarily when using the phone.
- Touching the antenna may affect the call quality and may cause the unit to operate at higher power than it would need otherwise.
- When using the handset, hold the handset just as you would hold any other telephone, and keep the antenna pointed up and over your shoulder.
- Use of hands-free devices will further limit RF exposure.

Body-worn operation

To maintain compliance with FCC RF exposure guidelines, if you wear a handset on your body, use a Samsung supplied or approved carrying case, holster or other body-worn accessory. If you do not use a body-worn accessory, ensure 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.

Vehicle mounted external antenna (if available)

A minimum separation distance of 7.9 inches (20 cm) must be maintained between a person and the vehicle mounted external antenna to satisfy FCC RF exposure requirements.

Note: For more information about RF exposure, please visit the FCC website at www.fcc.gov.

How to order accessories

Most Samsung accessories can be purchased by visiting our web site at www.samsungtelecom.com or calling 1.800.SAMSUNG.

The accessories available for this phone include:

- Travel adaptor
- Desktop Rapid Charger
- Hands-free headset
- Car adaptor
- Standard, and Extended-life batteries
- Hands-free car kit
- Data cable
- Leather case
- Holster

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

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

IT IS EXTREMELY IMPORTANT THAT ONLY GENUINE SAMSUNG AUTHORIZED ACCESSORIES BE UTILIZED WITH YOUR SAMSUNG PHONE. THIS IS BECAUSE ACCESSORIES MIGHT APPEAR TO BE A PERFECT MATCH, AND LABELED SUITABLE FOR YOUR SAMSUNG PHONE, BUT THEY CAN CHARGE AT DIFFERENT CURRENT RATES. THE CURRENT PROVIDED THROUGH THE ACCESSORY MAY NOT MATCH THE CURRENT THAT IS REQUIRED BY YOUR SAMSUNG PHONE AND THE RESULT OF USING AN UNAUTHORIZED ACCESSORY MAY BE A BATTERY OR PHONE MELT DOWN. YOUR WARRANTY OF COURSE, WOULD BE NULL AND VOID.

Operating a motor vehicle

FAILURE TO FOLLOW THESE INSTRUCTIONS MAY LEAD TO SERIOUS PERSONAL INJURY AND PROPERTY DAMAGE.

You should never use a hand-held phone while operating a motor vehicle. It may divert your attention away from driving and may be illegal in some cities, states, and jurisdictions. You should park your vehicle legally before using your hand-held phone. Remember, safety comes first.

- Your hand-held phone should be stored in a secure place so that, in the event of a sudden stop or collision with another vehicle, the phone will not damage property or injure anyone. For example, airbags inflate very quickly and with great force. Serious injury may result if you have placed your phone in the area of deployment of an air bag and the bag inflates. Park your vehicle legally before using your hand-held phone.

- Call to report serious emergencies. No charges from your carrier.

- Use your phone to help others in emergencies.

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- Call roadside assistance or a secret non-wireless number when necessary.

Following safety guidelines

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. All wireless phones may be subject to radio interference, which may affect their performance.

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.

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. 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 engine

Restricting children's access to your phone

Your Samsung 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.

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.

Maintaining your phone's peak performance

To operate your phone properly — that is, to maintain safe and satisfactory service — you should follow these rules:

- For best reception, extend the antenna fully.

- Hold the phone with the antenna up and over your shoulder.

- Do not hold, bend, or twist the phone antenna at any time.

- Close the phone antenna when not on a call.

- Do not use the phone with a damaged antenna.

- Speak directly into the microphone.

- Avoid exposing your phone and accessories to rain or liquid. If your phone does get wet, immediately turn the power off and remove the battery.

- Only Samsung authorized personnel should service your phone and accessories.

Using your phone near other electronic devices

Most modern electronic equipment is shielded from radio frequency (RF) signals. However, some electronic equipment may not be shielded, or adequately shielded, from RF signals. RF signals from wireless telephones may affect such equipment.

RF signals from your phone may affect systems in your vehicle, including improperly installed or inadequately shielded electronic operating and entertainment systems in motor vehicles (such as electronic ignition systems, electronic speed control systems, electronic anti-skid or anti-lock braking systems, and air bag systems). You should check with the manufacturer of your vehicle (and the manufacturers of any equipment added to your vehicle) to determine whether its systems are adequately shielded from external RF signals and to determine appropriate safety precautions.

You must 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 and the appropriate safety precautions to take with such devices. For example, safety instructions for pacemakers may include minimum distances that the phone should be kept from the pacemaker, areas where the phone should not be kept (for example, the breast pocket), use of the ear opposite the pacemaker, and other such safety instructions. The advice from the manufacturers may change from time to time. If at any time you suspect any such interference, turn off your phone immediately.

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

Storing your phone

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

Your phone as a network device

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

Your phone will always try your call using your home system, but if this is unavailable, then the phone will use the preferred roaming system.

If you cannot roam, your call will not be connected, and in some service areas, an operator may ask you how you would like to pay for the call.

To make all of the features available to you, your phone is designed by Samsung and your service provider to allow your service provider to send (at any time) a variety or information and messages to your phone. You may think of this as an over the air service to your phone. During an over-the-air programming session, your phone may display the following messages:

- **"Programming in progress..."** - this message means the phone is downloading data. *Do not turn your phone off while this is occurring*. See the **CAUTION**: below.

- **"Programming successful!..."** - if this message displays after a series of other messages, then it means that your phone has been successfully reprogrammed. You can now continue to use your phone as you normally do.

- **"Programming unsuccessful!"** - if this message appears contact your service provider.

CAUTION: If you turn off your phone during a programming session, your phone (or some features) may not work properly in the network. If this happens don't worry, contact your service provider for help in correcting the problem.

Acknowledging special precautions and the FCC and Industry Canada Notice

Information to user

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation; if this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

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

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 used approved batteries, antennas, and adaptors. The use of any unauthorized accessories may be dangerous and will invalidate the phone warranty if said accessories cause damage or a defect to the phone.

Although your phone is quite sturdy, it is a complex piece of hardware and can be broken. Use common-sense guidelines to avoid dropping, hitting, bending or sitting on it.

FCC compliance information

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

Owner's record

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

Model:

Serial No.:

Samsung phone/battery specifications

Dual Band:	CDMA 1.9GHz / CDMA 800 MHz/AMPS 800 MHz
Display Screen:	Graphical LCD up to 6 lines w/1 dedicated Icons Line)
Battery Type:	Standard: Lithium-Ion
PCS Antenna:	Retractable, user-replaceable

Samsung phone with standard battery

Dimensions (H x W x D:)	4.5 x 2.0 x 0.8 inches or 116 x 52 x 21 mm
Weight:	4.2 oz. (120 g)
Volume:	107 cc
Talk Time Digital:	Up to 2.8 hours
Standby Time Digital:	Up to 140 hours
Analog:	15 hours

Sony Corp. TYPE BST0369DE, Rated 3.7V 900mAH LI-ion

Samsung phone with extended battery

Dimensions (H x W x D:)	4.5 x 2.0 x 1.0 inches or 116 x 52 x 24.5 mm
Weight:	4.4 oz. (125 g)
Volume:	112 cc
Talk Time Digital:	Up to 3.9 hours
Analog:	Up to 1.6 hours
Standby Time Digital:	Up to 200 hours
Analog:	23 hours

Sony Corp. TYPE BEX036DDE, Rated 3.7V 1300mAH LI-ion

User guide proprietary notice

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FDA consumer update

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

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

Why the concern?

Mobile phones emit low levels of radio frequency energy (i.e., radio frequency radiation) in the microwave range while being used. They also emit very low levels of radio frequency energy (RF), considered non-significant, when in the standby mode. It is well known that high levels of RF can produce biological damage through heating effects (this is how your microwave oven is able to cook food). However, it is not known whether, to what extent, or through what mechanism, lower levels of RF might cause adverse health effects as well. Although some research has been done to address these questions, no clear picture of the biological effects of this type of radiation has emerged to date. Thus, the available science does not allow us to conclude that mobile phones are absolutely safe, or that they are unsafe. However, the available scientific evidence does not demonstrate any adverse health effects associated with the use of mobile phones.

What kinds of phones are in question?

Questions have been raised about hand-held mobile phones, the kind that have a built-in antenna that is positioned close to the user's head during normal telephone conversation. These types of mobile phones are of concern because of the short distance between the phone's antenna - the primary source of the RF - and the person's head. The exposure to RF from mobile phones in which

the antenna is located at greater distances from the user (on the outside of a car, for example) is drastically lower than that from hand-held phones, because a person's RF exposure decreases rapidly with distance from the source. The safety of so-called "cordless phones," which have a base unit connected to the telephone wiring in a house and which operate at far lower power levels and frequencies, has not been questioned.

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

Briefly, there is not enough evidence to know for sure, either way; however, research efforts are on-going. The existing scientific evidence is conflicting and many of the studies that have been done to date have suffered from flaws in their research methods. Animal experiments investigating the effects of RF exposures characteristic of mobile phones have yielded conflicting results. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. In one study, mice genetically altered to be predisposed to developing one type of cancer developed more than twice as many such cancers when they were exposed to RF energy compared to controls. There is much uncertainty among scientists about whether results obtained from animal studies apply to the use of mobile phones. First, it is uncertain how to apply the results obtained in rats and mice to humans. Second, many of the studies that showed increased tumor development used animals that had already been treated with cancer-causing chemicals, and other studies exposed the animals to the RF virtually continuously - up to 22 hours per day.

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

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

     When 20 types of gliomas were considered separately, however, an association was found between mobile phone use and one rare type of glioma, neuroepithelliomatous tumors. It is possible with multiple comparisons of the same sample that this association occurred by chance. Moreover, the risk did not increase with how often the mobile phone was used, or the length of the calls. In fact, the risk actually *decreased* with cumulative hours of mobile phone use. Most cancer causing agents increase risk with increased exposure. An ongoing study of brain cancers by the National Cancer Institute is expected to bear on the accuracy and repeatability of these results.[1]

2.   Researchers conducted a large battery of tests to assess the effects of exposure to mobile phone RF on genetic material. These included tests for several kinds of abnormalities, including mutations, chromosomal aberrations, DNA strand breaks, and structural changes in the genetic material of blood cells called lymphocytes. None of the tests showed any effect of the RF except for the micronucleus assay, which detects phone

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1. Muscat et al. Epidemiological Study of Cellular Telephone Use and Malignant Brain Tumors. In: State of the Science Symposium; 1999 June 20; Long Beach, California.

radiation, but only after 24 hours of exposure. It is possible that exposing the test cells to radiation for this long resulted in heating. Since this assay is known to be sensitive to heating, heat alone could have caused the abnormalities to occur. The data already in the literature on the response of the micronucleus assay to RF are conflicting. Thus, follow-up research is necessary.[1]

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

1. Two groups of 18 people were exposed to simulated mobile phone signals under laboratory conditions while they performed cognitive function tests. There were no changes in the subjects' ability to recall words, numbers, or pictures, or in their spatial memory, but they were able to make choices more quickly in one visual test when they were exposed to simulated mobile phone signals. This was the only change noted among more than 20 variables compared.[2]

2. In a study of 209 brain tumor cases and 425 matched controls, there was no increased risk of brain tumors associated with mobile phone use. When tumors did exist in certain locations, however, they were more likely to be on the side of the head where the mobile phone was used. Because this occurred in only a small number of cases, the increased likelihood was too small to be statistically significant.[3]

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

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1. Tice et al. Tests of mobile phone signals for activity in genotoxicity and other laboratory assys. In: Annual Meeting of the Environmental Mutagen Society; March 29, 1999, Washington, D.C.: and personal communication, unpublished results.
2. W, Iwi, G, Davies-Smith, A, Wesnes, K, Butler, S, Lim, E, and Varey, A. Effect of a 915-MHz simulated mobile phone signal on cognative function in man. Int. J. Radiat. Biol., April 8, 1999.
3. Hardell, L, Nasman, A, Pahlson, A, Hallquist, A and Mild, KH. Use of cellular telephones and the risk for brain tumors: a case-control study, Int. J. Oncol., 15: 113-116, 1999.

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

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

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

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

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

users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions at this time, FDA has urged the mobile phone industry to take a number of steps to assure public safety. The agency has recommended that the industry.

- support needed research into possible biological effects of RF of the type emitted by mobile phones.
- design mobile phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- cooperate in providing mobile phone users with the best possible information on what is known about possible effects of mobile phone use on human health.

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

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Commission
- Occupational Health and Safety Administration
- National Telecommunications and Information Administration

The National Institutes of Health also participates in this group.

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

If there is a risk from these products - and at this point we do not know that there is - it is probably very small. But if people are concerned about avoiding even potential risks, there are simple steps they can take to do so. For example, time is a key factor in how much exposure a person receives. Those persons who spend long periods of time on their hand-held mobile phones could consider holding lengthy conversations on conventional phones and reserving

the hand-held models for shorter conversations or for situations when other types of phones are not available.

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

- a mobile phone in which the antenna is located outside the vehicle,
- a hand-held phone with a built-in antenna connected to a different antenna mounted on the outside of the car or built into a separate package, or
- a headset with a remote antenna to a mobile phone carried at the waist.

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

For additional information, see the following web sites:

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

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

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

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

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

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