SAMSUNG

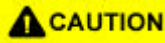# SCH-N150 Series

P O RTA B LE

C E L LULAR

T E L E P H O NE

User's Guide

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

FCC RF EXPOSURE INFORMATION

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards.

Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations.

Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

Body-worn Operation

This device was tested for typical body-worn operations with the back of the phone kept 1.8 cm. from the body. To maintain compliance with FCC RF exposure requirements, use only belt-clips, holsters or similar accessories that maintain a 1.8 cm. separation distance between the user's body and the back of the phone, including the antenna, whether extended or retracted. The use of third-party belt-clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

For more information about RF exposure, please visit the FCC website at www.fcc.gov

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Introduction To Your Samsung N150 Series Phone

Congratulations on the purchase of your Samsung N150 Series Phone. Using the latest digital technology, the Samsung N150 Series Phone operates similar to other wireless phones, while providing superior resonance and tone quality. Your Samsung N150 Tri-Mode 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 – 10 Locations
.Answer or hang up calls just by opening and closing the flip on the phone.
.User-friendly graphic display with dedicated icons for signal strength, service, roaming, messages, vibrator, and battery
.9 Monotone Ring Types, 4 Melody Tones, LED Alert, and Vibrator Alert
.Distinctive ringer types for voice, message, and alarm calls
.Distinctive ringer volumes for voice, message, and alarm calls
.Phone Book Memory – 89 Locations
.Call Logs – 10 Locations each for outgoing, incoming, and missed calls. These 30 numbers are all easy to redial.
.2-Way Short Message Services (SMS) and Voicemail notification
.Internet MiniBrowser
.Pause Dialing for tele-services
.Fast Ringer Mute during Incoming Call
.Alarm clock
.Last number redial – last 10 Numbers
.One-touch Turbo dialing –9 Locations
.Two-touch Turbo dialing – 80 Locations
.Easy muting of the microphone during conversation
.Security features including Call Restriction, Secret Number capability, and Lock mode
.Fax and Data capability
.Easy to change between English and Spanish user interface.

How To Use This Manual

This user guide explains your Samsung N150 phone operations through easy-to-follow instructions and illustrations. Check out " Getting to know your phone" on page 20 to get started understanding the functions of your phone. You' ll find much of what you need to know about using your new Samsung N150 Series 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 151. 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 N150 Series Phone, and thanks for choosing Samsung.

Table of Contents

Your consumer package

Your consumer package contains the following items:

- Samsung SCH-N150 phone with hand strap

- Samsung standard Li-ion battery

- Samsung travel adapter

- User guide

Front view of the Samsung N150

Getting to know your phone

Antenna
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 106.

C (Clear) key:
The clear key is used to erase numbers or characters have been entered incorrectly, or it can be used to return to a previous screen in the menu.
.If an incorrect number or character has been entered on the display screen, press the C key once briefly, to erase it.
.To erase all digits or characters from the display screen, press this key for one second.
.To back up one menu level, press once, briefly.
.To return to standby mode from any menu, press .

Display screen
The display has 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), are displayed according to the phone's operating mode. For further information see " Turning your phone on" on page 25.
.The lower area of the LCD displays the 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 key is utilized 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 your input.

Front flip
Closing your phone's flip ends a call except when you are sending new messages from the Mail Kit. There are several options that can be set when you open the phone's flip:
.Answer an incoming call: To set this option, and for further information
  see " Answer mode" on page 129
.Voice dial an individual: To set this option, and for further information
  see " Play/Erase" on page 119.
.Control the backlight: To set this option, and for further information see
" Backlight" on page 106.

Headset connector
This is where the optional headset is connected. The headset includes an earpiece and microphone in a convenient, lightweight unit so you can converse without using your hands.
.Before using, gentlypry open the top of the cover to expose the headset connector.

Right Navigation Key

Pressing navigation key right allows you to access certain information such as stock quotes and weather via the Internet. Browsing the web via the phone is not the same as using your computer. Site providers have selected only the critical aspects of their site to present to wireless phone users, and have removed most graphics.

Large LED indicator

Flashes to indicate an incoming call or message. When the phone is closed and the ringer is set to off, the LED indicator will notify you that there is an incoming call or message.
.Lights up when you turn on the phone.
.When connected to chargers, shows red if not fully charged, and turns green if fully charged.

Menu key

Press to enter the menu facility.

Microphone

A typical microphone used for conversation, but this microphone also accepts voice commands for voice dialing.

Receiver

Is for listening to voice conversations.

Travel adapter outlet

Located at the bottom of the phone.
.Before using, gently pry the cover from the phone to expose the travel adapter outlet.
.Plug in the travel adapter that is supplied with your phone.
.Using your thumb and first finger, gently squeeze the two buttons located on either side of the travel adapter and insert into your phone's outlet. The yellow arrow on the travel adapter should be facing upwards and pointing toward the phone.
.When you unplug the travel adapter from your phone, squeeze the same two buttons and pull gently on the charger to disconnect without causing damage to either device.

Numeric key functions

Numeric keys can be used to enter text, numbers and special characters.

Send key

This key performs several useful functions:
.Press [SEND] to answer calls.
.Dial a number and press [SEND] to connect.
.Press it twice in when in standby mode to redial the last outgoing number.

OK/ Message key

When in the menu facility, this key stores information that you have entered and acts as an " OK" button when you press it center. When in standby mode, it functions as a "Mail Kit" access key to review received messages and send messages.

Entering text, numbers, or symbols
At various times when using your phone, you will need to enter text.
For example, when storing a name in the Phone Book, entering events
in your Calendar, or creating a bookmark in the MiniBrowser.
If you want to enter text on the display screen, selecting the [MENU] key
gives you the opportunity to enter T9 Word, ABC, 123 or Symbols. To change the
Input Mode:

1. Scroll through the options presented, then press the [OK/Message] key to select.
Note: To change the input mode, press [MENU] to display options. Use the navigation key and [OK/Message]
to select your choice and begin typing normally.

2. The menu key allows you to choose from 4 options:
. **Word**: This is the predictive word entry mode, allowing quick and easy
   entry of frequently used words.
. **ABC:** This is the alpha mode. See Note below.
. **Symbol:** For numbers that have symbols associated.
. **123:** This is the number mode.

3. Entering text, numbers, or symbols:
.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 input mode again, press [MENU] to display the input options,
then [OK/Message] to change and lock in the option of choice.

Alphabetical text entry
Alphabetical text characters may be entered in the alphabetical Input Mode,
or ABC mode, by pressing the key corresponding to the letter that you want
to enter. Press the same key repeatedly to change between the characters
represented by each key. To change capitalization formats while entering text,
press the [* Shift] key to toggle between ABC, Abc, and abc modes.

Note: For example, quickly press [2 ABC] three times to display the letter
'C', and quickly press the [5 JKL] key twice to display the letter 'K'. This is
called multi-tap typing.

Number entry
123 mode enables you to enter numbers into a text message. Press
the keys corresponding to the desired digits, and manually switch back
to text entry mode of choice using [MENU].

Symbol entry
Symbol mode enables you to enter symbols into a text message. Use the
[MENU] key to display the options and press the navigation key up or down
to select the symbol option. When displayed, use the navigation key to manipulate
the symbols. When in Symbol input mode, press the key shown on the
display under the symbol that you desire to enter.
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]          - / ]
.[0 Next]          0
```

Word or T9®text entry

T9word, T9 Text Input, enables you to easily enter text.
T9 (for "text on 9 keys") requires only one key press per letter and
quickly 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 knows the most
commonly used sequence for that numeric sequence is "hello" .
If two or more words share the same numeric sequence, T9 software
provides the most commonly used word, with the ability to scroll to the
next most commonly used word by pressing the [0 Next] key.
Press the [0 Next] key repeatedly to display all of the available words that T9
knows. When the word you want 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 (Alpha) mode. Words typed in this mode are automatically added to the T9
dictionary so you can type them using the T9 English mode the next time. You
can include numbers between letters without exiting the T9 input mode by
simply pressing and holding the desired numeric key.

Getting Started

Getting service

You must contact your service provider to obtain service for your Samsung N150
phone.   It is suggested that you read this user guide to fully understand
the features 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 select
the [END] key and hold down for more than one second to turn 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 service light in the top left of the phone flashes, and an alert
sounds. The phone begins searching for a network signal. When a
signal is found, the date, time and day display, and the phone enters
standby mode. You can now send and receive calls. The standby mode
screen is shown below:

. Signal strength icon .   Y₁₁l
. Battery strength icon   ▥
. Time and date.
. Roam   ℝ
. Message   ✉

. Digital Mode   𝔻
. Vibrate   📳

Note: If the phone is out-of-service the 📵 icon displays. If this happens
you cannot place or receive calls. You can try later when service becomes
available. For further information see "The top line of the display screen" on
page 36

Answering a call

When you receive a call, the phone will ring and a phone icon is
displayed on the 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 "Number Unavailable" displays.
There are several ways to answer an incoming call (See Answer Mode on page 129?):
.Open the flip.
.Press the [SEND] key.
.Press any key.
You can also easily set your phone to automatically answer a call after 5 rings,
3 rings, or 1 ring by setting the Auto Answer feature (See page 129?). This can
be useful when driving around in a hands-free environment.

Turning your phone off

To turn your phone off, press and hold the [END] key for more than 2
seconds. Notice that when the phone is turned off, both the display
screen and backlight are off.

Note: If your phone is on and the [END] key is selected for less than one
second, the phone will not turn off. This feature stops your phone from being
turned off accidentally.

List of menu functions

This list displays the menu structure and indicates the number assigned to each option.

1.Calls

        1.Outgoing

        2.Incoming

        3.Missed

        4.Erase Logs

                1.Outgoing

                2.Incoming

                3.Missed

                4.All

        5.Air Time

                1.Last Call

                2.Home Call

                3.Rome Call

                4.Lifetime

                5.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

4.Scheduler

        1.Today

        2.View Month

        3.Jump To Date

        4.To Do List

        5.Countdown

        6.World Time

        7.Calculate

        8.Alarm Set

5.Sounds

        1.Ringer Vol

                1.Calls

                2.Messages

                3.Alarm

        2.Ringer Type

                1.Voice Calls

                2.Messages

                          1.Voice Mail

                          2.Page

                          3.Text

                          4.Browser Msg.

                3.Alarm

                4.Data/Fax In

                5.Schedule

        3.Key Beep

        4.Alerts

1.Minute Beep
                              2.Service
                              3.Connect
                              4.Disconnect
                              5.Fade
                              6.Roam
                              7.Privacy
                    5.Voice Volume
                    6.Roam Ringer
                    7.Pwr Up/Down

6.Display
                    1.Backlight
                    2.Banner
                    3.Idle Screen
                    4.My Phone #
                    5.Language
                    6.Set Time
                    7.Auto Hyphen
                    8. Version
7.Voice Dial
                    1. Record
                    2. Review
                    3. Erase All
                    4. Set Active
                    5. Language
                    6. Training
                    7. Undo Train
8.Games
                    1. 1.Flying tight
                     2.Money or die
9.Setup
                    1.Auto Retry
                    2.Auto Answer
                    3.Answer M de
                    4.Tone Length
                    5.Set NAM
                    6.Set System
                    7.Data/Fax
                    8.Set Force
                    9.Whisper Mode
0.Security
                    1.Lock Mode
                    2.Restrict
                    3.Lockcode
                    4.Emergency #
                    5.Send Pin
                    6.Clear Mem
                    7.Reset Phone
                    8.Voice Privacy
[OK/Message] Key
                    1.New Messages
                    2.Voice
                    3.Txt Inbox

4.Txt Outbox

5.Filed Msg

6.Msg Setup

 1.General

  1.Scroll Timer

  2.Msg. Reminder

 2.New Message

  1.Call Back #

  2.Save Message

  3.Entry Method

  4.Delivery Ack

  5.Canned Msg

 3.Erase

  1.Entire Inbox

  2.Entire Outbox

  3.All Messages

[In-Use Menu: During a call]

1.Mute/Quit
2.Calls
3.PhoneBook
4.Silent/Quit
5.Send Tel#
6.My Phone#
7.Version
8.Voice Privacy

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 scrolling or using shortcuts.

Accessing menus by scrolling
Menu items are numbered and can be accessed by scrolling then selecting that option. For example:
1.Press the [MENU] key in standby mode to access the menu.
2.To enter the Sounds menu, press the navigation key right until the Sounds menu animation displays.
3.Press the [OK/Message] key to select this option.
4. Again, press the navigation key right or down to scroll to Alerts.
5. Press the [OK/Message] key to enter the Alerts menu.
6. Scroll to Connect, using the same navigation key.
7. Press the [OK/Message] key to enter the Connect menu.
8. Press the navigation key up or down to select the desired setting.
9. Press the [OK/Message] key to confirm your selection.
10. Your phone saves this setting and returns to standby mode.

Returning to the previous menu
.To return to the previous menu, press the [C] key.
.Select the [C] key to exit the menu without saving the setting.

Accessing menus by using their short cut number
The menu items are numbered and can be accessed by using their shortcut numbers.
1. In standby mode, press the [MENU] key to access the menu options.
2. Key in the first digit of the required 'shortcut' number shown on the display, repeat this action for each digit displayed as menus are displayed.
For example:
Setting the Connect tone to 'on'.
1. Press the [5 JKL] key for Sounds.
2. Press the [4 GHI] key for Alerts.
3. Press the [3 DEF] key for Connect.
Note: For further details see "List of menu functions" on page 27 for the numbers assigned to each menu item.

Your phone's modes

Lock mode
When you lock your phone using the Lock mode menu option, phone use becomes restricted. You can receive messages and calls, but you cannot make an outgoing call until the phone is unlocked. To unlock the phone, press [MENU], navigation key, or [OK/Message] key and enter the lock code. The phone will return to standby mode.

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.

Standby mode

Standby is the fundamental state of your phone. The phone goes into
standby mode soon after you turn it on, or if your phone is on,
whenever you press the [END] key. When your phone is in standby
mode, you will see the power up animation (the animation displayed
when you turn on your phone), and the service provider logo, followed
by the date/day/time and the active top line icons.
While in standby mode, you can enter a phone number, press the [SEND]
key to dial it, or press the [OK/Message] key to save it in the Phone Book.
Press the [END] key at any time to return to the standby mode, but be
careful; if you are on a call when you press the [END] key, you will
return to standby mode and disconnect the call.
The menu is accessed when you are in standby mode by pressing the [MENU]
key. For further details see " List of menu functions" on page 27
for a listing of the menu items.

Send/Talk mode

You can send and answer calls only when your phone is turned on.
During a call, the phone is in conversation or talk mode. While you are
in this mode, pressing [MENU] gives you a list of options referred to as
' In-Use Options' .

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 are always displayed, but the other icons appear based your phone's operating mode.

Signal strength: This icon always appears when your phone is on, and shows your current signal strength. The more lines displayed, the better the signal strength. Four lines indicate maximum strength.

Service indicator: This icon indicates a call is in progress. If there is trouble with signal strength, this indicator will have a diagonal line through it.

No service indicator: This icon indicates your phone cannot find a signal because you are outside a service area. When displayed, you cannot send or receive calls. Wait for a better signal or move into an open area to regain service.

Note: The no service indicator always displays when you turn on your phone. When service is located, the indicator disappears.

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

. In your home service area, this indicator does not display.

. In a preferred analog or digital roaming area (where your service provider has a roaming agreement in place), this indicator is on, but not flashing.

. In an analog or digital area that is not covered by your phone's service provider, this indicator is on.

New Message: This icon appears when a new voice, text or page message, or net alert is 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 not displayed, your phone is operating in analog mode.

Vibrating mode: This icon indicates that an incoming call will make the phone vibrate rather than ring. This feature is used for situations where your normal ringer may disturb others, or for " loud" situations where a ringer cannot be heard.

Battery strength: This icon is displayed when your phone is active. It displays your battery's current charge level. The more bars, the greater the charge. When the battery becomes very low, an empty battery icon displays and the phone flashes an alert; this indicates that your phone is about to turn itself off.

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. Insert the contact end on the bottom of the battery into the slots on the
bottom of the phone.
2. Slide the battery up 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 [END] until the closing
animation sequence begins.)
2. Push the catch button up on the top of the battery on the back side of the
phone. (see illustration). The battery will easily slide out from the phone.

Charging the battery
Note: A standard battery is provided with your phone. The battery must be fully
charged before using your phone for the first time. The phone can be used
while the battery is charging.
Your phone is powered by a rechargeable Li-ion battery. Only use
Samsung approved chargers and batteries. These chargers are
designed to maximize battery life. Using other chargers voids your
warranty and may cause damage.
When the phone has finished charging it can be disconnected from the charger.

Low battery indicator
You can tell whether or not your battery needs to be recharged by
checking the ▨ indicator (it's located in the upper-right corner of
the display). The presence of all three bars indicates a full charge, two
bars indicates a medium charge, and one bar indicates a minimum
charge. No bars (the battery icon is empty) indicates the battery no
longer has any charge and must be recharged.

The empty battery icon
Two to three 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 turn off
automatically. If this happens, your wireless call will be ended. But if
you plug into a charging device, you can continue your call. Be sure to
monitor the battery strength icon and make sure your battery is
sufficiently charged.

Charging with the travel adapter
The travel adapter allows you to charge your phone's battery from any
standard 110 V AC wall outlet. Also, using the travel adapter allows you to
make a phone call while the battery is charging. The travel adapter will
fully charge an " empty" standard battery in about three hours, and an
" empty" extended battery in about four hours.
Follow these steps:
1. With the battery connected to the phone, connect the travel adapter to
the accessory connector on the bottom of the phone.
2. Connect the charger to a standard 110 V AC wall outlet. The battery begins charging.
3. The LED on the travel adapter indicates the status of the battery charge.
. Red indicates that the battery is charging.
. Green indicates that the battery is fully charged.
. Flashing Red indicates that the battery is operating at a temperature that is
   too high or too low, or that the charger is not plugged in correctly.

Please check the adapter and battery.
4. The travel adapter continues charging the battery even when you are
   making outgoing calls.
5. For the fastest charging time, turn the phone off while the battery is charging.
Note: The battery charges faster when the phone is off.

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 chargers. Samsung chargers
  are designed to maximize battery life. Using other manufacturers
  batteries or chargers voids your warranty and may cause damage.
- In order to avoid damage, charge the battery only in temperatures that
  range from 32° F to 113° F (0° C to 45°C).
- Don't use the battery charger in direct sunlight or in high humidity areas,
  such as a 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.
- Replace the battery when it no longer holds an acceptable charge.
- 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:
     4° F to 140° F (-20° C to 60° C).
 * More than one month:
     4° F to 113° F (-20° C to 45° C).

Disposal of Lithium Ion (Li-ion) batteries
For safe disposal options of your Li-ion batteries, contact your nearest
Samsung Authorized Service Center.

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

Calls

Outgoing

To place a call:

1. Press [END] to power on your phone. The phone first shows an animated sequence and the icons discussed earlier will display This indicates your phone is turned on. (Note that you will not hear a dial tone).

2. Enter the phone number you wish to call (up to 32 digits) by pressing the digit keys. The phone number is displayed from left to right.

3. Press the [SEND] key. The phone calls the number entered.

Incoming

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

.The backlight illuminates.

.The red LED on the top of the handset 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.

.Eight ring volume settings and Vibrate or Off.

.Nine unique monotone ring types and four melody tones
 (see " Ringer type" on page 96).

.Name display with Caller ID, if available.

.Automatic storage of an incoming call's information in the Call logs (the last 10 calls you answered are stored in the Incoming call log and the last 10 calls you missed are stored in the Missed call log).

Missed

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

Your phone gives you two very convenient options when you have missed a call:

.Press [SEND] to call the displayed number.

.Pressing [OK/Message] saves the number in the Phone Book.

To view a list of your missed calls, see "Reviewing outgoing, incoming or missed calls" on page ?.

.Press [C] to clear the " Missed Call" message from the display.

Erase Logs

You can erase any of the three lists (Outgoing, Incoming or Missed calls) or you can easily erase all three lists at once. Here is an example:

1. Press [MENU] to display the menu.

2. Press [1 .-'] for the Call menu.

3. Press [4 GHI] for Erase Logs.

4. Press [4 GHI] for All.

5. Pressing [OK/Message] erases all your logs.

6. Pressing [C] cancels the action if you do not wish to erase all your logs:

Keeping track of call logs

Your phone saves a log of call activity and permits you to easily return calls.

Your phone retains the following call logs in memory:
.Outgoing - the last 10 calls dialed.
.Incoming - the last 10 incoming calls.
.Missed - the last 10 calls missed.
Each Call Log contains the name and phone number (if available).
In addition to the Incoming, Outgoing, and Missed calls lists, your
phone maintains an air time log. For further information see " Air
Time" on page 47.
You can quickly access your last ten incoming, outgoing, and missed
calls from standby mode by pressing [MENU] [1 .-']. Then just
using the navigation key and [OK/Message] to review your calls.

Reviewing outgoing, incoming, or missed calls
When a call log is displayed, press the appropriate number to be
automatically connected.
1. Press [MENU] to display the menu.
2. Press [1 .-'] for Calls.
. Press the associated digit key to select an option:
. Press [1 .-'] for Outgoing calls.
. Press [2 ABC] for Incoming calls.
. Press [3 DEF] for Missed calls.
3. When the list of calls displays, press thenavigation key to scan the logs. If
there is a Phone Book match, the name displays. If there is no Phone
Book match, only the phone number displays.
4. When a log is highlighted you can press:
. [SEND] to be connected to that party.
. [OK/Message] to review information available on that call (name and phone number
 (if available) and time/date stamp).
. When you are viewing this information you can press [OK/Message] for more
  options (Talk, Store , and Prepend the number).
5. Press [C] to exit the Call Logs list and return to the previous screen.

To view Call Logs during a conversation:
1. Press [MENU] to display the In-Use Menu.
2. Press [2 ABC] for Calls.
3. You can select Outgoing, Incoming, Missed call logs to review.
4. Press [C] to exit the Call Logs list and return to the previous screen.

Air Time
Your phone logs the amount of air time or talk time used for all calls.
You can view the last five incoming, outgoing, and missed calls logs
from standby mode:
To view the call logs:
1. Press [MENU].
2. Press [1 .-'] for Calls.
3. Select [5 JKL] for Air Time.
4. Then use the scroll key to review your options.
5. Press the desired key to be automatically connected to the option of choice.

Last call
Last Call allows you to view the amount of time spent on the last call made:
1. Press [MENU] to display the menu.
2. Press [1 .-'] for Calls.
3. Press [5 JKL] 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, or press [OK/Message] to quit.

Home Call

Home Call air time is the amount of time the phone has been used in your home service areas since it was last erased. Air times for all incoming and outgoing calls are saved here.
This feature is not intended for billing purposes.
To view or erase total air time:
1. Press [MENU] to display the menu.
2. Press [1 .-'] for Calls.
3. Press [5 JKL] for Air Time.
4. Press [2 ABC] for Home Call. The screen displays the total number of calls
and the total air time for calls made from your Home service areas since you set this total to zero (by using the " Erase Total" option).
5. Press [C] to return to the previous display screen, or press [OK/Message] to quit.

Roam Call

Roam Call air time is the amount of time the phone has been used in your roaming service areas since it was last erased. Air times for all incoming and outgoing calls are saved here.
This feature is not intended for billing purposes.
To view or erase total air time:
1. Press [MENU] to display the menu.
2. Press [1 .-'] for Calls.
3. Press [5 JKL] for Air Time.
4. Press [3 DEF] for Roam Call. The screen displays the total number of calls
and the total air time for calls made from your Roaming service areas since you set this total to zero (by using the " Erase Total" option).
5. Press [C] to return to the previous display screen, or press [OK/Message] to quit.

Lifetime

Lifetime air time is the amount of time the phone has been used since it
was first activated. Air times for all incoming and outgoing calls are saved here.
To view your total lifetime air time:
1. Press [MENU] to display the menu.
2. Press [1 .-'] for Calls .
3. Press [5 JKL] for Air Time.
4. Press [4 GHI] for Lifetime.
5. Press [OK/Message] to quit or [C] to return to the previous menu.
Note: You cannot erase any information created by this option.

Erase All

To erase your total air time:
1. Press [MENU] to display the menu.
2. Press [1 .-'] for Calls.
3. Press [5 JKL] for Air Time.
4. Press [5 JKL] to Erase Total. Press [OK/Message] to erase the "Last Call",
 " Home Call ", and " Roam Call " airtime measurement, or press [C] to cancel the operation
 and return to the previous display screen.
Note: If you choose the Erase All option, the counters for all air times except Lifetime is reset to " zero" and begins counting the next time you make or receive a call.

Phone Book

Your phone allows you store up to 90 numbers and names in the
Phone Book. Each entry can have up to 8 associated phone numbers.
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 categorized as one of eight categories -
Speed Dial, Home, Office, Mobile, Pager, Fax, No Label, and Voice Dial.
The memory location can be specified for each entry. You can also store
an e-mail address associated to each entry. Memory locations can be
marked "Secret", preventing any unauthorized viewing the telephone number.
One-Touch and Two-Touch dialing makes it easy to call a phone
number stored in your Phone Book. See " Shortcuts to memory dialing" on page 70.

Find Name

This option allows you to find an entry by location name :
1. Press [MENU] to display the menu.
2. Press [2 ABC] for the Phone Book.
3. Pressing [1 .-'] displays the Find Name option.
4. Use the navigation key up or down to scroll the entry names or numbers.
5. Pressing [OK/Message] selects the number.
6. The phone display screen shows the details.
7. Press [SEND] to place the call, or enter the first few numbers of the
phone number to display the speed dial number. For further information
see " Setting speed dial" on page 68.
8. With a selected entry, pressing [MENU] allows you to access the following options:

.**Talk:** Pressing Talk dials the number
.**Add #:** Allows you to add a new phone number to the existing entry .
.**Edit:** Edits the phone number, name, entry , secret setting, category, relation, or ring type.
.**Prepend:** Allows you to prepend extra digits to either a feature code or a phone number before dialing.
.**Erase:** Erases the number.
.**Name Ring:** Allows you to select a unique tone to identify an incoming call by the ringer type.
.**E-mail adrs :** Allows you to add an e-mail address.
Note: Stored names display alphabetically.

Add Entry

This option allows you to store a new phone number along with a name, location number,
category, relation, and ringer type in your Phone Book.
To add a new entry:
1. Press [MENU] to display the menu.
2. Press [2 ABC] for Phone Book.
3. Press [2 ABC] for Add Entry.
4. The display screen prompts 'Add Entry'.
5. Enter the phone number. (Up to 32 digits can be entered.) Press the digit
   keys to enter the phone number.
6. Press [OK/Message] to save the entry, or press [MENU] for the following options:
   For further information see "Pause dialing" on page 65.
   • **P pause:** Adds a hard pause. Pauses can be very useful when dialing automated service
               numbers that require key tone entry such as for a calling card or credit card number.
   • **T pause:** Adds an automatic two second pause.
   • **Hyphen:** Hyphen allows you to add a hyphen between numbers.
7. Press the navigation key up or down to scroll through the options.
8. Press [OK/Message] to select the option.   The option menu closes, and selected
    pause (P or T) or hyphen (-) displays.

9. Press [OK/Message] to save the entry and option.

10. Press [OK/Message] again to select '000:New Entry?'.

11. Your phone book options screen display. Scroll through the following options, pressing the navigation key up or down. The phone allows you to overwrite any existing information, or if nothing is displayed, you can enter information or select from options.

- **Number:** Telephone number
- **Name:** Associated Name.
- **Entry :** The memory location number allocated to the name in the list of names and numbers you created.
- **Secret:** This field allows you to set the added entry "secret" to prevent other users from viewing.
- **Category:** This is the category label associated with each phone number entry. For example; Speed Dial, Home, Office, Mobile, Pager, Fax, No Label, or Voice Dial.
- **Relation :** This is the relation group associated with each phone number entry. For example; No Group, Friend, Family, Colleague, or VIP.
- **Ring Type:** This field allows you to set a distinctive Ring Type for the entry.

11. Press [MENU] and edit the information, then press [OK/Message] to save the edited information.

12. For example, to label a name to the entry, scroll to the Name display, press [MENU] to enter the name at the screen prompt, and press [OK/Message] to save. (The text entry mode default is ABC).

13. As another example, to change the displayed category label, scroll to the Category display and press [MENU] to select from Speed Dial, Home, Office, Mobile, Pager, Fax, No Label, or Voice Dial. Then, press [OK/Message] to save setting.

14. When editing options is complete, from the information display screen, press [OK/Message] to store entry information to the phone book.

Find Entry

This option allows you to find an entry by location number:

1. Press [MENU] to display the menu.
2. Press [2 ABC] for the Phone Book.
3. Press [3 DEF] for Find Entry. The Phone Book 'Look Up' screen displays.
4. Press the navigation key to scroll through the entries or enter the memory location number for the entry.
5. Press [OK/Message] to select the entry. The information for the entry displays.
6. Scroll to the number that you wish to dial, then press [SEND] to place a call, or press [OK/Message] to display the entry name, phone number, and the category label associated with the entry.

  Note: If no name is associated with the number, the name label displays "No Name".

7. Pressing [MENU] permits access to the entry options. For further information on these options, see " Find name" on page 53.

Relation Search

This option allows you to find an entry by relation group:

1. Press [MENU] to display the menu.
2. Press [2 ABC] for the Phone Book.
3. Press [4 GHI] for Relation Search. Press the navigation key left or right to scroll through the relation groups displayed at the bottom of the screen.
4. When you have reached a desired relations group, press the navigation key down to find the desired entry within this group, then press [OK/Message] to select the entry.
5. Press the navigation up or down to scroll through numbers under different category labels.
6. Press [OK/Message] to select the desired number under a category label.
7. Pressing [MENU] permits access to the entry options. For further information on these options, see "Find name" on page 53.

Add e-mail

To add an e-mail address to a new phone book entry:

1. Press [MENU] to display the menu.

2. Press [2 ABC] for Phone Book.

3. Press [5 JKL] for E-mail address.

4. Enter the e -mail address using the alphanumeric keys. You can enter only up to
   48 characters in length for an e-mail address.

5. Press [MENU] to select from entry modes Word, ABC, Symbols, or 123.
   In ABC mode, you can press [* Shift] to toggle between lower case and upper case letters, and
   enter '@' or '.' by pressing [1 .-'] repeatedly.   To enter '@' or '.' in Symbols mode, by
   enter the number associated with each symbol.

6. Press [OK/Message] to save the entry . The "000: New Entry?" prompt displays.

7. Press [OK/Message] again to display the phone book information screen.

9. Scroll to the desired edit item, then p ress [MENU] to edit the information,
   or press [OK/Message] to save the information as it is.
   *NOTE: The Category label cannot be edited and only displays as "E-mail".

10.   For example, to add a name to the entry, scroll to the Name display, press [MENU] to
    enter the name at the screen prompt , and press [OK/Message] to save setting.
    (The text entry mode default is ABC).

10. As another example, to edit the displayed Entry Location number, scroll to
    the Entry, press [MENU] to change to the desired entry location number,
    then press [OK/Message] to save setting.

11. When editing options is completed, from the information display screen, press [OK/Message]
    to store the e-mail address and information to the phone book.

Adding a new phone number to an existing entry

To store a new phone number to an existing entry:

1. Press [MENU] to display the menu.

2. Press [2 ABC] for Phone Book.

3. Press [2 ABC] for Add Entry. Enter the phone number using the keypad and
   press [OK/Message]. (You can enter up to 32 digits) Press the entry location
   number or scroll down to the entry you wish to add this phone number and
   press [OK/Message].

4. Or, press [1 .-'] or [3 DEF] to find the name or the entry you wish to
   add a new phone number. Press the entry name or location, or scroll down to
   the entry you wish to add this phone number and press [OK/Message].
   Press [MENU] for options. Scroll down to "Add #" and press [OK/Message].
   Enter the phone number using the keypad and press [OK/Message]. (You can enter up to 32 digits)

5. Edit the options from the information screen as necessary. (See page ?? under Add Entry)

6. When editing is complete, press [OK/Message] to store the new number added.
   If you access this existing entry later, you can view this newly added phone number
   under the new category label or relation group saved.

Editing the phone book entry

A stored entry in the Phone Book can be easily changed.

To change a Phone Book entry:

1. From standby mode, press the navigation key left and search for the Phone Book entry that
   you want to change using one of the search methods described under "Find Name " or
   "Find Entry" on page 52.

2. Highlight the entry and press [OK/Message].

3. Press [MENU] for Options.

4. Press the navigation key down and select 'Edit' by pressing [OK/Message]. The Phone Book
   information screen will display.

5. Press the navigation key to scroll through the available choices. You can edit the phone number, the entry name, the entry location, and turn secret on or off, edit the entry category or relation, or change ring type. (See page ?? under Add Entry)
6. Press [MENU] for options when the desired information is highlighted.
7. Edit the information and p ress [OK/Message] to accept or [C] to return to the previous menu.
8. Press [OK/Message] to save all the edits and exit.

Prepending a phone number
The Prepend option lets you add digits such as area codes and network feature activation codes in front of a phone number that is stored in your Phone Book or Call Logs.
Note: You can only enter up to 10 digits for prepending numbers to any phone number.
To Prepend a stored phone number:
1. Press [MENU] to display the menu.
2. Press [1 .-'] for Calls or [2 ABC] for Phone Book.
3. Find the number you want to Prepend using one of the search methods described under "Answering a call" on page 52, and then press [OK/Message].
4. Press [MENU] to display options. Scroll down to "Prepend".
5. Press [OK/Message] to Prepend the number.
6. The screen displays " Prepending" . Use the keypad to enter the calling prefix digits and then press [SEND] to place the call.

Erasing a phone book entry
To erase an entry in the Phone Book:
1. From standby mode, press the navigation key left and search for the Phone Book entry that you want to erase using one of the search methods described under "Find Name" or "Find Entry" on page 52.
2. Highlight the entry and p ress [OK/Message] to display the entry to erase.
3. Press [MENU] for options.
4. Scroll down to the ' Erase' option.
5. Press [OK/Message] for Erase. Your phone will prompt for confirmation. Toggle between ' Yes' or 'No', then p ress [OK/Message] to confirm and erase the entry, or press [C] to cancel and return to the Phone Book information screen. The "Erased" notification displays.

Erasing all entries in the phone book
See "Clear MEM" on page 149.

Adding a name ringer
You can associate nine tones or four melodies to the 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 was unavailable for an incoming call, then the Name Ringer option will also be unavailable.

To add a Name Ringer to a Phone Book entry:
1. From standby mode, press the navigation key left and search for the Phone Book entry that you want to add a name ringer using one of the search methods described under "Find Name" or "Find Entry" on page 52.
2. Highlight the entry and press [OK/Message].
3. Press [MENU] for Options.
4. Press the navigation key to scroll down to 'Name Ring' and press [OK/Message].

5. Your phone displays the current ringer setting. Use the scroll key to listen
   to available ringers and melodies.
6. Press [OK/Message] to save the selected ringer.

Adding an E-mail address

To add an e-mail address to an existing entry:
1. From standby mode, press the navigation key left and search for the Phone Book entry that
   you want to change using one of the search methods described under "Find Name" or
   "Find Entry" on page 52.
2. Highlight the entry and press [OK/Message].
3. Press [MENU] for Options.
4. Press the navigation key to scroll down to 'E-mail adrs' and press [OK/Message].
5. Enter the e -mail address using the alphanumeric keys. You can enter only up to
   48 characters in length for an e-mail address.
6. Press [MENU] to select from entry modes Word, ABC, Symbols, or 123.
   In ABC mode, you can press [* Shift] to toggle between lower case and upper case letters, and
   enter '@' or '.' by pressing [1 .-'] repeatedly. To enter '@' or '.' in Symbols mode, by
   enter the number associated with each symbol.
7. Press [OK/Message] to save the e-mail address to the entry.

Setting phone book numbers to Secret
Your phone allows you to hide a confidential number so that only a person
with your phone's Lock Code can view the name and number.
To make an existing entry "Secret", see editing the phone book entry on page 59.
When you have made the number "Secret", the phone does not permit
anyone to view information on that particular entry unless the four digit
Lock code is entered.

Setting Speed Dial
For each name entered in the Phone Book, the option of designating a
Speed Dial number is available.
2. 1 From standby mode, press the navigation key left and search for the Phone Book entry that
   you want to change using one of the search methods described under "Find Name" or
   "Find Entry" on page 52.
2. Highlight the entry and press [OK/Message].
3. Press [MENU] for Options.
4. Press the navigation key down and select 'Edit' by pressing [OK/Message]. The Phone Book
   information screen will display.
5. Use the navigation key to scroll to the Category option. Press [MENU].
6. Scroll to the 'Speed Dial' label is displayed. To cancel, press [C] to return to the previous menu.
7. Press [OK/Message] to select 'Speed Dial'.
8. You will be prompted with "Overwrite?" message. Select 'Yes' to confirm, or 'No' to cancel.

Storing phone numbers at the end of a call
To store a phone number after ending an incoming call:
1. Once you have pressed [END] to end your call, the screen displays the
   call time (length of call), phone number of the party (if available), and
   the " OK: Save" option.
2. To store the phone number, press [OK/Message]. The procedure from this point
   is the same as "Add Entry" on page ??.
Note: If the Caller ID information was unavailable, then the store option will be unavailable.

To store a phone number from the Call Logs:

1. Press [MENU] to display the menu.
2. Press [1 .-'] for Calls.
3. Press [1. –'] for Outgoing call logs or [2 ABC] for Incoming call logs.
4. Scroll to the number in the logs to store to the phone book and press [OK/Message].
5. Press [MENU] for options. Scroll down to 'Store' and press [OK/Message].
6. Store the number to the phone book as a new entry or to update the existing entry.
   (See page ?? under Add Entry or page ?? under 'Adding a new phone number under an existing entry')

Shortcuts to storing phone numbers
In standby mode, you can store a phone number quickly by entering the number, and
then pressing [OK/Message]. Then follow the prompts to designate the label,
name and entry.

Pause dialing
When you call automated systems, you are some times required to
enter a password or account number. Instead of manually entering the
numbers each time, the numbers can be stored in your Phone Book
separated by special characters called pauses.
There are two kinds of pauses that can be entered on your phone:
• Hard pause (P pause) - A hard pause stops the dialing sequence until [SEND] is pressed.
• Two second pause (T pause) - A two second pause stops the dialing sequence for
   two seconds and then automatically sends the remaining digits.
Your phone has two pause dialing methods: pause dialing from the
Phone Book (see "Pause dialing from a stored phone book entry" on
page 57), and manual pause dialing (see " Manual pause dialing" on page 58).

Note: Multiple two second pauses can be entered to extend the length of a
pause. For example, two consecutive two second pauses cause a total pause
time of four seconds. However, keep in mind that pauses count as digits
towards the 32 digit dialing 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.
2. Press [MENU] to display options. Press the navigation key to scroll and press
   [OK/Message] to enter the desired pause.
• Select 'P pause' to insert a Hard Pause. The letter "P" displays within the
   number, meaning that a hard pause will occur at that point in the dialing sequence.
   Enter the digits that need to follow the pause (such as your account number).
• Select 'T pause' to insert a two second pause. The letter "T" displays within the
   number, meaning that a " Timed" pause will occur at that point in the
   dialing sequence. Enter the digits that need to follow the pause (such as your account number).
3. Store the number in your Phone Book as you normally would by pressing
   [OK/Message] and following the display prompts.

Pause dialing from a stored phone book entry
Pause dialing from the Phone Book:
1. If you stored the number using a two second pause(s), simply dial the
   number from the Phone Book.
2. If you stored the number using a hard pause(s), simply dial 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 [SEND] to send the number that

follows your hard pause. "SENDING DTMF" flashes on the screen (the transmitted tones are audible).

Manual pause dialing
To perform manual pause dialing without first storing the number in the Phone Book, enter pauses manually using the Digit Entry menu during the dialing process.
To manually dial a number using a pause(s):
1. Enter the phone number of the service you want to call. For example, your bank's automated phone number might be an 800 number.
2. Press [MENU] to display digit dialing options.

− Scroll and press [OK/Message] for a Hard Pause (P pause). The screen displays a " P" indicating a hard pause. Enter the number to be sent after the pause by pressing the digit keys, and then press [SEND]. After connecting, press [SEND] again to transmit the additional number following the Hard Pause "P".
− Scroll and press [OK/Message] for a 2 second Pause (T pause). The screen displays a " T" indicating a timed pause. The screen prompts for the number to be sent after the pause. Enter the number to be sent after the pause by pressing the digit keys, and then press [SEND]. The phone transmits the number that follows the pause 2 seconds after connection.

Note: Storing numbers with pauses is convenient if you plan to dial the number often.

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. Follow the procedures for "Find Name " or "Find Entry" on page ??.

Dialing numbers from the phone book

Dialing numbers from your Phone Book is quick and easy. Different methods are explained below:

Shortcuts to memory dialing

Speed Dialing: From standby mode, enter the number of the memory location, and press [SEND].

Scrolling to the number: From standby mode, press the navigation key left to access the Phone Book and select [1 .-'] or [3 DEF]. Scroll until the desired number is reached, then press [SEND] to dial.

Note: For the One-Touch & Two Touch dialing to work as described below, the category setting in the phone book must be set to Speed Dial for the entry.

One-Touch Dialing: Memory locations 1 through 9 are special One-Touch locations. You can dial the phone numbers stored in the Phone Book memory from 1 through 9 simply by pressing one key. For example, for location number 001. Press and hold [1 .-']. The name and number is displayed and dialed.

Two-Touch Dialing: Memory locations 10 through 89 are special Two-Touch locations. For example, for location number 013, press [1 .-'] and then hold down [3 DEF]. The name and number are displayed and dialed.

Web/MiniBrowser

Your phone comes equipped with wireless Internet access by using the MiniBrowser. The MiniBrowser allows you to access up-to-the-minute information through your phone. View specially designed versions of popular Internet sites which may include news, sports, weather, stock quotes, etc. Browsing the web through your phone is unlike using your personal computer since site providers have selected only the critical aspects of the site to present to wireless phone users and have removed most graphics. Each time you launch the MiniBrowser, the phone connects to the Internet and the service indicator icon (   ) displays. Any time the service indicator icon is visible on the display, you are connected to the Internet and are invoiced accordingly. Rates and pricing vary according to your service option.

The MiniBrowser disconnects 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 be automatically 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   icon is displayed.

Launching the MiniBrowser
Note: The first time you use the MiniBrowser, you will be required to go through a security setup process that takes approximately three to five minutes. Please follow the on-screen prompts to complete the security setup process. This initial setup process occurs only the first time you access the service.

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

To launch the MiniBrowser:
1. From the standby mode, press the navigation key right, or press [MENU] [3 DEF].
2. Press [1 .-'] to launch the MiniBrowser.

Note: A reminder of the charge may appear (depending on your prompt setting - see " The MiniBrowser start and end prompts" on page 73). 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 menu page from any other menu in the MiniBrowser, press and hold [MENU].
An example of a Home Page is shown below:
1. Financial
2. Traffic
3. Travel
4. Weather
5. Sports
6. Entertainment

7. Games

8. Shopping

9. Portals

Note: What displays when accessing the MiniBrowser is dependent on the
service provider content. To view additional text, use the scroll keys.

Exiting the Web/MiniBrowser

1. Press [END] or close the flip to exit the Web/MiniBrowser.

3. If the 'Prompt to end' or 'Prompt both' option is selected in the MiniBrowser setup
 ([MENU] [3 EDF] [2 ABC]), you will be prompted whether you want to end the MiniBrowser call.

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 when the start
prompt is displayed.   To
change the settings:

1. Press to [MENU] display the menu.

2. Press [3 DEF] for Web.

3. Press [2 ABC] for Prompt.

4. Use the navigation key to select one of the four options:

 – **To Start:** You will see the prompt when you
    enter the browser, but not when you exit it.)

 – **To End:** You will see the prompt only when you exit the browser.

 – **Both:** You will be prompted when you enter or exit the browser.

 – **None:** You will never see this prompt.

5. Press [OK/Message] to save your setting or [C] to cancel.

The MiniBrowser soft keys

At the bottom of the MiniBrowser display is a solid bar which contains
browser commands. The left and right navigation keys as "Soft" keys (**OK   HOME**)
below the solid bar 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 keys on your phone operate differently
than during a normal phone call. These keys are explained below. The
MiniBrowser presents on-screen items in one of the following ways:

 – Text or numeric input

 – Links (embedded in content)

 – Numbered options (some options may not be numbered)

 – Simple text

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

How the keys work in the MiniBrowser

Up/down navigation keys: Use the navigation keys to scroll to and select from
MiniBrowser options. The currently selected option is indicated by an arrow.
You can also use the navigation keys to scroll up or down a line at a time
when editing text.

Right/left navigation keys: These are the 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", "Done", etc.

[OK/Message] key: This key is used for selecting the highlighted item by pressing down the button..

[C] key: This key performs two functions:
− Backs you up in the browser. Pressing it once backs you up one page. Pressing and holding it down backs you up to the Home page.
− Clears out entered text or numbers. When entering numbers or text, press [C] to clear the last number, letter, or symbol. Press and hold [C] to completely clear the input field.

[* Shift] key: This is the shift key. Press before entering text to create upper case letters. This key is also used to move back one space on the display.

[0 Next] key: Enters a 0. Moves to the next word in T9 mode.

[# S pace] key: This is the space key. Press to insert a space when entering text.

Numbered keys 0 - 9: If items on a menu are numbered, these keys can be used to select them.

[END] key: Exits the MiniBrowser and returns the phone to standby mode.

[MENU] key: Enters MiniBrowser menu at any time.

Entering text, numbers, or symbols
If you want to enter text on the display screen, pressing the right navigation key as "Soft" key for Input Mode change gives you the opportunity to enter alpha, word, Symbols, or 123.

1. Entering text, numbers, or symbols:
  - 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 input mode again, press the right navigation key to select the input option.

2. The menu key allows you to choose from 4 options:
 − **alpha:** This is the text entry mode (same as ABC mode). See Note below.
 − **word**: This is the predictive word entry mode. You can quickly and easily enter frequently used words.
 − **SYM1 ~ SYM4:** This is the Symbol entry mode using numeric keys with associated symbols .
 − **NUM:** This is the number entry mode.

Note: For example, quickly press [2 ABC] three times to display the letter 'C', and quickly press the [5 JKL] key twice to display the letter 'K'. This is called multi-tap typing.

Alphabetical text entry
See "Alphabetical text entry" on page 8? for description. Press the right navigation soft key to toggle between entry modes.

Number entry
See "Number entry" on page 8? for description. Press the right navigation soft key to toggle between entry modes.

Symbol entry
See "Symbol entry" on page 8? for description. Press the right navigation soft key to toggle between entry modes. Once you reach SYM1 (Symbol set-1), you can press up or down navigation key to toggle between SYM1, SYM2, SYM3, and SYM4.
Here are the list of available symbol characters:

```
.[1 .–' ]               . @ ; S
.[2 ABC]                ! # < T
.[3 DEF]                ? : > S
.[4 GHI]                , / = r
.[5 JKL]                - $ R R
.[6 MNO]                ' & S
.[7 PQRS]               " % _
.[8 TUV]                ( + r
.[9 WXYZ]               ) *
```

Word or T9®text entry
See "Word or T9®text entry" on page 8? for description.

Using links
Links have several purposes, including jumping to a different page, jumping to a different site or even initiating a phone call. 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 a 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 dial the number. In most cases you can also use [SEND] to dial the number. The Internet connection is terminated when you initiate the call. After you end the call, your phone returns to standby mode.

Scheduler

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 the Calendar function before an event is commenced. Events that are scheduled for future dates automatically display on your Today events schedule for that particular day.

How to schedule an event:
1. Press [MENU] to display the menu.
2. Press [4 GHI] for Scheduler.
3. Press [1 .-'] for Today the New Event screen displays.
4. Pressing [MENU] will offer further options. For example:
 – Word
 – ABC
 – Symbol
 – 123

5. Choose your option by pressing [OK/Message] and enter
   your event information. For more
   information on Text and Symbol Entry see "Entering text, numbers, or
   symbols" on page 76
6. Press [OK/Message] to continue. The start time and date screen displays.
7. Add the start time and date using the numeric keys, then press [OK/Message]
   to display the next screen.
8. Add the end time and date. Press [OK/Message] to save the information.
9. If an error is made, or duplicate information is already saved, pressing
   [MENU] offers the following options:
 – **Add New:** Allows you to add an event
 – **Edit:** Allows you to edit the event
 – **Erase:** Allows you to delete the event.
10. Using the navigation key, scroll through the options and press [OK/Message] to select.
11. After the correct information has been entered, an alarm screen is
    displayed. Select an alarm to notify you of your event. Your Alarm options
    are: No Alarm, On Time, 10 minutes Before, 30 minutes Before, and 1 hour Before.

12. Make your choice and press [OK/Message] to save setting.
    Then, your phone will return to standby mode.

View Month

View month permits you to view, in calendar format, the current month, a past month, or future month. In view month, the current date is highlighted on the calendar. Days with scheduled events are underlined.
1. Press [MENU] to display the menu.
2. Press [4 GHI] for Scheduler.
3. Press [2 ABC] for View Month. The Calendar displays.
 – Remember, the current date is highlighted.
 – Use the navigation keys to select the month and day.
4. Pressing [MENU] displays two options through the pop-up
   display screen, they are:
 – View (Permits you to view previous entries).
 – Add New (Permits you to add a new entry).

5. Enter your event information. Up to 32 characters can be entered. For
   more information on Text and Symbol entry methods, see "Entering text, numbers,
   or symbols" on page 76.
6. Press [OK/Message] to accept your entry.
7. Enter the start time and date, and press [OK/Message] to save the information.
   The end time and date form will be displayed.
8. Enter the end time and date, and press [OK/Message] to save the information.
9. The alarm screen displays. Scroll to select an alarm to notify you of your event.
   Your Alarm options are: No Alarm, On Time, 10 minutes Before, 30 minutes Before,
   and 1 hour Before.
10. Press [OK/Message] to save your selection.

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How to view an event:
1. Press [MENU] to display the menu.
2. Press [4 GHI] for Scheduler.
3. Press [2 ABC] for View Month and the Calendar displays.
4. Use the navigation key to display all of an event's information. If more
   than one event is scheduled, use the navigation key to display them.
5. Press [MENU] to display the options and select 'View'. The events scheduled displays in order.
6. Press [C] for Exit. This returns the screen to the Scheduler menu.

Jump to Date
Jump To Date allows you to specify the calendar date you wish to 'jump' to
for viewing and adding events scheduled on that date.
Once the date is entered, you can add, edit and erase events in your
calendar.

Using Jump to Date
1. Press [MENU] to display the menu.
2. Press [4 GHI] for Scheduler.
3. Press [3 DEF] for Jump To Date.
4. Enter the date of the event and press [OK/Message] to continue.
5. The Calendar screen displays the newly entered highlighted date.
6. Pressing [MENU] displays the options View and Add new.
7. Press [OK/Message] to select View.
8. Pressing [MENU] opens the Add new, Edit, Erase options.
9. You can either schedule a new event, or edit or erase an old one. Press
   [OK/Message] to select the option.

To Do List
The To Do List can help you keep track of, and prioritize the things you
need to do. You can enter and prioritize up to 20 items.

How to create a to do list
1. Press [MENU] to display the menu.
2. Press [4 GHI] for Scheduler.
3. Press [4 GHI] for To Do List.
4. Select [MENU] for options. Select from Word, ABC, Symbol, or 123 for entry method.
5. Enter the new list to do through the alphanumeric keys.
6. Press [OK/Message] to lock in your choice. This action opens the Time/Date screen.
7. Enter the time and date and press [OK/Message] to continue. The To Do List opens.

8. Using the navigation keys, set the priority for a To Do List item. Your choices are High and Low.
9. Press [OK/Message] to save your prioritized To Do List item.

To view, edit, add, or erase to do list items
1. Press [MENU] to display the menu.
2. Press [4 GHI] for Scheduler.
3. Press [4 GHI] for To Do List.
4. Press [MENU] and using the navigation keys find the To Do List item you want to change.
5. Press [OK/Message] to select the correct option. Your choices are 'Add new', 'Edit', and 'Erase'.
6. Continue to add a new item, edit, or erase an existing item by following the prompts.

Countdown
Have you ever wanted to know how much time it takes you to do something, or how many minutes, hours, days and months until a special event? The Countdown option can help you answer these questions. You can create up to 5 countdown timers using this feature.

Creating a Countdown item
Use this procedure the first time you program a countdown timer or if you've erased them all.
1. Press [MENU] to display the menu.
2. Press [4 GHI] for Scheduler.
3. Press [5 JKL] for Countdown.
4. The screen prompts for new countdown. Enter a name for your new countdown timer.
5. Press [OK/Message] when complete.
6. Enter the date and time that you want to "Countdown" to. For example, if today's date is November 10, 2000 and you wish to know how many months, days, and hours are left before 7:00 PM February 14, 2001 enter the time 07:00 PM and the date 02/14/2001.
 − You can press the digital keys [2 ABC] or [7 PQRS] for AM or PM.
 − Countdown timers can be entered for dates up to year 2099.
7. Press [OK/Message] to store the countdown timer.

Viewing, Adding, editing, and erasing a countdown item
Use this procedure if you have a countdown timer(s) already programmed.
1. Press [MENU] to display the menu.
2. Press [4 GHI] for Scheduler.
3. Press [5 JKL] for Countdown.
 − 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.
4. Press [MENU] to display options. Select one of the following:
 − **Add New:** Allows you to add an event
 − **Edit:** Allows you to edit the event
 − **Erase:** Allows you to delete the event.
5. Press [C] for Exit. This returns the screen to viewing the already programmed countdown timer(s).
6. Or, after an option is selected follow the display prompts to continue.

World Time

Have you ever wanted to call a friend in another part of the world but wondered what time of the day it is there? To know what time it is before you call, use the World Time clock function. World Time displays what time it is in twenty-four different time zones around the world together with one or more major cities, states, regions or countries in a time zone.

Note: The World Time does not support Daylight Savings Time for other countries than your own country.

To check the current time in another city or country:
1. Press [MENU] to display the menu.
2. Press [4 GHI] for Scheduler.
3. Press [6 MNO] for World Time
4. The display screen shows the world map.
5. The current date and time for New York displays.

6. You can press the navigation key up and down or left and right to toggle between world times in the following 24 time zones (time zones are identified by one or more cities, states, regions or countries in a time zone) Beginning with GMT.

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

6. Press [C] to return the previous menu.

Calculator

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

To perform a calculation:
1. Press [MENU] to display the menu.
2. Press [4 GHI] for Scheduler.
3. Press [7 PQRS] for Calculator.
4. Press digit keys to enter the first number in your calculation. Numbers can be up to 9 digits long.
 – Press [* Shift] to enter a decimal point.
 – Press [# Space] to change the sign of a number to a negative (-).
5. Use the navigation keys to set the operator for your calculation. Your choices are:

‒ [+] addition
‒ [-] subtraction
‒ [x] multiplication
‒ [/] division

6. Press the digit keys to enter the second number of your calculation.

7. Press [OK/Message] to perform the calculation and see the result, or:

8. You can continue to perform calculations with the same operator or change the operator and continue your calculations. Every time that you change the operator, the previous calculation is performed and the result is displayed as the top number in the display.

9. Press [OK/Message] to perform the calculation and view the result.

Alarm Set

Your phone can set one alarm clock.
The alarm can be set to go off once or daily at a programmed
time. Once you set an alarm, it is easy to change it's time or to turn it off.

1. Press [MENU] to display the menu.

2. Press [4 GHI] for Scheduler.

3. Press [8 TUV] for Alarm Set.

4. Press the navigation key to scroll through the alarm options, 'Once' 'Daily', or 'Off'.
   Select the alarm option you want to set by pressing [OK/Message].

5. Press the digit keys to set the alarm time. Since your phone only supports 12-hour time display,
   press [2 ABC] for AM and [7 PQRS] for PM at the end of each time entry.

6. Press [OK/Message] to save the setting and return to the standby mode. Or, press [C]
   to return to the previous alarm options menu.

7. To change the alarm time or turn the alarm off, repeat steps 1. to 6. above.

4.   Once the alarm is set, a graphic icon notifying you that the alarm is active will
     always be displayed in standby mode.

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, scheduler, or messages .

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 settings .

Shortcut for adjusting ringer volume
From the standby mode, you can adjust the volume (8 levels) of the ringer,
mute the ringer, or set to vibrate mode by pressing the navigation keys
 up or down .

Ringer volume
Three options can be found under the Ringer Volume option for
Sounds. To activate these options:
1. Press [MENU] to display the menu.
2. Press [5 JKL] for Sounds.
3. Press [1 .-'] for Ringer Volume. The three options display. 1: Calls ,
    2: Messages , 3: Alarm.
4. Either press the associated digit key, or scroll to the option and select it. The
    screen displays the volume icon which changes according to the setting selected.
5. Press the navigation key to change the setting . When you reach the lowest setting,
 the phone will vibrate alerting you of the vibrate option. Also, when ringer volume
 reaches silence, an audible alert notifies you that ringer may be silenced if selected
 at that level.

6. When the desired setting is reached, press [OK/Message] to save the setting.
7. You can press [C] to return to the previous menu at any time.

One-touch Vibrate Alert
This feature is also called the "Manner Mode" which allows you to
instantaneously silence the ringer in standby mode. This feature is useful
when you are entering a quiet place.

To revert the ringer option of your phone immediately to vibrate alert:
1. Simply press and hold [# Space] for over 1 second in standby mode.
2. "Entering Manner Mode" prompt message displays and your phone
    vibrates for a few seconds alerting you that vibrate alert is active.
    The vibrate alert icon on the screen will turn on.
3. To exit from Manner Mode, press and hold [# Space] for over 1 second
    in standby mode.
4. "Exiting Manner Mode" prompt message displays and your phone
    automatically reactivates the previous ringer volume setting.

Ringer type
Five options are found for Ringer type under the Sounds menu.
To activate these options:
1. Press [MENU] to display the menu.
2. Press [5 JKL] for Sounds.

3. Press [2 ABC] for Ringer Type.
4. Either press the numeric key or scroll and select the option of choice
   using the navigation key and [OK/Message] to activate that option.
5. Press the navigation key to scan through the nine monotone ringer types, and four
   melody tones. Each tone plays as you
   scroll through the options.
6. When the desired ringer type is displayed, press [OK/Message] to save the setting. Or,
7. Press [C] to cancel and return to the previous menu.

Voice Calls
To view or change the ringer type for voice calls:
1. Press [MENU] to display the menu.
2. Press [5 JKL] for Sounds.
3. Press [2 ABC] for Ringer Type.
4. Press [1 .-'] for Voice Calls.
5. Use the navigation key to select from the nine monotone rings and
four melody tones.
6. To select your choice of melody or ringers, press [OK/Message]. Or,
7. Press [C] to cancel and return to the previous menu.

Messages

To view or change the ringer type for incoming messages:
1. Press [MENU] to display the menu.
2. Press [5 JKL] for Sounds.
3. Press [2 ABC] for Ringer Type.
4. Press [2 ABC] for Messages. Four options display. 1: Voice Mail, 2: Page, 3: Text, and
   4: Browser MSG.
5. Either press the numeric key, or scroll and select the option of choice using the
    navigation key and [OK/Message] to activate that option.
7. Press the navigation key to scan through the nine monotone ringer types, and four
melody tones. Each tone plays as you scroll through the options.
8. When the desired ringer type is displayed, press [OK/Message] to save the setting. Or,
9. Press [C] to cancel and return to the previous menu.

Alarm
To view or change the ringer type for alarm:
1. Press [MENU] to display the menu.
2. Press [5 JKL] for Sounds.
3. Press [2 ABC] for Ringer Type.
4. Press [3 DEF] for Alarm.
5. Use the navigation key to select from the nine monotone rings and
four melody tones.
6. To select your choice of melody or ringers, press [OK/Message]. Or,
7. Press [C] to cancel and return to the previous menu.

Data /Fax Incoming Call
To view or change the ringer type for incoming data/fax calls:
1. Press [MENU] to display the menu.
2. Press [5 JKL] for Sounds.
3. Press [2 ABC] for Ringer Type.
4. Press [4 GHI] for Data/Fax In.
5. Use the navigation key to select from the nine monotone rings and
four melody tones.

6. To select your choice of melody or ringers, press [OK/Message]. Or,

7. Press [C] to cancel and return to the previous menu.

Schedule

To view or change the ringer type for schedule alerts:

1. Press [MENU] to display the menu.

2. Press [5 JKL] for Sounds.

3. Press [2 ABC] for Ringer Type.

4. Press [5 JKL] for Schedule.

5. Use the navigation key to select from the nine monotone rings and four melody tones.

6. To select your choice of melody or ringers, press [OK/Message]. Or,

7. Press [C] to cancel and return to the previous menu.

Key beep

Key Beep allows you to designate the volume of the tone when a key is pressed on the phone. There are eight levels of volume associated with the key beep.

To view or change the Key Beep volume level:

1. Press [MENU] to display the menu.

2. Press [5 JKL] for Sounds.

3. Press [3 DEF] for Key Beep.

4. Press the navigation key to change the setting.

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

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

Alerts

Your phone beeps to notify you of an event or action, this is called an alert. You can easily turn alert beeps on or off. The other party does not hear the alerts when you are on a call.

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. Press [MENU] to display the menu.

2. Press [5 JKL] for Sounds.

3. Press [4 GHI] for Alerts.

4. Press [1 .-'] for Minute Beep.

5. Scroll between On and Off using the navigation key. When the desired setting is displayed, press [OK/Message] to save.

6. To cancel, press [C] to return to the previous menu.

Service

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

1. Press [MENU] to display the menu.

2. Press [5 JKL] for Sounds.

3. Press [4 GHI] for Alerts.

4. Press [2 ABC] for Service.

5. Scroll between On and Off using the navigation key. When the desired setting is displayed, press [OK/Message] to save.

6. To cancel, press [C] to return to the previous menu.

Connect

With the Connect option set to on, the phone sounds a connect alert
tone when your call is connected.
To set the connect alert On or Off:
1. Press [MENU] to display the menu.
2. Press [5 JKL] for Sounds.
3. Press [4 GHI] for Alerts.
4. Press [3 DEF] for Connect.
5. Scroll between On and Off using the navigation key. When the desired setting is displayed,
   press [OK/Message] to save.
6. To cancel, press [C] to return to the previous menu.

Disconnect

When the Disconnect option is set to on, the phone sounds a
disconnect alert tone a call is dropped or failed.
To set the disconnect alert On or Off:
1. Press [MENU] to display the menu.
2. Press [5 JKL] for Sounds.
3. Press [4 GHI] for Alerts.
4. Press [4 GHI] for Disconnect.
5. Scroll between On and Off using the navigation key. When the desired setting is displayed,
   press [OK/Message] to save.
6. To cancel, press [C] to return to the previous menu.

Fade

When the Fade menu option is set to on, the phone sounds an alert
when a dropped call occurs during conversation because of a signal fade.

To set the fade alert On or Off:
1. Press [MENU] to display the menu.
2. Press [5 JKL] for Sounds.
3. Press [4 GHI] for Alerts.
4. Press [5 JKL] for Fade.
5. Scroll between On and Off using the navigation key. When the desired setting is displayed,
   press [OK/Message] to save.
6. To cancel, press [C] to return to the previous menu.

Note: When call fail or drop occurs, a text notification displays to alert you.
. Press [C] to clear the notification and return to standby mode.
. If the dropped call was an outgoing call from your phone, you can redial
   the number automatically by pressing [SEND] twice.

Roam

When the Roam option is set to on, the phone sounds a distinctive
ringer type for incoming roaming calls.
To set a distinctive ringer for incoming roam calls:
1. Press [MENU] to display the menu.
2. Press [5 JKL] for Sounds.
3. Press [4 GHI] for Alerts.
4. Press [6 MNO] for Roam.
5. Scroll between On and Off using the navigation key. When the desired setting is displayed,
   press [OK/Message] to save.
6. To cancel, press [C] to return to the previous menu.

Privacy

When the Privacy option is set to on, the phone sounds an alert when an incoming call is a voice privacy activated call.

1. Press [MENU] to display the menu.
2. Press [5 JKL] for Sounds.
3. Press [4 GHI] for Alerts.
4. Press [7 PQRS] for Privacy.
5. Scroll between On and Off using the navigation key. When the desired setting is displayed, press [OK/Message] to save.
6. To cancel, press [C] to return to the previous menu.

Voice Volume

The Voice Volume option allows you to adjust the voice volume of the earpiece speaker while on a call. There are eight levels of volume associated with the voice volume.

To view or change the Voice Volume level:

1. Press [MENU] to display the menu.
2. Press [5 JKL] for Sounds.
3. Press [5 JKL] for Voice Volume.
4. Press the navigation key to change the setting.
5. When the desired setting is reached, press [OK/Message] to save the setting.
6. You can press [C] to return to the previous menu at any time.

Roam Ringer

When the Roam Ringer option is set to on, the phone sounds an alert when the phone enters or leaves a roam service area.

To set the roam ringer alert on or off:

1. Press [MENU] to display the menu.
2. Press [5 JKL] for Sounds.
3. Press [6 MNO] for Roam Ringer.
4. Press the navigation key to change the setting.
5. When the desired setting is reached, press [OK/Message] to save the setting.
6. You can press [C] to return to the previous menu at any time.

Power Up/down

When the Power Up/down option is set to on, the phone sounds an alert when the phone is powered up or powered down.

To set the sound alert On or Off:

1. Press [MENU] to display the menu.
2. Press [5 JKL] for Sounds.
3. Press [7 PQRS] for Power Up/down.
4. Press the navigation key to change the setting between On or Off.
5. When the desired setting is reached, press [OK/Message] to save the setting.
6. You can press [C] to return to the previous menu at any time.

Display

These settings determine what is displayed on the phone screen.

Display options

Your phone has several display options. They allow you to:

.Display your own phone number.

.Control when and how long your backlight is active.

.Define a personal greeting up to 30 characters.

.Set the language (English or Spanish) used on your screen.

.View hardware and software versions of your phone.

Backlight

There are several options for setting the backlight features.
When the phone flip is closed, the backlight remains off conserving
battery power. When the flip is open, the length of time that the
backlight remains active can be set to 7, 15, or 30 seconds.

To select backlight options:

1. Press [MENU] to display the menu.

2. Press [6 MNO] for Display.

3. Press [1 .-'] for Backlight.

4. Scroll through the menu options. Your choices are 'Flip Open' (Always On when flip is open),
   '7 seconds', '15 seconds', '30 Seconds', and 'Always Off'.

5. When the desired option is displayed, press [OK/Message] to save.

Banner

The Banner option allows you to edit the personal greeting displayed on the
standby screen.

Enter the banner desired using the alphanumeric keys.

To select banner options:

1. Press [MENU] to display the menu.

2. Press [6 MNO] for Display.

3. Press [2 ABC] for Banner.

4. Press [MENU] to   select from Input Mode options, 'Word', 'ABC',
   'Symbol', and '123'.

5. Scroll through the options. When the desired option is displayed,
    press [OK/Message] to select.

6. Enter your banner up to 12 characters in length.

7. Press [OK/Message] to save it. The standb mode display will be
   updated with your new banner.

Idle Screen

The Idle screen option allows you to select the graphic still images for
your phone. These images display on the screen when your phone is in standby mode.

To select idle screen image options:

1. Press [MENU] to display the menu.

2. Press [6 MNO] for Display.

3. Press [3 DEF] for   Idle Screen. The options appearing on the display screen are:
   'Large Clock' and 'Banner'.

4. When the desired option is displayed, press [OK/Message] to save.

5. Pressing [C] returns you to the Idle Screen options menu.

My phone #

The My Phone Number option displays the telephone number of the phone.

To display your phone number:

1. Press [MENU] to display the menu.

2. Press [6 MNO] for the Display.

3. Press [4 GHI] for My Phone#. Your phone number will display.

4. Press [C] to return to standby mode.

To view your phone number during a conversation:

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

2. Press [6 MNO] for My Phone #. Your phone number will display.

3. Press [C] to return to the previous menu.

Language

The Language option changes the language on the phone to English or Spanish.

To change languages:

1. Press [MENU] to display the menu.

2. Press [6 MNO] for Display.

3. Press [5 JKL] for Language.

4. Scroll between English or Spanish.

5. When the desired option is displayed, press [OK/Message] to save.

Set Time

Your phone is equipped with a standard clock. Although your phone will automatically display date and time when in digital mode, this information will not be available on the screen when your phone is out of service or in analog mode when powered up.

To set the clock manually:

1. Press [MENU] to display the menu.

2. Press [6 MNO] for Display.

3. Press [6 MNO] for Set Time.

4. Enter the desired date, and time in 12-hour display format.

   Press [2 ABC] for 'AM' and [7 PQRS] for 'PM' at the end of time digit entry.

5. Press [OK/Message] to save the setting.

 The entered date and time displays on the standby mode screen.

6. Or, press [C] to return to the previous menu.

Auto Hyphen

With the Auto Hyphen option set to on, your phone can automatically hyphenate numbers. For example: 972-761-0000.

Here's how it is configured:

1. Press [MENU] to display the menu.

2. Press [6 MNO] for Display.

3. Press [7 PQRS] for Auto Hyphen.

4. Select between 'Yes' and 'No' using the navigation key. Press [OK/Message] to save.

5. Pressing [C] returns you to the previous menu.

Version

The Version menu displays the current hardware/software version that is installed in your phone. This feature is helpful if you need to call customer care.

To view the version:

1. Press [MENU] to display the menu.

2. Press [6 MNO] for Display.

3. Press [8 TUV] to view the Version information.

4. Press [END] to quit and return to standby mode.

5. Or, press [C] to return to the previous screen.

Voice Dial

Voice dialing

Your phone features voice dialing. Whether on a digital or an analog network, you can call up to 10 stored names simply by speaking the name into the microphone. Using the voice dialing option requires that you first program the phone to recognize the name of the person you are calling.

Note: You cannot connect voice dialing entries to your phone book. If you wish to Set voice dialing for frequently used numbers in your phone book, you need to record names and re-enter the same phone numbers to the voice dial memory locations, separately.

Tips on recording names
− Avoid recording similar names phonetically. If you record a similar name
   to one that is already stored in voice-dial 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 the voice dial entry does not connect properly, 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 dialing:
1. Press [MENU] to display the menu.
2. Press [7 PQRS] for Voice Dial.
3. Press [1 .-'] for Record. The phone prompts you to record a name.
4. Wait for a beep and then say the name. The phone stores the name and
   then prompts you to speak the name again.
5. Respond to the prompt by repeating the name after the beep exactly as
   you did the first time. If the name is accepted, the phone requests the
   phone number.
6. Enter the phone number using the keypad.
7. To store the phone number, press [OK/Message]. The number you entered
   displays, along with the notification 'Recorded'. If the number you
   entered matches a number already stored in your Phone Book,
   then the name also displays, together with the notification 'Recorded'.
8. The phone returns to previous Voice Dial menu.

Review
The Review option is used to review and/or erase dialing entries.

To play or erase voice dialing entries:
1. Press [MENU] to display the menu.
2. Press [7 PQRS] for Voice Dial.
3. Press [2 ABC] for Review. A list of stored voice dial numbers displays.
   (The names also display if already stored in the Phone Book).
4. Press the digit key to select the desired entry or scroll to the desired entry
   and press [OK/Message]. The recorded name is vocalized. You can quickly
scroll through entries using the navigation key without having to listen to
each one, or you can listen to them all as they play in order if you wait for
the voice prompt "Next entry".

5. Press [OK/Message] while reviewing a voice dial entry to erase that entry.

6. Press [C] to return to the previous screen.

7. When the last entry is played, the phone returns to standby mode.

To erase all voice dialing entries:

1. Press [MENU] to display the menu.

2. Press [7 PQRS] for Voice Dial.

3. Press [3 DEF] for Erase All.

4. At the voice prompt, p ress [OK/Message] to confirm Erase of All the entries.
   The display screen will inform you when all entries are successfully erased.

5. If you wish to exit without erasing any voice dialing entries press [C]
   and you will return to the previous menu.

Set Active

Voice dialing is always on once you have programmed the phone to
accept voice dialing entries and associated the phone numbers. To
place voice dialing calls, press and hold [* Shift]. Then say the name
into the phone after you hear the voice prompt and the beep.
You can also initiate a voice dialing call by simply opening the phone's
flip cover (this option is selected through the menu).

To change voice dialing activation options:

1. Press [MENU] to display the menu.

2. Press [7 PQRS] for Voice Dial.

3. Press [4 GHI] for Set Active.

4. Scroll between the following options:

. **[*] only:** Enables voice dialing only by pressing and holding [* Shift].

. **[*]/Flip :** Enables voice dialing either when pressing and holding [* Shift] or
   when the flip cover of the phone is opened.

5. Press [OK/Message] when the desired option displays.

Games

Game menu
Using your phone, you have the ability to play the following games:
1. Flying Tight
2. Money or Die

Flying Tight
To play Flying Tight:
1. Press [MENU] to display the menu.
2. Press [8 TUV] for the Games menu.
3. Press [1 .-'] for the Flying Tight game.
4. When the 'start screen' of the game is displayed, press any key to go to the help screen
   which describes how to play the game.
5. Press [OK/Message] to start the game.

Object
The object of the game is to fly the plane inside a cave through a maze of obstacles
longest time possible. To control the path of the plane, use the navigation keys.
Sustain the flight path of the plane in balance to avoid the wall. Keep pressing
the navigation key upwards as the gravity pulls the plane down towards the ground.
Timer on the display shows you how long you have stayed alive. If you are hit
by the asteroids or creatures three times, or bang against the walls too many times,
the game is over. Pick up "E" (Energy) along the way to extend an extra life and
"B" (Bomb) to detonate all the asteroids and creatures that appear on the screen.
The longer you 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 navigation key upwards: Fly the plane upwards.
- Press navigation key downwards: Fly the plane downwards.
- Press [OK/Message] to start the game.
- Press [C] or [End] to exit the game.

Money or Die
To play Money or Die :
1. Press [MENU] to display the menu.
2. Press [8 TUV] for the Games menu.
3. Press [2 ABC] for the Money or Die game.
4. When the 'start screen' of the game is displayed, press any key to go to the help screen
   which describes how to play the game.
5. Press [OK/Message] to start the game.

Object
The object of the game is to control the character on a skate board to pick up
as many pouches of money as possible within limited length of Stage and avoiding
collision with the motorcycles. Picking up a pouch increases the 'Money' count.
But, every time you are hit by a motorcycle, your 'Money' count resets itself to zero.
You must earn ten or more pouches (more than 10 'Money' count) within each Stage
to advance to the next stage. If you reach an end of a Stage with less than ten 'Money'
count, the game is over. A high score is recorded each time you play.

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

- Press navigation key upwards: Move the character upwards.
- Press navigation key downwards: Move the character downwards.
- Press [OK/Message] to start the game.
- Press [C] or [End] to exit the game.

Setup

Auto retry

When the Auto retry option is activated, your phone automatically
retries the last call up to ten times when a connection fails.
How to enable Auto Retry:
1. Press [MENU] to display the menu.
2. Press [9 WXYZ] for Setup.
3. Press [1 .-'] for Auto Retry. The Auto Retry screen displays.
4. Press the navigation key to toggle between Off, every 10 seconds, every 30 seconds
and every 60 seconds. Press [OK/Message] to save your option.
5. Pressing [C] returns you to the previous screen.

Auto Answer

When the Auto answer option is activated, your phone automatically
answers calls after a specified number of rings. This option is useful
when driving or you are unable to answer the phone.
If Auto Answer is set to 'Off', the phone does not answer the incoming
call. If you do not answer the call it is automatically stored in the
Missed Call log.
How to enable Auto answer:
1. Press [MENU] to display the menu.
2. Press [9 WXYZ] for Setup.
3. Press [2 ABC] for Auto Answer. The Auto Answer screen displays.
4. Press the navigation key to scroll between Off, after 1 ring, after 3 rings, and after 5 rings.
   Press [OK/Message] to save your option.
5. Pressing [C] returns you to the previous screen.

Answer Mode

When the Answer Mode option is activated, your phone allows you to
select a specific answer mode when receiving an incoming call. Your
phone can be preset to answer when you do any of the following:
– **by send key:** You can answer the call by pressing [SEND]
– **by flip open:** You can answer the call by opening the flip cover of the phone.
– **by any key:** You can answer the call by pressing any key on the phone.
To set the Answer Mode:
1. Press [MENU] to display the menu.
2. Press [9 WXYZ] for Setup.
3. Press [3 DEF] for Answer Mode.
5. Press the navigation key to scroll between 'by flip open', 'by send key', and 'by any key'.
   Press [OK/Message] to save.
5. Pressing [C] returns you to the previous screen.

Tone Length

Some older phones only recognize 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. Press [MENU] to display the menu.
2. Press [9 WXYZ] for Setup.
3. Press [4 GHI] for Tone Length. The Tone Length screen displays.
4. Press the navigation key to scroll between 'normal', and 'long'. Press [OK/Message] to save.
5. Pressing [C] returns you to the previous screen.

Set NAM

Your Samsung phone can store two NAMs (Numerical Assignment
Module, and is essentially your phone number). This allows you to
have two phone numbers on one phone. You can 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 System" on
page 135 for information on these settings.

To select a different NAM:
1. Press [MENU] to display the menu.
2. Press [9 WXYZ] for Setup.
3. Press [5 JKL] for Set NAM.
4. Scroll between NAM-1 or NAM-2.
5. When the desired option is displayed, press [OK/Message] to save.
6. Press [C] to exit without saving.
Note: If you change your NAM, then 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
will affect your charges, so contact your service provider to determine the best roaming
methods for you.
To change the preferred system setting:
1. Press [MENU] to display the menu.
2. Press [9 WXYZ] for Setup.
3. Press [6 MNO] for Set System. The Set System screen displays.
4. Scroll between 'Home only', 'Automatic-A' or 'Automatic-B'.
5. When the desired option is displayed, press [OK/Message] to save.
6. Press [C] to exit without saving.
Note:
- **'Automatic-A'**: With this setting, your phone will always try
   your calls using the Preferred Roaming List loaded into
   your phone first, but if your phone cannot find any pre-ferred
   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 first, but if your phone cannot find any pre-ferred
   systems, then it will attempt to acquire any digital or analog "B" system.
- **'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 indicator (   ) is displayed.
   In some service areas, an operator may come on
   line asking you how you would like 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

similar to a typical modem on your PC, enabling you to use wireless
data with a 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 cable kit from your service provider.
This kit contains the necessary cables, software, and documentation
required for you to connect and use your Samsung phone with your
computing device.
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.

To setup Data/Fax calls:
1. Press [MENU] to display the menu.
2. Press [9 WXYZ] for Setup.
3. Press [7 PQRS] for Data/Fax. The Data Mode screen displays.
4. Use the scroll keys to toggle between:
 – **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 for next 10 minutes.)
 – **Data until Powered Off:** (No voice calls can be received.)
5. When the desired option is displayed, press [OK/Message] to save.
6. Press [C] to exit without saving.

Receiving a fax
To receive a fax:
1. Ensure that your phone is connected to your PC and is powered on.
2. Press [MENU] to display the menu.
3. Press [9 WXYZ] for Setup.
4. Press [7 PQRS] for Data / Fax.
5. Scroll and select "Fax for Next Call".
6. Press [OK/Message] to save. The screen displays "Waiting for Fax call (no voice) for 10 min."
Note: No incoming Voice Calls can be received for 10 minutes. Your phone
then returns to the standby mode.
7. In the Fax program on your PC, setup the Answer mode. Click on
"Receive" and select one of the following:
 – Automatic Receive (recommended)
 – Manual Receive
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 call
1. Press [MENU] to display the menu.
2. Press [9 WXYZ] for Setup.
3. Press [7 PQRS] for Data/Fax.
4. Scroll and select "Data/Fax Off" .
5. Press [OK/Message] to save. The screen displays "No incoming Data/Fax calls
   can be received" .

Ending a fax or data call
Some regular ways of ending a call, like closing the phone, do not end
a fax or data call. Close the connection through the application on
your computer.

Note: 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 Force

When your phone is in weak signal coverage area,
but if you wish to place a call in a better known coverage system
use this menu. Your phone allows you to search for other system forecibly
for the next call.
To Set Force call:
1. Press [MENU] to display the menu.
2. Press [9 WXYZ] for Setup.
3. Press [8 TUV] for Set Force.
4. Press [1 .-'] for Force Analog. This will revert the phone to analog service and
    remain in analog mode for up to 10 minutes and until a call is made.
5. Or, press [2 ABC] for Force Mode and select from the following options by pressing
    [OK/Message]. Again, if selected, the phone will revert to and remain in that mode for up to
    10 minutes and until a call is made.
 − **CDMA only:** Service is limited to CDMA cellular and PCS services, and analog
    roaming are not allowed.
 − **PCS only:** Service is limited to CDMA PCS service, and CDMA cellular and
    analog roaming are not allowed.
 − **Cell Only** -   Service is limited to CDMA cellular and analog services, and PCS roaming is not allowed.
 − **Automatic** - Automatically looks for any available preferred service.
6. After a call is made and terminated, the phone scans for normal preferred system.

Whisper Mode

Whisper Mode automatically increases the microphone gain to allow the other party to hear your voice
loud enough even if you speak silently. This feature is useful in quite environments such as during a
meeting.

To set Whisper Mode:
1. Press [MENU] to display the menu.
2. Press [9 WXYZ] for Setup.
3. Press [9 WXYZ] for Whisper Mode.
4. Press the navigation key to toggle between On and Off
5. Press [OK/Message] to save.

Note: However, in normal ambient noise environments, setting this feature
active may cause your voice to sound too loud for the other party to listen to.

Mail kit

The Mail Kit allows you to create, send, read, and save your messages.
Your phone receives four kinds of messages: voicemail, text and e-mail, numeric pages, and browser messages. To access the Mail kit, press [OK/Message].

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

The Mail kit contains the following six menus:
− New Messages
− Voice
− Txt Inbox
− TxtOutbox
− Filed Msg
− Message Setup

New messages

You can simply create text, numeric page, or e-mail messages to send to another party. Each message can be sent to up to 10 mobile numbers or e-mail addresses at a time. Message options allow you to set priority, validity period, or send message after a specified time. You can also file yet to be sent draft messages into the filed messages folder to send them later on, or save the sent messages to the Text Outbox to review delivery status.

Note: Sending message is only supported in the digital networks and only if your service provider supports this feature in its network.

1. Press [OK/Message] for the Mail Kit menu.
2. Press [1 .-'] for New Messages.
3. Press [1 .-'] for Send To. This is a required field for entry. Once this field is entered, you can send the message at any time by pressing [SEND].
4. Press [MENU] to select from Address options Phone Number, E-mail, and Phonebook.
   - Phone Number: Enter the destination mobile phone or pager number of up to 32 digits using the keypad.
   - E-mail: Enter the destination e-mail address using the keypad. You can enter only up to 48 characters. (See "Add E-mail" on page ?? for entry method.)
   - Phonebook: Access the phone book to retrieve a number or an e-mail address you wish to send the message to.
   Note: For e-mail addresses, at the bottom right corner of the display is a character counter showing how many characters allowable remain for entry.
5. After entering the Send To number or e-mail address, press [OK/Message] to return to the New Message menu. Notice that the Send To area is updated with the first few digits or characters of the number or e-mail address entered.
6. If you wish to send the same message to multiple recipients:
   - Press [OK/Message] again or press [1 .-'] to go to the multiple addresses menu.
   - Entry '0' is the first destination entered from above. Press [OK/Message] or [1 .-'] for entry number '1'.
   - Select from the three Address options by scrolling and pressing [OK/Message].
   - Enter the additional mobile number or e-mail address and press [OK/Message].
   - Notice that the Send To field is updated with 'Multi' marking notifying you that the message is addressed to multiple recipients.
   - To add more recipient addresses, repeat the above 6. steps. The multiple destinations entered will be updated on the Send To list.

7. Press [2 ABC] for Message. This is an optional field for entry. If you skip this
   option (or leave this field blank), messaging will be the same as sending a numeric page.
8. Type in the message you wish to send. You can change the Input Mode
   by pressing [MENU], which allows you to select from Word, ABC, Symbol,
   and 123 modes. (See "Entering text, numbers, or symbols on page 14? for details.)
9. Press [OK/Message] to select Input Mode and begin entering the message. You can
   enter only up to 180 characters in length for messages. At the bottom right corner of the
   display is a character counter showing how many characters allowable remain for entry.
   Note: If the Send To destination is an e-mail address, this character counter starts from
   180 minus the length of the e-mail address.
10. Once entered, press [OK/Message] to save the message. Notice that the Message area
    (Msg) is updated with the header of the message entered.
11. Press [3 DEF] for Call Back number. This is an optional field for entry.
12. Edit the Call Back number if desired. The default setting is your own phone number.
    If no need for change, press [OK/Message] without change. Notice that the Call Back
       area (CB#) is updated with the new number entered.
13. Press [4 GHI] for Options. This is an optional field for entry.
    You can scroll or toggle between the following options using the navigation key:
    - Priority: Normal, Urgent
    - Validity Period: None, 30 Min., 1 Hour, 2 Hours, 12 Hours, 1 Day, 2 Days, 3 Days
    - Send Later: None, 30 Min., 1 Hour, 2 Hours, 12 Hours, 1 Day, 2 Days, 3 Days
    - Delivery Ack : On, Off
    - Save Message: Auto Save, Prompt Save, Do Not Save
14. Press [OK/Message] to confirm setting and return to the New Message menu.
15. Press [5 JKL] for Action. This is an optional field for entry.
16. The following four options will display:
    - Press [SEND] to transmit the message.
    - Press [OK/Message] to file the message to the "Filed Msg" folder without sending it.
    - Press [C] to cancel and return to the previous menu.
    - Press [END] to terminate message and return to standby mode.
17. When [SEND] is pressed, the animation is displayed showing
       that the message is being sent. If the message was sent successfully, "Message Sent!"
       message displays, but if it failed, "Messaging Failed!" displays.
18. If transmission fails, the phone will automatically prompt to resend the message once
       more, depending on the error conditions. Select Yes to resend message.
    If message is successfully sent, the message sent will be stored in the Outbox
       based on the "Save Message" option setting described previously.
    - Auto Save: The message will be stored to the Outbox message list automatically
      after transmission is complete.
    - Prompt Save: The phone will prompt if you wish to save the message to the Outbox.
      You can select from Yes or No.
    - Do Not Save: The phone will not store the sent message to the Outbox.
19. You can view the status of the transmitted message through the Outbox message list.
       (See "Outbox" on page ?? for details).

Voicemail and Text Inbox
Your phone receives incoming messages in both Standby and In-Use
modes. When you are on a call and a message is received, your phone
automatically mutes the ringer and provides the call waiting tone (this
is to avoid ringing in your ear while you are trying to speak).

Receiving a message in standby mode
When your phone receives a message in standby mode, the ringer
sounds (unless turned off), and the screen displays ("New Voicemail",

"New Text", "New Page" or "New BrowserMsg"). The message
indicator is displayed and remains on the screen until you listen to the
new voicemail message, read the new Browser message, text message
or numeric page.

Receiving a message while on a call

If you receive a new text message or numeric page while on a voice
call, the Call Waiting tone sounds and a message header displays. You
can easily review the new message while on the call by just pressing
[OK/Message]. Your call is not disconnected, and you can ask the other party
to wait while you review the message.

Reviewing voicemails, numeric pages, and text messages

When a message arrives, you can directly dial the sender's
call back number, if available, by pressing [SEND], or you can review the
message by pressing [OK/Message]. The Inbox Messages list provides options for
reviewing the sender's name, phone number, time / date stamp and the message.

To review a stored (or old) voice mail notification or text message (including
numeric page from   standby mode:

1. Press [OK/Message] to display the Mail Kit menu. The number of new
   (unreviewed) or sent messages displays next to the associated message type in the menu.
2. Press [2 ABC] for Voice. The date / time stamp for the last voice mail received
   displays along with a notification of the number of new voicemail messages.
   You can press [SEND] to dial your mailbox directly to review voicemails.
3. Or, press [3 DEF] for Text Inbox. A list of messages displays.
   - An exclamation point next to an entry number indicates an urgent message.
     A check mark next to an entry number indicates that the message has already
     been read.
   - Scroll to the message you wish to review and press [OK/Message].
   - While reviewing the message, you can press the navigation key up and down
     to scroll through the time / date stamp, sender's call back number, origination
     number / e-mail address, and message body. But if you wait, the phone automatically
     scrolls through the display.
   - To review other messages, press the navigation key left or right to move to the
     next or previous message received.
4. Press [C] to return to the previous screen.

Note: While reviewing a message, you can press [MENU] for more options. See
" Message options" on page 140.

Message options

When reviewing Text Inbox, the Messages menu provides a number
of options. You can return a call or text message to the phone number
or the e-mail address in the message, and forward the message to another party..

1. While reviewing a message, press [SEND] to dial the Call Back number.
2. Or, scroll through the menu with the navigation key. Press [MENU] for Options.
   The following options are available:
   - Reply
   - Forward
   - Delete
   - Save Address
   - Save Call Back #

3. Select 'Reply' to reply to the sender. The phone accesses "New Message" menu
   and copies the sender's originating address to the Send To field.
   (See "New Message" on page ?? for descriptions on sending a message.)
4. Select 'Forward' to forward the message to another party. The phone accesses
   "New Message" menu, and copies the sender's message body to the Message field.
5. Select 'Delete' to delete the message from the Inbox.
6. Select 'Save addr' to save the sender's origination number or e-mail address
   to the phone book. The number or address gets automatically copied into the
   Add Entry or E-mail entry field. (See "Add Entry" on page ?? and "Add E-mail" on
   page ?? for descriptions on saving phone numbers or e-mail addresses to the phone book.)
7. Select 'Save cb#' to save the call back number to the phone book. The number
   gets automatically copied into the Add Entry field.
8. Press [C] to return to the previous Text Inbox messages list screen.

Message ringing
Your phone allows you to set unique ring types for different types of
incoming messages. (see " Ringer type" on page 96).

Messages and lock mode
Incoming messages are received even when your phone is in Lock
Mode. The screen displays the time and date of the message, but you
cannot access the message. To access the message, unlock the phone.

Text Outbox

Your phone stores messages into the
Text Outbox of the phone regardless of whether the message was
successfully transmitted or not, and if not set to 'Do Not Save'
in the Save Message setting under Msg Setup. You can review, resend,
or delete any message stored in the outbox, if desired. You can also
verify if the message or e-mail transmitted is successfully
delivered to the other party and at what date and time, through
the Delivery Acknowledgement feature.

Reviewing Outbox
To review the outgoing messages:
1. Press [OK/Message] to display the Mail kit menu.
2. Press [4 GHI] for Text Outbox. A list of messages displays.
   The indicator next to the entry number represents the transmission status.
   - A check mark means that the message was successfully transmitted
     and delivery was acknowledged. (Delivery Ack)
   - A colon (':') means that the message is transmitted but is not
     delivered yet.
   - An 'X' mark means that the message transmission has failed.
3. Scroll through the outgoing messages using the navigation key, and
   select a message to be viewed by pressing [OK/Message].
4. The display showing the message status will be presented
   with ' Text Msg xx' or ' E-mail Msg xx' (xx; message number)
   notification on top line of the display. The display will include
   information on transmitted date / time stamp, Send To number or
   e-mail address, call back number, the message body, and the
   delivery status.
5. Press [MENU] for more options.. A ' Sent Msg' pop-up menu will display.

◆ Select 'Re-send' to resend the message. Press [SEND] to resend with
   the same message settings. Or, follow steps under "New messages"
   on page ?? to edit and resend message.
◆ Select 'Delete' to delete the message from the Outbox.
   'Erased' notification will display.

Delivery Acknowledgement

If turned on in the Message Setup or New Message options menu, this
feature provides an alert message with the delivery status some time
after a message is successfully delivered. The delivery acknowledgement
message will be displayed on your phone screen until you press any key,
and will include delivered date / time stamp, and a text notification of
'Message to [Send To number or e-mail address] delivered.'
However, the Delivery Ack message will not be stored in memory,
but will be a one-time display only. Also, if multiple messages were
transmitted consecutively in short time, triggering multiple Delivery Ack's
to be delivered to your phone, then only the last received Delivery Ack
will be displayed. The Text Outbox message display will be updated with
the delivered date / time stamp information.

Note: Delivery Ack is a type of message sent from the system
to indicate that a message arrived at its destination without error.

To review the delivery status of an outgoing message:
1. Press [OK/Message] to display the Mail kit menu.
2. Press [4 GHI] for Text Outbox. You can review the delivery status
   through the indicators next to the message entry number.
3. Scroll and select an Outbox entry to review.
4. Scroll down to view the delivered date / time stamp for the transmitted
   message updated at the bottom of the display.

Mail kit memory capacity

Your phone can store up to 20 messages for Text Inbox and up to
20 messages for Text Outbox and Filed Messages combined. The
storage capacity includes all received, sent, and filed message
types; numeric page, VMN (voicemail notification), and text message.
The number of messages stored depends on the length of the messages.
When message memory reaches over 75% capacity, the screen displays
"Memory is xx% full. Erase old messages", where xx 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
Text Inbox, Text Outbox, or the Filed Messages.

Filed Messages

Your phone can store yet to be sent draft messages into the Filed Msg
folder. You can access this folder later to continue editing and to send
the message.
Note: The memory capacity available for the Filed Messages folder is
relative to the Text Outbox memory capacity.

To store unsent messages to the Filed Messages folder:
1. Press [MENU] to display the Mail Kit menu.
2. After "New Message" creation, press [5 JKL] for Action.
3. Press [OK/Message] for File Msg.

To access unsent messages and continue editing:
1. Press [MENU] to display the Mail Kit menu.
2. Press [5 JKL] for Filed Msg. The number of pending messages display
   next to the Filed Msg text.
3. The filed messages will display in order. Scroll and select message to
   continue editing by pressing [OK/Message].
4. Follow steps under "New Messages" on page ?? to edit and send
   the message.

Message Setup

You can preset several options for general settings or new message
transmissions, and delete all messages from the Inbox or Outbox.
1. Press [OK/Message] to display the Mail Kit menu.
2. Press [6 MNO] for Msg Setup.
3. Press [1 .-'] for General.
   - Press [1 .-'] for Scroll Timer. Your options are Off, 1, 2, 3, 4, or
     5 seconds.
   - Or, press [2 ABC] for Msg. Reminder. Your options are Off, Once,
     or Every 2 min.
4. Press [2 ABC] for New Messages.
◆ Press [1 .-'] to set the default Callback number. The default setting is
   your own phone number. Enter a new callback number via the keypad
   and press [OK/Message].
◆ Press [2 ABC] to set the Save Message options. You can toggle between
   'AutoSave', 'Prompt Save', or 'Do Not Save' for the default setting.
   Press [OK/Message] to save the setting. When set to 'Prompt Save',
   the phone will display "Store Msg?" prompt asking if the created message
   should be saved to the outbox after a message is transmitted.
◆ Press [3 DEF] for message Entry Method. You can toggle between
   'Alphabet' and 'Word' (predictive keypad) for the default setting using
   the navigation keys. Press [OK/Message] to save the setting.
◆ Press [4 GHI] to set the Delivery ACK. You can toggle
   between 'On' and 'Off' for the default setting using the
   navigation keys. Press [OK/Message] to save the setting.
◆ Press [5 JKL] for Canned Messages. There are a total of 10 frequently used
   canned messages preprogrammed to your phone. You can select the number
   associated with each canned message and press [OK/Message] to edit it.
   If you completed editing of a canned message, press [OK/Message] to save.
5. Press [3 DEF] for Erase.
◆ Press [1 .-'] for Entire Inbox.
◆ Press [2 ABC] for Entire Outbox
◆ Press [3 DEF] for Erase All Msg.
  When prompt displays, press [OK/Message] to accept or [C] to cancel.
  If accepted, all messages from the inbox and/or the outbox will be deleted.

Security

Your phone's security features
Your phone provides security options, including a user-programmable
lock code and special phone number features. To access the Security
menu in standby mode, press [Menu], [0 Next], and enter the 4-digit lock
code. (normally the lock code is the last 4 digits of your phone
number). Press the associated numeric key to access one of the
following Security options:
.Lock Mode
.Restrict
.Lock code
.Emergency #
.Send PIN
.Clear MEM
.Reset Phone
.Voice Privacy

Lock mode
Locking the phone limits all outgoing calls except calls to hard-coded
emergency numbers (911, *911 and #911).
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.

Locking the phone
To lock the phone:
1. Press [MENU] to display the menu.
2. Press [0 Next] for Security and enter your lock code.
3. Press [1 .-'] for Lock Phone.
4. Scroll through the options:
. **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.
5. Press [OK/Message] to save the setting.

Unlocking the phone
When the phone is locked, pressing the navigation key, [MENU], or [OK/Message] displays " User
Lock" . Enter the phone's lock code, and the phone will immediately unlock itself.

Dialing in lock mode
You can place calls to emergency (911, *911, #911) and three special numbers you
saved under emergency# in the lock mode. After entering the number press [SEND] to dial.
To place normal outgoing calls in lock mode, enter the lock code to unlock the phone,
and then dial the phone number.

Restrict
This feature allows you to restrict the use of your phone.
To restrict the phone:
1. Press [MENU] to display the menu.

2. Press [0 Next] for Security. Enter the 4-digit lock code.

3. Press [2 ABC] for Restrict.

4. Press the navigation key to scroll between 'Yes' or 'No'. Press [OK/Message] to confirm
the restriction.

5. Or, p ress [C] to exit and return to previous menu.

Lock Code
The default lock code for your phone is the last four
digits of your phone number. You can enter a personal lock code or
change the lock code as often as you like.
To enter a new lock code:

1. Press [MENU] to display the menu.

2. Press [0 Next] for Security.

3. Enter your current 4-digit lock code.

4. Press [3 DEF] for Lock code.

5. When prompted with "ENTER NEW CODE", enter a new 4-digit lock code by pressing the numeric keys.

6. You will be prompted again with "RE-ENTER NEW CODE". Enter the same 4-digit lock code to confirm.

7. Or, p ress [C] to exit and return to the Security menu.

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 #
Your phone provides the option of storing three emergency or special
numbers. Each special number can be up to ten digits long.
All special numbers can be manually dialed at any time, even when
your phone is locked or restricted. This feature is useful for controlling what
numbers can be dialed 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 dial 911, *911, or #911, an audible tone is heard
and an "Emergency" prompt displays during the duration of the call to alert you that a 911 call is in progress.

IMPORTANT NOTICE! PLEASE READ!
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 dialing 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 numbers
To store special numbers that allow you to dial even when phone is locked or restricted:

1. Press [MENU] to display the 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 three entries.

5. Enter the special number. You can enter up to 10 digits for each number.

6. Press [OK/Message] to save the number entered.

7. Press [C] to exit and return to the Security menu.

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. Press [MENU] to display the 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/Message] to save the choice.

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
(Call Logs, Mail Kit Messages, Schedules, or other phone feature settings) are
not affected by clearing 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 memory on your phone:
1. Press [MENU] to display the menu.
2. Press [0 Next] for Security and enter your current lock code.
3. Press [6 MNO] for Clear MEM . A confirmation prompt "Clear All?" displays alerting
you that phone memory will be cleared.
4. Press [C] to cancel the operation.
5. Or, press [OK/Message] to clear the phone memory. After a few seconds, "Erased" message
   displays and the phone returns to standby mode.

Reset Phone

Reset Phone reboots the phone and returns all feature and memory settings to the factory
default settings. This also erases all your Phone Book, Voice Dial recordings,
Call Logs, Mail Kit Messages, and Game Scores.
To reset your phone:
1. Press to [MENU] display the 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 [C] to cancel the operation.
5. Or, press [OK/Message] to reset your phone. 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

Although your conversation is securely encrypted to prevent eavesdropping when
used in digital mode, this feature extends the encryption when set to enhance mode.
To activate voice privacy:
1. Press [MENU] to display the 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
   Voice Privacy.
4. Press [C] to cancel the operation.
5. Or, press [OK/Message] to save the setting.

Note: Your service provider must enable this feature to have it properly work.
Contact your service provider to verify if this feature is available in the network.

In-Use Menu

Your phone includes both a Standby menu and an In-Use menu. The In-Use menu is displayed by pressing [MENU] during a call in progress.

The In-Use menu options are:

1. **Mute/Quit** - Mutes or unmutes your voice so that the calling party cannot hear you.
2. **Calls** - Checks your call log for outgoing, incoming, and missed calls. You can also erase the logs from this menu.
3. **PhoneBook** - Accesses the Phone Book menu options.
6.   **Silent/Quit** – Activates or deactivates silent keypad feature. When set to silent mode, your keypad tone is not sent out to the calling party. However, this should not be used when you access automated services that requires you to select options or press numbers through the keypad.
5. **Send Tel #** - Send your phone number to the calling party or automated services.
6. **My Phone #** - Displays your own phone number used with the phone.
7. **Version** - Displays the version of the software and hardware that is being used on the phone.
8. **Voice Privacy** - Allows you to select between a privacy level of standard or enhanced.

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 informs you of the current signal strength by displaying a 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 is always clearest when the antenna is fully raised. If you're inside a building, reception may be 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 automatically activates to conserve battery power when you have been unable to pick up a signal for 15 minutes. If your phone is on, it periodically rechecks service availability. To manually check, press any key. A message is 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.

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.

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..154

How to order accessories

Most Samsung accessories can be purchased by visiting our web site at www.samsungtelecom.com.

The accessories available for this phone include:

.Travel charger (TCH020JBE).

.Desktop charger (DCH039ADE).

.Cigarette lighter adapter (CLC020).

.Standard (BST0399DE), and Extended-life batteries (BEX039DDE).

.Hands-free car kit (HSH020SBE).

.Data cable (DC020).

.Leather case (LC-N150).

.Holster (HC070).

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.

Operating a motor vehicle
IMPORTANT NOTICE! PLEASE READ!
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.

.Dial to report serious emergencies. There
are no charges from your carrier.

.Use your phone to help others in emergencies.

.Call roadside assistance or a special 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.

Emergency calls

IMPORTANT NOTICE! PLEASE READ!

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 dialing 911 or any other essential or emergency communications.

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

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.

Cautions
Any changes or modifications to your phone not expressly approved in
this document could void your warranty for this equipment and void
your authority to operate this equipment.
Only use approved batteries, antennas, and chargers. The use of any
unauthorized accessories may be dangerous and will invalidate the
phone warranty if said accessories cause damage or a defect to the phone.
Although your phone is quite sturdy, it is a complex piece of hardware
and can be broken. Use common-sense guidelines to avoid dropping,
hitting, bending, or sitting on it.

Information to user
This equipment has been tested and found to comply with the limits of
a Class B digital device, pursuant to Part 15 of the FCC Rules. These
limits are designed to provide reasonable protection against harmful
interference in a residential installation. This equipment generates,
uses and can radiate radio frequency energy and, if not installed and
used in accordance with the instructions, may cause harmful
interference to radio communications. However, there is no guarantee
that interference will not occur in a particular installation; if this
equipment does cause harmful interference to radio or television
reception, which can be determined by turning the equipment off and
on, the user is encouraged to try to correct the interference by one or
more of the following measures:
.1. Reorient / Relocate the receiving antenna.
.2. Increase the separation between the equipment and receiver.
.3. Connect the equipment into an outlet on a circuit different from that to
which the receiver is connected.
.4. Consult the dealer or an experienced radio/TV technician for help.
CAUTION: Changes or modifications not expressly approved by the
manufacturer responsible for compliance could void the user's
authority to operate the equipment.

Your phone as a network device
Your telephone requires a service provider to send and receive calls.
Your phone is only one part of a system or " network" of devices that
makes it possible for you to send and receive calls, text messages,
voice message, access the Internet using the MiniBrowser, and to take
advantage of all of the other services and features available when your
phone is used with your service provider.
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 the icon
will display. In some service areas, an operator may come on the line
asking 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

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 chargers. The use of any unauthorized accessories may be dangerous and will invalidate the phone warranty if said accessories cause damage or a defect to the phone.
Although your phone is quite sturdy, it is a complex piece of hardware and can be broken. Use common-sense guidelines to avoid dropping, hitting, bending or sitting on it.

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.

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 difference from that to
  which the receiver is connected.
.Consult the dealer or an experienced radio/TV technician for help.

Samsung phone and battery specifications

Dual Band Tri-mode: CDMA 1.9GHz/ CDMA 800MHz /AMPS 900 MHz

Display Screen: Graphical LCD, up to 6 lines with 1 dedicated icons line.

Battery Type: Standard Lithium-ion

Antenna: Retractable, user-replaceable

Samsung phone with standard battery

Dimensions (H x W x D): 4.1 x 1.8 x 0.8 inches

106 x 46 x 22 mm

Weight: 4.2 z.(120 g)

Volume: 107 cc

Talk Time Digital: Up to 3.3 hours

            Analog: Up to 1 hour

Standby Time Digital: Up to 140 hours

              Analog: 16 hours

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.:

User guide proprietary notice
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4,901,3075,109,3905,267,2625,416,797
5,506,8655,544,1965,657,4205,101,501
5,267,2615,414,7965,504,7735,535,239
5,600,7545,778,338 5,228,054 5,337,338
5,710,7845,056,109 5,568,4835,659,569
5,490,1655,511,073
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patents pending.
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Numerics

A

B

C

D

E