* Some contents in this manual may differ from your phone depending upon the software of the phone or your service provider.

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SPH-A505

User's Manual

Draft version(for FCC)
(2002. 10. 12)

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

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Important Safety Precautions

Read these guidelines before using your wireless phone. Failure to comply with them may be dangerous or illegal. For more detailed safety information, see “Health and Safety Information” on page 116.

Road Safety at All Times
Do not use a hand-held phone while driving; park the vehicle first.

Switching Off When Refuelling
Do not use the phone at a refuelling point (service station) or near fuels or chemicals.

Switching Off in Aircraft
Wireless phones can cause interference. Using them in aircraft is both illegal and dangerous.

Switching Off in Hospitals
Switch off your phone near medical equipment. Follow any regulations or rules in force.

Interference
All wireless phones may be subject to interference, which could affect their performance.

Special Regulations
Meet any special regulations in force in any area and always switch off your phone whenever it is forbidden to use it, or when it may cause interference or danger (in a hospital for example).

Radio Frequency Exposure

In August 1996, the Federal Communications Commission (FCC) of the U.S. adopted an updated safety standard for human exposure to radio frequency (RF) electromagnetic energy emitted by FCC regulated transmitters. The design of this phone complies with the FCC requirements relating to RF exposure.

This device was tested for typical body-worn operations with the back of the phone kept 1.5 cm. from the body. To maintain compliance with FCC RF exposure requirements, use only belt-clips, holsters or similar accessories that maintain a 1.5 cm. separation distance between the user's body and the back of the phone, including the antenna, whether extended or retracted. The use of 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.

Sensible Use

Use only in the normal position (held to the ear). Avoid unnecessary contact with the antenna when the phone is switched on.

Accessories and Batteries

Use only Samsung-approved accessories and batteries.

Qualified service

Only qualified service personnel may install or repair your phone.

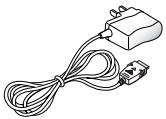
Unpacking

Your package contains the following items.

Handset

Battery

Travel Adaptor



Hand Strap

User's Manual

Ear-microphone

In addition, you can obtain the following accessories for your phone from your local Samsung dealer:

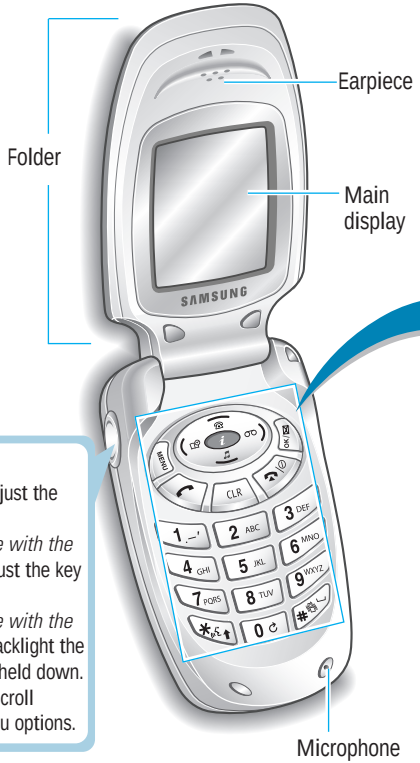
- Camera Kit
- Ear-microphone
- Travel adapter
- Cigarette lighter adapter
- Hands-free car kit
- Data cable

Your Phone

Phone Layout

The following illustrations shows the main elements of your phone.

Open View



Volume keys

During a call, adjust the voice volume.
In Standby mode with the phone open, adjust the key beep volume.
In Standby mode with the phone closed, backlight the front LCD when held down.
In menu mode, scroll through the menu options.

Closed View

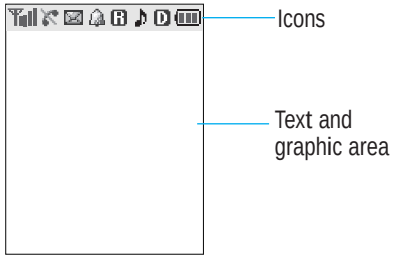
Key	Functions
MENU	Enters menu mode.
OK	*In menu mode,* selects a menu function or stores information that you have entered (such as a name) in the phone memory. *In Standby mode*, enters the **Messages** menu and saves the number in the phonebook after entering a number.
	In menu mode, scrolls through the menu options and phonebook memory. *In Standby mode*, enters the **Find** menu and enters the **Ringer Type** menu. enters the **Scheduler** menu and enters the **Voice Memo** menu.
	Quickly launches the web browser.

Key	Functions *(continued...)*
	Makes or answers a call. *In Standby mode*, recalls the last outgoing numbers you dialed, and dials the last outgoing number when pressed twice.
	Ends a call. Also switches the phone on and off when held down. *In menu mode*, cancels your input and returns to Standby mode.
CLR	Deletes characters from the display. *In menu mode*, returns to the previous menu level.
0 ~ 9 WXYZ	Enters numbers, letters and some special characters.
	In Standby mode, initiates the voice dialing feature when held down. *While entering text*, allows you to change the case. Also, use this key for the special star calling feature.
	In Standby mode, enters or exits the silent mode when held down. Also, use this key when you make a call to an automated system, especially when using teleservices.

Display

Layout

The display comprises two areas; an upper line of various icons and the lower text and graphic area.



Icons

Signal Strength : Shows the received signal strength. The greater the number of bars, the better the signal.

Service: Appears when a call is in progress.

No Service: Appears when you are outside a service area. When it appears, you cannot make or receive calls.

New Message: Appears when a new message is received.

Alarm: Appears when you set an alarm to ring at a specified time.

Roaming: Appears when you are out of your home area and have registered onto a different network (when travelling in other countries, for example).

Bell: Appears when you set the ringer volume for calls to one from **Level 1** to **Level 8** or to **1-Beep**.

Ringer Off: Appears when the ringer volume is turned off.

Vibration: Appears when you set the ringer volume for calls to **Vibrate** or when the phone is in Silent mode.

Digital Mode: Indicates when the phone is in digital mode.

Analog Mode: Indicates when the phone is in analog mode.

1x Mode: Indicates when the phone is in 1x mode.

Battery Status: Shows the level of your battery. The more bars you see, the more power you have left.

External Display

Your phone has an external display on the folder. It indicates when you have an incoming call or message. It also alerts you when you set an alarm at a specified time .

When you press and hold one of the volume keys with the phone closed, the backlight of the external display illuminates.

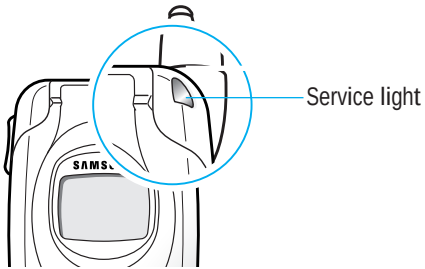
Backlight

The display and the keypad are illuminated by a backlight. When you press any key or open the folder, the backlight illuminates. It turns off if no key is pressed within a given period of time, depending on the **Backlight** option set in the **Display** menu. The backlight remains on at all times when the phone is connected to an optional car kit.

To specify the length of time for which the backlight is active, set the **Backlight** menu option (**MENU 8-4**); see page 102 for further details.

Service Light

The service light is at the top right of the phone. It flashes to indicate incoming calls or messages. The light also flashes for a few seconds when you turn on or off the phone and is used for indicating the charging progress.



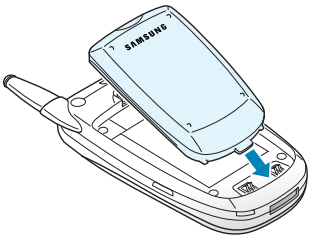
Getting Started

Using a Battery

Your Samsung phone comes packaged with a partially charged, rechargeable Lithium Ion (Li-ion) battery.

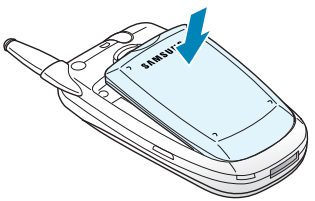
Installing the battery

1. Place the battery back on the phone so that the tabs on it match the slots at the bottom of the phone.



2. Press the battery down until it snaps into place.

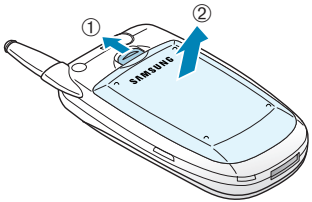
   Make sure that the battery is correctly installed before switching on the phone.



Removing the battery

1. If necessary, switch off the phone by holding down until the power-off image is displayed.

2. Pull the catch above the battery towards the top of the phone and lift the battery away.



Charging the Battery

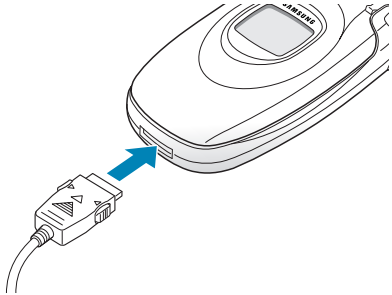
The travel adaptor is provided with your phone to allows you to charge your phone's battery from a standard AC wall outlet. Use only approved batteries and chargers.

Note: You need to fully charge the battery before using your phone for the first time.

You can use your phone while the battery is charging, but this increases time it will take to charge the battery. An "empty" standard battery can be fully charged in approximately 4 hours.

To charge the battery:

1. With the battery in position on the phone, plug the connector form the travel adaptor into the jack at the bottom of the phone.



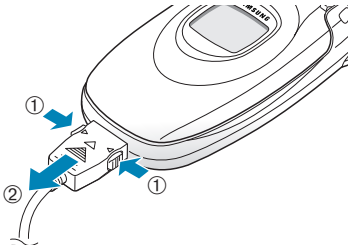
2. Plug the adaptor into a standard wall outlet.

   The battery will begin charging immediately, and the service light will light and remain red while the Battery Status icon animates.

3. The service light indicates the status of the battery being charged.

   - **Red**: the battery is charging.
   - **Green**: the battery is fully charged.
   - **Yellow**: the battery is not correctly connected or operating in a too low or too high temperature.

4. When charging is finished (the light turns to green), unplug the adaptor from the power outlet and from the phone.



Low Battery Indicator

You can easily tell if your battery needs to be recharged by checking the Battery Status icon ( ) in the upper-right corner of your phone's display. The presence of all three bars indicates a full charge, two bars indicates a smaller charge, and one bar indicates an even smaller charge. No bars (the battery icon is empty) means your battery must be charged.

When the battery charge level gets low, the battery sensor blinks an empty Battery Status icon ( ) and sounds a warning tone. If the battery level gets too low, the phone will automatically turn off. Unfortunately, if this happens, you'll lose whatever you are doing and your phone call will cut off. Watch the Battery Status icon and make sure your battery is adequately charged.

Switching the Phone On/Off

1. Press and hold down until the power-on image is displayed to switch the phone on.

   The service light on the phone flashes, and an alert sounds. When the system locates services, the greeting message displays along with the date and time. You can now place and receive calls.

   If the phone is out of service, the No Service icon ( ) appears on the display. In this case, you cannot make and receive calls. You can try again later when service is available.

Note: You can change the display language. To change the language, use the **Language** menu option (**MENU 0-4**); for further details, refer to page 106.

2. When you wish to switch the phone off, hold down more than two seconds.

WARNING!
Do not switch on the phone when mobile phone use is prohibited or when it may cause interference or danger.

Note: As with any other radio-transmitting device, do not touch the antenna unnecessarily when the phone is switched on. Contact with the antenna affects the call quality and may cause the phone to operate at a higher power level than otherwise needed.

Your Phone's Mode

Standby Mode

Standby is the most basic state of your phone. The phone goes into Standby mode after you turn it on or whenever you briefly press . When your phone is in Standby mode, you will typically see the greeting message and current date and time. If you enter a phone number, you can press to dial it or press to save it in the internal phonebook.

Press at any time to return to Standby mode. Be careful; if you are on a call when you press , you will disconnect the call and return to Standby mode. Press CLR several times or hold it down to return to Standby mode without ending the call.

Talk Mode

You can place and answer calls only when your phone is turned on. During a call, the phone is in talk mode. While you are in Talk mode, pressing gives you a list of options. See page 35 for details on the options.

Power Save Mode

Your phone comes with a Power Save feature that will automatically be activated if your phone is unable to find a signal after 10 minutes of searching. While this feature is active, the phone's battery charge is conserved. The phone will automatically recheck for a signal periodically. To manually force the phone to recheck for a signal, press any key. A message on the display lets you know when your phone is operating in Power Save Mode.

Lock Mode

When you lock your phone using the **Lock Phone** menu option (**MENU 0-9-1**) in the **Setup** menu, you cannot use the phone. In lock mode, you can receive messages and calls, but you cannot place an outgoing call until you unlock the phone. To unlock the phone temporarily, you need to enter the lock code.

For details about locking and unlocking your phone, see page 111.

Call Functions

Making a Call

In Standby mode, key in the area code and phone number and press .

Note: If the **Auto Retry** option (**MENU 0-3**) have been enabled (see page 106), the phone automatically retries to make the call when the line is busy or the remote person does not answer you.

While entering a number, press to use the following menu options:

Talk: places a call to the number.

Save: allows you to save the number in the phonebook.

Find: allows you to find a number from the phonebook.

Hard Pause: enters a hard pause.

2sec Pause: enters a 2-second pause.

Notes:
- When you enter a number corresponding to a phonebook location, the **Speed Dial** option is available. For details about speed dialing, see page 27.
- When you enter four digits, the **4-digit Dial** option is available. For details about four-digit dialling, see page 28.

Correcting the Number

To clear ...	Press ....
the last digit displayed	CLR .
the whole display	CLR for more than one second.

Ending a Call

When you want to finish your call, briefly press or close the folder.

If you end the call by pressing , the call time, or the length of the call, displays briefly and the phone returns to Standby mode.

Emergency Dialing

You can place emergency call from your priority number list even if your phone is locked or all outgoing calls are restricted. For further information on emergency numbers, refer to page 112.

Redialing the Last Number

To redial the last call you made, press twice quickly.

Your phone stores the last 10 outgoing calls. To recall any of these numbers:

1. If there are any characters on the display, press to return to Standby mode.

2. Press . The list of the outgoing calls is displayed.
3. Press or to scroll through the list until you select the required name or number.
4. Press to dial the number displayed.

Making a Call from the Phonebook

You can store the phone numbers called regularly in memory, which is called the phonebook. You then simply recall the number to dial. For further information about the phonebook feature, refer to page 56.

Prepend Dialing

The prepend option lets you add digits such as area codes and network feature activation codes to a phone number that is in your call logs or phonebook.

To prepend existing phone numbers in the Call Logs:

1. Access outgoing call logs by pressing or phonebook entries by referring to page 56.
2. Scroll to the required number.
3. Press to access the options.
3. Press 3 DEF to select the **Prepend** option.
4. Enter the area code or feature code.
5. Press to dial the number.

Speed Dialing

Once you have stored phone numbers in the phone book memory, you can dial them easily whenever you want.

Note: When several numbers are saved in one location, the first number you entered is automatically specified as a speed dial number. To change the speed dial number, use the **Edit** option under **Find** menu on page 57.

One-Touch Dial

Memory locations 001 through 009 are special one-touch locations. You can dial the phone numbers stored in the phonebook memory from 001 through 009 simply by pressing one key.

Press and hold the third digit of the memory location containing the number to be dialed.

For example: Location no. 009
Press 9 WXYZ and hold.

The number (and name) stored is displayed, then dialed.

Two-Touch Dial

Memory locations 010 through 099 are special two-touch locations.

Press the second digit briefly, then hold down the third digit of the memory cell.

For example: Location no. 023
Press 2 ABC briefly and hold down 3 DEF.

The number (and name) stored is displayed, then dialed.

Three-Touch Dial

Memory locations 100 through 250 are special three-touch locations.

Press the first and the second digit briefly, then hold down the third digit of the memory cell.

For example: Location no. 123
Press 1 and 2 ABC briefly, then hold down 3 DEF.

The number (and name) stored is displayed, then dialed.

Four-digit Dialing

You can enter any four consecutive digits of a phone number in the phonebook and your phone can dial the entire number for you. This feature is convenient if you have the number memorized, but you have forgotten where the number is stored in your phonebook.

Enter the last four digits of the desired phone number. Press and select the **4-digit Dial** option. The phone automatically dials the phone number matching the four digits.

If the phone found more than one number that contains those four digits, it displays the first number. Scroll through the list using or to select the desired number, and press to dial the number.

Pause Dialing

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

There are two kinds of pauses that can be entered on your phone:

- Hard pause: A hard pause stops the dialing sequence until you press .
- 2-second pause: A two second pause stops the dialing sequence for two seconds and then automatically sends the remaining digits.

Note: Multiple two second pauses can be entered to extend the length of a pause. For example, two consecutive 2-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 Phonebook Entry

To store a number in your phonebook that contains pauses:

1. Enter the phone number you want to store, such as the bank's teleservice phone number.
2. Press to access the options.

3. Select the required pause type.
   - Press 4 for **Hard Pause**. The letter “p” displays, meaning that a hard pause will occur at that point in the dialing sequence.
   - Press 5 for **2sec Pause**. The letter “T” displays, meaning that a “Timed” pause will occur at that point in the dialing sequence.
4. Enter the digits that need to follow the pause, such as your account number.
5. Repeat steps 2 and 3 to add more pauses and numbers, if necessary.
6. Store the number in your phonebook as you normally would by pressing and following from Step 2 on page 58.

Pause Dialing from a Stored Phonebook Entry

1. Dial the number of the service from the phonebook.
2. Wait for the appropriate prompt from the system you are calling.
3. When prompted, press to send the DTMF (Dual-Tone Multi-Frequency) number that follows your hard pause.

   “SENDING DTMF” flashes on the display and the transmitted tone sounds.
4. Repeat from Step 2, if necessary.

Manual Pause Dialing

You can enter pauses manually during the dialing process.

1. Enter the phone number of the service you want to call, such as a bank’s teleservice phone number.
2. Press to access the options.
3. Select the required pause type.
   - Press 4 for **Hard Pause**. The letter “p” displays, meaning that a hard pause will occur at that point in the dialing sequence.
   - Press 5 for **2sec Pause**. The letter “T” displays, meaning that a “Timed” pause will occur at that point in the dialing sequence.
4. Enter the number to be sent after the pause and then press to dial the first number.
5. To transmit the additional number after connecting, press again at the prompt for the hard pause, or wait until the number is automatically sent for the 2-second pause.

Voice Dialing

Before using the Voice dialing feature, you must record the name and number in your phone using the **Voice Dial** menu. For further details, see page 88.

1. To place a call, press and hold down or open the folder, depending on the **Set Active** menu option (**MENU 6-1-4**). See page 90.

2. At the voice prompt, say a name into the microphone.

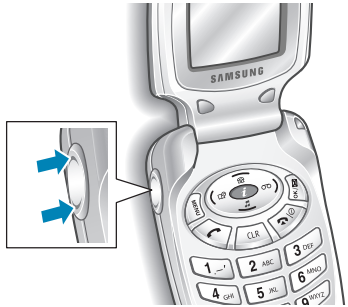
   - If the phone recognizes the name, the phone attempts a connection.
   - If the phone does not recognize the name, the screen prompts for the name again.
   - If the phone is unable to recognize the name after two attempts, the message **Cannot Recognize Name. Please check name** is displayed. Try the call again later, or check the recorded name.

3. The phone dials the corresponding number.

Adjusting the Volume

During a call, if you want to adjust the voice volume, use the volume keys on the left side of the phone.

Press to increase the volume level and to decrease the level.



In Standby mode, you can adjust the key beep volume using these keys.

Answering a Call

When somebody calls you, the phone rings and the phone icon is displayed in the middle of the display.

If the caller can be identified, the caller's phone number (or name if available in your phonebook) is displayed.

1. To answer a call, press .

   If the **Call Answer**menu (**MENU 0-2**) is set to **Any Key**, you can answer a call only by pressing any key except for .

2. To end the call, press or simply close the folder.

Notes:
- You can answer a call while using the phonebook or menu functions. The current operation will be interrupted.
- If you cannot answer an incoming call, you can set the phone to answer the call by a greeting message and record the caller's message. For further information, see page 94.

Options During a Call

Your phone provides a number of functions that you can use during a call. As many of these options are network services, you may not be able to use all of them at all times.

Press during a call to access the following options:

Phone Book: allows you to access the **Phone Book** menu.

Mute/Quit: allows you to switch your phone's microphone off, so that the other party cannot hear you.

Example: You wish to say something to another person in the room but do not want the other party to hear you.

Silent/Quit: does not transmit the key tones. It allows you to press keys without hearing annoying key tones during a call.

Send Tel #: sends the telephone number to the other caller.

Calls: allows you to access the **Calls** menu.

Messages: allows you to access the **Messages** menu.

Planner: allows you to access the **Planner** menu.

Using Caller ID

This feature tells you who is calling you by displaying the caller's number when the phone rings. If a caller's name and number are stored in your phonebook, the corresponding name is also displayed. If you call someone who has this feature, your phone number will be displayed on the their phone.

Note: Contact your service provider to setup the Caller Line Identification service.

Viewing Missed Calls

If you fail to answer a call for any reason, the phone indicates the missed call by displaying a text notification on the screen. Additionally, if caller information is available, the screen displays the phone number of the most recent missed call.

Press to call the displayed number or to save the number in the phonebook.

To view missed calls, access the **Missed** menu option (**MENU 1-3**) on page 54.

Quickly Switching to Silent Mode

Silent mode disables all sounds on the phone. This feature is best used in situations where the phone might disturb others, such as in a meeting, at a library or in a theater. You can switch your phone to silent mode with one touch of a key.

In Standby mode, to enter silent mode, press and hold down until "Enter! Silent Mode" and the Vibration indicator ( ) are displayed.

To exit silent mode and reactivate the previous sound settings, press and hold down again until "Exit! Silent Mode" appears. The Vibration indicator is no longer displayed.

Call Forwarding

This feature provides the option of forwarding incoming calls to another phone number, even while your phone is turned off. Activating Call Forwarding does not affect outgoing calls made from this phone. Contact your service provider to activate Call Forwarding.

Call Waiting

Call Waiting lets you receive a second call during conversation. Your phone notifies you of a call waiting by beeping an displaying “Call Waiting.”

Your phone provides the option of turning the Call Waiting feature on and off (if you have subscribed to the service). Call Waiting is on by default in the phone. If you choose to have a undisturbed conversation, simply turn off the feature for the current call.

Note: Contact your service provider to activate the Call Waiting service.

To answer a waiting call:

1. To answer the call, press . The phone connects the calling party, and places the current party on hold.
2. Press again to switch between the two parties.

Note: If you do not respond to a Call Waiting notification, the phone will forward the call to voicemail or another number that you have set up. Contact your service provider for more information.

Three-Way Calling

This feature enables you to conduct conference calls with two separate parties at the same time. The phone records each party into the Outgoing Calls Log. Also, You are billed airtime for each outgoing call separately.

Note: Contact your service provider to activate Three-Way Calling.

To place a Three-Way call:

1. During a conversation, press . The phone places the other party on hold.
2. Enter the phone number for the third party, and then press . The phone dials the third party.
3. When you are connected to the third party, press again to begin your three-way call.

If one of the callers (not you) hangs up, you and remaining caller stay connected. If you initiated the call and you hang up first, all three parties are disconnected.

Entering Text

At many times when using your phone, you will need to enter text; for example, when storing a name in the phonebook, creating your personal greeting or scheduling events in your calendar. You can enter alphanumeric characters into your phone by using your phone's keypad.

You are provided with the following text input modes:

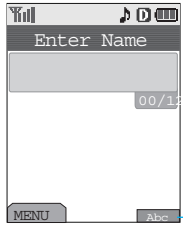
- **T9(English)**: This mode allows you to enter words with only one key press per letter. Each key on a keypad has more than one letter - a single press on 5 could be J,K or L. The T9 mode automatically compares your key presses to an internal linguistic database to determine the correct word. The T9 mode requires far fewer keystrokes than the traditional multi-tap method, Alpha mode.
- **Alphabet**: This mode allows you to enter letters by pressing the key labeled with the desired letter once, twice, or three times until the letter appears on the display.
- **Symbol**: This mode allows you to enter special characters.
- **Number**: This mode allows you to enter numbers.

Note: T9 mode supplies an appropriate language database as your language setting menu (**MENU 0-4**).

Changing the Text Input Mode

When you are in a field that allows characters entry, you should notice the text input mode indicator on the display.

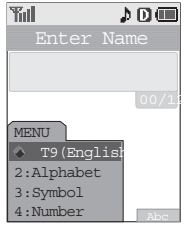
Example: Entering a name for a phonebook entry



Text input mode indicator

To change to another text input mode:

1. Press .



2. Scroll to the mode by pressing or .
3. To select the highlighted mode, press .
   If you want to exit the menu without changing to a new mode, press .
4. You will find the selected text input mode indicator on the display.

T9 (English) Mode

To type a word, press keys corresponding to the letters you need. Remember the following as you are typing:

1. Press keys on the handset just once per desired letter. For example, to enter "Hello," press 4 GHI, 3 DEF, 5 JKL, 5 JKL and 6 MNO.

   The word you are typing appears on the display. It may change with each key press.

3. Type to the end of the word before editing or deleting any keystrokes.

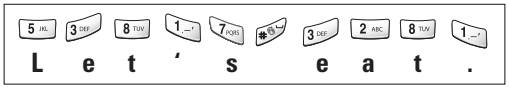
4. Put a space between each word by pressing #.

   If the word that appears on the display is not the word that you desire, press 0 one or more times to display alternate word choices for the keys you have typed. For example, both "of" and "me" have the sequence of 6 MNO and 3 DEF. The phone displays the most commonly used choice first.

5. Continue entering the next word.

Smart Punctuation

Periods, hyphens, and apostrophes are available by pressing 1. The T9 applies rules of grammar to insert the correct punctuation. Notice that 1 is used twice in this example to display two punctuation marks:



Including a Number

You can include a number between letters without exiting the T9 input mode. Press and hold the desired number key.

Changing the Case

Your phone offers three cases;

- T9 Word: initial letter is capitalized
- T9 WORD: all letters are capitalized
- T9 word: all letters are lower case

Press * one or more times to display the appropriate case indicator, and begin typing normally.

Another Usages

- Press # to insert a space.
- To move the cursor to the left or to the right through your text, press (or).
- Press CLR one or more times to delete the letters one by one to the left. Press and hold CLR to clear the display.

Alphabet Mode

When typing in the Alpha mode, you need to press the keys labeled with the required letter:
-Once for the first letter
-Twice for the second letter
-And so on.
For this reason, this method is called multi-tap typing.

For example, you press 2 ABC three times to display the letter “C” and 5 JKL two times to display the letter “K”.

The cursor moves to the right when you press a different key. When entering the same letter twice or a different letter on the same key, just wait for a few seconds for the cursor to move to the right automatically, and then enter the next letter.

Refer to the table below for the list of characters assigned on each key.

Key	Characters in the Order Displayed								
1	.	,	-	?	!	’	@	:	1
2 ABC	A	B	C	2					
3 DEF	D	E	F	3					
4 GHI	G	H	I	4					
5 JKL	J	K	L	5					
6 MNO	M	N	O	6					
7 PQRS	P	Q	R	S	7				
8 TUV	T	U	V	8					
9 WXYZ	W	X	Y	Z	9				
0	0								

(Caps Lock mode)

Changing the Case

Your phone offers three cases;
- Abc : initial letter is capitalized
- ABC : all letters are capitalized
- abc : all letters are lower case

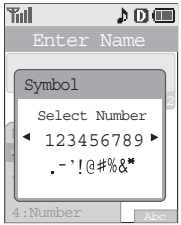
Press * one or more times to display the appropriate case indicator, and begin typing normally.

Another Usages

- Press # to insert a space.
- To move the cursor to the left or to the right through your text, press (or).
- Press CLR one or more times to delete the letters one by one to the left. Press and hold CLR to clear the display.

Symbol Mode

Symbol mode enables you enter symbols.



You can display more symbols by pressing or .

Press the key corresponding to the desired symbol. The phone automatically switches back to the text entry mode used just prior to selecting the Symbol mode.

Number Mode

The Number mode enables you to enter numbers. Press the keys corresponding to the desired digits, and manually switch back to text entry mode of choice.

Using the Menus

This phone offers a range of functions that allows you to tailor the phone to your needs. These functions are arranged in menus and submenus.

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

Accessing a Menu Function by Scrolling

1. In Standby mode, press to access menu mode.
2. Scroll with the navigation keys to reach the desired main menu; for example, **Setup**. Press to enter the menu.
3. If the menu contains any submenus; for example, **Language**, find the one you want by scrolling with or . Press to enter the submenu.

   If the menu you have selected contains submenus, repeat this step.
4. Scroll with or to find the setting of your choice.
5. Press to confirm the chosen setting.

Notes:
- You can return the previous menu level by pressing .
- You can exit the menu without changing the menu settings by pressing .

Accessing a Menu Function by Using its Shortcut

The menu items (menu, submenus and setting options) are numbered and can be accessed quickly by using their shortcut numbers.

Note: The numbers assigned to each menu function are indicated on the list on page 49.

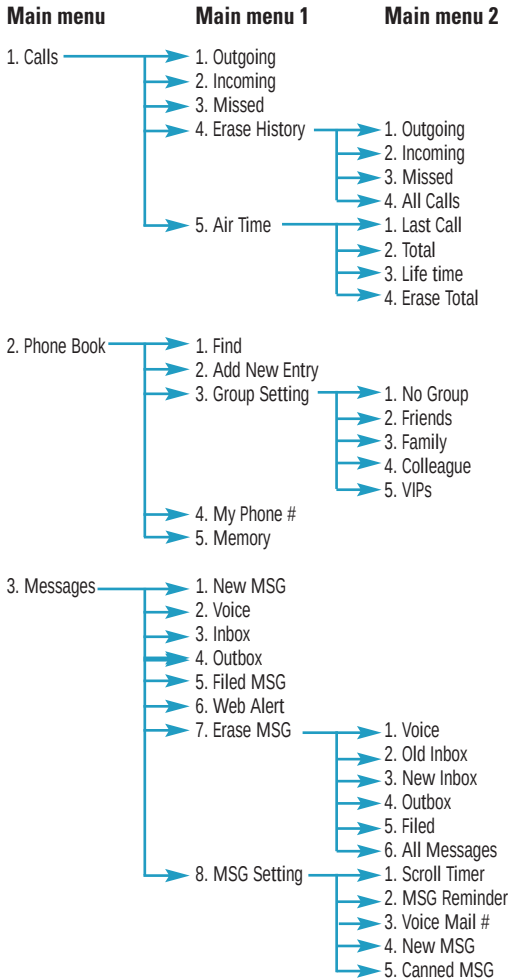
1. In Standby mode, press to access menu mode.
2. Within three seconds, key in the first digit of the shortcut number. Repeat this for each digit of the shortcut number.

   Example: Accessing the **Language** menu option

   Press 0 and 4.

   0 for **Setup**, **4** for **Language**.
3. Find the setting of your choice by pressing or .
4. Press to confirm the chosen setting.

List of Menu Functions



Main menu	Main menu 1	Main menu 2
4. Wireless Web	1. Get In Web	
	2. Prompt	
5. Planner	1. Today	
	2. Scheduler	
	3. Task List	
	4. Memo Pad	
	5. Alarm	
	6. Calculator	
	7. World Time	
	8. Count Down	
	9. Set Time	
6. Voice Tools	1. Voice Dial	1. Record
		2. Review
		3. Erase All
		4. Set Active
	2. Voice Memo	1. Record
		2. Review
		3. Erase All
	3. Voice Answer	1. On/Off
		2. Inbox
		3. Setting
7. Sounds	1. Ringer Volume	1. Calls
		2. Messages
		3. Alarms
	2. Ringer Type	1. Voice Calls
		2. Messages
		3. Data/Fax In
		4. Schedule
	3. Alerts	1. Minute Beep
		2. Service Alert
		3. Connect
		4. Disconnect
		5. Fade
		6. Roam
	4. Roam Ringer	
	5. Key Beep	
	6. Tone Length	
	7. Power On/Off	

Main menu	Main menu 1	Main menu 2
8. Display	1. Menu Style	
	2. Wallpaper	
	3. Banner	
	4. Backlight	
	5. Dual Clock	
	6. LCD Contrast	
9. Games	1. Push Push	
	2. Puzzle World	
0. Setup	1. Auto Answer	
	2. Call Answer	
	3. Auto Retry	
	4. Language	
	5. Set NAM	
	6. Set System	
	7. Data/Fax	
	8. Version	
	9. Security	1. Lock Phone
		2. Change Lock
		3. Restriction
		4. Emergency #
		6. Erase Pbook
		7. Reset Phone
#. Camera	1. Take a Picture	
	2. Photo Album	

Calls

You can use the **Calls** menu to:

- View and dial the last outgoing, incoming or missed numbers.
- Erase the numbers in the call log memory.
- View the length of calls.

Outgoing

MENU 1-1

Note: You can also access this menu by pressing in Standby mode.

The phone stores the last 10 calls you dialed. When you access this menu, the list of the outgoing calls is displayed.

1. Press or to find the desired number (or name if it is saved in the phonebook).
2. Press to select the highlighted number.
   The dialed number (or name if it is saved in the phonebook) is displayed along with the date and time when the call was made.
3.

To...	Press...
place a call to the selected number	.
use the options	. For details about the options, see the following page.
exit the call log	.

When you press on the call log list, the following options are available:

Talk: dials the selected number.

Save: (available when the number is not stored in your phonebook) allows you to save the number in the phonebook.

Show Entry: (available when the number is stored in your phonebook) displays the detailed information stored in the phonebook entry, such as a name, memory location, numbers, speed dial number and other settings.

Prepend: allows to add an area code or feature code to the number before calling the number.

Incoming

MENU 1-2

This option lets you view the last 10 calls you received (if you are subscribed to the Caller Line Identification service). When you access this menu, the list of the incoming calls is displayed.

For further information about scrolling through the list and accessing a call log, see “Outgoing” on page 52.

Missed

MENU 1-3

If the Caller Line Identification service is available (contact your service provider), your phone keeps a list of 10 incoming calls that you failed to answer.

For further information about scrolling through the list and accessing a call log, see “Outgoing” on page 52.

Erase History

MENU 1-4

You can erase the entries stored in each of the three call logs or all three logs at once.

When you see a confirming message, select **YES** to erase the selected log or all logs. If you want to cancel the selection, select **NO** .

Air Time

MENU 1-5

Your phone records the amount of air time, or talk time used. Using this option, you can view the number of the calls to or from your phone, and the air time for all calls. You can easily erase the air time record at any time. This option is convenient for estimating your usage.

Note: This feature is not intended for billing purposes.

The following options are available:

Last Call: shows the air time of the last call.

Total: shows the number of all calls made to and the total duration of the calls since the air time counter was last set to zero by using the **Erase Total** option.

Life time: shows the number and total duration of all calls made to or from your phone since the phone was shipped from the factory.

Erase Total: erases the “Total” air time measurement and resets the air time counter.

Phone Book

The Phone book allows you to store frequently used phone numbers and the associated names in your personal directory to make it easy for you to make a call without having to remember or enter the phone number. You can store up to 250 entries, including E-mail address and URL address.

Find

MENU 2-1

This option allows you to find an entry in the phonebook.

Note: You can access this menu by pressing in Standby mode.

1. Press or to scroll to the desired method.
   - **By Name:** enter the first few letters of the name you want with the desired Input mode. Then the phonebook entries are listed starting with the first entry matching your input.
   - **By Entry:** enter the location number of the number your want to find, using the numeric keys.
   - **By Group:** press and select the group containing the entry you want to find, using or . The phone lists all entries in the selected group.
2. If necessary, press or to scroll to the entry you want.
3. When the desired entry is highlighted, press to access the entry. The phone shows the details on the name.
4.

To...	Press...
Place a call to the selected number	.
Use the options	. For details about the options, see below.

When you press in the details display, the following options are available:

Talk: allows you to place a call.

Edit: allows you to edit the phone number, name, location number, label category and so on.

Prepend: allows you to add digits, such as area codes, ahead of the selected number before dialing.

Erase: erases the selected entry.

Add New Entry

MENU 2-2

This menu allows you to store a number with a name in your phonebook. You can save a person's various numbers, such as workplace number, mobile number and fax number, into one entry. A phonebook entry can contain up to six number, one in each category.

Creating a New Entry

1. Enter a phone number and press .
2. Press to confirm to add a new entry. If you are creating an entry for the first time, skip to Step 3.
3. Select an icon to identify the category of number to be stored using the navigation keys and press .
4. Enter a name. For further details about entering characters, see page 40.
5. Press . The displays shows the following options for the entry.
   - **Enter Name**: allows you to enter the desired name of up to 12 characters. For further information on how to enter text, see page 40.
   - **Entry**: the first available location displays. If necessary, enter the location number using the number keys.
   - **Home/Work/Mobile/Pager/Fax/No label**: allows you to store more numbers for each category.
   - **Speed dial**: allows you to select one of the stored numbers for speed dialing.

   - **E-mail**: allows you to store an e-mail address of the person.
   - **URL**: allows you to store a URL address.
   - **Group**: allows you to assign an entry to a caller group. To remove the entry from a group, select **No Group**.
   - **Name Ringer**: allows you to select the unique ringer to be used for alerting you to an incoming call from the person.
   - **Birthday**: allows you to save the date of the person's birthday.
   - **Secret**: allows you to prevent a number from being displayed when it is accessed or dialed by unauthorized users. When this option is set to **On**, only people with your phone's lock code can view the secret number.
   - **Image**: allows you to select an image to be used for alerting you to an incoming call from the person.
6. To select an option, scroll to it by pressing or . Press to enter required information or or to change the setting.
7. When you finish setting the options, press to save the entry.

   After storing, the phone displays the phonebook entry number that you just saved and the remaining slots you can further store phone numbers.

Storing Phone Numbers at Call's End

To store a phone number at the end of your call:

1. Press to end the call. The call time and the phone number display.
2. To store the phone number, press .
3. To complete storing the number, follow from Step 2 in "Creating a New Entry" on page 58.

Adding a Number into an Existing Entry

1. Enter a number and press .
2. Scroll to the entry in which you want to add a number by pressing or , and press .
3. To complete storing the number, follow from Step 3 in "Creating a New Entry" on page 58.

Group Setting *MENU 2-3*

This option allows you to edit the settings for the caller groups.

1. Scroll to the group you want to edit using or .
2. Press . The following options are available:
   - **Rename**: allows you to change the group name.

   - **Color LED**: allows you to select a color of the service light to indicate when a call comes in from any members of the group.
   - **Sounds**: allows you to select a ringer melody to indicate when a call comes in from any members of the group.
3. Enter a new group name. For further details on how to enter characters, see page 40.
4. Press to save the setting.

My Phone Number *MENU 2-4*

This option displays the phone number of the phone currently being used.

Press to return to the previous menu level.

Memory *MENU 2-5*

This option shows the memory status for the Phone book and the Voice Dialing entries.

Messages

Your phone can receive voicemail notification, text messages, and pages. Also, your phone can send text messages and pages if you system supplier provides this service.

When the phone receives a message, an alert sounds, a text notification displays along with the name and phone number of the caller if available. The New Message icon ( ) remains on the screen until you read the new text, numeric page or web message, or you listen to the new voicemail messages.

Messages are received even when your phone is in Lock mode. However, the screen will not display information about the message. To access a message, you must unlock the phone.

If you are on a conversation and you receive an incoming message, your phone automatically mutes the ringer. This is to avoid ringing in your ear while you are trying to converse.

New Messages *MENU 3-1*

You can create short text messages of up to 156 characters and send it to other mobile phones.

Note: Message transmission is only supported when your phone is operating in digital networks and if service is provided by your service provider.

1. Enter a destination number using the numeric keys and press .

   Pressing allows you to search your phonebook for a number.

2. Enter the message contents. For further details about how to enter text, see page 40.

   When you press , the **Canned MSG** option is available to allow you to use ten canned messages preset in the **MSG Setting** menu; for details, see page 70.

3. When you finish entering, press . The following options are displayed. To select a option, press or and press .

   - **Send To**: edits the send-to phone number.
   - **Message**: edits the message contents already entered.
   - **Call Back#**: edits the callback number. The default call back number is preset to your phone number.
   - **Options**: displays the following setting options. Scroll to an options using or and change the setting using or .

     - **Priority**: select the message priority.
     - **Validity**: select how long your message is valid at the SMS center while attempts are made to deliver them to the recipient.

- **Send Later**: select how long the delivery of the message will be delayed at the SMS center, if you do not want to send it immediately.
- **Delivery ACK**: turn the delivery acknowledgement feature on or off. When this is activated, the network informs you whether or not your message has been read by the recipient.
- **Message Save**: set if the phone will save the message in the Outbox after transmission. When you select **Prompt Save**, the phone will ask if you want to save the message.

Note: **Call Back#**, **Delivery ACK**, **Message Save** options can be preset via the **New MSG** menu option (**MENU 3-8-4**); for details, see page 71.

- **File Msg**: stores the message contents in the **File MSG** menu for future use.

4. After changing the setting options, press to send the message.

Note: Closing the folder or pressing before the message is sent will terminate the transmission.

Voice

MENU 3-2

When the voice mail list displays, press or to scroll to the desired voice message and press to review the message.

If multiple new voice mails are received but not reviewed, the information of the last one will be displayed. The information display includes the time/date stamp, number of new voice mails and callback number.

While reviewing the message, press to access the following options.

Listen: allows you to listen to the voice message. The phone will automatically dial your voice mail center.

Clear Icon: clears the New Message icon and resets the counter for new voice mail, if necessary. The system resets the counter automatically after you listen to all new messages.

Note: You can quickly access the voicemail center by pressing and holding in Standby mode.

Inbox

MENU 3-3

Your phone can store up to 99 messages all together in the inbox, outbox and filed message. If the memory is full, a warning message is displayed and the phone rejects additional messages until you erase the obsolete ones.

When you access the **Inbox** menu option, the message list appears.

To view details, press or to scroll to one of the messages in the list and press . If necessary, press or to scan through the contents.

While viewing a message, press to use the following options:

Reply: allows you to send a reply message to the sender.

Forward: allows you to forward the message to another person.

Delete: deletes the message from the Inbox.

Talk: places a call the call back number.

Save: allows you to save the call back number of the message.

Outbox

MENU 3-4

When you access the **Outbox** menu option, you can see the message list. The red message number means that it is a urgent message.

To review a message, press or to scroll to it and press . If necessary, press or to scan through the contents.

While reviewing a message, press to use the following options:

Resend: allows you to resend the message. For further information about sending a message, see page 62.

Delete: deletes the message from the Outbox.

Filed Messages

MENU 3-5

Your phone can store draft messages that are yet to be sent in the filed message folder. If you save the message contents using the **File MSG** menu option before sending it (see page 64), you can access them using this menu.

To review a stored message. press or to scroll to the desired message and press .

While reviewing a message, press to use the following options:

Resend: allows you to edit the message and send it to another destination.

Delete: deletes the message.

Web Alert

MENU 3-6

When you receive a new Web message, your phone notifies you and displays the following options. To select an option, scroll to highlight it and press .

View: allows you to access the Web Inbox to display the web message.

Clear: you can press CLR if you do not wish to read the message at this time.

If you select **Clear**, the message is stored in the **Web Alert** menu.

When you access this menu, you can see the web message list. Press or to scroll to one of the messages in the list and press . The phone starts the Web browser and displays the message contents. If necessary, press or to scan through the contents.

Erase Messages

MENU 3-7

Using this menu option, you can erase all messages in each of five message boxes; Voice mail box, old Inbox, new Inbox, Outbox and Filed message box.
You can also erase all of the messages at one time.

Message Setting

MENU 3-8

Via this menu, you can preset several options for using the message feature.

Scroll Timer

If an incoming message is too long for the display, the phone displays it by automatically scrolling the screen. You can set how often the phone scrolls the message to the next screen.

If you select **Off**, you need to scroll to the next screen manually using or .

MSG Reminder

When a message is received, the phone alerts you by sounding the selected ringer. You can set how often you want to be alerted. Selecting **Off** means the message alert does not sound, but the New Message icon ( ) will appear.

Voice Mail

All unanswered calls to your phone are automatically transferred to the voicemail center, even if your phone is off or in use. You can store the number of the voice mail center, using this menu.

New MSG

You can set up default settings for the options available when creating a new message. The following options are available:

Callback #: you can set the call back number. It is preset to your phone number at the factory.

Save Message: allows you to set whether you want the transmitted message to be saved in the Outbox or not.

- **Do Not Save**: the phone does not save the message.
- **Prompt Save**: the phone asks if you want to save the message or not.
- **Auto Save**: the phone automatically save the message.

Entry Method: you can select the text input mode between **Word** (T9 English) and **Alphabet** .

Delivery Ack: allows you to activate or deactivated the delivery acknowledgement.

Canned MSG

This menu option allows you to edit ten canned messages.

Scroll to one from the message list and press and change it as needed. For further details about entering characters, see page 40.

Wireless Web

About the Web Browser

Your phone comes equipped with a web browser which makes it possible for you to access the wireless web.

The web browser allows you to access up-to-the minute information through your phone. Browsing the wireless web through your phone is unlike using your computer; site providers have selected only the critical aspects of their sites to present to wireless phone users and they have removed most of the graphics.

Each time you start the web browser, the phone will connect to the wireless web and the Service icon ( ) will appear on the display. Any time this icon is visible on the display, you are connected to the wireless web and will be billed accordingly. Rates will vary according to your service option.

The web browser will end the connection after a certain period of network inactivity and will automatically reconnect as necessary. 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.

Get In Web

MENU 4-1

Note: The first time you use the Web Browser, you will go through a security setup process that takes 3 to 5 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.

1. Accessing the **Get In Web** menu connects your phone to the wireless web. You can also press in Standby mode.

   Note: If a reminder appears depending on your setting in the **Prompt** menu option (**MENU 4-2**), simply answer **Yes** or **No** using the soft keys (and).

2. Once connected, the home page or the last page visited will be displayed.

   The opening page when accessing the web browser is dependent on the wireless web service provider content.

3. To scroll through the screen, use or .

Exiting the Web Browser

To exit the web browser, simply press at any time.

If the **To End** or **Both** option is set in the **Prompt** menu (see page 78), you will be prompted whether you want to end the Browser call.

Using the Web Browser Soft Keys

At the bottom of the web browser display is a solid bar which contains browser commands. and are used to execute the commands. These two keys are called soft keys because their functions change depending on where you are in the web browser software.

Navigating the Web Browser

When you use the web browser, some keys on your phone operate differently than on a normal phone call. These keys are explained below. The web browser 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

Here's how the keys work in the Web Browser:

Navigation keys: Use these keys to scroll to and select browser options. The currently selected option is indicated by an arrow. You can also use them to move the cursor when editing text.

Left soft key: This is the left soft key used to execute the commands at the bottom left of the browser display.

Right soft key: This is the right soft key used to execute the commands at the bottom right of the browser display.

MENU key: The right soft key is used for secondary options or a menu of secondary options.

OK Key: The left soft key is used for selecting the highlighted item.

END Key: This key ends the web browser connection and returns the phone to Standby mode.

Clear Key: This key performs two important functions:

- Backs you up in the browser. Pressing it once backs you up one page. Pressing and holding this key backs you up to the home page.
- Clears out entered text or numbers. When entering characters, press this key to clear the last number, letter or symbol. Press and hold this key to completely clear the input field.

Numbered Keys 0 - 9: If the items on a page are numbered, you can use these keys to select them.

Volume Keys: These keys allows you to scroll up or down by a page or change the volume setting.

Using the Web Browser Menu

On the web browser, you can access the following options by pressing MENU .

Reload: reloads the current web page.

Home: takes you back at any time to the homepage of the wireless web service provider.

Bookmarks: allows you to load a bookmarked web page directly.

Mark Site: allows you to set a bookmark for most page; they can be accessed directly from any web page. Bookmarks save you time by reducing the number of steps required to access a given page.

About Openwave: provides you with information about Openwave and your version of the web browser.

Advanced: gives you access the the following advanced features.

- Show URL: displays the URL address of the site to which you are currently connected. It also enables you to declare the current site as the startup homepage.
- Homepage: allows you to change the startup homepage manually.
- Set WAP Proxy: allows you to configure the proxy settings required for connecting to the wireless web.

- Offline Service: Most applications are stored on a server that cannot be accessed outside your wireless coverage area. However, some applications can be stored in the cache of your phone, enabling you to use them offline. You can remove the associated site from the cache at any time.
- Outbox: stores outgoing requests from the browser so that they can be processed at a later date.
- Restart Browser: restarts the browser without exiting it.
- Encryption: this option is automatically set by the service provider. You do not need to change it.

Entering Text in the Web Browser

When prompted, you can enter letters, numbers or symbols using the same way as in phone mode. See page 40 for further information about how to enter characters.

Prompt

MENU 4-2

Your phone can be set to display a prompt each time you start or end a browser session or not to display the prompt.

The following options are available:

None: you will never see this prompt.

To Start: this is default setting. You will see the prompt when 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.

Planner

The Scheduler feature enables you to:

- Keep track of important dates and events
- Create a list of things to do
- Check the time in another part of the world
- Use the phone as a calculator

Today

MENU 5-1

You can schedule up to 9 events for the current day and up to 70 events in the calendar, indicating each event's start and end time. You can even have your phone's calendar alert you before an event commences. Events scheduled for future dates automatically appear on your Today events schedule on that day.

Scheduling a New Event

1. Enter your event contents and press . You can enter up to 32 characters. For more information about entering letters, see page 40.

2. Enter the start time and date using the numeric keys.

   You need to enter the time in 12-hour format. To select AM or PM, press 2 ABC for **A** (AM) or 7 PQRS for **P** (PM).

Note: You can move through the input field using the navigation keys.

3. Enter the end time and date using the numeric keys.

4. Select when an alarm will inform you of the event by pressing or . Selecting **No alarm** does not ring the alarm.

5. Press to save your event.

Viewing Your Schedule

The list of the events stored in the current day is displayed when you select the **Today** menu option (**MENU 5-1**).

While viewing the schedule list:

- Press to use the following options:

  Add New: allows you to add a new event.

  Erase : allows you to erase a selected event.

  Erase All: allows you to erase all of the events.

- To view details, press or to scroll to the desired event from the list and press . While viewing an event, the following options are available when you press .

  Edit : allows you to edit the current event.

  Erase : allows you to erase the current event.

Scheduler

MENU 5-2

This option allows you to view the current month, as well as a past or future month, in calendar format. On the calendar, the current day is boldfaced and days with scheduled events are indicated by a square.

Note: You can to quickly access this menu by pressing in Standby mode.

Scrolling Through the Calendar

- You can move up or down one day by pressing or .
- You can move right or left one week by pressing or .
- To display the next or previous month, press or .

On the calendar, press to use the following options:

View: allows you to view the scheduled events of the selected day.

Add New: allows you to add a new event on the selected day.

Creating a New Schedule

Select a day on the calendar, referring to “Scrolling Through the Calendar” above and follow the instructions in “Today” on page 79.

Task List

MENU 5-3

This feature allows you to enter up a list of tasks to be done and assign both a priority and a deadline to each task.

Creating a New Task

1. Enter the first task and press to confirm.

   You can enter up to 32 characters. For further details on how to enter characters, see page 40.

2. Enter the time and date by which the task needs to be done, by using the numeric keys.

3. Select high or low priority using or and then press to save the task.

Viewing a Task

The list of the tasks is displayed when you access the **Task List** menu option (**MENU 5-3**).

While viewing the task list:

- Press to use the following options:

  Add New: allows you to add a new task.

  Erase : allows you to erase a selected task.

  Erase All: allows you to erase all of the tasks.

- To view details, press or to scroll to the desired task from the list and press . While viewing a task, the following options are available when you press .

  Edit : allows you to edit the current task.

  Erase : allows you to erase the current task.

Memo Pad

MENU 5-4

This feature allows you to write down memos about any thing you need to remember.

Writing a New Memo

1. Enter the memo contents.

   You can enter up to 64 characters for each memo. For further details on how to enter characters, see page 40.

2. Press to save the memo.

Viewing a Memo

The list of your memos is displayed when you access the **Memo Pad** menu option (**MENU 5-4**).

While viewing the memo list:

- Press to use the following options:

  Add New: allows you to add a new memo.

  Erase : allows you to erase a selected memo.

  Erase All: allows you to erase all of the memos.

- To view details, press or to scroll to the desired memo from the list and press . While viewing a memo, the following options are available when you press .

  Edit : allows you to edit the current task.

  Erase : allows you to erase the current task.

Alarm Clock

MENU 5-5

This option allows you to set or release up to three alarms to ring at a specific time.

To set an alarm:

1. Select an alarm, **Alarm #1** through **Alarm #3**, and press .
2. Select **On** by pressing or .
3. Press and enter the required time and date for alarm to ring.

   You need to enter the time in 12-hour format. To select AM or PM, press 2 ABC for **A** (AM) or 7 PQRS for **P** (PM).
4. Press and select an alarm melody by pressing or .
5. Press and select an alarm type from **Daily** and **Once** by pressing or .
6. Press to save the alarm setting.

To stop the alarm when it rings, press any key.

To release an alarm setting, access it from the alarm list and select **Off**.

Calculator

MENU 5-6

Using this feature, you can use the phone as a calculator. The calculator provides the basic arithmetic functions; addition, subtraction, multiplication and division.

1. Enter the first number on the first line using the numeric keys.
2. Enter the operation for your calculation on the second line by pressing the navigation keys, according to the illustration on the display.
3. Enter the second number.
4. Repeat from Step 1 as many times as required.
5. To get the result, press .

   The result is displayed as the top number on the display.

Notes:

- To erase any mistakes or clear the display, press CLR .
- Use * to enter a decimal point and # to change the sign of a number to a negative (-).

World Time

MENU 5-7

This menu allows you to check the current time for 24 major cities around the world.

Select the city corresponding to your time zone by pressing the navigation keys one or more times. The local date and time are displayed.

You can view the daylight saving time by pressing .

Count Down

MENU 5-8

This menu helps you know how much time it takes for you to do something, or how many months, days, hours and minutes until a specific day arrives. You can create up to 9 counter using this menu.

Creating a New Counter

1. Enter the contents for your counter and press . You can enter up to 16 characters. For details about entering text, see page 40.

2. Enter the time and date from which you want to count down.

   You need to enter the time in 12-hour format. To select AM or PM, press 2 ABC for **A** (AM) or 7 PQRS for **P** (PM).

   Note: You can enter the years between 1980 and 2099.

3. Press to save the counter.

Viewing a Counter

The list of the counters is displayed when you access the **Count Down** menu option (**MENU 5-8**).

While viewing the counter list:

- Press to use the following options:

  Add New: allows you to add a new counter.

  Erase : allows you to erase a selected counter.

  Erase All: allows you to erase all of the counters.

- Press or to scroll to the desired counter from the list and press to view details. While viewing a counter, the following options are available when you press .

  Edit : allows you to edit the current counter.

  Erase : allows you to erase the current counter.

Set Time

MENU 5-9

To display the correct date and time on the idle screen or to use the Planner features, such as Today, Scheduler, Task List, Count Down, Alarm and World Time, you need to set the current time and date using this menu.

Enter the time and date using the numeric keys. The minute, hour, month and day each must be entered using 2 digits and the year requires all 4 digits. You need to enter the hour in 12-hour format. To select AM or PM, press 2 ABC for **A** (AM) or 7 PQRS for **P** (PM).

Voice Tools

In this menu, you can use the phone's voice features, allowing you to:

- dial a number by saying a associated name.
- record a voice memo.
- set the phone to answer a call and record the caller's message.

Voice Dial

MENU 6-1

When your phone is in digital mode, you can call up to 20 stored entries 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.

Record

This option allows you to record names and register numbers for subsequent voice dialing. The phone provides voice prompts and screen displays to guide you through the recording process.

1. Say the name you want to program at the prompt. The phone stores the name as a first sample.
2. Respond to the prompt by repeating the name after the beep. The phone stores the name as a second sample, and then prompts you to enter the phone number.
3. Enter the phone number by pressing the numeric keys and press .

Tips for Recording a Name

- Avoid recording similar names phonetically. If you record a similar name to the one already in memory, the phone requests another name.
- Speak clearly and naturally.
- The person who will use the phone should record the name. The phone does not recognize the name if the voice sounds differently.
- Avoid too long or too short name. Names with two to five syllables are recommended.
- If this feature does not work properly, erase the name, and record with another name.
- It is recommended to practice several times to obtain the best result.
- You can record up to 20 names. If you try to record more than that, the phone announces "Memory is full."

Review

When a list of your stored voice dial numbers displays, scroll to the desired entry and press . The recorded name plays audibly.

Erase All

This option erases all of the entries in the Voice Dial list.

Set Active

Voice Dialing is always active once you have programmed the phone to accept voice dialing entries and the associated phone numbers.

To place a call using voice dialing, simply press and hold in Standby mode and then say the name into the phone after you hear a prompt.

You can also initiate a voice dialing call by the following options:

[*] Only: enables voice dialing only by pressing and holding .

[*]/Folder: enables voice dialing by pressing and holding or by opening the folder.

[*] /EarMic: enables voice dialing by pressing and holding or by pressing and holding the button on your ear-microphone.

Voice Memo

MENU 6-2

Note: You can enter quickly this menu by pressing in Standby mode.

Record

You can record up to voice memos of 4 minutes in length in all. This feature shars the memory with Voice Answer and the amount of time for memos are dependant on the available memory less any callers' messages; for example, if your phone has the callers' messages of 4 minutes total, you cannot record any voice memo. When recording, a 60-second timer displays and an alert sounds to indicate when the recording time expires.

1. Record a memo by speaking to the microphone. The display shows the elapsed time.

   You can pause recording by pressing and then resume by pressing .

2. Press to end recording. The screen provides you with the following choices. Scroll to an option and press .

   - **Review**: allows you to review the voice memo. The screen displays the length of the memo along with the date and time.
   - **Rerecord**: allows you to rerecord the voice memo.
   - **Save**: allows you to save the voice memo and add a title.
   - **Quit**: allows you to quit the voice mem without saving.

3. When you are satisfied, select the **Save** option and press .

4. Enter a title for the memo and press to save.

Review

When a list of your voice memos is displayed, scroll to the desired memo and press . The following options are available:

Play: plays back the selected memo.

Erase: erases the selected memo.

Info: shows the detailed information on the memo, such as the title, the elapsed time, the memory size used for the memo and the time when the memo was recorded.

Erase All

This option allows you to erase all of the voice memos.

Voice Answer *MENU 6-3*

In case that you are not able to answer an incoming call, you can set your phone to answer an call with the predefined greeting message and record the caller's message. As this feature shares the memory with voice memos, the total length of messages is dependent on th available memory less any voice memos.

Note: The voice answer feature does not work when your phone is in analog mode.

On/Off

This option allows you to enable or disable answer mode.

Inbox

You can listen to the caller's messages recorded in your phone. When you access this option, the list of the recorded memos appears.

Note: If the phone has the caller's messages waiting to be checked, it displays the total number of the messages and the date and time when the last message was recorded. Pressing takes you to the Inbox.

1. Press or to scroll to the desired message and press to play it back.

   You can pause playback by pressing , and then resume by pressing .

2. If you want to access the following options, press .

   - **Play**: plays the selected message.
   - **Erase**: erases the selected message.
   - **Info**: shows the detailed information on the message, such as the caller's number (if identified), the elapsed time, the memory size used for the message and the time when it was recorded.
   - **Talk**: places a call the caller's number, if identified.

3. Press to back up one menu level.

Setting

You can change the settings for answer mode. The following options are available:

Greeting : Your phone provides you with a predefined greeting message to be played when a call comes in. Also, you can record your own greeting message.

To record a greeting message:

1. Select **Record** and press .
2. Wait until a prompt beep sounds and record a greeting message by speaking into the microphone.

   You can pause recording by pressing and then resume by pressing .
3. When recording is completed, press . The phone automatically saves and activates the message.
4. If you want to play back the currently selected message, highlight **Play** and press .

To enable or disable your own greeting message:

1. Highlight **Select** and press .
2. Select **My Message** to use your message or **Default** to use the default message.
3. Press to save the selection.

Note: If you use your own message as a greeting and then change to the default message, your message will be deleted.

Screening: allows you to enable or disable the screening speaker which allows you to listen to the caller's message while the caller is leaving it.

Wait time: allows you to set how long the phone waits before answering a call with the greeting message. The wait time can be set to **After 3 sec**, **After 5 sec** or **After 10 sec**. Selecting **OFF** means the phone plays back the message as soon as it receives the signal of an incoming call.

Sounds

You can use the **Sounds** menu to customize various sound settings, such as the:

- Ringer volume, type, and tone.
- Key beep and voice volume.
- Alert sounds and a ringer for the roaming calls.
- The ringer which sounds when the phone is switched on or off.

Ringer Volume *MENU 7-1*

This menu option allows you to adjust the ringer volume.

Calls: allows you to adjust the ringer volume for the incoming calls.

Messages: allows you to adjust the ringer volume for the messages.

Alarm: allows you to adjust the ringer volume for the schedule alarms.

Press the navigation keys to adjust the volume level or select the type. The following options are available:

- **Silent**: the phone does not sound a ring.
- **Vibrate**: the phone switches to vibration mode. An incoming call vibrates the phone.
- **1-Beep**: the phone sounds a beep.
- **Level 1** ~ **8**: adjust the volume level. The more bars, the louder.
- **High + Vib**: the phone rings in the highest volume level and then vibrates.

Note: When "Emergency call only" appears after ending an emergency call, the ringer volume for calls and messages is automatically set to Level 4.

Ringer Type *MENU 7-2*

This option allows you to set a unique ringer melodies for the following items:

Voice Calls: allows you to set a unique ring for incoming voice calls.

Messages: allows you to have a distinctive ring for voice mail, page, text message or web messages.

Data/Fax In: allows you to be alerted with a distinctive ring tone when you you receive data or fax calls through the phone. This is dependent upon your network.

Schedule: allows you to have a distinctive ring for a schedule alarm.

Select a unique ringer using the navigation keys. After you change it, it sounds for a few seconds.

Alerts

MENU 7-3

Your phone gives audible alerts (beeps) at a specified time to inform you that certain things have happened. The alerts only occur in your earpiece so the other party does not hear them.

The available alerts are:

Minute Beep: When this option is set to **On**, the phone sounds an alert 50 seconds before each elapsed minute to remind you of the length of the current call.

Service Alert: When this option is set to **On**, the phone sounds an alert when you exit service area or when you return to a service area.

Connect: When this option is set to **On**, the phone sounds the connect tone when your call is connected to the system.

Disconnect: When this option is set to **On**, the phone sounds the disconnect tone when a call is disconnected.

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

Roam: When this option is set to **On**, the phone sounds an alert when your phone starts roaming.

Roam Ringer

MENU 7-4

You can set the phone to use a distinctive ring for incoming roaming calls.

Choose **Distinctive** to use a distinctive ringer or **Normal** to use a normal ringer.

Key Beep

MENU 7-5

This menu option allows you to adjust the volume for the beep generated when you press a key.

Adjust the volume using the navigation keys or the volume keys on the left side of the phone.

Note: When "Emergency call only" appears after ending an emergency call, the key beep is automatically set to Level 4.

Tone Length

MENU 7-6

The tone length setting enables you to select **Short** or **Long** DTMF (dual-tone multi-frequency) tones.

DTMF tones are sent by your phone to access teleservices, such as a bank account. The system used by the bank or other service determines if you need short or long DTMF tones. If the service is digital, as most are, short DTMF tone will almost always work. However, some new systems and almost all older (analog) systems require you to use long DTMF tones.

Power On/Off

MENU 7-7

You can turn on or off the tone that the phone sounds when it is switched on or off.

Choose **On** to use a power on/off sound or **Off** not to use it.

Display

The Display feature enables you to:

- Change the display style of the menus.
- Create your own greeting, and select an animation to be displayed in Standby mode or when powered on or off.
- Set the length of time for backlight.
- View the version of your phone.

Menu Style

MENU 8-1

This options allows you to select the menu display style. You can chose between **Camera Style** and **Nature Style**.

Wallpaper

MENU 8-2

You can change the background image (wall paper) to be displayed on the idle screen.

Press or to scroll through the images available and press when the desired one is displayed.

Banner

MENU 8-3

This option allows you to set a banner message to be displayed at the bottom of the display in Standby mode.

1. If necessary, press CLR repeatedly to delete each letter of the old greeting. Press are hold CLR to clear the display.
2. Enter your banner message of up to 15 characters . For further information about how to enter letters, refer to page 40.
3. When you finish entering the message, press to save the new banner.

Backlight

MENU 8-4

You have several options for setting how the LCD backlight operates. Remember that backlight use drains your battery faster.

The following options are available:

Folder open: the backlight remains on when the folder is open.

30 seconds: the backlight switches on when you press a key or open the folder and switches off 30 seconds after that.

8 seconds: the backlight switches on when you press a key or open the folder and switches off 30 seconds after that.

Dual Clock

MENU 8-5

You can choose two time zones to be displayed when you select **Dual Clock** for the wall paper image; for details, see page 101.

To select time zones for the dual clock:

1. When **Location** is highlighted, press .
2. Select the time zone for the first clock by pressing or and press .
3. Select the time zone for the second clock by pressing or .
4. Press to save the selection.

To apply the daylight saving time:

1. When **Location** is highlighted, press or to display **DST**. Press .
2. Select **YES** to use the daylight saving time for the first clock or **NO** not to use.
3. Press and repeat Step 2 for the second clock.
4. Press to save the selection.

LCD Contrast

MENU 8-6

The menu allows you to adjust the brightness of the external LCD screen.
Select the desired Sub Contrast by pressing navigation key.

Games

This menu allows you to play two games; **Push Push** and **Puzzle World**.

1. Press select the game you wan to enjoy.
2. Press . The display shows the illustration of the key operation for the game.
3. To start Push Push, press .
   To start Puzzle World, press 1 or 2 .
4. Press to end the game and return to Standby mode.

Note: The key operation may vary depending on the selected game. Please use the onscreen help.

Setup

Many different features of your phone can be customized to suit your preferences.

Auto Answer *MENU 0-1*

This menu option is used only when the phone is connected to an optional hands-free car kit.

With this menu option activated, the phone automatically answers calls after a predefined time. This option is useful while driving, for instance.

To activate this feature, set how long the phone waits before answering. Select one from **After 5 sec**, **After 3 sec** or **After 1 sec**.

When this menu option is set to **OFF**, the phone answers an incoming call as soon as it receives the signal of the call.

Call Answer *MENU 0-2*

This menu option allows you to select how to answer

The following options are available:

Any Key: the phone answers when you press any key except for .

Folder Open: the phone answers when you open the folder.

SEND Key: the phone answers only when you press .

Auto Retry

MENU 0-3

When this menu option is activated, your phone will automatically retry the call up to 10 times when a connection fails.

To activate this feature, select how often the phone will automatically retry the call; **60 Second**, **30 Second** and **10 Second** are available.

Select **Off** deactivates this feature.

Language

MENU 0-4

This menu option allows you to change the language of voice prompts, menus and key input.

Choose the desired language from **English**, **Spanish** and **Portuguese**.

Note: This setting does not affect the web browser.

Set NAM

MENU 0-5

NAM stands for numerical assignment module, essentially your phone number. Your phone can have two NAMs. This means that you can have two phone numbers for using your phone and can quickly and easily switch your service back and forth between the two numbers.

If you change the NAM, the phone will turn off by itself and back on, or reboot, and acquire service using the new NAM setting.

Set System

MENU 0-6

The system selection feature of your phone enables you to choose how your phone will roam. Roaming is a feature which is only relevant in areas where there are usually at least two cellular service providers which are referred to as “A” and “B” and have valid roaming agreements. Your service provider will provide you information about this service or the best roaming method for you.

The following methods are available:

Pref A Only : In a wireless service area, there are usually two service providers which are referred to as A and B. Your service provider will provide you information about this when you setup service. With this setting, you will only be able to roam in the “A” network or system.

Pref B Only : This works just like the “A Only” seting except you will only be able to roam in the “B” network or system. To select the 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.

Standard : This option allows you to provide the best system automatically.

digital only : With this setting, the phone searches for the digital system only.

Data/Fax

MENU 0-7

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

To use digital data or fax services with your phone, you will need to obtain a digital data/fax kit from your service provider. This kit will contain the necessary cables, software, and user’s guide required for your to connect and use your phone with your computing device.

Note: The phone must be on a digital network to receive or send faxes and data.

The following options are available:

Voice Call Only: your phone receives voice calls only.

Fax in Only: your phone receives fax calls only.

Data in Only: your phone receives data calls only.

Receiving a Fax or Data File

To receive a fax or data, ensure that your phone is connected to your PC and is powered on. Select one of the Data/Fax options.

When you receive a fax call, set up the **Answer** mode in the Fax program on your PC and click on **Receive** and select one of the following:

- Automatic Receive (recommended)
- Manual Receive

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. The phone functions as a wireless modem to send the fax or data file to the number designated by your PC software.

Version

MENU 0-8

This option allows you to view the software and hardware versions of your phone. This feature is helpful if you have to the call customer care.

Security

MENU 0-9

Your phone provides many security options, including a user-programmable lock code and call restriction features.
The lock code is preset to “0000” at the factory.

Lock Phone

When the phone is locked, you cannot operate the phone until you enter the lock code.

The following options are available:

Unlocked: the phone remains unlocked.

On Power-Up: the phone locks automatically at the next time your phone turned on.

Lock Now: the phone locks immediately.

To place an emergency call, enter the number and then press . The phone recognizes three emergency numbers stored via the **Emergency #** menu (**MENU 0-9-4**).

To unlock the phone, press and enter the lock code. The phone returns to Standby mode.

Change Lock

This feature allows you to change your current lock code to a new one. The lock code is preset to “0000” at the factory.

Enter a new, four-digit lock code and then press .

Restriction

This feature allows you to restrict all of your outgoing calls.

Select **Yes** to restrict the calls or **No** to cancel the selection.

Emergency Number

Your phone provides the option of storing up to three emergency numbers. All emergency numbers can be manually dialed at any time, even when your phone is locked.

To store an emergency number, select an empty location and enter the desired number. Each number can be up to 32 digits long.

To make an emergency call in Lock mode, simply enter the emergency number and then press .

Erase Phonebook

This menu allows you to erase all of the numbers in your phonebook.

When a confirming message displays, select **YES** to clear the memory.

Reset Phone

Resetting the phone erases all of your saved selection in the user-selectable setting options and returns them to the factory default settings.

When a confirming message appears, select **Yes** to confirm. The phone reboots (turns itself off and back on) and then returns to Standby mode.

Health and Safety Information

Precautions When Using Batteries

Your phone is powered by a rechargeable Li-ion standard battery.

- Never use any charger or battery that is damaged in any way.
- Use the battery only for its intended purpose.
- If you use the phone near the network's base station, it uses less power; talk and standby time are greatly affected by the signal strength on the cellular network and the parameters set by the network operator.
- Battery charging time depends on the remaining battery charge and the type of battery and charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time, including talk time and standby time, is noticeably shorter than normal, it is time to buy a new battery.
- If left unused, a fully charged battery will discharge itself over time.
- Use only Samsung-approved batteries and recharge your battery only with Samsung-approved chargers. When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, since overcharging may shorten its life.
- Extreme temperatures will affect the charging capacity of your battery: it may require cooling or warming first.
- Do not leave the battery in hot or cold places, such as in a car in summer or winter conditions, as you will reduce the capacity and life-time of the battery. Always try to keep the battery at room temperature. A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0 °C (32 °F).
- Do not short-circuit the battery. Accidental short circuiting can occur when a metallic object (coin, clip or pen) causes a direct connection between the + and – terminals of the battery (metal strips on the battery), for example when you carry a spare battery in a pocket or bag. Short-circuiting the terminals may damage the battery or the object causing the short-circuit.
- Dispose of used batteries in accordance with local regulations. Always recycle. Do not dispose of batteries in a fire.

Road Safety

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

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

1. Get to know your wireless phone and its features, such as speed dial and redial. If available, these features help you to place your call without taking your attention off the road.

2. When available, use a hands-free device. If possible, add an extra layer of convenience and safety to your wireless phone with one of the many hands-free accessories available today.

3. Position your wireless phone within easy reach. Be able to access your wireless phone without removing your eyes from the road. If you get an incoming call at an inconvenient time, let your voice mail answer it for you.

4. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow, ice and even heavy traffic can be hazardous.

Health and Safety Information

5. Do not take notes or look up phone numbers while driving. Jotting down a To Do list or flipping through your phonebook takes your attention away from your primary responsibility, driving safely.

6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.

7. Do not engage in stressful or emotional conversations that may be distracting. Make the people with whom you are talking aware that you are driving and suspend conversations that have the potential to divert your attention from the road.

8. Use your wireless phone to call for help. Dial the emergency number in the case of fire, traffic accident or medical emergencies. Remember, it is a free call on your wireless phone!

9. Use your wireless phone to help others in emergencies. If you see a car accident, crime in progress or other serious emergency where lives are in danger, call the emergency number, as you would want others to do for you.

10. Call roadside assistance or a special non-emergency wireless assistance number when necessary. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or any other special non-emergency wireless number.

Operating Environment

Remember to follow any special regulations in force in any area and always switch off your phone whenever it is forbidden to use it, or when it may cause interference or danger.

When connecting the phone or any accessory to another device, read its user's guide for detailed safety instructions. Do not connect incompatible products.

As with other mobile radio transmitting equipment, users are advised that for the satisfactory operation of the equipment and for the safety of personnel, it is recommended that the equipment should only be used in the normal operating position (held to your ear with the antenna pointing over your shoulder).

Electronic Devices

Most modern electronic equipment is shielded from radio frequency (RF) signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone. Consult the manufacturer to discuss alternatives.

Pacemakers

Pacemaker manufacturers recommend that a minimum distance of 15 cm (6 inches) be maintained between a wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research and recommendations of Wireless Technology Research.

Persons with pacemakers:

- Should always keep the phone more than 15 cm (6 inches) from their pacemaker when the phone is switched on;
- Should not carry the phone in a breast pocket;
- Should use the ear opposite the pacemaker to minimize potential interference.

If you have any reason to suspect that interference is taking place, switch off your phone immediately.

Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may wish to consult your hearing aid manufacturer to discuss alternatives.

Other Medical Devices

If you use any other personal medical devices, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information. Switch off your phone in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle.

You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

Switch off your phone in any facility where posted notices require you to do so.

Potentially Explosive Atmospheres

Switch off your phone when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Users are advised to switch off the phone while at a refuelling point (service station). Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants or where blasting operations are in progress.

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), areas where the air contains chemicals or particles, such as grain, dust or metal powders, and any other area where you would normally be advised to turn off your vehicle engine.

Emergency Calls

This phone, like any wireless phone, operates using radio signals, wireless and landline networks as well as user-programmed functions, which cannot guarantee connection in all conditions. Therefore, you should never rely solely on any wireless phone for essential communications (medical emergencies, for example).

Remember, to make or receive any calls the phone must be switched on and in a service area with adequate signal strength. Emergency calls may not be possible on all wireless phone networks or when certain network services and/or phone features are in use. Check with local service providers.

To make an emergency call:

1. If the phone is not on, switch it on.
2. Key in the emergency number for your present location. Emergency numbers vary by location.
3. Press the key.

If certain features are in use (call barring, for example), you may first need to deactivate those features before you can make an emergency call. Consult this document and your local cellular service provider.

When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your phone may be the only means of communication at the scene of an accident; do not cut off the call until given permission to do so.

Other Important Safety Information

- Only qualified personnel should service the phone or install the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the device.
- Check regularly that all wireless phone equipment in your vehicle is mounted and operating properly.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, its parts or accessories.
- For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including both installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If wireless equipment is improperly installed and the air bag inflates, serious injury could result.
- Switch off your phone before boarding an aircraft. The use of wireless phones in aircraft may be dangerous to the operation of the aircraft, and is illegal.
- Failure to observe these instructions may lead to the suspension or denial of telephone services to the offender, or legal action, or both.

Care and Maintenance

Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you fulfill any warranty obligations and allow you to enjoy this product for many years.

- Keep the phone and all its parts and accessories out of the reach of small children's.
- Keep the phone dry. Precipitation, humidity and liquids contain minerals that will corrode electronic circuits.
- Do not touch the phone with a wet hand. Doing so may cause an electric shock to you or damage to the phone.
- Do not use or store the phone in dusty, dirty areas, as its moving parts may be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the phone in cold areas. When the phone warms up to its normal operating temperature, moisture can form inside the phone, which may damage the phone's electronic circuit boards.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.

- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the phone. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.
- Do not paint the phone. Paint can clog the device's moving parts and prevent proper operation.
- Use only the supplied or an approved replacement antenna. Unauthorized antennas or modified accessories may damage the phone and violate regulations governing radio devices.
- If the phone, battery, charger or any accessory is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

Glossary

Airtime - Actual time spent talking on the wireless phone. Most carriers bill customers based on how many minutes of airtime they use each month.

Antenna - A device for transmitting or receiving signals. The size and shape of antennas is determined, in part, by the frequency of the signal they receive. Wireless phones and the base station must have antennas.

Base Station - The fixed radio transmitter/receiver that maintains communications with mobile radio telephones within a given area. (Typically called a cell or cell site)

CDMA - (Code Division Multiple Access) A spread-spectrum approach to digital transmission. With CDMA, each conversion is digitized and then tagged with a code. The mobile phone deciphers only a particular code to pick the right conversation off the air. The transmitted signal is just above noise level across the available bandwidth.

Channel - Communications signals transmit along paths called channels.

Codec - Compression & Decompression.

Deactivation - The process of rendering a wireless phone inactive.

DTMF - (Dual-tone Multi-Frequency) You send DTMF signals when you enter numbers by pressing the digit keys.

EVRC - (Enhanced Variable Rate Codec) EVRC is a new global standard for compressing and decompressing voice signals. EVRC uses a lower bit rate (the number of bits sent per second) than existing CDMA vocoders, while providing significant improvements in voice quality. This technology enables your phone to provide superb voice quality while benefiting from the ability to process more cellular voice calls using less bandwidth than the voice codecs in CDMA networks today.

Frequency - A measure based on time, as one or more waves per second, in an electrical or light wave information signal. A signal's frequency is stated in cycles-per-second or Hertz (Hz).

Hands-Free - A feature that permits a driver to use a wireless phone without lifting or holding the handset - an important safety feature for automobiles, tractors and most other motorized vehicles.

LCD - (Liquid Crystal Display) Commonly used to refer to the screen display on the wireless phone.

LED - (Light Emitting Diode) Commonly used to refer to a small light on the wireless phone or on the Desktop Charger. The LED lights on the phone to indicate an incoming call. The lights on the charger indicate that battery charging is taking place.

Prepend - The addition of a prefix, such as an area code, to a phone number.

RF - Radio Frequency

Roaming - The ability to use a wireless phone to make and receive calls in places outside of the home service area.

Service Charge - The amount paid each month to receive wireless service.

Standby Time - The amount of time a fully charged wireless portable or transportable phone can be on and idle without being in use. (See Talk Time)

Talk Time - The length of time a person can talk on a portable or transportable wireless phone without recharging the battery.

Vocoder - Voice Coder. A device used to convert speech into digital signals.

Wireless - Radio-based Systems that allow transmission of telephone or data signals through the air without a physical connection, such as a metal wire (copper) or fiber optic cable.

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SPH-A505 Quick Reference Card

BASIC OPERATIONS

Make a call	Phone number +	Speed dialing	Enter memory location of desired number, holding the last digit to automatically dial.
End a call			
Receive a call	or Open the phone	Save a Number	Number + **OK** + (/) (Category) + **OK** + Name + **OK** + If necessary, / to change the settings + **OK** (save)
Adjust key beep volume	*(in Standby mode)* / on the left side		
Adjust speaker volume	*(during a conversation)* / on the left side	Phone book Search	Press in Standby mode + / + **OK** or
Redial the last call	twice		
Switch to silent mode	Hold **#**	Launch the web browser	Press *i*
Voice dialing folder	Hold * or open the + Say a name		

MENU TREE

Main Menu *(To access, press MENU)*

- 1 : Calls
  - 1 : Outgoing
  - 2 : Incoming
  - 3 : Missed
  - 4 : Erase History
  - 5 : Air Time
- 2 : Phone Book
  - 1 : Find
  - 2 : Add New Entry
  - 3 : Group Setting
  - 4 : My Phone #
  - 5 : Memory
- 3 : Messages
  - 1 : New MSG
  - 2 : Voice
  - 3 : Inbox
  - 4 : Outbox
  - 5 : Filed MSG
  - 6 : Web Alert
  - 7 : Erase MSG
  - 8 : MSG Setting
- 4 : Wireless Web
  - 1 : Get in Web
  - 2 : Prompt
- 5 : Planner
  - 1 : Today
  - 2 : Scheduler
  - 3 : Task List
  - 4 : Memo Pad
  - 5 : Alarm
  - 6 : Calculator
  - 7 : World Time
  - 8 : Count Down
  - 9 : Set Time
- 6 : Voice Tools
  - 1 : Voice Dial
  - 2 : Voice Memo
  - 3 : Voice Answer
- 7 : Sounds
  - 1 : Ringer Volume
  - 2 : Ringer Type
  - 3 : Alerts
  - 4 : Roam Ringer
  - 5 : Key Beep
  - 6 : Tone Length
  - 7 : Power On/Off
- 8 : Display
  - 1 : Menu Style
  - 2 : Wallpaper
  - 3 : Banner
  - 4 : Backlight
  - 5 : Dual Clock
  - 6 : LCD Contrast
- 9 : Games
  - 1 : Push Push
  - 2 : Puzzle World
- 0 : Setup
  - 1 : Auto Answer
  - 2 : Call Answer
  - 3 : Auto Retry
  - 4 : Language
  - 5 : Set NAM
  - 6 : Set System
  - 7 : Data/Fax
  - 8 : Version
  - 9 : Security
- # : Camera
  - 1 : Take a Picture
  - 2 : Photo Album

Telefone Celular Modelo SPH-A505

Nº série eletrônico _____

DADOS DO COMPRADOR

Nome: _____

_____

Endereço: _____

_____

ESPAÇO A SER PREENCHIDO PELO REVENDEDOR

Revendedor: _____

_____

Cidade: _____

Carimbo do Revendedor:

IMPORTANTE: A garantia somente será válida se este Certificado de Garantia for completamente preenchido no ato da compra pelo revendedor e apresentado junto com a Nota Fiscal original de venda deste telefone celular.

SAMSUNG
ELECTRONICS

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GARANTIA LIMITADA DA SAMSUNG PARA TELEFONES CELULARES ADQUIRIDOS NAS REVENDAS AUTORIZADAS NO BRASIL

GARANTIA LIMITADA DA SAMSUNG PARA TELEFONES CELULARES ADQUIRIDOS NAS REVENDAS AUTORIZADAS NO BRASIL

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V. CONSIDERAÇÕES GERAIS

O único recurso oferecido é o conserto, substituição de peça ou produto, à opção da SAMSUNG. Esta garantia substitui todas as outras garantias expressas ou tácitas, incluindo sem limitação, garantias tácitas de comercialidade e adequação a um fim específico. A SAMSUNG não oferece nenhuma garantia quanto à cobertura, disponibilidade ou nível dos serviços oferecidos pela companhia telefônica, em hipótese alguma a SAMSUNG será responsável por indenização superior ao preço da compra do telefone celular, por qualquer perda de uso, perda de tempo, inconveniência, prejuízo comercial, perda de lucros ou economias, por outros danos diretos ou indiretos, decorrentes do uso ou impossibilidade de uso do produto.

ATENÇÃO

Não recarregue as baterias SAMSUNG em carregadores que não sejam os originais. O uso destes carregadores pode ocasionar graves acidentes.

SAMSUNG
ELECTRONICS

Cidade: _____

CEP: _____

Estado: _____

Telefone: _____

Nº da Nota Fiscal: _____

Data da Compra: _____

Estado: _____

SERVIÇO CELULAR

0800 124 421

SUA LINHA DIRETA COM A SAMSUNG

Este produto está adequado para
uso no ano 2000 e subsequentes.

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U.S Patent No. 4,901,307 5,056,109 5,099,204
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