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

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CELLULAR PHONE
SCH-N361
User's Manual

Draft version
(2003/10/15)

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

FCC RF EXPOSURE INFORMATION

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

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

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

Body-worn Operation

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 at least a 0.59 inch (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.

Vehicle Mounted External Antenna (optional, if available.)

A minimum separation distance of 7.9 inches (20cm) must be maintained between a person and the vehicle mounted external antenna to satisfy FCC RF exposure requirements.

For more information about RF exposure, please visit the FCC web site at www

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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.

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

Switching Off When Refueling
Do not use the phone at a refueling 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 your phone off 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).

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

Emergency Call
Ensure the phone is switched on and in service. Key in the emergency number for your present location, then press the key. You must deactivate any unnecessary features before you can make an emergency call. Give all the necessary information as accurately as possible. Do not cut off the call until given permission to do so.

Water Resistance
Your phone is not water-resistance. Keep it dry.

Accessories and Batteries
Use only Samsung-approved accessories and batteries. Use of unauthorized accessories could damage your phone and may be dangerous.

Qualified Service
Only qualified service personnel may install or repair your phone.

For more detailed safety information, see “Health and Safety Information” on page 116.

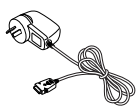
Unpacking

Your package contains the following items:

Handset

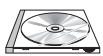
Batteries

User’s Manual


Travel Adapter

Ear-microphone

Data Cable


PC Link

Hand Strap

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

- Ear-microphone
- Travel adapter
- Standard batteries
- Cigarette lighter adapter
- Hands-free car kit
- Data cable
- Car cradle
- PC link program

Your Phone

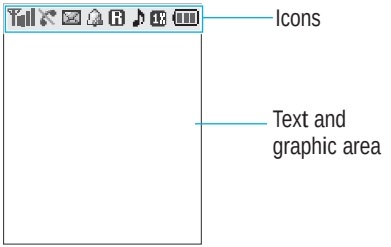
Phone Layout

The following illustration shows the main elements of your phone.

Display

Layout

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



Keys

Key	Functions
MENU	Enters Menu mode.
OK	In Menu mode, selects the current menu or option. In Standby mode, accesses the **Messages** menu.
	In the menu facility, scrolls through the menu options. *In Standby mode*, ▲ allows you to enter the **Find Name** menu, ▼ allows you to enter the **Ringer Type** menu, ◀ allows you to enter the **Scheduler** menu, and ▶ allows you to enter the **Voice Memo** menu.

Keys *(continued...)*

Key	Functions *(continued...)*
	Makes or answers a call. *In Standby mode*, access the recent call logs.
	Ends a call. Also switches the phone on and off when pressed and held. *In the menu facility*, returns to Standby mode and cancels your input.
	Deletes characters from the display. *In the menu facility*, returns to the previous menu level. *In Standby mode*, quickly enters the **WAP** menu. Pressing and holding down this key starts the WAP browser.
	Enters numbers, letters and some special characters.
	In text entry mode, changes the appearance of input. In Standby mode, enters the Keypad Lock mode when pressed and held.
	In Standby mode, quickly enters/exits the silent mode when pressed and held. *In text entry mode*, inserts a space.

Your Phone

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 logged onto a different network, when traveling in other countries, for example.

Ringer On: 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 you set ringer volume for calls to Silent.

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

Digital Mode: Indicates when the phone is logged onto a digital network.

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.

Lock Mode: Appears when your phone is locked.

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 (**MENU 7-3**). See page 98 for further details.

Note: In Standby mode or Talk mode, the display automatically turns off after some time, depending on your setting in the **Backlight** menu to conserve your battery power. Press any key to turn the display on.

Service Light

The service light is at the outline of the navigation key. It flashes to indicate incoming call or message. Also, the service light flashes for a few seconds when you turn on the phone.

To make the service light turns on, set the **Service LED** menu option (**MENU 7-6**); see page 100 for further details.

Getting Started

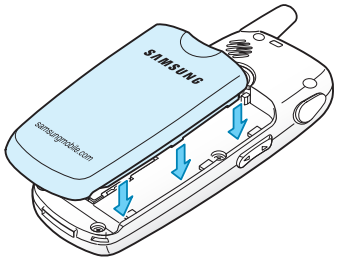
Using the Battery

Your phone is powered by a rechargeable Li-ion battery. Use only approved batteries and chargers. Ask your local Samsung dealer for further details.

Note: You must fully charge the battery before using your phone for the first time. A discharged battery is fully recharged in approximately 180 minutes for a standard battery.

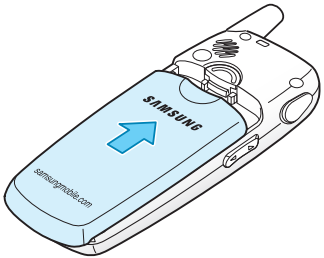
Installing the Battery

1. Insert the teeth at the bottom of the battery into the corresponding slots.



2. Push the battery against the back of the phone until it clicks into place.

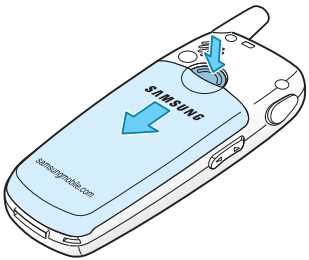
   Make sure that the battery is properly installed before switching the phone on .



Removing the Battery

1. If necessary, switch off the phone by pressing and holding the key down until the power-off animation is displayed.

2. To remove the battery, push and hold the catch above the battery on the back of the phone and lift the battery away.



Charging the Battery

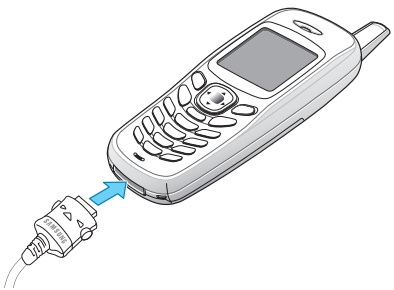
Using the Travel Adapter

Note: The phone can be used while the battery is charging, but this will cause the phone to charge more slowly.

1. Plug the travel adapter's connector into the bottom of the phone. Check that the arrow on the connector is facing towards the front of the phone.

2. Plug the adapter into a standard AC wall outlet.

   A bar indicating the charging progress appears on the display. While charging, the Battery Strength icon at the top right-hand corner of the display repeatedly fills to show its charging.



3. When charging is completed, unplug the adapter from the power outlet.

   Unplug the adapter from the phone by pressing the grey tabs on both sides of the connector and pulling the connector out.

Using the Battery Charger

Using the battery charger, you can charge the battery alone.

1. Plug the travel adapter's connector into the bottom of the battery charger.

2. Insert the teeth at the bottom of the battery into the slot of the battery charger and push the battery against the battery charger until it clicks in place.

3. Plug the travel adapter into a standard AC wall outlet.

4. The LED indicates the status of the battery being charged.

   - Red: the battery is charging.
   - Green: the battery is fully charged.
   - Orange: the battery is not seated correctly or the adapter is not plugged in correctly. Check the battery and adapter.

5. To remove the battery, push and hold the catch above the battery charger and lift the battery away.

   Insure that the charger has been disconnected from the wall outlet before removing the battery.

Low Battery Indicator

You can easily tell if your battery needs to be recharged by checking the Battery Status icon ( ) at 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.

When the battery charge level becomes low, the battery sensor blinks an empty Battery Status icon ( ) and sounds a warning tone. If the battery level becomes too low, the phone automatically turns off. When this happens, you lose whatever you are doing and your phone call cuts off. Watch the Battery Status icon and make sure that your battery is adequately charged.

Switching the Phone On or Off

1. Press and hold the key until the power-on image displays 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.

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

WARNING!
Do not switch the phone on 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 Modes

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 the key. When your phone is in Standby mode, you will typically see the greeting message and the current date and time. If you enter a phone number, you can press the key to dial it or press the **OK** key to save it in the internal Phonebook.

Press the key at any time to return to Standby mode. Be careful; if you are on a call when you press the key, the call disconnects and the phone returns to Standby mode.

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 the **MENU** key gives you a list of options. See page 40 for details.

Power Save Mode

Your phone comes with a Power Save feature that is automatically activated if your phone is unable to find a signal after 15 minutes of searching. While this feature is active, the phone's battery charge is conserved. The phone automatically rechecks for a signal periodically. To manually force the phone to recheck for a signal, press any key.

Lock Mode

When you lock your phone using the **Lock Phone** menu (**MENU 9-9-1**), 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, you need to enter the lock code.

For details about locking and unlocking your phone, see page 107.

Silent Mode

Silent mode disables all of the 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, press and hold the # key until “Enter! Silent Mode” and the Vibration indicator ( ) display.

To exit and reactivate the previous sound settings, press and hold the # key again until “Exit! Silent Mode” appears. The Vibration indicator no longer displays.

Note: When you turn the phone off, Silent mode is automatically deactivated.
When you take a picture, a shutter sound beeps even if you are in Silent mode.

Locking or Unlocking the Keypad

You can make the keypad lock manually by pressing and holding in standy mode. You can prevent accidental key pressing with this key guard mode.

To lock the keypad automatically, use the **Auto Key Lock** menu(**Menu-9-3**). See page 103.

To unlock your keypad, press and then .

Note:When you have incoming calls and SMS messages in key guard mode the key guard is deactivated automatically, after then you get the standby mode the key guard will activate automatically after the predetermined amount of time.

Call Functions

Making a Call

In Standby mode, enter the area code and phone number and press the key.
Or, press the last phone number and hold it down.

Note: When the **Auto Retry** menu (**MENU 9-4)** has been enabled, the phone automatically retries to make the call when the line is busy or the remote person does not answer. See page 103.

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

Talk: places a call to the number.

Save: allows you to save the number in Phonebook.

Find: allows you to find a number from 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 30.
- When you enter four digits, the **4-digit Dial** option is available. For details about four-digit dialing, see page 32.

Correcting the Number

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

Ending a Call

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

If you end the call by pressing the key, the length of the call and the phone number display briefly and the phone returns to Standby mode.

Emergency Dialing

You can place emergency calls from your emergency number list even if your phone is locked or all of the outgoing calls are restricted.

For further details about emergency numbers, see page 108.

Redialing the Last Number

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

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

1. In Standby mode, press the key. The list of the recent outgoing calls displays.
2. Press the Navigation keys until you find the name or number you want.
3. Press the key to dial the number displayed.

Making a Call from Phonebook

You can store the phone numbers you called regularly in the phone's memory, which is called Phonebook. You then simply recall the number to dial.

For further details about the Phonebook feature, see page 61.

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 a phone number stored in your phone:

1. Access outgoing call logs by pressing the key or Phonebook entries by referring to page 62.
2. Scroll to the number you want to dial.
3. Press the **MENU** key to access the options.
4. Press the **3** key to select the **Prepend** option.
5. Enter the area code or feature code.
6. Press the key to dial the number.

Speed Dialing

Once you have stored phone numbers in Phonebook, you can dial them easily whenever you want.

Notes:
- When several numbers are saved in one name entry, the first number you entered is automatically specified as a speed dial number. To change the speed dial number, use **Speed dial** of the Phonebook options; see page 64.
- You can also speed dial selecting **Speed Dial** from the dialing options (see page 26). Enter a number corresponding to a Phonebook location, press the **MENU** key and then press the **Speed Dial** option.

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 dialled.

For example: Location no. 009
Press the **9** key and hold.

The number (and name) stored displays, and 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 location.

For example: Location no. 023
Press the **2** key briefly and hold down the **3** key.

The number (and name) stored displays, and then dialed.

Three-Touch Dial

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

Press the first two digits briefly, then hold down the third digit of the memory location.

For example: Location no. 123
Press the **1** key and the **2** key briefly, then hold down the **3** key.

The number (and name) stored displays, and then dialed.

Four-digit Dialing

You can quickly dial a phone number in Phonebook by entering its last four consecutive digits.

1. Enter the last four digits of the phone number you want to dial.

2. Press the **MENU** key and select the **4-digit Dial** option. The phone displays 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 number using the ◀ and ▶ keys to select a number.

3. Press the key to dial the number.

Pause Dialing

When you call an automated system, like a banking service, 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 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 the key.

- 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. keep it 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 the **MENU** key to access the options.

3. Select the pause type you want and press the **OK** key.

   - Press the **4** key for **Hard Pause**. The letter "P" displays, meaning that a hard pause will occur at that point in the dialing sequence.

   - Press the **5** key 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 through 4 to add more pauses and numbers, if necessary.

6. Store the number in your Phonebook as you normally would by pressing the **OK** key and following from step 2 on page 63.

Pause Dialing from a Stored Phonebook Entry

1. Dial the number of the service from Phonebook.
2. If you stored the number using a hard pause(s), wait for the appropriate prompt from the number you are calling. When prompted, press the key to send the DTMF (Dual Tone Multi-Frequency) number that follows your pause.

   If you stored the number using a two second pause(s), your phone transmits the number that follows the “T” pause two seconds after the connection.
3. “Sending DTMF” flashes on the display and the transmitted tone sounds.
4. Repeat from step 2, if necessary.

Call Functions

Manual Pause Dialing

You can enter pauses manually during the dialing process.

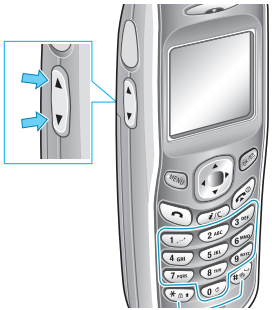
1. Enter the phone number of the service you want to call, such as a bank’s teleservice phone number.
2. Press the **MENU** key to access the options.
3. Select the pause you want type and press the **OK** key.
   - Press the **4** key for **Hard Pause**. The letter “P” displays, meaning that a hard pause will occur at that point in the dialing sequence.
   - Press the **5** key 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 the key to dial the first number.
5. For a hard pause, press the key again at the prompt to send the additional number after connecting.

   If you enter the number using a 2-second pause(s), the phone sends the number that follows the pause two seconds after the connection.

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



In Standby mode, you can also adjust the keypad tone volume using these keys.

Answering a Call

When somebody calls you, the phone rings and displays the incoming call animation.

If the caller can be identified, the caller's phone number, or name if available in your Phonebook, displays.

There are three ways to answer a call depending on your setting in the **Call Answer** menu (**MENU 9-2**):

If you select	To answer the call,
Any Key	open the folder and press any key, except the and the volume keys.
Folder Open	open the folder. If it is already open, press the key.
SEND Key	open the folder and press .

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

Notes:
- You can answer a call while using Phonebook or menu functions. The current operation stops.
- If you cannot answer incoming calls, you can set the phone to answer the call by playing a greeting message and record callers' messages. For further details, see page 90.

Rejecting a Call

If you press the key or one of the volume keys once, when a call is received, the phone stops ringing or vibrating. You can still answer the call by pressing the key. Press the key to disconnect without answering the call.

If the phone is closed, press and hold one of the volume keys to reject an incoming call.

Options During a Call

Your phone provides you with a number of functions that you can use during a call.

Press the **MENU** key during a call to access the following options:

Phone Book: allows you to access the **Phone Book** menu. For details, see page 59.

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

Example: You wish to say something to another person in the room but do not want the other person 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 DTMF (Dual Tone Multi-Frequency) tones of your phone number.

Calls: allows you to access the **Calls** menu. For details, see page 55.

Messages: allows you to use the **Messages** menu. For details, see page 67.

Planner: allows you to access the **Planner** menu. For details, see page 76.

Using Caller ID

This feature tells you who is calling you by displaying the caller's number when the phone rings. If the name and number are stored in your Phonebook, the corresponding name also displays. If you call someone who has this feature, your phone number displays on her/his phone.

Note: Contact your service provider to set up 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, a Missed entry is created.

Press the key to access the recent calls list, or the key to clear the message and return to Standby mode.

To view missed calls, access the **Missed** menu (**MENU 1-3**). For details, see page 57.

Call Forwarding

This network feature allows you to forward incoming calls to another phone number, even while your phone is turned off. Activating Call Forwarding does not affect outgoing calls made from your phone.

Note: Contact your service provider to activate Call Forwarding.

Call Waiting

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

Your network provides you with 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 during a call:

1. When you hear a beep telling that you have a waiting call, press the key. The phone connects the calling person and places the current call on hold.

2. Press the key again to switch between the two calls.

Note: If you do not respond to a Call Waiting notification, the phone will forward the call to voice mail server 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 people at the same time. The phone records each participant into the Outgoing Calls Log. Also, You are billed call time 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 key. The phone places the other person on hold.
2. Enter the phone number for the third person, and then press the key. The phone dials the third person.
3. When you are connected to the person, press the key 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 participants are disconnected.

Entering Text

At many times when using your phone, you will need to enter text, such as when storing a name in Phonebook, creating your personal greeting or scheduling events on your calendar. You can enter alphanumeric characters into your phone using your phone's keypad.

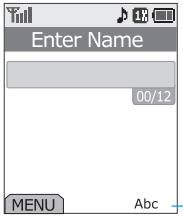
Your phone has the following text input modes:

- **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; for example, when you press the **5** key once J, K or L displays. T9 mode automatically compares your key presses to an internal linguistic database to determine the correct word. T9 mode requires far fewer keystrokes than the traditional multi-tap method, Alphabet mode.
- **Alphabet**: This mode allows you to enter letters by pressing the key labeled with the letter you want to enter once, twice, or three times until it appears on the display.
- **Symbol**: This mode allows you to enter special characters.
- **Number**: This mode allows you to enter numbers.

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 the **MENU** key.

2. Scroll to the mode by pressing the ▲ or ▼ key.
3. To select the highlighted mode, press the **OK** key. If you want to exit the menu without changing to a new mode, press the **CLR** key.

   The selected text input mode indicator appears on the display.

Using T9(English) Mode

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

1. Press alphanumeric keys on the keypad just once per letter. For example, to enter “Hello,” press the **4**, **3**, **5**, **5** and **6** keys.

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

2. Type to the end of the word before editing or deleting any keystrokes.
3. Put a space between words by pressing the # key.

   If the word that appears on the display is not the one that you desire, press the **0** key one or more times to display alternative word choices for the keys you have typed. For example, both “Of” and “Me” use the **6** and **3** keys. The phone displays the most commonly used choice first.

4. Continue entering the next word.

Smart Punctuation

Periods, hyphens, and apostrophes are available by pressing the **1** key. T9 mode applies rules of grammar to insert the correct punctuation. Notice that the **1** key 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 corresponding number key.

Changing the Case

Your phone has three cases:

- **T9Word**: the initial letter is capitalized.
- **T9WORD**: all letters are capitalized.
- **T9word**: all letters are lower-cased.

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

Other Usages

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

Using Alphabet Mode

When typing in Alphabet mode, you need to press the keys labeled with the letter you want:
- Once for the first letter
- Twice for the second letter
- And so on

This method is called multi-tap typing.

For example, you press the **2** key three times to display the letter “C” and the **5** key 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)

Including a Number

You can quickly include a number between letters. Press and hold the corresponding number key.

Changing the Case

Your phone has three cases:

- **Abc**: the initial letter is capitalized.
- **ABC**: all letters are capitalized.
- **abc**: all letters are lower-cased.

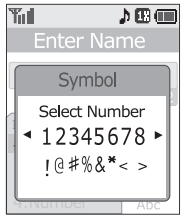
Press the * key one or more times to display the appropriate case indicator, and begin typing normally.

Other Usages

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

Using Symbol Mode

Symbol mode enables you to enter symbols.



You can display more symbols by pressing the ◄ or ► key.

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

Using Number Mode

Number mode enables you to enter numbers.

Press the keys corresponding to the digits you want to enter and manually switch back to the text entry mode of choice. For details about changing the mode, see page 44.

Using the Menus

Your phone offers a range of functions that allow you to tailor it 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 the **MENU** key to access Menu mode.
2. Scroll using the Navigation keys to reach the main menu; for example, **Setup**. Press the **OK** key to enter the menu.
3. If the menu contains any submenus; for example, **Auto Answer**, find the one you want by scrolling using the ▲ or ▼ key. Press the **OK** key to enter the submenu.

   If the menu you have selected contains submenus, repeat this step.
4. Scroll using the ▲ or ▼ key to find the setting of your choice.
5. Press the **OK** key to confirm the chosen setting.

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

Using Shortcuts

Menu, submenus and setting options are numbered and can be quickly accessed by using their shortcut numbers.

Note: The numbers assigned to each menu function are indicated on the list on page 52.

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

   Example: Accessing the **Auto Answer** menu

   Press the **0** and **1** keys.

   0 selects **Setup** and **1** selects **Auto Answer**.
3. Find the setting of your choice by pressing the ▲ or ▼ key.
4. Press the **OK** key to confirm the chosen setting.

List of Menu Functions

Main menu	Main menu 1	Main menu 2
1. Calls	1. Outgoing	
	2. Incoming	
	3. Missed	
	4. Erase History	1. Outgoing
		2. Incoming
		3. Missed
		4. All Calls
	5. Air Time	1. Last Call
		2. Total
		3. Life Time
		4. Erase Total
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. WAP Alert	
	7. Erase MSG	
	8. MSG Setting	1. Scroll Timer
		2. MSG Reminder
		3. New MSG
		4. Canned MSG

Main menu	Main menu 1	Main menu 2
4. Planner	1. Today	
	2. Scheduler	
	3. Task List	
	4. Memo Pad	
	5. Alarm	
	6. Calculator	
	7. World Time	
	8. Count Down	
	9. Set Time	
5. Voice Tools	1. Voice Memo	1. Record
		2. Review
		3. Erase All
	2. Voice Answer	1. On/Off
		2. Inbox
		3. Setting
6. 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. Key Tone	1. Type
		2. Volume
	5. Roam Ringer	
	6. Power On/Off	

Main menu	Main menu 1	Main menu 2
7. Display	1. Menu Style	
	2. Wallpaper	
	3. Backlight	
	4. Banner	
	5. Dual Clock	
	6. Service LED	
	7. Contrast	
8. Games	1. Push Push	
	2. Honey Ball	
	3. Go Hamster	
9. Setup	1. Auto Answer	
	2. Call Answer	
	3. Auto Key Lock	
	4. Auto Retry	
	5. Select NAM	
	6. Set System	
	7. Data/Fax	
	8. Version	
	9. Security	1. Lock Phone
		2. Change Lock
		3. Restriction
		4. Emergency#
		5. Erase Pbook
		6. Reset Phone

Calls

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

- view and dial the last calls you dialed, received or missed.
- 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 the key in Standby mode.

The phone stores up to 10 of the last calls you dialed. When you access this menu, a list of the outgoing calls displays.

1. Press the ▲ or ▼ key to find a number, or name if it is saved in Phonebook.

2. Press the **OK** key to confirm the highlighted number. The dialed number, or name if it is saved in Phonebook, displays along with the date and time when the call was made.

3.

To	Press the
place a call to the selected number	key.
use the options	**MENU** key. For details, see the next page.
exit the call log	key.

When you press the **MENU** key on the call log screen, the following options are available:

Talk: dials the number.

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

Show Entry: (shown when the number is stored in your Phonebook) displays the phone number and memory location number.

Prepend: allows you to add an area code or feature code to the number before dialing the number. See page 29 for details.

Erase: allows you to erase the call log.

Incoming *MENU 1-2*

This menu lets you view up to 10 of the last calls you received if you are subscribed to the Caller Line Identification service. Contact your service provider for further details about this service.

When you access this menu, a list of the incoming calls displays.

For more information about scrolling through the list and accessing the call log, see “Outgoing” on page 55.

Missed *MENU 1-3*

If Caller Line Identification service is available, your phone keeps a list of the last 10 incoming calls that you failed to answer. Contact your service provider for further details about the service.

When you access this menu, a list of the missed calls displays.

For more information about scrolling through the list and accessing the call log, see “Outgoing” on page 55.

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 a confirming message displays, select **Yes** to erase the selected log or all of the logs. If you want to cancel the selection, select **No**. Press the **OK** key to confirm the selection.

Air Time

MENU 1-5

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

Note: This feature is not intended to be used for billing purposes.

The following options are available:

Last Call: shows the time of the last call.

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

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

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

Phone Book

Phonebook 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 and URL addresses.

Find

MENU 2-1

This menu allows you to find an entry in your Phonebook.

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

1. Press the ◄ or ► key to scroll to the method you want to use.

   - **By Name**: Enter the first few letters of the name you want with Alphabet mode. 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 the ▼ key and select the group containing the entry you want to find, using the ◄ or ► key. The phone lists all of the entries in the selected group.

2. If necessary, press the ▲ or ▼ key to scroll through the entries.

3. When the entry you want highlights, press the **OK** key to access the entry. The phone shows the details about the name.

4.

To	Press the
place a call to the selected number	key.
use the options	**MENU** key. For details about the options, see below.

When you press the **MENU** key on the details screen, the following options are available:

Talk: place a call to the number.

Edit: allows you to change 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 dialling. See page 29 for further details.

Erase: erases the selected entry.

Note: The options available are different depending on the item you selected on the screen.

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 numbers, such as home number, workplace number, mobile number, pager number and fax number, into one entry. A Phonebook entry can contain up to six numbers, one in each category.

Creating a New Entry

1. Enter a phone number and press the **OK** key.

2. Press the **OK** key 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 the number to be stored using the Navigation keys and press the **OK** key.

4. Enter a name and press the **OK** key. For further details about entering characters, see page 45.

5. To select an option, scroll to it by pressing the ▲ or ▼ key. The following options are available:

   - **Enter Name**: allows you to enter a name of up to 12 characters, if you didn't in step 4. For further details about how to enter text, see page 45.
   - **Entry**: The first available location displays. If necessary, enter the location number using the number keys.

- **Home/Work/Mobile/Pager/Fax/Other number**: 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.
- **URL**: allows you to store a URL address.
- **Group**: allows you to assign the 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. Press the **MENU** key to enter information or use the ◀ or ▶ key to change the settings.

7. When you finish setting the options, press the **OK** key.

8. When a confirming message appears, select **Yes** and press the **OK** key 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 the key to end the call. The call time and the phone number display.

2. To store the phone number, press the **OK** key.

3. To complete storing the number, follow the procedure from step 2 in "Creating a New Entry" on page 61.

Adding a Number into an Existing Entry

1. Enter a number and press the **OK** key.

2. Scroll to the entry where you want to add a number by pressing the ▲ or ▼ key. Press the **OK** key.

3. To complete storing the number, follow the procedure from step 3 in "Creating a New Entry" on page 61.

Group Setting *MENU 2-3*

This menu allows you to change the name and ringer settings for the caller groups.

1. Scroll to the group you want to edit using the ▲ or ▼ key.
2. Press the **MENU** key. The following options are available:
   - **Rename**: allows you to change the group name.
   - **Sounds**: allows you to select a ringer melody to indicate when a call comes in from any member of the group.
3. Select an option and press the **OK** key.
4. Enter a name or select the sound you want and press the **OK** key.

   For further details about how to enter text, see page 43.
5. Repeat steps 2 though 4, if necessary.

My Phone Number *MENU 2-4*

This menu shows you your phone number.

After viewing, press the **OK** key to return to the previous screen.

Memory *MENU 2-5*

This menu shows you how many Phonebook locations are used or empty.

After viewing, press the **OK** key to return to the previous screen.

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 Message *MENU 3-1*

You can create a SMS (Short Message Service) message and send it to other mobile phones.

Note: Message transmission is available only when your phone is operating in a digital network and if service is supported by your service provider.

1. Enter a destination number using the numeric keys.

   Pressing the **MENU** key allows you to search your Phonebook for a number.

2. To send your message to multiple destination, press the # key and enter another number. Repeat this step, as needed.

3. When you are finished, press the **OK** key.

4. Enter the message contents. For further details about how to enter text, see page 45.

   When you press the **MENU** key, the **Canned MSG** option is available to allow you to use the ten canned messages preset in the **MSG Setting** menu; for details, see page 74.

5. When you finish entering the message, press the **OK** key.

6. To select an option, press the ▲ or ▼ key and press the **OK** key.

The following options are available:

- **Send To**: allows you to change the send-to phone number.
- **Message**: allows you to change the message contents you've already entered.
- **CB#**: allows you to change the callback number.
- **Options**: displays the following setting options. Scroll to an options using the ▲ or ▼ key and change the setting using the ◀ or ▶ key.

  - 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.
  - Message Save: Set whether or not the phone saves the message in the Outbox after transmission. When you select **Prompt Save**, the phone asks if you want to save the message.

  Note: **Message Save** options can be preset in the **New MSG** option (**MENU 3-8-3**); for details, see page 74.

- **File Msg**: allows you to store the message in the **Filed MSG** menu for future use.

5. Repeat step 3 to set the message options.
6. After changing the setting options, press the key to send the message.

Note: Closing the folder or pressing the key before the message is sent stops the transmission.

Voice

MENU 3-2

When you receive a voice message the corresponding text notification displays. Press the key and the phone dials the voice mail center.

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

Press the **MENU** key to access the following options:

Listen: allows you to listen to the voice message. The phone automatically dials the number of your voicemail center.

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

Note: You can also access your voicemail box by pressing and holding **OK** key in standby mode.

Inbox

MENU 3-3

Your phone can store up to 98 messages total in the Inbox, the Outbox and the Filed Message box. When the memory is full, a warning message displays and the phone rejects additional messages until you erase the obsolete ones.

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

To view details of a message, press the ▲ or ▼ key to scroll to the message on the list and press the **OK** key. If necessary, press the ▲ or ▼ key to scan through the contents.

You can view the next or previous message using the ◀ or ▶ key.

While viewing a message, press the **MENU** key 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 to the callback number.

Save: allows you to save the callback number of the message.

Outbox

MENU 3-4

Your phone can store up to 98 messages total in the Inbox, the Outbox and the Filed Message box.

When you access the **Outbox** menu, the message list appears. A red number means that it is an urgent message.

To view details of a message, press the ▲ or ▼ key to scroll to the message on the list and press the **OK** key. If necessary, press the ▲ or ▼ key to scan through the contents.

You can view the next or previous message using the ◀ or ▶ key.

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

Resend: allows you to resend the message. For further details, see page 69.

Delete: deletes the message from the Outbox.

Filed MSG

MENU 3-5

Your phone can store draft messages that are yet to be sent in the Filed Message box. If you save the message contents using the **Filed MSG** menu before sending it (see page 70), you can access them using this menu.

To review a stored message, press the ▲ or ▼ key to scroll to it and press the **OK** key.

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

Resend: allows you to resend the message. For further details, see page 69.

Delete: deletes the message from the Filed Message box.

WAP Alert

MENU 3-6

When you receive a new web message from the web server, your phone alerts you and the following options display:

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

Clear: Select this option if you do not wish to read the message at this time. You can press the **CLR** key.

To select an option, scroll to it and press the **OK** key. If you select **Clear**, the message is stored in the **Web Alert** menu.

When you access the **Web Alert** menu (**MENU 3-6**), a list of the received web message displays. Press the ▲ or ▼ key to scroll to the message you want to view and press the **OK** key. The phone starts the web browser and displays the message contents. If necessary, press the ▲ or ▼ key to scan through the contents.

Erase Messages *MENU 3-7*

Using this menu, you can erase all of the messages in each message box in the **Text**, **MMS** and **Voice** menus. You can also erase all of the messages at one time by selecting **All Messages**.

When a confirming message appears, select **Yes** and press the **OK** key.

Message Setting *MENU 3-8*

In this menu, you can preset several options for using the messaging feature.

Scroll Timer (*MENU 3-8-1*)

If an incoming text message is too long for the display, the phone displays it by scrolling the screen automatically. 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 the ▲ or ▼ keys.

Message Reminder (*MENU 3-8-2*)

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 that the message alert sounds once when the message is received. Selecting **Once** means that the message alert sounds once when the message is received and sounds again after 2 minutes. Selecting **Every 2 min** means that the message alert sounds every 2 minutes.

New Message (*MENU 3-8-3*)

You can change the default settings of the options for creating a new message. The following options are available:

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

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

Entry Method: allows you to select the text input mode either **T9 Word** (T9 English) or **Alphabet**.

Canned Messages (*MENU 3-8-4*)

This menu allows you to change the ten canned messages.

1. Scroll to a message on the list and press the **MENU** key.
2. Change the message as needed. For further details about entering characters, see page 43.
3. When you are finished, press the **OK** key.

Planner

The Planner feature enables you to:
- keep track of important dates and events.
- create a list of things to do and memos.
- set an alarm to ring at a specific time.
- use the phone as a calculator.
- check the time in another part of the world.
- count down to a specific day.
- set the current date and time.

Today *MENU 4-1*

You can schedule up to 9 events for the current day, 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 the **OK** key.

   For further details about entering characters, see page 45.

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

   You need to enter the time in 12-hour format. Press the **2** key for **A** (AM) or the **7** key for **P** (PM).

   Note: You can move through the input fields using the Navigation keys.

3. Enter the ending time and date using the number keys.

4. Select when an alarm will inform you of the event, by pressing the ◄ or ► key. Selecting **No Alarm** means that the phone does not ring the alarm.

5. Press the **OK** key to store your event.

Viewing Your Today's Schedule

The list of the events stored on the current day displays when you select the **Today** menu (**MENU 5-1**).

While viewing the event list, press the ▲ or ▼ key to scroll to an event and:

- Press the **OK** key to view the event information. To view the Start time and End time settings, use the ▲ and ▼ keys. You can move to the previous or next event by pressing the ◄ or ► key.

  While viewing the event, press the **MENU** key to use the following options:

  Edit: allows you to change the event.

  Erase: allows you to erase the event.

- Press the **MENU** key to use the following options:

  Add New: allows you to add a new event.

  Erase: allows you to erase the selected event.

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

Scheduler

MENU 4-2

This menu allows you to view the current month, as well as a past or future months, in calendar format. On the calendar, the current day appears in gray and days with scheduled events are indicated by a colored box inside the calendar day.

Note: You can quickly access this menu by pressing the ◄ key in Standby mode.

Scrolling Through the Calendar

- You can move by one day by pressing the ◄ or ► key.
- You can move by one week by pressing the ▲ or ▼ key.
- To display the next or previous month, press the or key.

On the calendar, press the **MENU** key to use the following options:

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

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

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

Creating a New Schedule

You can store up to 70 events total in the scheduler, with up to 9 events for one day.

1. Select a day on the calendar, referring to “Scrolling Through the Calendar” on page 96 and press the **OK** key.
2. Enter your event contents and press the **OK** key.

   For further details about entering letters, see page 45.
3. Enter the starting time and date using the numeric keys.

   You need to enter the time in 12-hour format. Press the **2** key for **A** (AM) or the **7** key for **P** (PM).

   Note: You can move through the input fields using the Navigation keys.
4. Enter the ending time and date using the number keys.
5. Select when an alarm will inform you of the event, by pressing the ◄ or ► key.

   Selecting **No Alarm** means that the phone does not ring the alarm.
6. Press the **OK** key to store your event.

Viewing Your Schedule

Select a day with scheduled events on the calendar, referring to “Scrolling Through the Calendar” on page 96 and press the **OK** key. The first event stored on the day displays.

To view the Start time and End time settings, use the ▲ or ▼ keys.

While viewing the event, press the **MENU** key to use the following options:

Edit: allows you to edit the event.

Erase: allows you to erase the event.

Task List

MENU 4-3

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 the **OK** key to confirm.

   For further details about how to enter characters, see page 43.

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

   You need to enter the time in 12-hour format. Press the **2** key for **A** (AM) or the **7** key for **P** (PM).

   Note: You can move through the input fields using the Navigation keys.

3. Select high or low priority using the ◀ or ▶ key and then press the **OK** key to store the task.

Viewing a Task

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

While viewing the task list, press the ▲ or ▼ key to scroll to a task and:

- Press the **OK** key to view details. You can move to the previous or next task by pressing the Navigation keys.

  While viewing the task, press the **MENU** key to use the following options:

  Edit: allows you to edit the task.

  Erase: allows you to erase the task.

- Press the **MENU** key to use the following options:

  Add New: allows you to add a new task.

  Erase: allows you to erase the selected task.

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

Memo Pad

MENU 4-4

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

Writing a New Memo

1. Enter the memo contents.

   For further details about how to enter characters, see page 45.

2. Press the **OK** key to save the memo.

Viewing a Memo

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

While viewing the memo list, press the ▲ or ▼ key to scroll to a memo and:

- Press the **OK** key to view details. You can move to the previous or next memo by pressing the Navigation keys.

  While viewing the memo, press the **MENU** key to use the following options:

  Edit: allows you to edit the memo.

  Erase: allows you to erase the memo.

- Press the **MENU** key to use the following options:

  Add New: allows you to add a new memo.

  Erase: allows you to erase the selected memo.

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

Alarm

MENU 4-5

This menu allows you to set 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 the **OK** key.

2. Select **On** by pressing the ◄ or ► key.

3. Press the ▼ key and enter the time and date for the alarm to ring.

   You need to enter the time in 12-hour format. Press the **2** key for **A** (AM) or the **7** key for **P** (PM).

4. Press the ▼ key and select an alarm melody by pressing the ◄ or ► key.

5. Press the ▼ key and select an alarm type, either **Daily** or **Once**, by pressing the ◄ or ► key.

6. Press the **OK** key to save the alarm setting.

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

To deactivate an alarm setting, access it from the alarm list and select **Off** on the top line.

Calculator

MENU 4-6

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

1. Enter the first number on the first line using the numeric keys.

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

2. Enter the operation for your calculation on the second line by pressing the Navigation keys, according to the graphic on the display.

3. Enter the second number.

4. Repeat steps 2 and 3 as many times as required.

5. To view the result, press the **OK** key.

World Time

MENU 4-7

This menu allows you to check the current time for 24 world time items of 35 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 display.

To turn the DST (Daylight Saving Time) setting on:

1. After selecting the time zone you want to apply the DST, press the **MENU** key.

2. When **DST setting** highlights, press the **OK** key.

3. Select **On** and press the **OK** key. The DST icon appears on the left of the time.

   To cancel the setting, select **Off**.

Count Down

MENU 4-8

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

Creating a New Counter

1. Enter the contents for your counter and press the **OK** key.

   For further details about entering text, see page 45.

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

   You need to enter the time in 12-hour format. Press the **2** key for **A** (AM) or the **7** key for **P** (PM).

   Notes:
   - You can move through the input fields using the Navigation keys.
   - You can enter a year between 1980 and 2099.

3. Press the **OK** key to store the counter.

Viewing a Counter

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

While viewing the counter list, press the ▲ or ▼ key to scroll to a counter and :

- Press the **OK** key to view details. You can move to the previous or next counter, press the Navigation keys.

  While viewing a counter, press the **MENU** key to use the following options:

  Edit: allows you to edit the counter.

  Erase: allows you to erase the counter.

- Press the **MENU** key to use the following options:

  Add New: allows you to add a new counter.

  Erase: allows you to erase the selected counter.

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

Set Time

MENU 4-9

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 hour, minute, day and month 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 the **2** key for **A** (AM) or the **7** key for **P** (PM).

Voice Tools

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

- record a voice memo.
- set the phone to answer a call and record the caller's message.

Voice Memo *MENU 5-1*

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

Record (*MENU 5-1-1*)

You can record up to voice memos of 4 minutes total. This feature shares the memory with the Voice Answer feature and the amount of time for memos are dependent 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.

1. Record a memo by speaking to the microphone.

   When you are recording, a timer displays to show you the elapsed time.

   You can pause recording by pressing the ◂ key and then resume by pressing the ▸ key.

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

- **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 discard the current memo and record another one.
- **Save**: allows you to save the voice memo.
- **Quit**: allows you to quit recording the memo and exit the **Record** menu.

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

4. Enter a title for the memo and press the **OK** key.

Review (*MENU 5-1-2*)

When a list of your voice memos displays, scroll to the memo you want to review and press the **OK** key. The phone plays the memo. You can pause playing by pressing the ◂ key and resume by pressing the ▸ key.

On the memo list, press the **MENU** key to use the following options:

Play: plays the memo.

Erase: erases the selected memo.

Info: shows detailed information about the memo, such as the title, length, memory size and date and time when the memo was recorded.

Erase All (*MENU 5-1-3*)

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

When a confirming message displays, select **Yes** and press the **OK** key.

Voice Answer *MENU 5-2*

If you are not able to answer an incoming call, you can set your phone to answer a call with the preset 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 the available memory less any voice memos.

On / Off (*MENU 5-2-1*)

This menu allows you to enable or disable Voice Answer mode.

Inbox (*MENU 5-2-2*)

You can listen to the callers' messages recorded in your phone. When you access this menu, a list of the recorded messages appears.

Note: If the phone has the callers' 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 the **OK** key takes you to the Inbox.

Press the ▲ or ▼ key to scroll to a message and press the **OK** key to play it.

You can pause playing by pressing the ◀ key and then resume by pressing the ▶ key.

On the message list, press the **MENU** key to the following options:

Play: plays the selected message.

Erase: erases the selected message.

Info: shows detailed information about the message, such as caller's number if identified, length, memory size and date and time when the message was recorded.

Talk: places a call to the caller's number, if identified.

Setting (*MENU 5-2-3*)

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

Greeting: Your phone provides you with the default greeting message to be played when a call comes in. You can also record your own greeting message.

To record a greeting message:

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

   You can pause recording by pressing the ◀ key and then resume by pressing the ▶ key.
3. When recording is complete, press the **OK** key. The phone automatically saves and activates the message.

If you want to play back the currently selected message, highlight **Play** and press the **OK** key.

To enable or disable your own greeting message:

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

Note: Once you have recorded your own message and then have changed the greeting to the default message, your message is 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. Selecting **OFF** means that the phone plays back the message as soon as a call comes in.

Sounds

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

- ringer volume, type, and tone.
- key tone and alert sounds.
- ringer for incoming calls when you are roaming.
- sound which plays when the phone is switched on or off.

Ringer Volume *MENU 6-1*

This menu allows you to adjust the ringer volume.

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

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

Alarms: allows you to adjust the ringer volume for alarm settings.

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

- Silent: the phone does not sound a ring.
- Vibrate: the phone switches to the 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 the volume.
- High+Vib: the phone rings in the highest volume level and then vibrates.

Notes:
- The options available may be different depending on the selected ringer item.
- When "Emergency call only" appears after you end an emergency call, the ringer volume for calls and messages is automatically set to Level 4.

Ringer Type *MENU 6-2*

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

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

Messages: allows you to have a distinctive ringer for incoming voice mail, numeric page, text messages, MMS alerts and web alerts independently.

Data/Fax In: allows you to be alerted with a distinctive ringer when you receive data or fax calls through the phone. This feature may not be available depending on your network.

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

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

Alerts *MENU 6-3*

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 that the other person 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.

Key Tone *MENU 6-4*

Using this menu, you can set up the keypad tone that the phone sounds when you press a key.

The following options are available:

Type: allows you to select a tone that the phone sounds when you press a key. Choose one of **Beep**, **Rain Drop**, **Drum Sound**, and **Lady's Voice**.

Volume: allows you to adjust the volume of the keypad tone using the Navigation keys or the Volume keys on the left side of the phone.

Roam Ringer *MENU 6-5*

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.

Power On / Off *MENU 6-6*

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

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

Display

The Display feature enables you to:

- change the display style of the menus.
- select an image to be displayed in Standby mode or create your own greeting.
- set the length of time for the backlight.
- set a banner message to be displayed.
- select the time zones for the dual clock.
- turn the service light on or off.
- Adjust the screen contrast of LCD screens.

Menu Style *MENU 7-1*

This menu allows you to select the menu display style.

You can choose either **Camera** or **Nature**.

Wallpaper *MENU 7-2*

You can change the background image (wall paper) to be displayed in Standby Mode.

Select one of default images in the **Embedded Images** menu, pictures you have taken in the **Photo Wallet** menu or images you downloaded from the Internet or images you downloaded from the MMS in the **My Images** menu.

When you select **Dual Clock**, the phone displays the analog clocks for the two time zones selected in the **Dual Clock** menu (**MENU 7-5**). See page 99.

Backlight

MENU 7-3

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

The following options are available:

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

8 seconds: The backlight switches on when you press a key or open the folder and switches off 8 seconds after that. Then the display turns off after 52 seconds.

Dimming: The backlight is not used.

Banner

MENU 7-4

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

1. If necessary, press the **CLR** key to delete each letter of the old greeting. Press are hold the **CLR** key to clear the display.
2. Enter your banner message. For further details about how to enter characters, see page 45.
3. When you finish entering the message, press the **OK** key to save the new banner.

Dual Clock

MENU 7-5

You can choose two time zones to be displayed when you select **Dual Clock** for the wallpaper image; for details, see page 97.

To select time zones for the dual clock:

1. When **Location** highlights, press the ▼ key.
2. Select the time zone for the first clock by pressing the ◄ or ► key and press the ▼ key.
3. Select the time zone for the second clock by pressing the ◄ or ► key.
4. Press the **OK** key to confirm the selection.
5. To set the DST (Daylight Saving Time), see below.

   To exit, press the **CLR** or ☎ key.

To apply the daylight saving time:

1. When **Location** highlights, press the ◄ or ► key to display **DST**. Press the ▼ key.
2. Select **Yes** to use the daylight saving time for the first clock. Otherwise, select **No**.
3. Press the ▼ key and repeat step 2 for the second clock.
4. Press the **OK** key to confirm the selection.

Service LED

MENU 7-6

This menu allows you to select whether or not the service light on the folder is used.

Contrast

MENU 7-7

This menu allows you to adjust the brightness of the **Main LCD** screens.

1. Press up or left navigation key to make the screen darker, and down or right navigation key to make the screen brighter.
   You can also use the volume keys to adjust the brightness.

   Each time you press the key, you will see the selected status of the LCD.

2. Press the OK key to save your setting.

Games

You can enjoy three fun games on your phone:
- Fun Bowling (**MENU 8-1**)
- Honey Ball (**MENU 8-2**)
- Hamster Box (**MENU 8-3**)

To start a game:

1. Select a game by pressing the ▲ or ▼ key and press the **OK** key.

2. For **Fun Bowling**, press the **OK** key. When the key helper screen appears, press the **OK** key again to start the game.

   For the other games, the following options are available. To select an option, press the corresponding number key:

   - **New Game**: allows you to start a new game.
   - **High Score**: shows you the High Score table.
   - **Key Info**: shows you the key helper screen.
   - **Continue**: allows you to continue the last game you played.

To end the game, press the **CLR** or key.

Setup

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

Auto Answer *MENU 9-1*

With this menu activated, the phone automatically answers calls after a specified time. This feature works only when the phone is connected to an optional hand-free car kit and 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**.

To deactivate the feature, select **OFF**.

Call Answer *MENU 9-2*

This menu allows you to select how to answer an incoming call.

The following options are available:

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

Folder Open: The phone answers when you open the folder. when the folder is already open, you can press the key.

SEND Key: The phone answers only when you press the key.

Auto Key Lock *Menu 9-3*

You can set the phone to automatically lock he keys if no key is pressed within a given of time.This featue is useful to avoid pressing keys by mistake.

To use this feature,select the length of time for which the phone waits before it locks the keypad.

15 sec ,**30 sec** ,**1 Min** and **2 Min** are available.

If you don 't want to use this feature,select **Off** .

Note: You can manually lock the keypad. For further details. see page 25.

Auto Retry *MENU 9-4*

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

To activate this feature, set how often the phone will automatically retry the call. Select one from **60 Seconds**, **30 Seconds** and **10 Seconds**.

To deactivate the feature, select **Off**.

Select NAM *MENU 9-5*

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 turns off by itself and back on and acquires service using the new NAM setting.

Set System *MENU 9-6*

Roaming is a feature which is only relevant in areas where there are at least two cellular service providers having valid roaming agreements. Roaming allows you to register your phone on one of the networks, but use the facilities of the other if your own network is not available. This system priority feature allows you to program your phone for optimum operation within or outside your home service area.

You should always check your phone's display because it will let you know when you're outside the service provider network and whether your phone is operating in another network; the Roaming icon ( ) appears.

You have the following options which allows you to control the phone's roaming ability:

Home Only: With this setting, you cannot roam. When your home system is not available, your call is not be connected and the No Service indicator ( ) displays.

Standard: Your phone automatically search for the first available one of all types of service according to the Preferred Roaming List supplied by the service provider.

Data / Fax *MENU 9-7*

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 contains 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 9-8*

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

Security *MENU 9-9*

Your phone provides you with many security options, including a user-programmable lock code and call restriction features.

To access the **Security** menu, you need to enter a lock code. The lock code is preset to “0000” at the factory.

Lock Phone (*MENU 9-9-1*)

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 the next time you turn it on.

Lock Now: The phone locks immediately.

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

To unlock the phone, press one of the **MENU**, **OK**, , or Navigation keys and enter the lock code. The phone returns to Standby mode.

Change Lock (*MENU 9-9-2*)

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 the **OK** key.

Restriction (*MENU 9-9-3*)

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

Select **On** to restrict the calls, or **Off** to deactivate the restriction.

Emergency Number (*MENU 9-9-4*)

Your phone provides you with the option for storing three emergency numbers. All of these numbers can be manually dialed at any time even when your phone is locked or all of the outgoing calls are restricted.

IMPORTANT NOTICE!
Emergency calling may not be available on all wireless networks at all times. A connection cannot always be guaranteed, due to various transmission methods, network parameters and user settings used to complete a call from your wireless phone.

DO NOT depend on this phone as a primary method of dialing 000 or for any other essential or emergency communications.

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

To store an emergency number:

1. Press the Navigation keys to select a location and press the **OK** key.
2. If necessary, press and hold the **CLR** key to clear the old number.
3. Enter the number you want.

   Each emergency number can be up to 32 digits long.
4. Press the **OK** key to store the number.

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

Erase Phonebook (*MENU 9-9-5*)

This feature allows you to clear all of the numbers in your Phonebook.

When a confirming message displays, select **Yes** and press the **OK** key.

Reset Phone (*MENU 9-9-6*)

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

When a confirming message displays, select **Yes** and press the **OK** key. The phone turns itself off and back on, then returns to Standby mode.

WAP

About the Wap 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 plan.

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.

You can quickly lunch the web browser by pressing and holding i/C key in the standby mode.

Lunch Wap

i/C -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 **Lunch Wap** menu connects your phone to the wireless web.
2. Once you are connected, the home page or the last page you visited displays.

   The opening page contents may be different according to your wireless web service provider.
3. To scroll through the screen, use the ▲ or ▼ key.

Exiting the Web Browser

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

Using the Web Browser Soft Keys

At the bottom of the web browser display is a solid bar which contains browser commands. The ◄ and ► keys 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 when on a normal phone call.

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 entering text.

Left and right soft keys: These are the soft keys used to execute the commands at the bottom of the browser display. Also, use these key to move the cursor to the left or right when entering text.

MENU key: This key is used for secondary options or a menu of secondary options.

OK key: This 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 functions:

- Sends you back in the browser. Pressing it once sends you back one page. Pressing and holding this key sends you back to the home page.
- Clears out the 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 Menus

On the web browser, you can access the following options by pressing the **MENU** key:

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 directly load a bookmarked web page.

Mark Site: allows you to set a bookmark for most pages; 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 following advanced features:

- Show URL: displays the URL address of the site where 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 same way as in the phone mode. See page 45 for further details about how to enter characters.

Health and Safety Information

Exposure to Radio-Frequency Energy (SAR Information)

This phone meets Australian Communications Authority (ACA) requirements (AS/NZS 2772) concerning exposure to radio waves.
Your mobile phone is a radio transmitter and receiver. It is designed and manufactured, so as not to exceed the limits for exposure to radio-frequency (RF) energy, as recommended by ACA. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines were developed by independent scientific organisations through periodic and thorough evaluation of scientific studies. The limits include a substantial safety margin designed to ensure the safety of all persons, regardless of age and health.

The exposure standard for mobile phones employs a unit of measurement known as SAR (Specific Absorption Rate). The SAR limit recommended by ACA is 1.6W/kg*.

* The SAR limit for mobile phones used by the public is 1.6 watts/kilogram (W/kg) averaged over one gram of body tissue. The limit incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements. The SAR values may vary depending on the national reporting requirements and the network band.

Precautions When Using Batteries

- 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 (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 lifetime 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-circuiting.
- 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.

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 minimise 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 Environment

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.

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, proceed as follows.

1. If the phone is not on, switch it on.
2. Key in the emergency number for your present location (for example, 112 or any other official emergency number). 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 while it is charging. 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 it. Paint can clog the device's moving parts and prevent proper operation.
- Do not put the phone in or on heating devices, such as a microwave oven, a stove or a radiator. The phone may explode when overheated.
- 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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The index will be updated in a later version

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SAMSUNG

SCH-N361 Quick Reference Card

BASIC OPERATIONS

Make a call	Phone number +	Save a Number	Enter Number + **OK** + **OK** + ◄ / ► to select Label + **OK** + Enter Name + **OK** + ▲ / ▼ to select Entry/Home/Work/Mobile /Pager/Fax/Other number/Speed dial/E-mail/URL/Group/Name Ringer/Birthday/Secret/Image) + ◄ / ► to change the settings or **MENU** to enter information + **OK** + **OK**
End a call			
Receive a call	or open the phone		
Adjust the key beep volume	*(in Standby mode)*		
Adjust the speaker volume	*(during a conversation)*	Speed dialing	Enter Memory Location of the number you want, holding the last digit to automatically dial.
Redial the last call	twice		
Switch to Silent mode	Hold #	Phonebook Search	Press ▲ + ◄ / ► + ▲ / ◄ + **OK** or
Voice dialing	Hold * or open the folder + Say a name	Launch the web browser	Press

MENU TREE

Main Menu *(To access, press the **MENU** key)*

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 : WAP Alert 7 : Erase 3 : MSG Setting
4 : Planner	1 : Today 2 : Scheduler 3 : Task List 4 : Memo Pad 5 : Alarm 6 : Calculator 7 : World Time 8 : Count Down 9 : Set Time
5 : Voice Tools	2 : Voice Memo 3 : Voice Answer
6 : Sounds	1 : Ringer Volume 2 : Ringer Type 3 : Alerts 4 : Key Tone 5 : Roan Ringer 6 : Power On/Off
7 : Display	1 : Menu Style 2 : Wallpaper 3 : Backlight 4 : Banner 5 : Dual Clock 6 : Service LED 7 : Contrast
8 : Games	1 : Fun Bowloing 2 : Honey Ball 3 : Hamster Box
9 : Setup	1 : Auto Answer 2 : Call Answer 3 : Auto Key Lock 4 : Auto Retry 5 : Select NAM 6 : Set System 7 : Data/Fax 8 : Version 9 : Security

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U.S Patent No. 4,901,307 5,056,109 5,099,204
5,101,501 5,103,459 5,107,225
5,109,390