

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



PORTABLE CELLULAR
TELEPHONE
SCH-A301
User's Manual

Draft version (2001.5.7)

World Wide Web
<http://www.samsungmobile.com>

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CC RF EXPOSURE INFORMATION

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

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

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

Body-worn Operation

This device was tested for typical body-worn operations using the optional belt-clip/holster placed 1.5cm from the body. To comply with FCC RF exposure requirements, a minimum separation distance of 1.5cm must be maintained between the user's body and the phone, including the antenna, whether extended or retracted. The use of third-party belt-clips/ holsters with no metallic components that provide the minimum separation distance of 1.5cm can be used to satisfy FCC RF exposure requirements. The use of non-tested accessories or other body-worn operations may not comply with FCC RF exposure requirements and should be avoided. Contact your local dealer for optional accessory items.

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 website at www.fcc.gov

SAR Information & FCC ID Labeling

THIS MODEL PHONE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg.* Tests for SAR are conducted using standard operating positions specified by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone when tested for use at the ear is XXXXX and when worn on the body, as described in this user guide, is XXXXX. (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF emission guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on FCC ID XXX XXXX.

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

* In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

Note: The URL <http://phonefacts.net> may be used in place of <http://www.wow-com> for direct access to SAR information.

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Safety Precautions and Important Notices

Read these simple guidelines. Failure to comply with these guidelines may be dangerous or illegal. For more detailed safety information, see “Safety Information” on page 116.

Road safety comes first

Do not use a hand-held phone while driving; park the vehicle first. Remember that in some countries, it is illegal to use a hand-held phone while driving.

Switch off when refuelling

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

Switch off in aircraft

Mobile phones can cause interference. Using them on aircraft is both illegal and dangerous.

Switch off in hospital

Follow any regulations or rules. Switch the phone off near medical equipment.

Respect special regulations

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 (in a hospital, for example).

Interference

All mobile phone may be subject to radio interference, which may affect their performance.

Use qualified service

Only qualified service personnel must install or repair cellular equipment.

Use sensibly

Use only in the normal position (to ear). Do not touch the antenna unnecessarily when the phone is switched on.

IMPORTANT! Use only accessories approved by the phone manufacturer. This apparatus is intended for use when supplied with power from SAMSUNG approved Travel charger. The use of any other types will invalidate any approval or warranty applying to the phone, and may be dangerous.

When you disconnect the power cord of any accessory, grasp and pull the plug, not the cord.

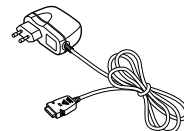
Unpacking

Your package contains the following items.

Handset



Travel Charger



Battery



Hand Strap



User's Manual



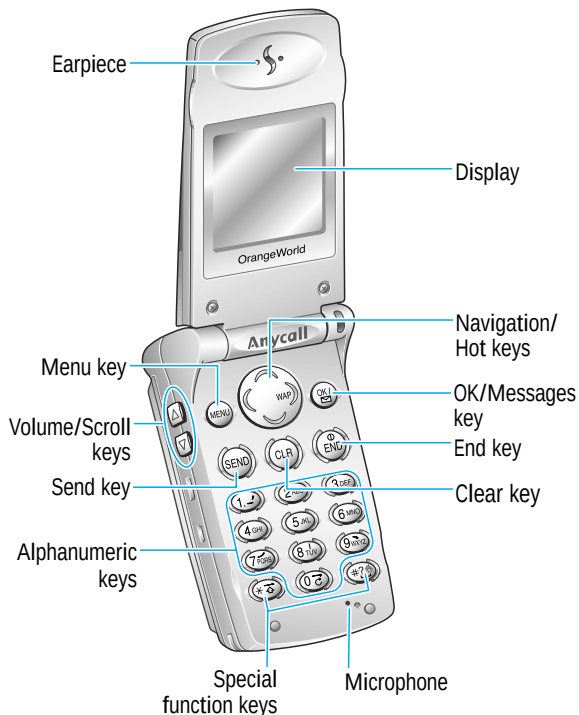
In addition, you can obtain the accessories for your phone from your local SAMSUNG dealer. For information on the accessories, see page 113.

Your Phone

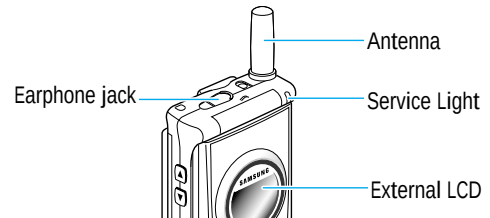
Phone Layout

The following illustrations shows the main elements of your phone.

With the phone open



With the phone close



Keys Functions



Enters the menu facility. Also, scrolls through the main menus.



In the menu facility, confirms the selection and input.
In Standby mode, enters the Messages menu.



In the menu facility, scroll through the menu options and phone book memory, and select a menu function or stores information that you have entered.
In Standby mode, allow you to enter the following menus depending on the direction.

- ⤴ : Phone Book (listed by names)
- ⤵ : Lady function
- ⤶ : Scheduler
- ⤷ : WAP Service

Keys Functions



Makes or answers a call.
In Standby mode, recalls the last number dialed.



Deletes characters from the display.
In the menu facility, returns to the previous menu level.
In Standby mode, displays the digital clock while pressed and held.



Ends a call. Also switches the phone on and off when pressed and held.
In the menu facility, cancels your input and returns to Standby mode.



Enters numbers, letters and some special characters.



Use these keys for various purpose in different functions.

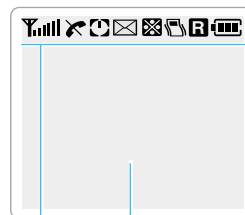


(on the side of the phone)
In Standby mode, adjust the key volume.
During a call, adjust the earpiece volume.
In the menu facility, scrolls through the menu options.



Display

The display comprises two areas: an upper line of icons, and the lower text and graphic area. The following icons display at power-on:



Icons

Text and graphic area



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



Service: Appears when a call is in progress.



No service indicator: Appears when you are outside a service area. When it appears, you cannot make or receive calls. Wait a little while for a signal or move into an open area.



Alarm: Indicates that you have set an alarm.



New message: Appears when a new message has been received.



Text Input Mode: Indicates the current text input mode when entering text.

For details on the text input modes, see page 34.



Vibrator on: Appears when a vibrate mode is on. An incoming call will vibrate the phone rather than ring it.



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



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

External LCD

Your phone has an external display on the cover. It indicates that you have an incoming call or a message, and notifies you at the specified time when you have set an alarm.

When you press and hold down the volume keys on the left side of the phone with the phone closed, the backlight of the external display illuminates.

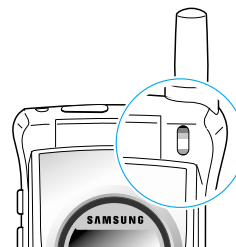
Backlight

The display and keypad are illuminated by a backlight. When you press any key, 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 a Hands-Free Car Kit (optional).

To specify the length of time for which the backlight is active, set the **Backlight** menu option (7.4.1) in Display; see page 103 for further details.

Service light

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



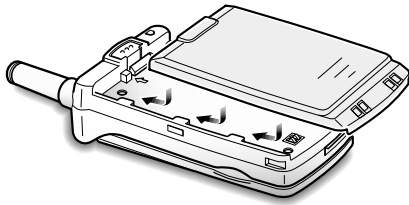
To activate or deactivate use of the service light, set the **SVC LED** menu option (7.4.3); see page 104 for further details.

Getting Started

Installing Battery

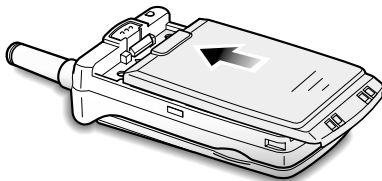
To Install the Battery

1. Place the battery on the base of the phone, as shown.



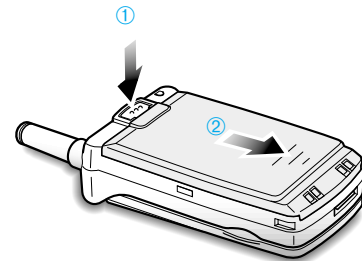
2. Slide the battery up towards the catch until it snaps into place.

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



To Remove the Battery

1. If necessary, switch off the phone by pressing and holding down (⏻) until the power-off animation plays.
2. Push down the catch and hold it in the position. (①), then slide the battery away (②).



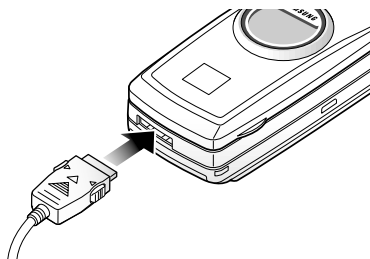
Charging a Battery

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

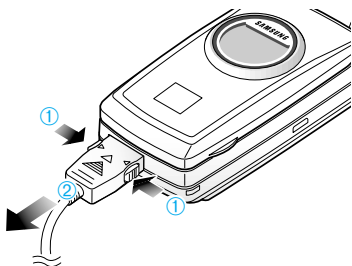
A travel charger is provided with your phone. Use only Samsung-approved batteries and chargers. Ask your local SAMSUNG dealer for further details. The phone can be used while the battery is charging.

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.

1. With the battery in position on the phone, connect the lead from the travel charger to the jack on the bottom of the phone.

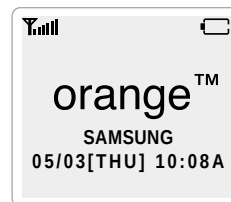


2. Plug the power cord of the charger into a standard wall outlet.
3. When charging finished (the indicator on the connector of the charger turns green), disconnect the charger from the power outlet and remove it from the phone by squeezing the two tabs on the lead (①) and unplug the lead (②).



Low Battery Indicator

When the battery charge level is almost empty and only a few minutes of talk time remain, an empty battery icon (no bars displayed) blinks in the top right corner of the display. You will hear a warning tone.

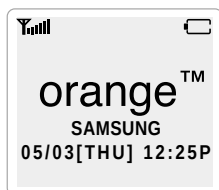


When the battery becomes too weak for the phone to operate, it switches off automatically.

Switching the Phone On/Off

1. Open the phone.
2. Press and hold down  to switch the phone on.

The service light of the phone flashes, and an alert sounds. When the system locates services, the greeting message displays along with the date and time. The external LCD shows the signal strength, battery strength and current time and date.



- If the phone is out of service, the  icon appears in the display. In this case, you cannot place and receive calls. You can try again later when service is available.
- If your phone is locked, the Lock icon  displays. Enter the four-digit lock code to use the phone.

To unlock your phone, deactivate the Auto Lock menu option (**Menu 9-✱**). For details, see page 111.

3. When you wish to switch the phone off, press and hold down  until the power off animation begins to play.

WARNING!

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

Note: Your phone has a built-in antenna. As with any other radio-transmitting device, do not touch the antenna unnecessarily when the phone is switched on. Contact with the antenna affects 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 soon after you turn it on, or whenever you briefly press . When your phone is in Standby mode, you will typically see the greeting message and current date and time. If you enter a phone number, you can press  to dial it.

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

Talk Mode

You can place and answer calls only when your phone is turned on. During a call, the phone is in Talk mode. While you are in Talk mode, pressing  gives you a list of options referred to as “In-Use Menu Options.” See page 27 for details on the options.

Power Save Mode

Your phone comes with a Power Save feature that will automatically be activated if your phone is unable to find a signal after 15 minutes of searching. While this feature is active, the phone's battery charge is conserved. The phone will automatically recheck for a signal periodically. To manually force the phone to recheck for a signal, press any key. A message on the display will let you know when your phone is operating in Power Save Mode.

Lock Mode

You can lock your phone to keep your phone away from an unauthorized use.

When your phone is in Lock mode, you can see the Lock icon  in the idle screen and no key operates, except  and the numeric keys for entering the lock code. You can unlock the phone temporarily by entering the lock code and use the phone.

For details on locking and unlocking your phone, page 111.

Call Functions

Making a Call

In Standby mode, enter the area code and phone number, and press . The phone places the call to the entered phone number.

When entering the phone number, pressing  allows you to access the following Dial options.

Phonebook: allows you to save the number in your phone book. For details on saving a numbers, see page 75.

Pose: inserts a pause. The numbers after a pause will be dialed after a few seconds.

Press  until the desired one is highlighted, and press .

Correcting the Number

If you make a mistake while entering numbers, clear the wrong number using  and enter the correct number.

To clear...

The last digit displayed .

The whole display

Then press...

and hold down  for more than one second.

Ending a Call

When you have finished your call, briefly press . The call time (length of call) displays with the name (if saved in phonebook) and number of the call party.

If the number is not stored in your Phone Book, your phone prompts you to save the number. Press  to save the number. For further details on saving a number, see page 75. If you do nothing, the phone automatically returns to Standby mode after about ten seconds.

Or, close the phone to end a call.

Redialing Last Number

To redial the last number you called, press  twice.

The phone stores the last 10 numbers dialed. To recall any of these numbers, proceed as follows.

1. If necessary, press  to return to Standby mode.
2. Press  to access the list of outgoing calls.
3. Press  to scroll through the list until the required number is displayed. Then, press  to dial the displayed number.

Speed Dialing from Phone Book Memory

Once you have stored phone numbers in the phone book memory (001 through 199), you can dial them easily whenever you want. See page 75 for details on storing phone numbers.

One-Touch Dial

Memory locations 001 through 009 are special one-touch locations. Press and hold the last digit of the memory location containing the number to be dialed.

For example: Location no. 009

Press  and hold.

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

Two-Touch Dial

Memory locations 010 through 099 are special two-touch locations. Press the second digit briefly, then hold down the third digit of the memory cell.

For example: Location no. 023

Press  briefly and hold down .

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

Three-Touch Dial

Memory locations 100 through 199 are special three-touch locations. Press the first and the second digit briefly, then hold down the third digit of the memory cell.

For example: Location no. 129

Press  and  briefly and hold down .

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

Note: When several numbers are saved in one location, only the first-saved number which was automatically set as the speed dial number for the location will be automatically dialed. You can change the Speed Dial number while editing. For details, see the options in “Finding a Number by its Name” on page 72.

Four-Digit Dialing

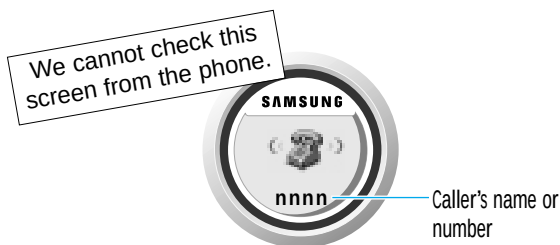
This feature allows you to enter any four consecutive digits of a stored phone number, have your phone remember the rest of the number and then dial the entire number for you. This feature is convenient if you have the number memorized, but you have forgotten what Phone Book location the number is stored in.

1. Enter any four digits of a phone number that you have stored in Phone Book.
2. Press . The phone automatically dials the entire number.

Note: If your Phone Book has more than one phone number stored that contains the four digits, The phone displays the number of the phone numbers containing those four digits with the name. Scroll through the listed phone numbers using  to select the desired number.

Answering a Call

When somebody calls you, the phone rings and the phone icon in the middle of the screen flashes.



If the caller can be identified, the caller's phone number (or name if stored in your phone book) is displayed. If the caller cannot be identified, only the phone icon flashes.

1. If necessary, open the phone and press  to answer a call.

If the **Answer Mode** menu (3.5) is set to **Anykey**, you can press any key except .

2. End the call by closing the phone or pressing .

Note: You can answer a call while using the Phone Book or menu features. Your setting will be canceled.

Quick Switching to Vibrate Mode

You can quickly set your phone to vibrate when a call comes in.

Press and hold  in Standby mode.

If you press and hold the key again, the previously set ring type will be resumed.

If you want to set the phone to ring or any other ring type, see 'Ring Type' on page 105.

In-Use Menu Options

Your phone provides a number of functions that you can use during a call. You cannot utilize all of these functions at all times. Many of the In-Use Menu Options are network services.

Press  during a call to choose some or all of the following In-Use Menu options:

Phone Book: allows you to access the Phone Book menu (**Menu 4**).

Message: allows you to access the Messages menu (**Menu 6**).

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

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

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

Note: To communicate with answering machines or computerized telephony systems, the **Silent Keys** option must be disabled.

Send Tel #: sends DTMF tones of your number.

During a call, some keys have special functions.

 : sends DTMF tones of the currently displayed number. DTMF (Dual Tone Multi Frequency) tones can be used to control electronic phone services such as bank-by-phone or voice mail. During a call, key in the digits you want to send as DTMF tones, for example, the bank account number and password. Then, press this key.

 : increases reception of the microphone so that the other party can hear your voice more loudly.

 : decreases reception of the microphone so that you can make your voice lower.

Viewing Missed Calls

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

Press  to call the displayed number, or  to clear the message and return to Standby mode.

Dropped Calls

A dropped call can occur during a conversation in response to a signal fade or leaving a service area. In this case, the call ends and "Signal Faded" displays.

Press  to clear the message and return to Standby mode.

Failed Calls

A failed call can occur if your phone is out of calling range or the network is temporarily busy. Your phone responds to a failed call by displaying an appropriate message: "Call Failed Out of Range" or "Call Failed Network Busy".

Press  to clear the message and return to Standby mode.

Call Waiting

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

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

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

To answer a waiting call:

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

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

Three-Way Calling

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

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

To place a Three-Way call:

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

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

Call Forwarding

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

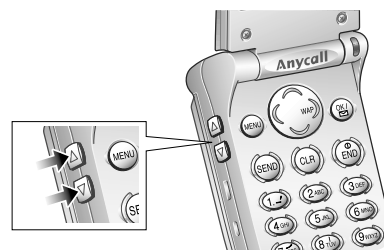
Using the Display Notepad

Your phone has a really convenient feature for entering a phone number while on a call as if it were a note pad.

Say you are talking to a friend who wants to give you a phone number. Just enter the number using the keypad, and the number appears on the display. Then, when you hang up, the number remains in the display so that you can press **(SEND)** to be immediately connected to that party. Or press **(MENU)**, select **Phonebook** and follow the prompts to store the number into your phone book. For details on saving a number, see page 75.

Adjusting the Volume

During a call, if you want to adjust the earpiece volume, use the volume keys on the left side of the phone. Press **▲** to increase and **▼** to decrease the volume.



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

Entering Text

The phone allows you to enter characters for messages and names in Chinese and English. To enter Chinese text, the phone provides character shape based (Stroke) input method allowing for greater convenience and ease of use.

You can also enter any combination of English alphabets, numbers, and special symbols including punctuation marks.

You are provided with the following text input modes;

- **Symbol:** allows you to enter various symbols and special characters.
- **Number:** allows you to enter numbers.
- **T9 Stroke:** allows you to enter the Chinese character using the individual strokes labeled on keys.
- **T9 English:** allows you to enter the English characters with only one keypress per character.
- **Alpha(ABC):** allows you to enter English characters by pressing the key labeled with the desired character repeatedly until the character displays.

Note: You can enter numbers in each mode by pressing and holding the keys corresponding to the desired digits.

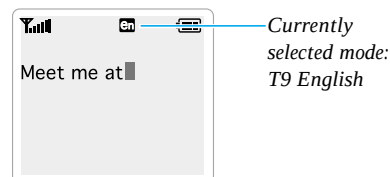
Changing Text Input Mode

When you are in a field that allows character entry, you should notice the text input mode indicator in the bottom of the display.



You can change between Chinese input methods, and English or to numbers input. To change to another text input mode:

1. Press to access the Input Mode menu.
2. Scroll to the desired mode by pressing or repeatedly. The following options are available; Symbol, Number, T9 Stroke, T9 English and Alpha(ABC).
3. When the mode is highlighted, press to select it.
4. You will find the selected text input mode indicator in the top line of the display.

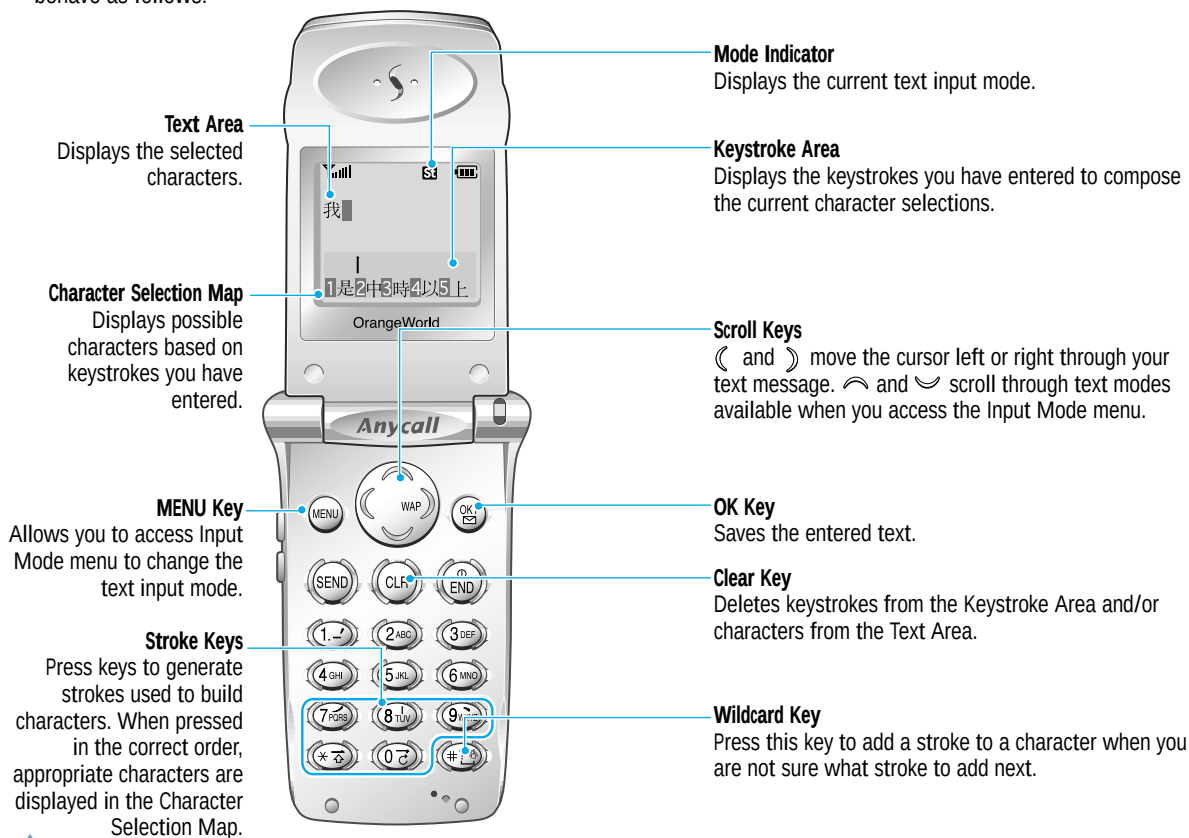


Note: If you want to exit the Input Mode menu without changing the mode, press .

T9 Stroke Mode

This mode allows you to enter individual Chinese strokes, in written order - from top to bottom, and from left to right.

When the phone is in the T9 Stroke mode, keys behave as follows:



3. When the character you are typing appears in the Character Selection Map, you may select it without finishing the stroke sequence for the character. The numbered Characters (1 ~ 5) displayed in the Character Selection Map. To select a character from the Character Selection Map and add it to your message, press the corresponding key (1-5) to (5-10).

Note: If you are uncertain of the order of one or more strokes, press (H 7-5) in place of each questionable stroke. Continue entering strokes until the character is displayed in the Character Selection Map or until you have finished the character.

Clearing Strokes and Characters

Press (CLR) one or more times to remove strokes to the left. Once the Key Stroke Area is empty, pressing (CLR) removes characters from the Text Area.

Rapid Character Entry

Rapid character entry is easy in any mode, using the Character Selection Map. As you enter characters, your phone predicts the next character you might want and presents choices in the Character Selection Map area. When a desired character appears, you may select it as described above.

In most cases, you will see the desired character in the Character Selection Map area before you have entered all of the strokes to build it.

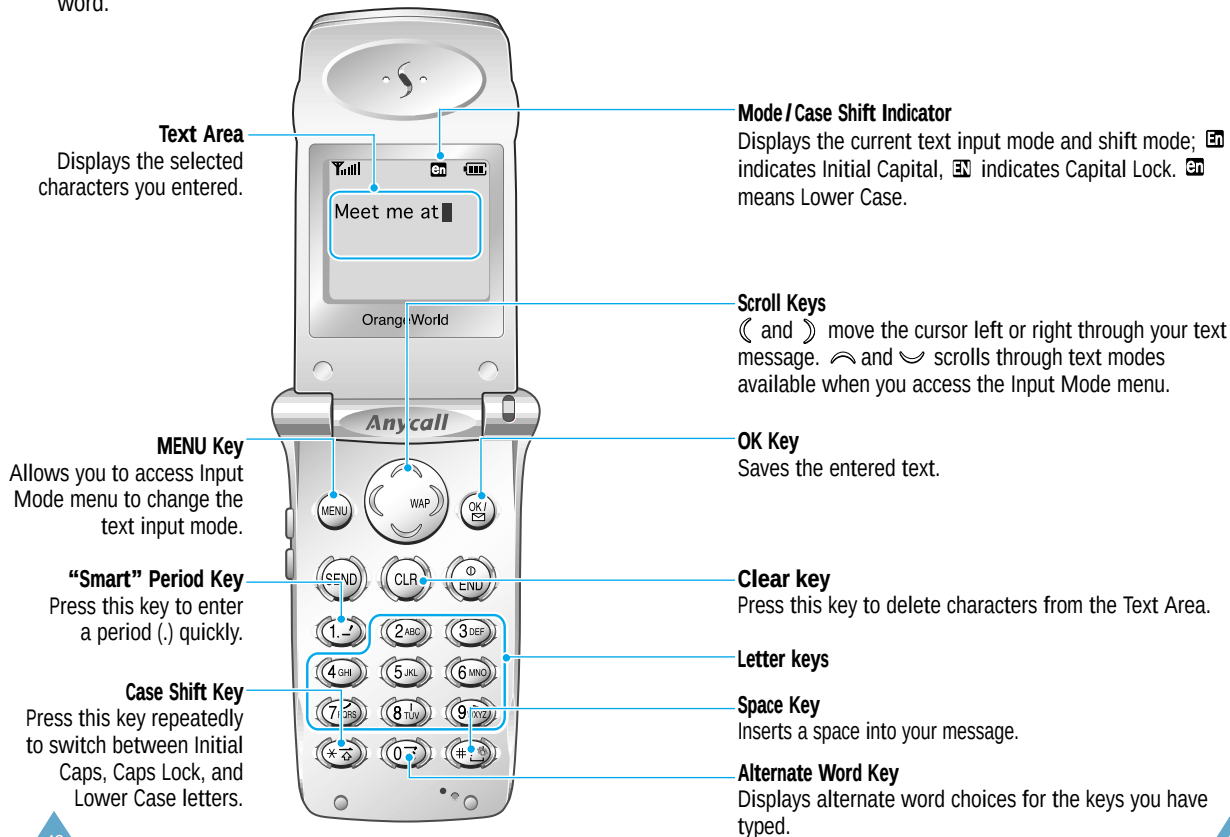
For example, try typing the twelve stroke character pair “中國” using the following keystrokes; (8-10), (2-10), (1-5). Even though “中國” is a twelve stroke character pair, your phone enables you to type it in only three key presses!

T9 English Mode

This mode allows you to enter English words with only one keypress per letter. Each key on a keypad has more than one letter - a single press on the  key could be J, K, or L. The **T9 English** mode automatically compares your key presses to an internal linguistic database to determine the correct word.

The mode requires far fewer keystrokes than the traditional multi-tap method; **Alpha(ABC)** mode.

When the phone is in the **T9 English** mode, keys behave as follows:



Typing English Words

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

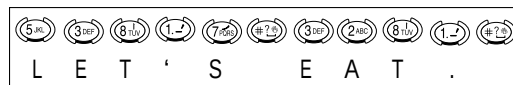
1. Press keys on the handset just once per desired letter. For example, to enter 'hello', press (4 04), (3 04), (5 34), (5 34), (6 140).
2. The word you are typing appears in the display. It may change with each key you press.
3. Type to the end of the word before editing or deleting any keystrokes.
4. Complete each word with a space by pressing (# 7.0).

If the word that appears in the display is not the word that you desire, press (0 2) one or more times to display alternate word choices for the keys you have typed. (For example, 'of' and 'me' both shares the sequence (6 440), (3 04).) The phone displays the most commonly used choice first.

To type words not found in the phone database, change the text input mode to English mode. Words typed in English mode are automatically added to the phone database so you can type them using T9 English mode the next time.

Smart Punctuations

Period, hyphen, and apostrophe are available on (1 2). T9 applies rules of grammar to insert the correct punctuation. Notice that (1 2) is used twice in this example to display two punctuation marks:

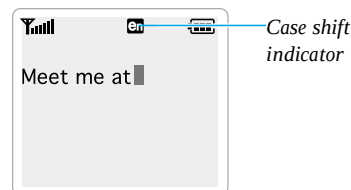


Upper Case Letters

There are three shift states:

- Lower Case (en indicator appears)
- Initial Cap (En indicator appears)
- Caps Lock (EN indicator appears)

Press (4 2) one or more times to display the appropriate shift indicator, and begin typing normally.



Scrolling

- To view your message without moving the cursor, press the volume keys on the left side of the phone.
- To move the cursor left or right through your text message, press  or .
- To scroll through alternate word choices for the keys you have entered, press .

Clearing Letters and Words

Press  one or more times to remove letters to the left. Press and hold  to erase entire words.

Alpha(ABC) Mode

When typing in English mode, you should press key labeled with the required character:
 -Once for the first character
 -Twice for the second character
 and so on.

For example, you press  three times quickly to display the character “C”,  two times quickly to display the character “L”. So, this method is called Multi-tap typing.

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

List of characters available:

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

(Caps Lock mode)

To shift the case of the next character(s) that you type, press  one or more times. There are two shift states:

Lower Case is indicated by  in the display, and Capitals Lock is indicated by .

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

If you enter a specific word in this mode the first time, the word is automatically added to your phone's database, and offers the new word as an option for its keystroke sequence when you are in T9 English mode.

- To move the cursor left or right through your text message, press  or .
- To insert a space, press .
- Press  one or more times to remove letters to the left. Press and hold  to erase entire words.

Symbol Mode

Symbolic mode enables you to enter symbols into a text message.



To scroll through the symbols available, press  or  (or  or  on the left side of the phone). Press the keys corresponding to the desired mark, then the phone automatically switches back to the text entry mode used just prior to selecting Symbol mode.

Number Mode

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

Note: You can enter numbers in the other modes by pressing and holding the keys corresponding to the desired digits without changing to Number mode.

Using the Menu

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

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

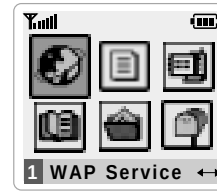
Accessing a Menu Functions by Scrolling

The following keys are used to set the menu option by scrolling then selecting an option.

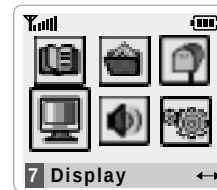
To...	Then press...
Enter the menu facility	
Scroll to the desired menu options	
Enter the menu displayed or the highlighted option	
Move back to the previous menu level	
Exit the menu facility without saving the setting	

Example: Setting the **SVC LED** menu option.

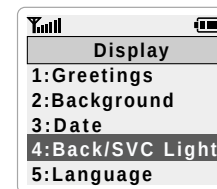
1. In Standby mode, press  to access the menu facility.



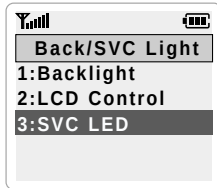
2. Scroll to **Display** by pressing . Then, press  to enter the selected menu.



3. Scroll to **Back/SVC Light** by pressing . Then, press  to enter the menu.



4. Select **SVC LED** by pressing  and pressing .



5. Select the desired setting by pressing .



6. Press  to confirm your selection.

Your phone saves the setting and then returns to Standby mode.

Accessing a Menu Functions by Using its Shortcut

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

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

Example: Accessing the **SVC LED** menu

Press , and key in , , .

MENU for entering the menu facility, **7** for **Display**, **4** for **Back/SVC Light**, **3** for **SVC LED**.

3. Press  to scroll to the desired setting, and press .

Note: The numbers assigned to each menu function are indicated on the list on page 54.

List of the Menu Functions

The list shows the menu structure available and indicates the:

- Number assigned to each option
- Page on which you can find a description of each feature

1. WAP Service

- 1-1: WAP Service
- 1-*: Modem Setting
 - 1-*-1: Connect Sound
 - 1-*-2: Auto Connect
 - 1-*-3: High Rate Data

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2. Orange Menu

This menu depends on what the orange network provides you.

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3. Calls

- 3-1: Outgoing
- 3-2: Incoming
- 3-3: Delete Number
 - 3-3-1: Erase Outgoing
 - 3-3-2: Erase Incoming
- 3-4: Air Time
- 3-5: Answer Mode

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4. Phone Book

- 4-1: Find Number
 - 4-1-1: Name
 - 4-1-2: Address
 - 4-1-3: Group
- 4-2: Add Entry
- 4-3: Edit Group
 - 2-3-1: Add
 - 2-3-2: Edit
 - 2-3-3: Erase
- 4-#: My Phone #

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5. PIM

- 5-1: Scheduler
- 5-2: To Do List
- 5-3: Calculator
- 5-4: Set Time
- 5-5: Alarm
 - 5-5-1: Morning Call
 - 5-5-2: M.C. Release
 - 5-5-3: Alarm
 - 5-5-4: Alarm Release
 - 5-5-5: Alarm Melody
- 5-6: World Time
- 5-7: D-Day
- 5-8: Game
- 5-9: Lady Function
 - 5-9-1: Fatness Index
 - 5-9-2: Calory
 - 5-9-3: Pink Schedule

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6. Message

→ 6-1: Rx Message

- 6-1-1: Voice Mail
- 6-1-2: Text
- 6-1-3: Erase All
- 6-1-4: Alert
- 6-1-5: Display

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7. Display

→ 7-1: Greetings

→ 7-2: Background

- 7-2-1: Power On/Off
- 7-2-2: Wall Paper
- 7-2-3: Screen Saver
- 7-2-4: Text Slide

→ 7-3: Date

→ 7-4: Back/SVC Light

- 7-4-1: Backlight
- 7-4-2: LCD Control
- 7-4-3: SVC LED

→ 7-5: Language

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8. Sounds

→ 8-1: Ring Type

→ 8-2: Ring Tone

- 8-2-1: Bell
- 8-2-1: Melody
- 8-2-1: CDMA Melody
- 8-2-1: My Melody

→ 8-3: Ring Volume

→ 8-4: Connect Tone

→ 8-5: Release Tone

→ 8-6: DTMF Tone

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9. Setup (Lock code required)

→ 9-1: Restrict

- 9-1-1: Lock Code
- 9-1-2: Private Life
- 9-1-3: Memory
- 9-1-4: Receiving Call
- 9-1-5: Int. Call
- 9-1-6: Incoming Num.

→ 9-2: NAM Phone#

→ 9-3: Send PIN

→ 9-4: Vocoder

→ 9-#: Auto Lock

→ 9-#: Initialize

→ 9-1-7: Clear All

→ 9-1-7: Reset Phone

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WAP Service

You can use the **WAP Service** menu to:

- Launch the WAP browser to access the Internet
- Set the modem for network services

WAP Service

Menu 1.1

Your phone comes equipped with a Web Browser 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 in that site providers have selected only the critical aspects of their site to present to wireless phone users, and have removed most graphics.

Each time you start the Web Browser, the phone will connect to the Wireless Web and the service indicator icon () will appear on the display. Any time the service indicator icon is visible on the display, you are connected to the Wireless Web and will be billed accordingly. Rates will vary according to your service option.

The Web Browser will end the connection after a certain period of network inactivity and will automatically reconnect as necessary. For this reason, you may find that you are billed for several network connections within a single session. This is normal and is designed to minimize your bill.

Launching the WAP Browser

Note: The first time you use the WAP 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 WAP Service menu connects your phone to the Wireless Web.

You can quickly access WAP Service menu by pressing  in Standby mode.

2. Once connected, the Home page (or the last page visited) will be displayed.
3. The opening page when accessing the WAP Browser is dependent on the Wireless Web service provider content. To scroll through the screen, use  or .

Exiting the WAP Browser

To exit the Browser, simply press  at any time.

Using the WAP Browser Soft Keys

At the bottom of the browser display is a solid bar which contains browser commands. “Soft” keys ( and ) below the solid bar are used to execute the commands. These two keys are called soft keys because their function changes depending on where you are in the WAP Browser software.

Navigating the WAP Browser

When you use the WAP Browser, some keys on your phone operate differently than on a normal phone call. These keys are explained below. The Web Browser presents on-screen items in one of the following ways:

- text or numeric input
- links (embedded in content)
- numbered options (some options may not be numbered)
- simple text

You can act on the options or links by making use of the soft keys. The soft keys are located below the bottom line of the display.

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



Up/Down Navigation Key: Use the navigation key to scroll to and select browser options. The currently selected option is indicated by the ► symbol. You can also use the navigation key to move the cursor when editing text.



MENU Key: This is the left soft key. The right soft key is used primarily for secondary options, or a menu of secondary options. For more information, see “Using the WAP Browser Soft Keys.” on page 59.



OK Key: This is the right soft key. The left soft key is used primarily for selecting the highlighted item, but its function may change depending on what you are doing (see “Using the WAP Browser Soft Keys.” on page 59).



END Key: Exits the browser and returns the phone to Standby mode.



Right Cursor Key: Moves the cursor right in a text entry.



Left Cursor Key: Moves the cursor left in a text entry.



CLR Key: This key performs two important functions:

- Backs you up in the browser. Pressing it once backs you up one page. Pressing and holding this key backs you up to the Home page.
- Clears out entered text or numbers. When entering numbers or text, 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 Key: Allows you to scroll up or down by a page.

Entering Text, Numbers or Symbols in the Web Browser

When prompted, you can enter text, numbers or symbols using the same way as in the phone mode. See page 34 on how to enter letters.

Using Links

Links have several purposes, including jumping to a different page, jumping to a different site, or even initiating a phone call from some sites. Links are shown inside of brackets ([]), and you can normally use the left soft key to select a link when it is highlighted.

Initiating a Phone Call during a Web Browser Session

You may initiate a phone call from the Web Browser if the site you are using supports this feature (the phone number may be highlighted and the left soft key will appear as “Call.”). In most cases, you can also use  to call the number. The browser connection will be terminated when you initiate the call. After you end the call, your phone will return to Standby mode.

Using Bookmarks

You can bookmark many individual pages for easy access at a later time. Bookmarks save you time by reducing the number of steps it takes to access a desired page.

To Create a Bookmark

1. Go to the page that you want to mark.
2. Press and hold . A list of options appears.
3. Select **Mark Site**.
4. If the page has a title, it will be automatically used for the name of the bookmark. You can also change the bookmark name. Selecting **Save** will save the name and add the page to your list of bookmarks.
5. A message will appear confirming that the bookmark was added to the list. Select **OK** to return to the screen that you marked to resume navigation within the Web Browser.
6. The new bookmark is added to the bottom of your bookmark list.

Finding a Bookmark

1. From the Home Page, select **Bookmarks**.
2. Select the bookmark you want and press .

Or, from the Home Page, press and hold the number associated with the bookmark in the bookmark list.

Modem Setting

Menu 1. *

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

To use digital data or fax services with your phone, you will need to obtain digital data/fax kit from your service provider. This kit will contain the necessary cables, software, and documentation required for you to connect and use your phone with your computing device. Refer to your data kit manual for further details on setting up your computing device.

Note: The phone must be on a digital network to receive fax and data.

Connect Sound

This option allows you to set how you are alerted when the phone receives data or fax calls. You can see the current setting marked with *. The following options are available.

Bell: you can select the desired one of 5 bell types.

Melody: you can select the desired one of 15 melodies.

My Melody: you can select your favorite melodies downloaded using your WAP service or the PC Link program. You can download up to three melodies.

Auto Connect

You can set the phone to functions as a modem to receive data and fax calls.

Release: The reception mode for the data and fax is released. Your phone only receive the voice calls.

Modem Connect: The reception mode for data is set. The phone automatically receives incoming data when the data cable is connected.

Fax Connect: The reception mode for fax calls is set. The phone automatically receives incoming fax calls when the data cable is connected.

High Rate Data

You can set the transmission rate for data and fax to high.

Select **Set** to receive data in high rate. If not, select **Cancel**.

Orange Menu

Using this menu, you can get various information from the Orange network service, such as Stock, Horse racing, Weather, Traffic, News, and so on.

Select an item about which you want to get information, and you are now connected to the Orange network and have a unique range of services at your fingertips.

For details on the Orange menu, contact your service provider.

Calls

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

- View the records of the last outgoing or incoming calls.
- Erase the numbers in the Call log memory.
- View the duration of calls and specify the answer mode.

Outgoing

Menu 3.1

The phone stores up to 10 calls you dialed. When you access this menu, the list of outgoing calls are displayed.

To...

Select an entry

Dial the selected entry

View the details on the call

Press...



When you press , you can view the date/time stamp for the selected entry. If there is a Phone Book match, the name displays.

Press  to access **Options**. Highlight the desired one using , then press . The following options are available:

Phonebook: saves the selected number in Phonebook. For more details on saving the number, see page 75.

Pose: allows you to insert a pause after the number.

Incoming

Menu 3.2

This option lets you view the last 10 calls placed to your phone. When you access this menu, the list of incoming calls are displayed.

To...

Select an entry

Dial the selected entry

View the details on
the call

Press...



When you press , you can view the date/time stamp for the selected entry. If there is a Phone Book match, the name displays.

Press  to access **Options**. Highlight the desired one using , then press . The following options are available:

Phonebook: saves the selected number in Phonebook. For more details on saving the number, see page 75.

Pose: allows you to insert a pause after the number.

Delete Number

Menu 3.3

You can erase the entries stored in each of the Call Logs.

Erase Outgoing: The calls you made are erased.

Erase Incoming: The calls you received are erased.

When a confirming message displays, highlight **Yes** or **No** using , then press .

Air Time

Menu 3.4

Your phone records the amount of air time (or talk time) used. Using this option, you can view the air time of the last call to or from your phone, and the air time for all calls.

“Tot.” indicates the total length of all calls made to or from your phone since the phone was shipped from the factory and “Last” indicates the length of the last call.

You can easily erase the airtime measurement by pressing  while the air time displays .

Answer Mode

Menu 3.5

This menu option allows you to select how to answer when an incoming call comes. It is preset to Anykey. The following options are available:

SEND: To answer the incoming call, you must press



Anykey: To answer the incoming call, you can press any key except .

Phone Book

The Phone book allows you to store frequently used phone numbers and the associated names in your personal directory to make it easy for you to make a call without having to remember or enter the phone number. You can store up to 199 numbers.

Find Number

Menu 4.1

This option allows you to find the stored numbers in the Phone Book by name, memory address and group name.

Notes:

- You can locate Phone Book entries quickly when the phone is in Standby mode. Press , and the entries are listed in alphabetical order in the display.
- When the selected entry is displayed, press  or  to display to next or previous entry in the phonebook.
- If more than one numbers are stored by the different labels in the selected location, press  or  to find the desired number.

Finding a Number by its Name

This option allows you to find a stored number by its name.

1. Press  when **Name** is highlighted
2. Enter the starting character(s) of the name by pressing the associated alphanumeric key(s).
Using this method, the phone searches for the names in the list beginning with that character(s), and then displays the first name in that section of the list.
3. Press  or  to scroll to the desired name.
4. When the desired entry displays, press  to place a call, or  to display the name with the number, label and speed dial number.

With an entry selected, if you press , you can display the following options:

Edit: allows you to change phone number, name, speed dial number (if multiple numbers are saved) or group.

Add: allows you to add several different kind of numbers into the name, such as work office number or mobile number.

Del: deletes the number.

Highlight the desired one using , then press .

Finding a Number by its Memory Location

This option allows you to find a stored number by its memory address number.

1. Press  to select **Address**, and press .
2. Enter the number of the desired memory address, and press .
3. The phone displays the name with the number, label and speed dial number. Press  to place a call.

With an entry selected, if you press , you can display the options. For details, see the options in “Finding a Number by its Name” on page 72.

Finding a Number by its Group

This option allows you to find the stored number by its group name.

1. Press  to select **Group**, and press .
2. Press  to scroll to the group containing the number you want to find, and press .
3. Press  until you find the desired name from the list of the numbers in the group.
4. When the desired entry displays, press  to place a call, or  to display the name with the number, label and speed dial number.

With an entry selected, if you press , you can display the options. For details, see the options in “Finding a Number by its Name” on page 72.

Add Entry

Menu 4.2

This menu allows you to store a number with a name in your Phone Book. You can save a person's different kinds of numbers, such as workplace number, mobile number and pager number, into one entry. Using this feature, you can keep one's information together. It also helps you to find numbers easily in Phone Book.

Creating a New Entry

1. Enter the desired name for the entry, then press . You can enter up to 10 characters for English and 5 characters for Chinese. For details on how to enter text, see page 34.
2. The first available location highlights. To accept the displayed location, just go to next step. To select another location, enter the location number using the numeric keys.
3. Press , and enter the phone number you want to store.
4. Press , and select a label using  or . The available labels are: Home (), Office (), Mobile (), and Pager ().
5. Press  to go to the Group item.

If you do not want to set the group, press  when 'No Set' is highlighted. The entry is saved.

To set a group for the entry, go to next step.

6. Highlight 'Set' by pressing , then .
7. Select desired group from the list using , then .

Note: You can edit an existing group or add a new group. For details editing or adding a group, see page 77.

Adding a Number in an Existing Entry

You can store more than one numbers in one Phone Book location labeling each of the numbers.

1. Find the entry where you want to add a number.
When the entry is displayed, press  to display the options.
2. Press  to select **Add**, and press .
3. Enter the number and press .
4. You are asked to select a label. After selecting a label using  or , press .

Note: You can only use each label one time for each stored name. For example, you can only have one number labeled Mobile() for a name entry.

5. The number and its information are displayed.

Edit Group

Menu 4.3

This menu allows you to add a new group and edit or erase the exiting groups.

Adding a New Group

You can add up to three new groups.

1. Select **Add** using , then press .
2. Enter the name for the group. You can enter up to 10 characters for English and 5 characters for Chinese. For details on entering text, see page 34.
3. When you are satisfied, press .
4. Select the ring type for the group using , then press .
5. Select the desired one of the bell tones or the melody tones using , then press .

Editing an Existing Group

1. Select **Edit** using , then press .
2. Select the group you want to edit, and press .
3. Follow the steps 2 from 5 in "Adding a New Group" above to edit the group.

Erasing an Existing Group

1. Select **Erase** using , then press .
2. Select the group you want to erase, and press .

My Phone Number

Menu 4.#

You can display your phone number using this menu.

PIM

The PIM (Personal Information Management) feature provides various convenient functions for your life, such as scheduler, To do list, alarm, world time, and so on. You can also enjoy several games with your phone.

Scheduler

Menu 5.1

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

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

Selecting a Day in Calendar

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

Creating a New Schedule

To create a new schedule on a specific date, proceed as follows.

1. Scroll to the desired date in the calendar by using , and press .

Note: To skip to the previous or next month, press  or  on the left side of the phone.

2. Enter the time for the event and date, if necessary, then press .

Note: You must enter for hour in 24-hour format.

3. Enter the contents of the schedule and press . For details on entering text, see page 34.

4. Select the alarm type for the schedule between **Bell** and **Melody** using .

If you select **Off**, the phone does not alarms you the schedule.

5. Press  to save the schedule. You can see the day with the scheduled events are underlined in the calendar.

Adding, Editing, or Deleting a Schedule

When a stored schedule is displayed, press  to display the following options.

Edit: allows you to edit the today's schedule.

Add: allows you to add a new schedule on today.

Del: allows you to delete the schedule.

After you select an option by pressing , press . Then follow the screen prompt.

To Do List

Menu 5.2

Creating the To Do List Item

1. If there is no To Do item previously set, the display prompts you to add To Do item when you access this menu. Skip to step 3.

If there are any To Do items you have previously set, press  to display the options.

2. Press  to select **Add**. Then press .

3. Enter a task. For further details on how to enter characters, see page 34.

4. Press , and enter the desired date and time by when the task has to be done, then press .

5. You can view the To Do list.

Adding, Editing and Erasing an To Do Item

When a stored task is displayed, press  to display the following options.

Edit: allows you to edit the To Do item.

Add: allows you to add a To Do item.

Del: allows you to delete the To Do item.

After you select an option by pressing , press . Then follow the screen prompt.

Calculator

Menu 5.3

Using this feature, you can use the phone as a calculator. You can perform calculations including addition, subtraction, multiplication and division on your phone.

1. Enter the first number using the numeric keys.
2. Press  to set the operator for your calculation until the required arithmetic symbol appears: + (addition), - (subtraction), x (multiplication), / (division).
3. Enter the second number.
4. To perform calculation and see the result, press .

5. Repeat steps 1 to 4 as many times as required.

Each time you change the operator, the previous calculation is performed and the result is displayed as the top number in the display.

Notes:

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

Set Time

Menu 5.4

The option enables you to set the current date and time.

The current time, if set, displays. Enter the date and time using the numeric keys.

The month, day, hour and minute must be entered with 2 digits. The year requires all four digits. And you must enter for the hour in 24-hour format. If you do not input the time or you input the wrong time, the phone prompts you to enter again.

Alarm

Menu 5.5

You can set an alarm to sound at a specific time and a morning call to sound to wake you up in the morning.

Note: Keep in mind that if your phone is off at the alarm set time, the alarm will not sound. In order for the alarm to work, the phone must be on, and you must be in a service area.

Setting a Morning Call

1. Press  to select **Morning Call**, then press .
2. Press  to set the Call Repeat option, then press . The available options are **Daily**, **Mon~Friday** and **Mon~Saturday**.
3. Enter the time when the morning call work.

Note: You must enter for hour in 24-hour format.

4. When you have finished entering, press  to save the setting.

Releasing the morning call

To cancel the morning call, select **M.C. Release** by pressing , then press .

Setting an Alarm

1. Press  to select **Alarm**, then press .
2. Press  to select the Alarm Repeat option, then press .

If you select **Daily**, the alarm rings every day at the same time.

If you select **Once**, the alarm rings only once and then deactivates.

3. Enter the time when the alarm ring.

Note: You must enter for hour in 24-hour format.

4. When you have finished entering, press  to save the setting.

Releasing the Alarm

To cancel the alarm, select **Alarm Release** by pressing , then press .

Selecting an Alarm Melody

You can select a ring melody for the alarm.

1. Press  to scroll to **Alarm Melody**, and press .
2. Press  to select the desired one of three melodies or **Vibrator**, then press . Selecting Vibrator vibrates the phone instead of sounds the melody.

World Time

Menu 5.6

This menu tells you what time it is in 24 different time zones around the world.

Use  to find the current time in one of the following 24 time zones. Time zones are identified by one or more major cities, states, regions or countries in a time zone.

- Hong Kong, Beijing
- Guam, Sydney
- Wellington
- Honolulu, Hawaii
- LA, San Francisco
- Chicago, Dallas
- Caracas
- Mid Atlantic
- London
- Athens, Helsinki
- Abu Dabi
- Alma-ata
- Seoul, Tokyo
- Okhotsk
- Samoa, Midway
- Alaska
- Denver, Phoenix
- New York, Miami
- Buenos Aires
- Cape Verde
- Rome, Paris
- Moscow
- Tashkent
- Bangkok, Jakarta

D-Day

Menu 5.7

This menu help you know how much time it takes you to do something, or how many months, days, hours and minutes until a specific day. You can create up to 5 Countdown timers using this menu.

Creating a D-Day item

1. Press  to display the options.
 2. Press  to select **Add**, then press .
 3. Enter a title for your D-Day item and press . You can enter up to 16 characters for English and 8 characters for Chinese. For details on entering text, see page 34.
 4. Enter the date and time that you want to count down to.
- Note:** You must enter for hour in 24-hour format.
5. Press  to save the item. The phone counts down to the defined day, and displays the result.

Adding, Editing and Erasing an To Do Item

When a stored task is displayed, press  to display the following options.

Edit: allows you to edit the To Do item.

Add: allows you to add a To Do item.

Del: allows you to delete the To Do item.

After you select an option by pressing , press . Then follow the screen prompt.

Game

Menu 5.8

This menu enables you to enjoy the games, such as Push Push, F1 Racing, Flying tight, and Run to Money.

When the game start screen is displayed, press  ( in Push Push) to get help in playing the game.

To start the selected game, press .

To end the game, press  at any time.

Lady Function

Menu 5.9

The Lady Function menu allows you to check your physical condition, such as degree of fatness and the physical schedule. This menu is helpful to keep your health by checking and counting how much calories of heat some foods generate or some exercises and daily works consume.

Fatness Index

This menu allows you to check the fatness degree.

1. Select your gender, **Male** or **Female**, and press .
2. Enter your weight using the numeric keys, and press .
3. Enter your height using the numeric keys, and press .
4. The phone calculates the percentage of your fatness for your height and displays the result.

If the result is from 100 to 110%, you are normal.
5. Press  to return to Standby mode.

Calory

You can check and count how much calories of heat the selected foods yields or how much calories of heat the selected exercise or daily work. This feature can be useful for a diet.

The following options are available.

Food: allows you to check how much calories the selected food generates. Foods are categorized into 10 groups.

Exercise: allows you to check how much calories the selected exercise consumes.

Daily Work: allows you to check how much calories the selected exercise consumes.

Checking Calories for Food

1. Select **Food** and press .
2. Press  to select a desired kind of food, and press .
3. Press  to scroll to a desired food.
4. Press  and check the heat value which the food represents.

If the heat value per a dish or an amount for one person is displayed, enter the desired amount or press  to increase or decrease it by 1 increments. The phone immediately displays the appropriate value.

5. Repeat steps 2 to 4 to add foods for your count.
6. When you have finished selecting food, select **Total** to display the sum total and press .
7. Press  to return to Standby mode.

Checking Calories for Exercise or Daily Work

1. Select **Exercise** or **Daily work** using  and press .
2. Press  to select a desired exercise or daily work, and press .
3. Check the heat value which the exercise or daily work for 10 minute represents.

You can enter the desired length of time or press to increase or decrease it by 10 increments. The phone immediately displays the appropriate value.
4. Repeat steps 2 to 4 to add foods for your count.
5. When you have finished selecting, select **Total** to display the sum total and press .
6. Press  to return to Standby mode.

Pink Schedule

Using this feature, you can set your menstrual period and check your physical schedule, such as the ovulation day and the child-bearing period.

To access this menu, you must enter the four-digit lock code. Your lock code is preset to "0000".

Note: The schedule may be fit to your physical condition. Therefore, use this Pink schedule just for reference.

Entering Your Pink Schedule

1. Press  to select **Enter Schedule**, and press .
2. Enter the starting day of your last menstruation, and press .
3. Enter your average menstrual period, and press .
The phone displays the ovulation day and the period when you are possible to be pregnant.
4. Press  to return to Standby mode.

Checking Your Pink Schedule

After entering your period, you can check your schedule at any time.

Select **Show Schedule** using , and press .

The phone displays your ovulation day and the pregnancy period.

Checking Today's Probability of Pregnancy

Select **Today's** using , and press .
The phone displays the percentage of the probability.

Setting Pink Schedule of Your Friend's

1. Press  to select **Friend's**, and press .
2. Enter her schedule as you do when entering your schedule.
3. Press  to return to Standby mode.

Message

Using the Message menu, you can read your text message and listen to the voice mail message.

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

RX Message

Menu 6.1

Your phone receives voice mail and text messages. When the phone receives a message, an alert sounds, and a text notification displays with the message icon . The icon remains on the screen until you read the text messages or until you listen to the voice mail notification messages.

Your phone can receive incoming messages in both Standby mode and Talk mode. The messages are received even when the phone is locked. If this happens, the time and date of the message displays, but you can access the message. To review the message, you must unlock the phone.

Your phone can store up to 25 messages, depending on the length of the messages. If the message memory is full, an error message is displayed and you cannot receive any new message until you erase the stored messages.

Voice Mail

Using this menu, you can access your voice mail box and listen to your voice messages.

Accessing this menu plays back the latest voice mail message.

While listening to a voice mail, you can use following options.

To...

Make a call to the sender

Display next message

Display previous message

Erase the current message

Press...



Text

An indexed list of text messages in the numeric order displays. An exclamation point next to an entry indicates an urgent message. A check mark next to an entry indicates that you have read and stored the message.

Select the desired message to review using , then press .

While reading a message, you can use following options.

To... Press...

Make a call to the sender



Display next message



Display previous message



Send a reply message to the sender



Erase the current message



Erase All

You can erase all voice mail or all text messages you have received.

When a confirming message displays after selecting the desired kind of the messages, highlight **Yes** (or **No** not to erase) using , then press  to confirm your selection.

Alert

When you receive a new message in Standby mode, the phone alerts you. You can set how frequently this happens and which alert type sounds.

If you are on a call and receive a message, the phone automatically mutes the ringer and provides the call waiting tone (this is to avoid ringing in your ear while you are trying to talk).

Interval: Set how often your phone alerts you that there are new received messages between **Every 2 Min** and **Once**. Selecting **OFF** does not sound the message alert.

Sound Type: Set the alert type for the message alert between **Bell 1** and **Bell 2**. Selecting **OFF** does not sound the message alert. Selecting **Vibrator** vibrates the phone when a new message comes in.

Display

You can set the phone to display the contents of a new text message in Standby mode when it comes in.

Select **Set** to display the content of the message. Otherwise, select **Cancel**.

Display

The Display menu enables you to:

- Change the greetings
- Set the back ground image or text
- Select date format to be displayed in Standby mode
- Set the backlight and the service light
- Select the display language

Greetings

Menu 7.1

This option allows you to change a greeting message to be displayed under the background image in Standby mode. The current message is displayed. The default greetings is **SAMSUNG**.

1. Remove the old greetings by pressing  repeatedly.
2. Enter a new message, and press .
You can enter up to 14 characters for English and 8 characters for Chinese. For further details on entering text, see page 34.

Background

Menu 7.2

You can set the various images or text for the background of the display.

Power On / Off

Your phone displays an image briefly when it is switched on or off. This setting is just for fun and grins. You have a few animations to select from for these power on and off images.

The following options are available:

Power On: You can select an image to be displayed when you switch the phone on. The power-on animation can be **Rose** or **Orange Logo**.

Power Off: You can select an image to be displayed when you switch the phone off. The power-off animation can be **Rose** or **Orange Logo**.

Wall Paper

Your phone displays an image in Standby mode. You have a few images to select from for wall paper. The wall paper image can be **Orange Logo**, **SAMSUNG Logo**, **Olympic Logo**, or **Digital Clock**. And you can download three images using the PC Link program or WAP service.

Selecting **No Logo** displays no image.

If you select Digital Clock, you are provided with the following options:

Normal: displays the normal digital clock.

Note: While you press and hold  in Standby mode, you can see this clock.

World Clock: displays the time in the selected area with the time in your area. Press  to select a city or country from the world map, then press .

Screen Saver

Using screen saver displays a constantly shifting pattern on a display screen, used to prevent damage to the screen through continuous display of the same image.

The following options are available.

LCD: allows you to select the image to be displayed when the Screen Saver feature is turned on. The phone comes with three images set at factory. And you can download up to three images using the PC Link program or WAP service.

On/Off: allows you to turn the Screen Saver feature on or off. Select **Set** to use the Screen Saver feature. The phone displays the selected image after a specified duration without keypress. Pressing any key restores the screen. Or, select **Cancel** not to use it.

Set Wait Time: allows you to specify the time length the phone waits before using the Screen Saver feature. Select **Short** or **Long**.

Text Slide

You can display the sliding text in Standby.

The following options are available.

Enter Text: allows you to write and save text to be slided on top line of text and graphic area in the display. You can enter up to 14 characters for English and 8 characters for Chinese. For details on entering text, see page 34.

Set On/Off: allows you to turn this feature on or off.

Date

Menu 7.3

The current date and time appears on the bottom line of the display in Standby mode. You can set the format in which the date and time is displayed.

The examples of the four format using the current date and time are listed. Select the desired one from the list.

Back / SVC Light

Menu 7.4

Backlight

You can select whether or not the phone uses the backlight. A marginal increase in standby/talk time can be achieved by turning the backlight off or setting the saving backlight.

The following options are available.

Interval: allows you to set the length of time the phone waits until the backlight lights after you press a last key. Select **8 sec** or **20 sec**. Selecting **Off** does not use the backlight.

Set Backlight: allows you to set the backlight type between **Normal** and **Saving**. Select **Saving** uses the backlight only from 5:00 PM to 8:00 AM. Doing this saves the power of the battery.

LCD Control

This option allows you to adjust the contrast of the external LCD on the cover and main LCD.

Enter the value using the numeric keys or press  or  (or,  or  on the left side of the phone) repeatedly to increase or decrease the value.

SVC LED

This option allows you to select whether or not the service light in the top left-hand corner of the phone is used.

The following options are available.

Set: the service light flashes when the phone is ready for use.

Cancel: the service light is not used except when you switch the phone on.

Language

Menu 7.5

You can select a display language. Select the desired language between **English** and **Chinese**.

Sounds

The Sounds menu enables you to:

- Set the ring type and tone
- Adjust the ring volume
- Set the alert tone to sound when you are connected to or disconnected from the system.
- Set the length of the DTMF tone.

Ring Type

Menu 8.1

This option allows you to indicate how you are to be informed of any incoming calls.

The following options are available.

Bell: The phone rings using the ring tone selected via the Ring Tone menu option (8-2).

Vibrator: The phone vibrates but does not ring.

Lamp: The backlight is switched on and the service light blinks; the phone neither rings nor vibrates.

Vib + Bell: The phone vibrates and rings.

Bell + Vib: The phone rings and vibrates.

Bell ++: The phone rings using the ring tone, but the ring volume increase from the lowest.

Bell --: The phone rings using the ring tone, but the ring volume decrease from the loudest.

Ring Tone

Menu 8-2

This option allows you to select the required ringing tone. Each time you select a tone, it sounds for a few seconds.

The following options are available:

Bell: you can choose among 5 different bell tones.

Melody: you can choose among 15 different melodies.

CDMA Melody: you can download your favorite melodies using the SMS service. For details, contact your service provider.

My Melody: you can download your favorite melodies using the WAP service or the PC Link program. You can download up to 3 melodies.

Ring Volume

Menu 8-3

This option allows you to adjust the ringing volume to one of eight levels.

Press  (or,  or  on the left side of the phone) to adjust the volume. The more the bars, the louder the volume.

Connect Tone

Menu 8-4

With this menu option set, the phone sounds the connect tone when your call is connected to the system.

Release Tone

Menu 8-5

With this menu option set, the phone sounds the Release tone when a call is disconnected or dropped from the system.

DTMF Tone

Menu 8-6

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

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

Setup

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

- Restrict the unauthorized use.
- Check your NAM phone numbers.
- Set the phone to send PIN to prevent the unauthorized use
- Reset your phone setting and clear the memory.
- Lock your phone

To access the Setup menu, you are required to enter your four-digit lock code. It is preset to “0000”.

Restrict

Menu 9.1

This feature provide you with the various option to restrict the unauthorized use. You can:

The following options are available.

Lock Code: allows you to change your lock code.

Enter a new lock code and press .

Re-enter the lock code to confirm it and press .

Private Life: protects your private information. If you set this options, the lock code is required to access your personal information, such as the phone book, scheduler, to do list, call logs and so on.

Memory: restricts viewing all numbers in the Phone Book and making a call using them.

Receiving Call: restricts all incoming calls.

Int. Call: restricts all overseas calls.

Incoming Num.: sets the phone shows or block the caller's number when a call comes in, if available. Select **Show** to display the caller's number, or **Block** not to display it.

NAM Phone Number

Menu 9-2

Your Samsung phone can store four NAMs (NAM stands for Numerical Assignment Module - essentially your telephone number). This means you can have four phone numbers on your phone, and you can quickly and easily switch your service back and forth among the numbers. Using this menu, you can select the desired NAM phone number

Select desired one of the numbers. The phone will reboot and acquire service using the new NAM setting.

Send PIN

Menu 9-3

Note: Your service provider must enable this feature and assign you a PIN in order for this feature to work.

This feature prevents your phone from being used by unauthorized persons. The feature is only available if your system supplier provides this service and you have a PIN (Personal Identification Number) assigned by the system supplier. Contact your service provider for complete information on this feature. Your PIN is programmable and can be up to 24 digits.

Select **Set** to activate this feature, and you are asked to send PIN when you make a call. Select **Cancel** to deactivate this feature.

For information about this service in detail, contact your service provider.

Vocoder

Menu 9-4

This phone is set to “EVRC FORCED” for the best quality of your call. If you use this phone abroad, please refer to the network service provider for further details.

Auto Lock

*Menu 9-**

This menu allows you to lock the phone. Locking the phone limits all use of your phone.

Selecting **Set** immediately locks your phone and stays locked until you cancel Auto Lock mode.

To use the phone in Lock mode:

Enter the four digits lock code. Your phone unlocks temporarily and you can use it. If you switch the phone off and back on, it locks again.

To cancel Auto Lock mode and unlock the phone:

Enter the four digits lock code in Lock mode. Access the Auto Lock menu, and select **Cancel** to unlock your phone.

Initialize

Menu 9- #

You can initialize your phone to its factory default status.

Clear All

This menu allows you to erase all data you have stored in the phone's memory, such as phonebook entries, tasks, schedules, call logs and so on.

When a confirmation displays explaining that you will clear all data in the phone memory, select **Yes** to confirm. The phone reboots (turns itself off then on), then returns to Standby mode.

Or, select **No** to cancel your selection and exit this menu.

Reset Phone

Resetting the phone returns to all user-selectable options to the default settings.

When a confirmation displays explaining that you will clear all data in the phone memory, select **Yes** to confirm. The phone reboots (turns itself off then on), then returns to Standby mode.

Or, select **No** to cancel your selection and exit this menu.

Reference Information

Accessories

Batteries

Two types of Li-ion batteries are available for use with your phone:

- STANDARD Battery
- EXTENDED Battery

Desktop Charger

Desktop charger allows you to recharge your battery with the phone and also an extra battery simultaneously.

Cigarette Lighter Adapter

The Cigarette Lighter Adapter charges your phone in a vehicle while you drive and enables you to operate the phone from a vehicle cigarette lighter socket.

Hands-Free Car Kit

The Hands-Free Car Kit provides safety, freedom and convenience in your vehicle. (Kit includes Cradle and Microphone.)

Ear-Microphone

The Ear-Microphone includes both the earpiece and microphone in a convenient, lightweight unit.

RS-232C Cable

The RS-232C Cable connects your SCH-A301 to your computer port, allowing you to use Internet or other communication programs.

Using the Batteries

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

Additional batteries are also available (ask your SAMSUNG dealer for further details):

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 times are greatly affected by the signal strength on the cellular network and the parameters set by the network operator.
- Battery charging times depend 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 life-time of the battery. Always try to keep the battery at room temperature. A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0 °C (32 °F).
- Do not short-circuit the battery. Accidental short circuiting can occur when a metallic object (coin, clip or pen) causes a direct connection between the + and - terminals of the battery (metal strips on the back of the battery), for example when you carry a spare battery in a pocket or bag. Short-circuiting the terminals may damage the battery or the object causing the short-circuit.
- Dispose of used batteries in accordance with local regulations. Always recycle. Do not dispose of batteries in a fire.

Safety Information

Road Safety

- Remember, road safety always comes first!
- Do not use a hand-held phone while driving a vehicle. Always park the vehicle before having a conversation.
- Make sure that the phone is stored safely and will not fall or be broken in the event of a collision or emergency stop.
- The use of an alert device to operate a vehicle's lights or horn on public roads is not permitted.
- Only qualified personnel should install or service the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the unit.
- Electronic fuel injection, anti-skid braking, electronic cruise control or any other electronic systems may malfunction due to the lack of protection from radio signals. Check regularly that all cellular phone equipment in your vehicle is mounted and operating correctly.

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 (in a hospital for example).
- Operation of any radio transmitting equipment, including cellular phones, may interfere with inadequately protected medical devices. Consult a physician or the manufacturer of the medical device if you have any questions. Other electronic equipment may also be subject to interference.
- As with other mobile radio transmitting equipment, you are advised that for satisfactory operations and personal safety, the equipment should only be used in the normal operating position.
- Always switch off the phone when at a refuelling point (service station). You 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.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, its parts or accessories.

- Switch off your cellular phone when in an aircraft. The use of cellular phones in an aircraft is illegal and may be dangerous to the operation of the aircraft or disrupt the cellular network. Failure to observe these instructions may lead to the suspension or denial of cellular telephone services to the offender, 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 the warranty obligations and enjoy this product for many years.

- Keep the phone and all its parts and accessories out of the reach of children.
- Keep the phone dry. Precipitation, humidity and liquids containing minerals will corrode the electronic circuits.
- Do not use or store the phone in dusty, dirty areas as its components 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 temperature), moisture can form inside the phone, which may damage the electronic circuits.
- Do not attempt to open the phone. Non-expert handling of the phone may damage it.
- Do not drop or knock the phone. Rough handling may damage the internal circuits.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the phone. Wipe it with a soft cloth slightly dampened in mild, soapy water.
- If the phone or any of its accessories are not working properly, take them to your nearest qualified service centre. The personnel there will assist you, and if necessary, arrange for the phone to be repaired.

Emergency Calls

Important! This phone, like any cellular phone, uses radio signals, cellular and landline networks, as well as user-programmed functions that cannot guarantee connection in all conditions. Therefore, you should never rely solely on any cellular 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 cellular signal strength.

Emergency calls may not be possible on all cellular phone networks or when certain network services and/or phone features are in use. Check with local cellular service providers.

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 seen as cell or cell site)

CDMA - (Code Division Multiple Access) A spread-spectrum approach to digital transmission. With CDMA, each conversation 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.

Call Waiting - Ability to inform users that they have an incoming call when engaged on another call.

Line Identification Services - Services allowing subscribers (Caller ID to view or block the telephone Display) numbers of callers.

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 to 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.

Voicemail - A computerized answering service that answers a call, plays a greeting and records a message. Depending on the sophistication of the service, it can notify the subscriber, via a pager, of an incoming call or message. (Also called voice messaging)

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.



BASIC OPERATION

Make a call	Phone number + SEND
Receive a call	SEND or Open the phone
Adjust speaker volume	(In Talk mode) ▲/▼ repeatedly
Adjust ring volume	(In Standby mode) ▲/▼ repeatedly
Redial last number	SEND twice
Scan the last calls and dial	SEND + Navigation / + SEND

INTERNAL PHONE BOOK

Store numbers into memory	Phone number + MENU + Select Phonebook + OK + Enter Name + Navigation + Enter location + Navigation + Select label + OK
Speed dial	One-Touch (001-009): Hold down the third digit. Two-Touch (010-099): Press the second digit, then hold down the third digit. Three-Touch (100-199): Press the first and the second digit, then hold down the third.
Scan memories	Navigation + Navigation + OK
Erasing a specific entry	Navigation + Navigation + OK + MENU + Select Del + OK

Main Menu (To access, press MENU)			
1: WAP Service	1 : WAP Service * : Modem Setting	5 : PIM	8 : Game 9 : Lady Function
2: Orange Menu	: The contents may vary depending on the network.	6: Messages	1 : Rx Message
3: Calls	1 : Outgoing 2 : Incoming 3 : Delete Number 4 : Air Time 5 : Answer Mode	7 : Display	1 : Greetings 2 : Background 3 : Date 4 : Back/SVC Light 5 : Language
4: Phone Book	1 : Find Number 2 : Add Entry 3 : Edit Group # : My Phone #	8 : Sounds	1 : Ring Type 2 : Ring Tone 3 : Ring Volume 4 : Connect Tone 5 : Release Tone 6 : DTMF Tone
5 : PIM	1 : Scheduler 2 : To Do List 3 : Calculator 4 : Set Time 5 : Alarm 6 : World Time 7 : D-Day	9 : Setup	1 : Restrict 2 : NAM Phone# 3 : Send PIN 4 : Vocoder * : Auto Lock # : Initialize

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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