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

SAMSUNG

ELECTRONICS

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

Printed in Korea
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SAMSUNG

TDMA MOBILE TELEPHONE STH-A255

Draft version
(2002/01/25)

Please, be sure to read this manual before using your phone. And keep the manual after reading it and use any time you have a question.

CONFIDENTIAL

FCC RF EXPOSURE INFORMATION

WARNING! Read this information before using your phone

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.

CAUTION

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

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

Body-worn Operation

This device was tested for typical body-worn operations with the back of the phone kept 2.0cm. from the body. To maintain compliance with FCC RF exposure guidelines, use only belt-clips, holsters or similar accessories that maintain a 2.0cm separation distance between the user's body and the back of the phone, including the antenna, whether extended or retracted. The use of third-party belt-clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure guidelines, and should be avoided.

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

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

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

Body-worn Operation

This device was tested for typical body-worn operations with the back of the phone kept 0.78 inches (2.0cm) from the body. To maintain compliance with FCC RF exposure guidelines use only belt-clips, holster or similar accessories that maintain a 0.78inches (2.0cm) separation between the user's body and the phone, including the antenna, whether extended or retracted The use of third-party belt-clips, holsters and similar accessories should not contain metallic components in the assembly. The use of accessories that do not satisfy these requirements may not with FCC RF exposure guidelines, and should be avoided.

Vehicle Mounted External Antenna (optional, if available.)

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

For more information about RF exposure, please visit the FCC 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 know 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 1.484 W/kg and when worn on the body, as described in this user guide, is 1.240 W/kg . (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 A3LSTHN270.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) web-site at http://www.wow-com.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.com for direct access to SAR information.

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* available when you set the service code in the Set Service Code menu option (7.6).

Quick Safety Guide

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

Road safety comes first
Do not use a hand-held mobile phone while driving; park the vehicle first.

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

Switch off on 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 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 wireless phones may be subject to radio interference, which may affect their performance.

Radio frequency exposure information
In August 1996, the Federal Communications Commission (FCC) of the U.S. adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters. The design of this phone complies with the FCC guidelines and these international standards.

To maintain compliance with FCC RF exposure guidelines, if you wear a handset on your body, use the SAMSUNG-supplied or approved carrying case, holster, or other body-worn accessory.

If you do not use a body-worn accessory, ensure the antenna is at least 0.78 inch (2.0 cm) from your body when transmitting. Use of non-approved accessories may violate FCC RF exposure guidelines.

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

Accessories and batteries
Use only SAMSUNG-approved accessories and batteries.

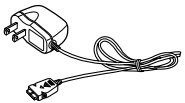
Use qualified service
Only qualified service personnel must repair equipment.

Unpacking

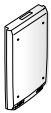
Your package contains the following items.

Handset

Travel Charger



Battery



Hand Strap

User's Manual

Ear-microphone

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

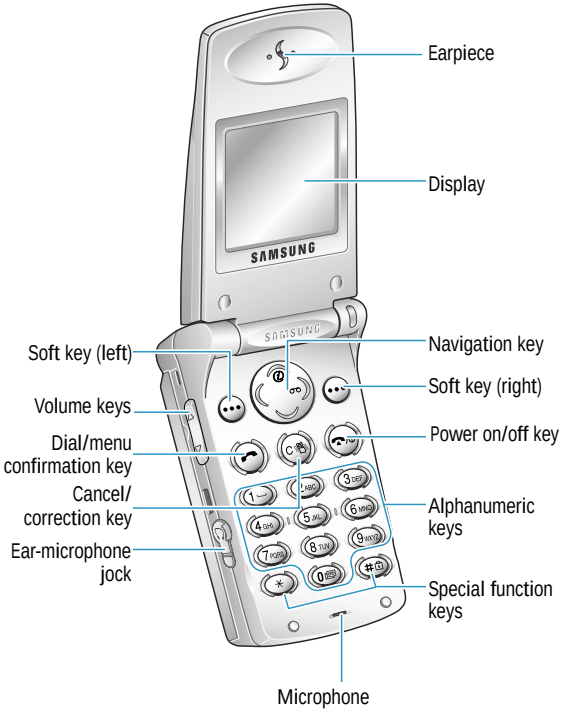
- Desktop charger
- Hands-free kit
- Standard/Extended battery
- Cigarette lighter adapter
- Ear-microphone
- Leather case

Your Phone

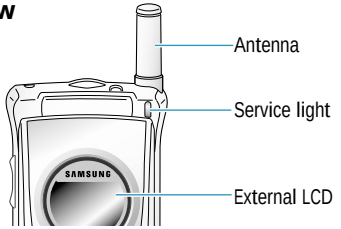
Phone Layout

The following illustrations show the main elements of your phone.

Open view



Closed view



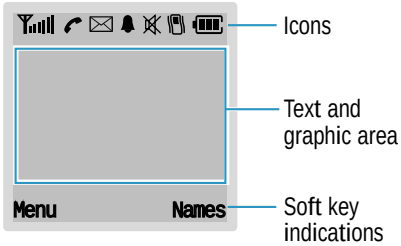
Key	Description
(soft keys)	Perform the functions indicated by the text above them (in the bottom line of the display).
	In the menu facility, scrolls through the menu options and phonebook memory. *When pressed in idle mode*, the key launches the WAP browser. The key enters your favorite menu options directly (for more information on shortcuts, see page xx).
	In the menu facility, return to the previous menu level and select the current menu respectively. *When pressed in idle mode*, the key enters to the Voice Memo menu. The key enters your favorite menu options directly (for more information on shortcuts, see page xx). *When entering a name*, move the cursor left and right respectively.

Key	Description *(continued...)*
	Deletes characters from the display. *In the menu facility*, returns to the previous menu level. *When held down for more than two seconds in idle mode*, quickly enters or exits silent mode.
	Makes or answers a call. *In idle mode*, recalls the last number dialed.
	Ends a call. Also switches the phone on and off when pressed and held. *In the menu facility*, returns to idle mode and cancels your input.
	When held down in idle mode, allows you to access your voice mail box.
	Enter numbers, letters and some special characters.
	Enter special dial characters. Also use these keys for various purposes in different functions.
/	(on the side of the phone) *During a call*, adjust the earpiece volume. *In idle mode with the folder open*, adjust the key volume. *In the menu facility,* scroll through the menu options and phonebook memory.

Display

Display Layout

The display comprises three areas.



Area	Description
First line	Displays various icons (see page xx).
Middle lines	Display messages, instructions and any information that you enter (number to be dialed, for example).
Last line	Shows the functions currently assigned to the two soft keys.

Icons

Icon	Description
	Shows the received signal strength. The greater the number of bars, the better the signal strength.
	Appears when a call is in progress.
	Appears when a new text message has been received.
	Appears when the silent mode is active and when the **Alert Type** menu option (**3.3**) is set to **Vibration**.
	Appears when you set the alarm.
	Shows the level of your battery. The more bars you see, the more power you have left.
	Appears when you are out of your home area and have registered onto a different network (when travelling in other countries, for example).
	Appears when a new voice mail message has been received.
	Appears when you activate the Mute mode.

Backlight

The display is 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 **Back Light** option set in the **Phone Settings** menu.

To specify the length of time for which the backlight is active, set the **Back Light** menu option (**4.2.1**); see page xx for further details.

External Display

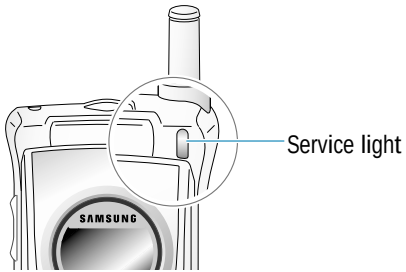
Your phone has an external display on the cover. It indicates that you have an incoming call or a message, and notifies you at the specified time when you have set an alarm.

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

Service Light

The service light is in the top right-hand corner of the phone. It flashes to indicate phone status: It flashes to indicate phone status: When the phone is ready for use, it flashes in green. When a call or message comes in, and you are recording a voice memo, it flashes in red.

To activate or deactivate use of the service light, set the **Service Light** menu option (**4.3**); see page xx for further details.

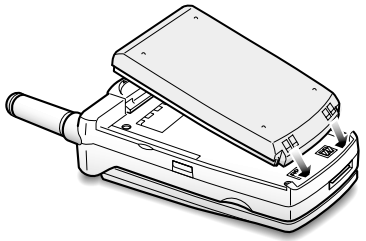


Getting Started

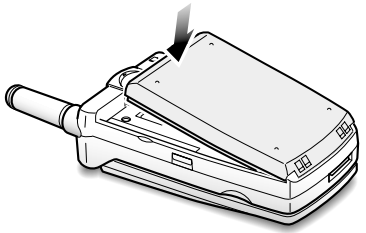
Installing the Battery

To Install the Battery

1. Insert the contact end on the bottom of the battery into the slots on the bottom of the phone.



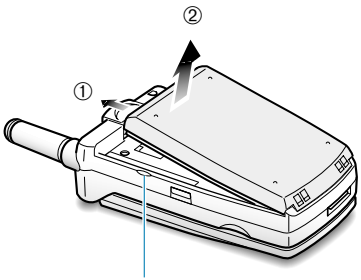
2. Press the battery down until it clicks into place.



To Remove the Battery

1. If necessary, switch off the phone by holding down the key until the power off image begins to play.

2. Remove the battery. To do so:
   ① Push the catch toward the top of the phone and hold it in position, then
   ② lift out the battery from the phone. The battery will easily lift out.



Use this groove when lifting the battery out.

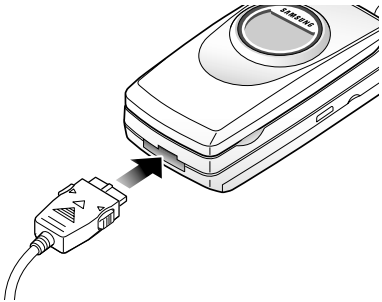
Charging a Battery

Your phone is powered by a rechargeable Li-Ion battery. A travel charger is provided with your phone. Use only approved batteries and chargers. Ask your local SAMSUNG dealer for further details.

The phone can be used while the battery is charging.

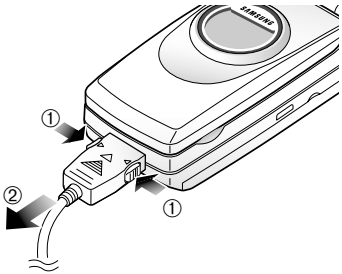
Note: You must fully charge the battery before using your phone for the first time. A discharged battery is fully recharged in approximately 200 minutes.

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. Connect the charger to a standard AC wall outlet.

3. When charging is finished (the lamp on the charge 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).



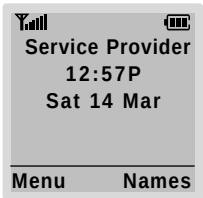
Low Battery Indicator

When the battery is weak and only a few minutes of talk time remain, you will hear a warning tone and the following message will be repeated at regular intervals on the display, along with the empty battery icon:

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

Switching the Phone On / Off

1. Open the folder.
2. Hold down the ☎/⏻ key for more than one second to switch the phone on.
3. The phone searches for your service system and when it finds the system, the idle screen, illustrated below, is displayed. The external display shows the signal strength, battery strength and current time and date.



<Main display>

<External display>

Note: The display language is preset to **English** at factory. To change the language, use the **Language** menu option (**4.6**); for further details, refer to page xx.

4. When you wish to switch the phone off, hold down the ☎/⏻ key for more than two seconds.

Locking Your Phone

You can lock your phone to protect the phone against unauthorized use. When the phone is locked, you cannot operate the phone until you enter the lock code.

To lock your phone:

Press and hold down the # key for more than two seconds in idle mode. “Phone Locked” appears on the idle screen.

To unlock the phone:

Press the **Unlock** soft key, enter the lock code, and then press the **OK** soft key. Your phone’s lock code is preset at the factory to “0000.” For further details on the lock code, see page xx.

Even when the phone is locked, you can place an SOS call to one of the emergency numbers stored in the SOS Call List (**6.4**). See page xx for further details.

To place an SOS call, press the **SOS** soft key, select the desired emergency number by pressing the or key and press the **Yes** soft key.

Call Functions

Making a Call

When the idle screen is displayed, key in the area code and phone number and press the key.

Note: If you have set the **Auto Redial** menu option (**4.4**) to **ON** (see page xx) and the person called does not answer or is already on the phone, the number is redialed automatically up to ten times. If the network answers the call (by voice mail greeting, for example), the phone will not attempt to redial.

Correcting the Number

To clear...	Then press...
The last digit displayed	The **C** key.
Any other digit in the number	Press the or key until the cursor is immediately to the right of the digit to be cleared. Press the **C** key. You can also insert a missing digit simply by pressing the appropriate key.
The whole display	Hold down the **C** key for more than two seconds.

Ending a Call

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

Making a Call from the Phonebook

You can store the names and phone numbers dialed regularly in the phone memory, called Phonebook. You then simply select the required name to recall the associated number. For further details on the Phonebook feature, refer to page xx.

Redialing the Last Number

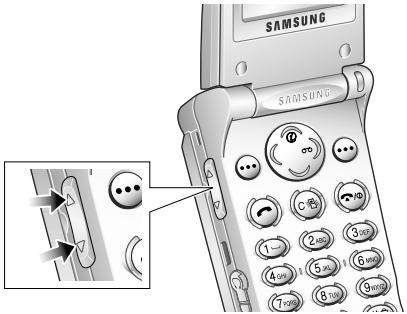
The phone stores the last 10 numbers dialed. To recall any of these numbers, proceed as follows.

1. If you have typed any characters on the display, press the key to return to idle mode.
2. Press the key to display the last dialed number.
3. Press the or key to scroll through the numbers until the required number is displayed.
4.

To...	Then...
Dial the number displayed	Press the key.
Edit the number displayed	• Press the **Edit** soft key. • Change the number as required, referring to "Correcting the Number" for details (see page xx). • Press the **Save** soft key to save the number or the key to dial the number.

Adjusting the Volume

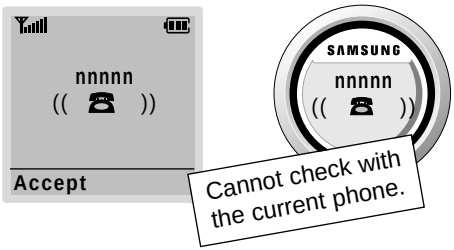
During a call, if you want to adjust the earpiece volume, use the volume keys on the left side of the phone.
Press the ▲ key to increase and the ▼ key to decrease the volume. The more bars you see, the louder the sound is.



In idle mode with the folder open, you can adjust the key volume using the ▲ and ▼ keys.

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 phonebook) is displayed. If the caller cannot be identified, only the phone icon flashes.

1. Open the folder. If it is already open, press the key.

   If the **Answer Mode** menu option (**4.5**) is set to **Anykey Answer**, you can press any key except the key.

   With the menu set to **Send Key Answer**, you must press the key or the **Accept** soft key to answer the incoming call (For details on the **Answer Mode** menu, see page xx).

2. End the call by closing the folder or pressing the key.

Note: You can answer a call while using the Phonebook or menu features. The current operation will be interrupted.

Viewing Missed Calls

If you are unable to answer a call for any reason, you can find out who was calling you, provided that the Caller Line Identification service is available. In this way, you can call the person back, if necessary. The number of missed calls is displayed on the idle screen immediately after the call was missed.

To view the missed call immediately, take the following steps:

1. If the folder is closed, open it.

2. Press the **View** soft key.

   The number corresponding to the most recent missed call is displayed, if available.

3.

To...	Then...
Scroll through the missed calls	Press or key.
Call the number displayed	Press the key.
Edit or delete a missed call number	Press the **Options** soft key (see next page).

Editing a Missed Call Number

Note: If the caller's number associated with the missed call is not available, the **Edit** option is not displayed.

1. Press the **Options** soft key.
2. If necessary, press the ⌒ or ⌣ key to highlight the **Edit** option.
3. Press the **Select** soft key.
4. Change the number as required.
5.

To...	Then press the...
Call the number	key.
Store the number	**Save** soft key and enter the name and location required (for further details, refer to page xx).

Deleting a Missed Call

1. Press the **Options** soft key.
2. If necessary, press ⌒ or ⌣ key to highlight the **Delete** option.
3. Press the **Select** soft key.

You can press the key at any time to exit the Missed Call feature.

Note: You can access the Missed Call feature at any time by selecting the **Missed Calls** menu option (**1.1**); for further details, see page xx.

Quick-switching to Silent Mode

You can quickly switch your phone to silent mode with a touch of a key to mute the phone's sound. Press and hold the **C** key until the icon and "Silent Mode" appears in display. Your phone goes to silent mode immediately.

In silent mode, your phone switches the sound settings as follows:

alert type (3.3)	Vbration
message tone (3.5)	Light Only
error tone (3.6)	off
keypad tone	off

To exit silent mode, press and hold the **C** key again until "Exit Silent Mode" appears.

This feature is convenient when you are in a hurry to mute the phone sound, such as when in a theater.

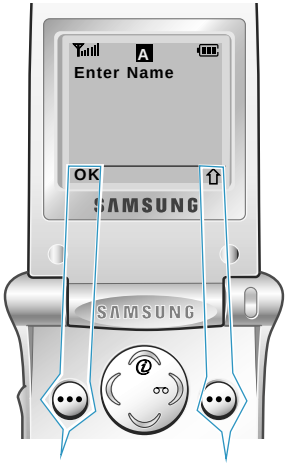
Selecting Functions and Options

Using the Soft keys

Your phone offers a set of functions that allow you to customize your phone. These functions are arranged in menus and sub-menus, accessed via the two soft keys marked ⋯. Each menu and sub-menu allows you to view and alter the settings of a particular function.

The roles of the soft keys vary according to the current context; the label on the bottom line of the display just above each key indicates its current role.

Example:



Press the left soft key to save the name entered.

Press the right soft key to change the text input mode.

Selecting Functions and Options

To view the various functions/options available and select the one required, proceed as follows.

1. Press the appropriate soft key.
2.

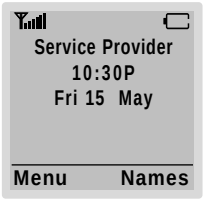
To...	Then press the...
Select the: • Function displayed or • Option highlighted	Select soft key or ☽ key.
View the next function or highlight the next option in a list	⌣ key or ▼ key on the left side of the phone.
Move back to the function or option in a list	⌢ key or ▲ key on the left side of the phone.
Move back up one level in the structure	☾ key, ↺ soft key or **C** key.
Exit the structure without changing the settings	☎/⏻ key.

In some functions, you may be asked for a lock code or security code. Enter the required code and press the **OK** soft key.

Note: When you access a list of options, your phone highlights the current option. If, however, there are only two options, such as **On/Off** or **Enable/Disable**, your phone highlights the option that is not currently active, so that you can select it directly.

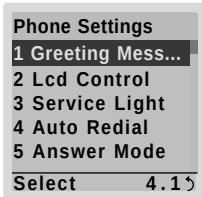
Example: Setting the Display Language

1. When the idle screen is displayed, press the **Menu** soft key to enter the menu facility.

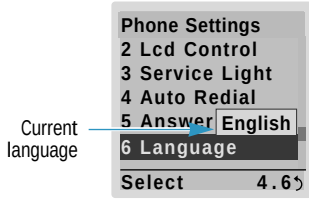


2. Scroll through the menus until you reach the **Phone Settings** menu, by pressing the ⌒ or ⌣ key.

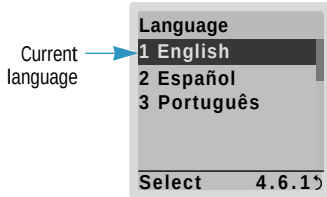
3. To select the **Phone Settings** menu, press the **Select** soft key or the ☽ key.



4. Scroll through the sub-menus until you reach the **Language** sub-menu, by pressing the ⌒ or ⌣ key.



5. To view the languages available, press the **Select** soft key or the ☽ key. The current setting is highlighted.



6. Scroll through the list of languages until the appropriate one is highlighted, by pressing the ⌒ or ⌣ key.

7. Press the **Select** soft key or the ☽ key to confirm your selection.

8. Press the **C** or ☾ key twice to exit the menu structure.

Phonebook

The Phonebook allows you to store frequently used phone numbers and the associated names in your phone to make it easy for you to make a call without having to remember or enter the phone number. You can store up to 250 (1 ~ 250) entries.

Storing a Phone Number with a Name

As soon as you start to enter a number, **Save** appears above the left soft key to allow you to store the number in Phonebook.

1. Key in the number to be stored.

   Note: If you make a mistake while entering a number, correct it using the **C** key. For further details, refer to page xx.

2. When you are sure that it is correct, press the **Save** soft key.

3. Select a label by pressing the ⌒ or ⌣ key, and press the **Select** soft key.

   The available labels are: **Home**, **Office**, **Mobile**, **Pager**, **Fax**, and **No label**.

4. Enter the corresponding name. For information on how to enter a name, see page xx.

5. When you are satisfied, press the **OK** soft key. The phone now prompts you to select a location in the phone memory for you to save the entry.

6. If necessary, enter your preferred location by pressing the number keys.

7. Press the **OK** soft key. The entry is saved and the display shows the name and number you just have saved.

8. Press the ☎/⏻ key to return to the idle screen.

   To make a call to the displayed number, press the **Call** soft key.

   To access the Phonebook options, press the **Options** soft key. See page xx.

Speed Dialing by Memory Location

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

To speed dial the desired number:

For the 1-digit memory location number (1 through 9), press and hold down the appropriate digit.

For the 2 or more-digit memory location number (10 through 250), press first digit(s) briefly and hold down the last digit.

Note: If you enter the location number and press the # key, your phone displays the details on the entry, such as name, number, location number and label. If you have stored more than one number for a name, scroll through the entry by pressing the (or) key repeatedly.

Phonebook Options

When viewing a number in Phonebook, **Options** appears above the right soft key to allow you to access the Phonebook options.

Accessing the Options

To access the various Phonebook options, take the following steps:

1. While viewing a Phonebook entry, press the **Options** soft key. The first available option is highlighted.
2.

To...	Then...
Select the highlighted option	Press the **Select** soft key.
Highlight a different option	Press the ⌒ or ⌣ key until the required option is highlighted.

Add Number

This option allows you to store up to seven numbers per entry by assigning them to different categories. Note that you cannot duplicate same categories for one entry. For example, you can only have one number labeled “Mobile” for the selected entry.

Change Name

This option allows you to change the name for the number. Clear the old name pressing the **C** key and enter a new name. For information on entering a name, see page xx.

Change Number

This option allows you to change the number. Clear the old number by pressing the **C** key and enter a new number.

Change Type

This option allows you to change the label type of a stored number. Note that you cannot duplicate same categories for one entry. For example, you can only have one number labeled “Mobile” for the selected entry.

Caller Group

This option allows you to set the number as a member of the caller group. Select the desired caller group from the list. For more details on the Caller Group feature, see page xx.

Erase Number

This option allows you to erase a stored number. If you saved two numbers under a name, only the currently selected number will be erased. You are asked to confirm that you wish to erase the number by pressing the **Yes** soft key.

Erase Name

This option allows you to erase a name stored in the Phonebook so that all numbers under the name are erased. You are asked to confirm that you wish to erase the name by pressing the **Yes** soft key.

Move

This option allows you to move a Phonebook entry to another location. When prompted, enter the location number which you are moving the number to, and press the **OK** soft key.

Set Priority NO.

This option allows you to set the selected number as a speed dial number for the entry if it has more than one number. Press the **Set** soft key .

Searching for and Dialing a Number in the Phonebook

1. When the idle screen is displayed, press the **Names** soft key. You are asked to enter a name.

2. Enter the starting characters of the name that you want to find and press the **Search** soft key.

   Note: You can also scroll through all Phonebook entries by pressing the **Search** soft key directly.

   The Phonebook entries are listed, starting with the first entry matching your input.

3.

To...	Then...
View the highlighted entry	Press the **View** soft key.
Select a different entry	Slide the ⌒ or ⌣ key until the required entry is highlighted.
Look for a name starting with a different letter	Press the key labeled with the required letter.

4. Once you have found the required entry, press the key or the **Call** soft key to dial the number.

Name Options

While entering a name for searching, you can see **Options** above the right soft key. This key allows you to enter the various options.

Accessing the Options

To access the various Phonebook options, take the following steps:

1. In idle mode, press the **Names** soft key.
2. Press the **Options** soft key. The first available option is highlighted.
3.

To...	Then...
Select the highlighted option	Press the **Select** soft key.
Highlight a different option	Press the ⌒ or ⌣ key until the required option is highlighted.

New Entry

This option allows you to create a new entry in the Phonebook. For details on storing a phone number, see page xx.

Caller Group

You can set the phone to ring in a specific way and display a preselected graphic icon when a particular person calls you. To do so, you must:

- Define your caller groups
- Assign the numbers in the Phonebook to the appropriate group

Defining a caller group

Select the group to be defined and set the appropriate options. The following options are available.

Call ring tone: allows you to select the ring tone to be used when you receive a voice phone call from a person in the group.

SMS tone: allows you to select the ring tone to be used when you receive a text message from a person in the group.

Graphic: allows you to select the graphic icon to be displayed when you receive a call from a person in the group.

Group Name: allows you to assign a name to the group; for further details on how to enter characters, refer to page xx.

Assigning numbers to a group

1. View the required number in Phonebook.
2. Press the **Options** soft key.
3. Select the **Caller Group** option.
4. Select the required group.

To remove a number from a group, select the **No Group** option.

Own Number

This function is a memory aid, which you can use to check your own phone number if you need to do so.

Memory Status

You can check the used memory and free memory you have for Phonebook . The display shows how many entries are currently stored and can be saved in future in Phonebook.

Entering Text

When using your phone, you will often need to enter text. For example, when storing a name in the phonebook, creating your personal greeting or scheduling events in your calendar. You can enter alphanumeric characters by using your phone's keypad.

You are provided with the following text input modes.

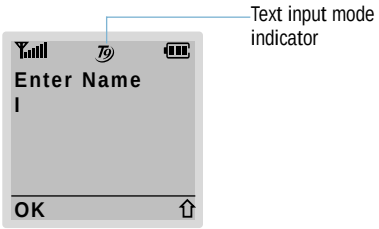
- **T9 mode**
  This mode allows you to enter words with only one keystroke per letter. Each key on the keypad has more than one letter - when you press the 5 key once, J, K or L may be displayed. The T9 mode automatically compares your keystrokes with an internal linguistic dictionary to determine the correct word, thus requiring far fewer keystrokes than the traditional upper/lower-case character modes.

- **Upper/lower-case character modes**
  These modes allow you to enter letters by pressing the key labeled with the required letter once, twice or three times until the letter is displayed.

- **Number mode**
  This mode allows you to enter numbers.

Changing the Text Input Mode

When you are in a field that allows characters to be entered, you will notice the text input mode indicator in the display.



To select...	Then press the ⇧ soft key until...
Upper-case characters	A is displayed. See page xx.
Lower-case characters	a is displayed. See page xx.
Numbers only	1 is displayed. See page xx.
The T9 mode	T9 is displayed. See below.

T9 mode is not available in the current phone.

Using the T9 Mode

The T9 predictive text input mode allows you to key in any character using single keystrokes. This text input mode is based on a built-in dictionary.

1. When you are in the T9 predictive text input mode, start entering a word by pressing keys 2 to 9. Press each key only once for one letter.

   Example: to enter *HELLO* in the T9 mode, press 4, 3, 5, 5 and 6.

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

2. Enter the whole word before editing or deleting and keystrokes.

3. If the word is correct, start entering the next word.

   Otherwise, press 0, ⌣ or ⌒ repeatedly to display alternate word choices for the keys that you have pressed.

   Example: *OF* and *ME* both share the sequence 6, 3. The phone displays the most commonly used choice first.

4. Complete each word with a space by pressing the # key.

- To type words not found in the T9 mode, change the text input mode to the upper/lower-case character input mode.

- To enter full stops, hyphens or apostrophes, press (1). The T9 mode applies grammar rules to ensure that the correct punctuation is used.
  Example: (1) is used twice to display two punctuation marks:

(5 JKL)	(3 DEF)	(8 TUV)	(1)	(7 PQRS)	(#)	(3 DEF)	(2 ABC)	(8 TUV)	(1)
L	E	T	‘	S		E	A	T	.

- To change the case in the T9 mode, use the * key.
- You can move the cursor by using the (and) keys. To delete letters, press the **C** key. Press and hold down the **C** key to clear the display.

Using the Upper / Lower-case Character Mode

Use the (1) to (9 WXYZ) keys to enter your text.

1. Press the key labeled with the required letter:
   - Once for the first letter
   - Twice for the second letter
   - And so on
2. Select the other letters in the same way.

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

Refer to the table below for more information on the characters available using the keys.

Key	Characters in the Order Displayed	
	Upper Case	Lower Case
1	Space 1	Space 1
2	A B C 2	a b c 2
3	D E F 3	d e f 3
4	G H I 4	g h i 4
5	J K L 5	j k l 5
6	M N O 6	m n o 6
7	P Q R S 7	p q r s 7
8	T U V 8	† u v 8
9	W X Y Z 9	w x y z 9
0	0	0
*	* / + - = < > ( )	# . , : ; ! ? @ ‘
	% & _ Φ Θ Ψ Π Σ Ξ	“ ¿ § £ $ ¥ ¤ ß Ω

- To insert a space, press the (1) key.
- You can move the cursor by using the (and) keys. To delete letters, press the **C** key. Press and hold down the **C** key to clear the display.

Using the Number Mode

The Number mode enables you to enter numbers in a text message (a telephone number for example). Press the keys corresponding to the required digits before manually switching back to the appropriate text input mode.

In-Call Options

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

Muting / Sending Key Tones

You can turn the key tones which were generated each time you press a key off or on.

To turn the key tone off, take the following steps:

1. During a call, press the **Options** soft key.
2. Press the ⌒ or ⌣ key to select the **Mute Keys** option. Now, the option is replaced with **Send Keys**.
3. Press the **OK** soft key.
   Your phone does not transmit the key tones. It allows you to press keys without hearing annoying key tones during a call.

To turn the key tone on, take the following steps:

1. During a call, press the **Options** soft key.
2. Press the ⌒ or ⌣ key to select the **Send Keys** option. Now, the option is replaced with **Mute Keys**.
3. Press the **OK** soft key.

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

Searching for a Number in the Phonebook

You can search for a number in the Phonebook during a call.

1. During a call, press the **Options** soft key.
2. Press the ⌒ or ⌣ key to select the **Phonebook** option.
3. Press the **OK** soft key.
   The Phonebook entries are listed.
4. Enter the name that you wish to find.

   If you enter the start of the name, the Phonebook entries are listed, starting with the first entry matching your input. The entry is also highlighted.
5. To view the highlighted entry, press the **View** soft key.

For more detailed description of the Phonebook feature, refer to page xx.

Using the SMS Service

You can create and send a SMS message during a call.

1. During a call, press the **Options** soft key.
2. Press the ⌒ or ⌣ key to select the **SMS Service** option.
3. Press the **OK** soft key.
4. Write text for the message, and press the **OK** soft key.
5. Enter the desired phone number, and press the **OK** soft key to send the message.

For further details on the SMS service, refer to page xx.

Making a Calling Card Call

When you make a call using the prepaid calling card, if you save the calling card information in the Calling Card menu option (**4.9**), you can send automatically the code number required for the service without entering them manually each time you are prompted.

For further details on making a calling card call, refer to page xx.

Making the Voice Call Private

You can make the current call private so that nobody eavesdrops your call.

1. During a call, press the **Options** soft key.
2. Press the ⌒ or ⌣ key to select the **Voice Privacy** option.
3. Press the **Select** soft key.
4. Press the ⌒ or ⌣ key to select **Activate** or **Deactivate**.

   Select Activate to secure your call or Deactivate not to do.
5. Press the **Select** soft key.

Putting a Call on Hold

You can make another call while you have a call in progress if this service is supported by the network. Of two calls, one is active and the other is on hold and you can swap between the calls.

Note: The procedure to put a call on hold may vary depending on your network. For further details, contact your service provider.

To make a call while you have a call in progress, take the following steps:

1. During a call, key in the phone number that you wish to dial or look it up in Phonebook.
2. Press the key to dial the second call. The first call is automatically put on hold.
3. To swap between the two calls, simply press the key.
4. To end the current call, press the key.

Answering a Second Call

You can answer an incoming call while you have a call in progress, if this service is supported by the network and you have set the **Call Waiting** menu option (**7.2**) to **Activate** (see page xx). You will be notified of an incoming call by a call waiting tone.

To answer a call while you have a call in progress, take the following steps:

1. When you hear a call waiting tone, press the key to answer the incoming call.
   The first call is automatically put on hold.
2. To switch between the two calls, press the key.
3. To end the current call, press the key.

Making a 3-way Conference Call

You can conduct conference calls with two separate parties at the same time. A conference call is a network service. For more information, contact your service provider.

Note: The procedure may vary depending on your network. Contact the service provider for details.

1. Call the first participant in the normal way.
2. Call the second participant in the normal way. The first call is automatically put on hold.
3. When the second person answer, press the key to merge the calls.
4. End the conference call by closing the flip cover or pressing the key.

During a conference call, if one of the callers hangs up, you and the remaining caller will stay connected. If you initiated the call and you hang up first, all three parties are disconnected.

Using the Menus

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

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

Accessing a Menu Function by Scrolling

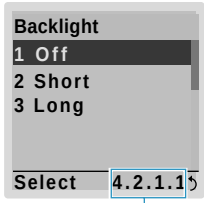
1. In idle mode, press the **Menu** soft key to access the menu facility. Press the ⌒ or ⌣ key to reach the desired main menu, e.g., **Phone Settings**. Press the **Select** soft key or the ☽ key to enter the menu.
2. If the menu contains any submenus, for example, **Language**, find the one you want by pressing the ⌒ or ⌣ key. Press the **Select** soft key to enter the submenu.

   If the menu you selected has submenus, repeat this step.
3. Press the ⌒ or ⌣ key to find the setting of your choice. Press the **Select** soft key or the ☽ key to confirm the chosen setting.

Notes:
- You can return the previous menu level by pressing the **C** key or the ☾ key.
- You can exit the menu without changing the menu settings by pressing the ☎ key.

Accessing a Menu Function by Using its Shortcut

The menu items (menu, submenus and setting options) are numbered and can be accessed quickly by using their shortcut number. The shortcut number is shown in the bottom right next to the ↺ soft key on the display.



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

Example: Setting the **Backlight** option to **Short**

Press the **Menu** soft key, and key in **4**, **2**, **1**, **2**.

Menu for entering the menu, **4** for **Phone Settings**, **2** for **LCD Control**, **1** for **Backlight**, **2** for **Short** .

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

List of Menu Functions

The following illustration 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. Call Records

Page xx

- 1.1 Missed Calls
- 1.2 Incoming Calls
- 1.3 Outgoing Calls
- 1.4 Call Time
  - 1.4.1 Last Call Time
  - 1.4.2 Total Call Time
  - 1.4.3 Display Call Time
  - 1.4.4 Reset Timers

2. Messages

Page xx

- 2.1 Voice Mail
  - 2.1.1 Connect to Voice Server
  - 2.1.2 Voice Server Number
- 2.2 Read Messages
  - 2.2.1 New Inbox
  - 2.2.2 Old Inbox
  - 2.2.3 Outbox
  - 2.2.4 Delete All
- 2.3 Write Messages
- 2.4 Preset Message List
- 2.5 Setup

3. Sound Settings

Page xx

- 3.1 Ring Volume
- 3.2 Ring Tone
- 3.3 Alert Type
- 3.4 Tone Length
- 3.5 Message Tone
- 3.6 Error Tone
- 3.7 Minute Minder
- 3.8 Connect Tone
- 3.9 Melody Composer

4. Phone Settings

Page xx

- 4.1 Greeting Message
- 4.2 LCD Control
  - 4.2.1 Back Light
  - 4.2.2 Contrast
- 4.3 Service Light
- 4.4 Auto Redial
- 4.5 Answer Mode
- 4.6 Language
- 4.7 Reset Settings
- 4.8 Calling Card
- 4.9 Shortcut

5. Organizer

Page xx

- 5.1 Calendar
- 5.2 To Do List
- 5.3 Time & Date
  - 5.3.1 Set Time
  - 5.3.2 Set Date
  - 5.3.3 World Time
  - 5.3.4 Format
- 5.4 Alarm
  - 5.4.1 Once Alarm
  - 5.4.2 Daily Alarm
  - 5.4.3 Weekly Alarm
  - 5.4.4 Remove Alarm
- 5.5 Calculator

6. Security

Page xx

- 6.1 Change Lock Code
- 6.2 Change Security Code
- 6.3 Call Restriction
  - 6.3.1 restrict all outgoing call
  - 6.3.2 restrict all incoming call
  - 6.3.3 restrict outgoing call
- 6.4 SOS Call List

7. Network Services

Page xx

- *1 7.1 Call Diverting
  - 7.1.1 Divert Always
  - 7.1.2 Busy
- *1 7.2 Call Waiting
- 7.3 Network Selection
  - 7.3.1 Automatic
  - 7.3.2 Manual
  - 7.3.3 New Search
- 7.4 Voice Privacy
- 7.5 NAM Selection
- 7.6 Set Service Code
  - 7.6.1 Call Diverting
  - 7.6.2 Call Waiting
- *2 7.7 Public System Selection

*1 available when you set the service code in the Set Service Code menu option (7.6).
*2 may be unavailable depanding on the service provider.

8. Games

Page xx

- 8.1 Casino
- 8.2 Roulette
- 8.3 Black Jack
- 8.4 Sniper
- 8.5 Snake
- 8.6 Mole
- 8.7 Othello

9. WAP Browser

Page xx

- 9.1 Home
- 9.2 Favorite
- 9.3 http://
- 9.4 Settings
- 9.5 Clear Cache

For details on the WAP browser feature, refer to the WAP Browser guide supplied with your phone.

Call Records

Via this menu, you can view the following phone calls:

- Missed
- Incoming
- Outgoing

The number and name (if available) are displayed, together with the date and time at which the call was made.

Note: Your phone can keep up to ten numbers in each record.

Missed Calls *Menu 1.1*

This option lets you view the last unanswered calls. Pressing the **Options** soft key allows you to:

- Edit the number (if available) and dial it or save it in Phonebook
- Delete the call from the list

Incoming Calls *Menu 1.2*

This option lets you view the last calls received. Pressing the **Options** soft key allows you to:

- Edit the number (if available) and dial it or save it in Phonebook
- Delete the call from the list

Outgoing Calls *Menu 1.3*

This option lets you view the last numbers dialed. Pressing the **Options** soft key allows you to:

- Delete the number
- Edit the number and save it in Phonebook

Call Time *Menu 1.4*

This option lets you view the timers for calls made and received. The following timers are available.

Last Call Time: duration of the last call.

Total Call Time: total duration of all calls made from or receive to your phone since the timer was last reset using the **Reset Timer** option.

Display Call Time: allows you to set the phone to display the call time when the call is made or received. Select **Enable** to display the call time and **Disable** not to display it.

Reset Timers: option used to reset the call timers; you must first enter the phone's security code (see page xx) and then press the **OK** soft key.

Note: The actual time invoiced for calls by your service provider may vary, depending on network features, rounding-off for billing purposes and so forth.

Messages

The SMS (Short Message Service) function is a network service and may not be supported by your network. Messages can be sent by text, fax and e-mail messaging systems, provided that these services are supported by your network.

When you receive new text messages, the ✉ icon appears on the top line of the display. If the message memory is full, an error message is displayed and you cannot receive any new messages. Use the **Delete All** option in the **Read Messages** menu (**2.2**) to delete obsolete messages.

Voice Mail *Menu 2.1*

This menu provides you with a way of accessing your voice mailbox (if provided by your network).

Note: Please contact your service provider for more information. Depending on the service provider, you may be charged for accessing the voice server.

Connect to Voice Server: Before using this feature, you must enter the voice server number obtained from your service provider (see menu option **2.1.2**). You can then select this option to listen to your voice mails.

Note: You can connect to the voice mail server of the service provider quickly by pressing and holding down the key in idle mode.

Voice Server Number: allows you to change the voice mail server number.

To...	Then press the...
Enter the server number	Corresponding numeric keys.
Correct a digit	**C** key.
Save the entered number	**Save** soft key.

Read Messages *Menu 2.2*

Three message boxes are available:

New Inbox: used to store the messages that you have received but not read.

Old Inbox: used to store the messages that you have received and read.

Outbox: used to store the messages that you have already sent or will send.

1. Select the required box. The first message in the box is displayed with the following information:
   - Message number
   - Message status: New, Old, Not Sent, Sent (If you have set the **Delivery Ack** menu option to **ON**, the report is also shown; see page xx for further details.)
   - Date and time at which the message was received (Inboxes only)

2. Press the ⌒ or ⌣ key to select the message you want to read.

3. To view this message, press the **View** soft key. The screen shows the:
   - Sender's phone number (if the message was sent) or recipient's phone number
   - Message text

To scroll through the message, press the ⌒ or ⌣ key. You can choose the following options, by pressing the **Options** soft key.

Delete: allows you to delete obsolete messages.

Text Reply: allows you to reply by sending a text message.

Call Back: allows you to call the sender back.

Cut Number: allows you to extract a number from the message text, so that you can call the number or save it in Phonebook.

Send: allows you to send a message that you have received or saved. You can:
- Send the message
- Save and send the message
- Save but not send the message

Edit And Send: allows you to edit a message for sending.

Note: The available options may vary, depending on the message status (New/Old, Not Sent or Sent for example).

To delete all messages, you can select **Delete All** (**Menu 2.2.4**).

Write Messages *Menu 2.3*

Via this menu, you can write a text message of up to 160 alphanumeric characters and send it to multiple destinations. For further information on how to enter the characters in your message, see page xx.

1. Press the ⌒ or ⌣ key to select a setting group on which you have set up default information on the SMS feature via the **Setup** menu (see the page xx), and press the **Select** soft key.

2. After completing the message, press the **OK** soft key.

   Note: While writing a message, pressing the # key allows you to start new line.

3. Select the desired one of the following options by pressing the ⌒ or ⌣ key, and press the **Select** soft key.

   - **Send Only:** After transmission, the message will be cleared.
   - **Save and Send:** allows you to save a copy of the message. When you read the message in your outbox, **Sent** is displayed to indicate the message status.
   - **Save Only:** allows you to save the message so that it can be sent later. You do not take the next step. When you read the message in your outbox, **Not sent** is displayed.

4. Select an Empty cell for the destination (phone number or e-mail address) by pressing the ⌒ or ⌣ key and press the **Edit** soft key.

5. Enter the desired destination and press the **OK** soft key.

   Note: The **Names** soft key visible when you do not enter anything allows you to search for a number in your Phonebook.

6. If you want to send the message to multiple destinations, repeat steps 4 and 5 as needed.

   To delete an entered destination, select the desired one, and press the **Delete** soft key.

7. When entering destinations is done, press the key to send the message.

Preset Message List *Menu 2.4*

Using this menu, you can preset up to five messages that you send most frequently to retrieve when writing a new message. Scroll through the list by pressing the ⌒ or ⌣ key. When the required message number appears, press the **Options** soft key.

The following options are available:

Edit: allows you to write a new message or edit the selected preset message.

Note: For further information on how to enter the characters, refer to page xx.

Send Message: allows you to retrieve the selected message for sending. Once you have completed the message, you can send, save and send, or simply save it.

Delete: allows you to delete the selected message.

Setup *Menu 2.5*

Via this menu, you can set up default information for the SMS feature. A setting group is a collection of settings required to send messages. Five setting groups are available.

Select the desired number by pressing the ⌒ or ⌣ key, and press the key or the **Select** soft key. Then, set up the options for the group.

The available setup options are:

Setting Name: allows you to give a name to the setting group currently being defined.

Callback Number: allows you to set the phone number to which the recipient of your SMS message may send you a reply message via your message center, if the service is provided by the network.

Manual Ack: allows you to activate or deactivate the manual acknowledgement function. When this function is activated, the recipient can send you an answer to your message by one touch of a number key.

Delivery Ack: allows you to activate or deactivate the delivery acknowledgement function. When this function is activated, the network informs you whether your message has been read or not by the recipient.

Privacy: allows you to set the restriction feature. When this option is set to **Restricted**, the recipient must have the password which you have set when writing a message to see the message. If you do not want to use the feature, select **Not Restricted**.

Urgency: allows you to set the urgency status of the messages. **Bulk**, **Normal**, **Urgent**, and **Very Urgent** are available.

Type: allows you to set the type of messages. The available types are; **Text** and **E-mail**.

This menu is not shown in the current phone. The contents are from SGH-Q200.

Picture Message

In this menu, you can send an SMS message containing pictures. Your phone have 10 preset pictures that can be replaced with pictures received from other sources, such as the internet or remote phones.

Select the desired picture from the list and press the **View** soft key. When the picture is displayed, press the **Options** soft key. The following options are available:

Delete: deletes the picture from the phone. The preset picture will be restored.

Text Reply*: allows you to send a text reply to the sender of the selected picture.

Call Back*: allows you to call the sender back.

Cut Number*: allows you to extract a number from the message, so that you can call the number or save it in the phonebook.

Send: allows you to send the picture message using the selected picture. Note that the recipient's phone must support the Picture Messaging feature.

Edit Text*: allows you to edit text from the message.

Rename: allows you to change the title of the picture. For details on entering characters, see page xx.

Notes:
- Picture messages are stored in the phone memory. You cannot view them if you use your SIM card in another phone.
- Each picture message is made of several text messages. Therefore, sending one picture message may cost more than sending one text message.

*: unavailable when the selected picture is one of the preset pictures.

This feature is not available in the current phone. The contents are from SGH-Q200.

Receiving Pictures, Ring Tones, or Operator Logos

When you receive a message from other phones or from the Internet, you will hear an alert beep and a text notification will appear on the display: Picture Message, Ring Tone or Operator Logo. You have the option of saving these items in the phone's memory or discarding them.

Picture Message

You may send the received picture as and SMS message to another phone that supports this feature. You may save up to 10 pictures.

When you receive a picture message:

To...	Then...
View the picture	Press the **View** soft key.
Save the picture	• Press the **Options** soft key. • Select **Save Picture**, and press the **Select** soft key. • Select a preset picture to be replaced, and press the **Select** soft key.
Discard the picture	• Press the **Options** soft key. • Select **Discard**, and press the **Select** soft key.
Use the saved picture	Go to page xx.

Ring Tone

You may set the received tone as your phone's ring tone. You may save up to 10 tones.

When you receive a ring tone message:

To...	Then...
Listen to the ring tone	• Press the **Options** soft key. • Select **Playback** and press the **Select** soft key. • Press the **Stop** soft key to stop playing back.
Save the ring tone	• Press the **Options** soft key. • Select **Save** and press the **Select** soft key. • Select a location and press the **Select** soft key. • Select the **Yes** or **No** soft key when the phone asks if you want to set the ring tone to the received tone.
Discard the message	• Press the **Options** soft key. • Select **Discard**, and press the **Select** soft key.
Use the saved ring tone	Go to page xx.

Operator Logo

The new operator logo will be displayed in place of the service provider's name on the idle screen when you are connected to the corresponding network. You may save only one Operator Logo. Each time you save a new logo, the old one is deleted.

When you receive an operator logo message:

To...	Then...
View the logo	Press the **View** soft key.
Save the logo	• Press the **Options** soft key. • Select **Save**, and press the **Select** soft key.
Discard the logo	• Press the **Options** soft key. • Select **Discard**, and press the **Select** soft key.

Sound Settings

You can use the Sound Settings feature to customize various settings, such as the:

- Ringing tone or melody, volume and type
- Sounds made when you press a key, make an error or receive a message

Ring Volume *Menu 3.1*

This option allows you to adjust the volume level of the ringer.

Press the ⌒ or ⌣ key to increase or decrease the level. You can also use the ▲ or ▼ key on the left side of the phone. The greater the number of bars you see, the greater the volume is.

Ring Tone *Menu 3.2*

This option allows you to select the desired ringer tone. You can choose from 23 different tones. Each time you select a tone, it sounds for a few seconds. Tones 19 and 20 correspond to the melodies that you can compose, using the **Melody Composer** menu option (**3.9**), and 10 additional options are ring tone received from the other sources (web or remote phones). (????)

Alert Type *Menu 3.3*

This option allows you to indicate how you are to be informed of any incoming calls. The following options are available.

Light Only: only the backlight is switched on; the phone neither rings nor vibrates.

Melody: the phone rings using the ringer tone selected via the **Ring Tone** menu option (**3.2**).

Vibration: the phone vibrates but does not ring.

Vibra+Melody: the phone first vibrates three times and then starts ringing.

Step Melody: the phone rings using the selected ringer tone, but the volume becomes louder and louder from the minimum level. Reaching to the maximum, the phone restarts from the minimum.

Tone Length *Menu 3.4*

The tone length setting enables you to select **Short** or **Long** DTMF (dual-tone multi-frequency) tones. DTMF tones are what your phone transmits 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) system require you to use long DTMF tones.

Message Tone *Menu 3.5*

This option allows you to select how the phone informs you that a new message has been received.

The following options are available:

Light Only: the service light in the top right-hand corner of the phone flashes.

Single Beep: the phone beeps once.

SMS Tone1~10: the phone uses an SMS tone. You are provided with ten SMS tones.

Error Tone *Menu 3.6*

This option allows you to select how the phone informs you that you have made a mistake.

The following options are available:

OFF: the phone does not beep.

ON: the phone beeps to indicate an invalid entry.

Minute Minder *Menu 3.7*

This option allows you to specify whether the phone must beep every minute during an outgoing call to keep you informed of the length of your call.

The following options are available:

OFF: the phone does not beep.

ON: the phone beeps every minute.

Connect Tone *Menu 3.8*

You can set your phone to beep when your call is connected to the remote phone (or the remote phone is ringing depending on your network).

The following options are available:

OFF: the phone does not beep.

ON: the phone beeps when your call is connected.

Melody Composer *Menu 3.9*

This option allows you to compose your own melody to be used as the ring tone.
Three octaves are available. A maximum of 100 notes can be entered. You can adjust the length of the notes and add rests, as required.

Composing a Melody

You can compose two melodies. When you access the menu, the names of any melodies created are displayed. Otherwise, **Melody 1** and **Melody 2** appear. Select the melody that you wish to create or edit.

To...	Then press the...
Compose a melody	**Edit** soft key.
Insert a note	**Next** soft key.
Move a note a semitone up	key.
Move a note a semitone down	key.
Change the length of a note	key one or more times until the note is of the required length.
Delete a note	**C** key.
Enter a rest	key one or more times for the required length of time.

To...	Then press the...
Listen to your melody	**Listen** soft key.
Modify your melody	**Modify** soft key.

Saving a Melody

When you are satisfied with your melody after listening to it, you can save the melody and indicate that you wish to use it as the ring tone.

1. Press the **Save** soft key.
2. Enter a title for the melody, and press the **OK** soft key.

   Note: For further details on how to enter characters, refer to page xx.

   You are asked if the melody is to be set as the ring tone.
3. To use the melody as the ring tone, press the **Yes** soft key. The melody is saved and set to the current ring tone.
   Otherwise, press the **No** soft key. The melody is saved only.

Note: You can also select the melodies composed via the **Ring Tone** menu option (**3.2**); they are tones 19 and 20 respectively.

Phone Settings

Many different features of your phone can be customized to suit your preferences via the **Phone Settings** menu.

Greeting Message *Menu 4.1*

This option allows you to set a greeting to be displayed briefly when the phone is switched on. The current message is displayed.

To...	Then press the...
Clear the existing message	**C** key and hold it down until the message is cleared.
Enter a new message	Appropriate alphanumeric keys.
	For further details on how to enter characters, refer to page xx.
Save the message	**OK** soft key.

LCD Control *Menu 4.2*

Back Light

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.

The following options are available:

OFF: the backlight is not used.

Short: the backlight comes on when you press a key or receive a call and switches off 10 seconds after the last key is pressed.

Long: the backlight comes on when you press a key or receive a call and switches off 20 seconds after the last key is pressed.

Contrast

This option allows you to adjust the contrast of the LCD screen by pressing the ⌒ or ⌣ key. You can also use the ▲ or ▼ key on the left side of the phone. Each time you slide the key, you can see the LCD screen changing according to the current value.

Service Light *Menu 4.3*

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

The following options are available:

OFF: the service light is not used.

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

Auto Redial *Menu 4.4*

With the Auto Redial function, the phone makes up to ten attempts to redial a phone number after an unsuccessful call.

Note: The interval between two call attempts varies depending on the network.

The following options are available:

OFF: the number is not redialed.

ON: the number is redialed automatically.

Answer Mode *Menu 4.5*

This option allows you to select how incoming calls are to be answered.

The following options are available:

Open Answer: to answer a call, you can simply open the folder. When it is already open, pressing the key answers the call.

Any Key Answer: to answer a call, you can press any key except the key. Pressing the key mutes the ringer.

Send Key Answer: to answer a call, you must press the key. Pressing the key mutes the ringer.

Language *Menu 4.6*

You can select a display language. The available language options are: **English**, **Español**, and **Português**.

Reset Settings *Menu 4.7*

You can easily reset the menu settings to its factory default status.

Enter the 4-digit security code and press the **OK** soft key. The phone immediately resets all settings to default status.

Note: The security code is preset to “0000.” To change this code, refer to page xx.

Calling Card *Menu 4.8*

When you use a calling card for long distance calls, you must send the service code and the card number to the calling card service system. Using this menu, you can save these calling card information to send them automatically when you make calling card calls. You can store up to five calling cards.

Enter 4-digit security code and press the **OK** soft key to access the Calling Card menu.

Saving Calling Card Information

1. Scroll to a calling card number by pressing the ⌒ or ⌣ key, and press the **Select** soft key.

2. If you want to set the card name, press the **Select** soft key. Enter the name as needed.

   For further details on entering characters, see page xx.

3. When entering name is finished, press the **OK** soft key. The name is saved.

4. Press the ⌣ key to move to the **Card Number** menu, and press the **Select** soft key.

5. Enter the card number (and/or PIN if required) as listed on the back of the calling card.

   To enter a pause, “P” before the second number, press and hold the * key. The number after “P” will be sent only by pressing the ☎ key when you make a call with the calling card.

   Note: The order of the numbers which you must enter may vary depending on the dialing sequence your card uses.

6. When entering the number is finished, press the **OK** soft key.

7. To return to idle mode, press the ☎/⏻ key.

Selecting a Calling Card

You can set the default card to use for making a calling card calls. The number stored in the selected card will be sent when you make calling card calls.

1. Scroll to the desired calling card by pressing the ⌒ or ⌣ key, and press the **Select** soft key.

2. Select **Set Default** by pressing the ⌒ or ⌣ key, and press the **Select** soft key.

3. The display shows the number saved for the calling card. If you are satisfied, press the **Set** soft key.

4. To return to idle mode, press the ☎/⏻ key.

Making Calls Using the Calling Card

Note: The procedure may not apply to all calling cards. Please look at the back of your calling card or contact your phone company for instructions.

1. Make a call to the calling card service system.

2. When you are connected, press the **Options** soft key and select **Callcard Service** by pressing the ⌒ or ⌣ key.

3. Press the **OK** soft key.

4. When you hear the prompting tone from the service system, press the ☎ key to transmit the card numbers.

5. Dial the number of the desired remote phone.

Shortcut *Menu 4.9*

The navigation key can also be used as shortcut keys. When slid or pressed in idle mode, it allows you to access specific menu options directly.
Using this menu, the following menu options can be assigned to the shortcut keys:

- **Calendar** (Menu 5-1)
- **Calculator** (Menu 5-5)
- **Messages** (Menu 2)
- **Sound Settings** (Menu 3)
- **Games** (Menu 8)
- **To Do List** (Menu 5-2)
- **Phonebook** (with the entries listed by name)
- **New Inbox** (Menu 2-2-1)

1. Select the key to be used as a shortcut key by pressing the ⌒ or ⌣ key, and press the **Select** soft key:
   - **Key down**
   - **Key left**

Note: The ⌒ and) keys are fixed to enter the **WAP Browser** and **Voice Memo** menus respectively.

2. Select the menu option to be assigned to the key by pressing the ⌒ or ⌣ key, and press the **Select** soft key.

Note: To deactivate a shortcut key, select the **None** option.

Organizer

The Organizer feature enables you to:
- View the calendar and organize your schedule
- Define a list of things to do
- Set the current date and time
- Set the alarm so that the phone rings at a specific time (to remind you of an appointment for example)
- Use the phone as a calculator

Calendar *Menu 5.1*

With the Calendar feature, you can:
- Consult the calendar
- Write memos to keep track of your schedule and trigger an alarm if necessary

Consulting the Calendar

When you select the **Calendar** menu option (**5.1**), the calendar is displayed. The following options are available when you press the **Options** soft key:

Search all: displays all memos set, regardless of the day and starting with the oldest. To scroll through the memos, press the ⌒ or ⌣ key.

Delete all: allows you to delete all memos. You are asked to confirm your selection.

Go to date: allows you to jump to a specific date.

Writing a Memo

To write or edit a memo on a specific date, take the following steps:

1. Select the required date in the calendar, by pressing the navigation keys.

   Note: Press the ▲ key to skip to the previous month or the ▼ key to skip to the next month.

2. Press the **Select** soft key.
   An empty memo screen is displayed to allow you to enter your memo.

3. Enter your memo and then press the **OK** soft key.

   Note: For further details on how to enter characters, refer to page xx.

   You are asked if you wish to set the alarm.

4. If you want the alarm to ring on the chosen day, press the **Yes** soft key.
   Otherwise, press the **No** soft key.

5. If you pressed **Yes**, set the time for the alarm and press the **OK** soft key.
   A check mark is displayed in front of the date in the calendar to indicate that a memo exists.

Editing a Memo

If you select a day for which a memo already exists, you can press the **Edit** soft key to edit the memo displayed.

Note: For further details on how to enter characters, refer to page xx.

Once you have finished editing the memo, press the **OK** soft key. The following options are available when you press the **Options** soft key:

Alarm: allows you to set the alarm to ring on the chosen day.

Erase: allows you to delete the memo.

Copy to: allows you to copy the memo to another date.

Move to: allows you to change the date and time of the memo.

New: allows you to write a new memo.

To Do List *Menu 5.2*

This feature allows you to:

- Draw up a list of tasks to be done
- Assign a priority and deadline to each task
- Sort the tasks by priority and status mark (☐ for tasks to be done, ✓ for completed tasks)

Creating the To Do List

To create the To Do List, take the following steps:

1. Press the **New** soft key.

2. Enter the first task.

   Note: For further details on how to enter characters, see page xx.

3. Press the **OK** soft key.

4. Select **High** or **Low** priority by pressing the ⌒ or ⌣ key, and press the **Select** soft key.
5. Enter your deadline. If you do not want to define the deadline, press the **Skip** soft key.
6. Press the **OK** soft key to save the task.

Editing the To Do List

If tasks are already defined in the To Do List when you select the **To Do List** menu option (**5.2**), the current contents are displayed with the associated priority and status mark. The following options are available:

To...	Then...
View the details for a specific task	• Highlight the task. • Press the **View** soft key.
Change the status of a specific task (□ or ✓)	• Highlight the task. • Press the ✳ key to mark the task as completed as of the current date and time. or • Highlight the task. • Press the **Options** soft key. • Select the **Mark** option. • Select the appropriate status.
Create a new task	• Press the **Options** soft key. • Select the **New** option. • Enter the text, priority and deadline for the task.
Edit an existing task	• Highlight the task. • Press the **Options** soft key. • Select the **Edit** option. • Change the text, priority and deadline for the task.

To...	Then...
Sort the existing tasks by priority or status	• Press the **Options** soft key. • Select the **Sort** option. • Select the sort criterion (High, Low, Done, Undo).
Copy a task	• Highlight the task. • Press the **Options** soft key. • Select the **Copy** option. • Change the text, priority and deadline for the task as required.
Delete a task	• Highlight the task. • Press the **Options** soft key. • Select the **Delete** option.
Delete all tasks	• Press the **Options** soft key. • Select the **Delete all** option. • Confirm the deletion by pressing the **OK** soft key.

Time & Date

Menu 5.3

This option allows you to change the current time and date displayed. You can also check the current time for Greenwich Mean Time (GMT) and 21 major cities around the world.

Set Time: allows you to enter the current time. You can choose the time format via the **Format** menu option (**5.3.4**).

Note: Before setting the time, you must specify your time zone, via the **World Time** menu option (**5.3.3**).

Set Date: allows you to enter the day, month and year. You can change the date format via the **Format** menu option (**5.3.4**).

World Time: allows you to check the current time for Greenwich Mean Time (GMT) and 21 major cities around the world, by pressing the ⌒ or ⌣ key.

The screen shows the:

- City name
- Current date and time
- Time difference between the selected city and your city if you have set the local time (see below for further details) or GMT (by default)

To select the time zone in which you are located, take the following steps:

1. Select the city corresponding to your time zone by pressing the ⌒ or ⌣ key.
   The local date and time are displayed.
2. Press the **Set** soft key.

Format: allows you to change the time and date formats.

Time format: 24 Hours
12 Hours

Date format: YYYY/MM/DD (year/month/day)
DD/MM/YYYY (day/month/year)
MM/DD/YYYY (month/day/year)

Alarm

Menu 5.4

You can set the alarm to ring at a specific time.

Note: To meet FAA safety guidelines, the alarm does not function when the phone is off.

The following frequency options are available.

Once Alarm: the alarm rings only once and is then deactivated.

Daily Alarm: the alarm rings every day at the same time.

Weekly Alarm: the alarm rings every week on the same day and at the same time.

To set the alarm, take the following steps:

1. Choose the alarm frequency option and press the **Select** soft key.
2. Enter the required time and press the **OK** soft key.
3. If you select **Weekly alarm** in step 1, select the day of the week and the **OK** soft key.

To stop the alarm when it rings, open the folder and press the **Exit** soft key.

Remove Alarm: deactivates the alarm.

Calculator *Menu 5.5*

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

1. Enter the first number using the numeric keys.
2. Press the right soft key until the required arithmetic symbol appears: **+** (add), **-** (subtract), ***** (multiply), **/** (divide).
3. Enter the second number.
4. Repeat steps 2 to 3 as many times as required.

   Notes:
   - To erase any mistakes and clear the display, press the **C** key.
   - To include a decimal point or a bracket, press the left soft key until the required symbol is displayed.
5. To calculate the result, press the key.
6. To end the calculation, press the key.

Security

The Security feature enables you to restrict the use of your phone to:
- The people of your choice
- The types of calls of your choice

Change Lock Code *Menu 6.1*

The lock code is a password for locking or unlocking the phone. The lock code is preset to “0000” at factory. This menu allows you to change your current lock code to a new one.

Before you can specify a new lock code, you must enter the current code. Then, enter a new code and enter it again to confirm.

Change Security Code *Menu 6.2*

The security code is used for restriction of the use of your phone. The security code is preset to “0000” at factory. This menu allows you to change your current security code to a new one.

Before you can specify a new security code, you must enter the current code. Then, enter a new code and enter it again to confirm.

Call Restriction *Menu 6.3*

The call restriction feature allows you to restrict your calls.

Call restriction can be set up in the following ways:

restrict all outgoing call: calls cannot be made.

restrict all Incoming call: calls cannot be received.

restrict outgoing call: calls to the phone numbers which you have specified cannot be made. You can set up to 10 phone numbers.

To restrict the all outgoing or all incoming calls, take the following steps:

1. Select **restrict all outgoing call** or **restrict all incoming call** by pressing the ⌒ or ⌣ key, and then press the **Select** soft key.
2. Select **Enable** to the feature on, and press the **Select** soft key.

   If you want to set the restriction off, select **Disable**.
3. Enter your security code and press the **OK** soft key.

To set the phone numbers to be restricted, take the following steps:

1. Select **restrict outgoing call** by pressing the ⌒ or ⌣ key, and then press the **Select** soft key.

2. Enter your security code and press the **OK** soft key.
3. Select an empty location by pressing the ⌒ or ⌣ key, and press the **Options** soft key.
4. Select **Edit**, then the **OK** soft key. If a number has already been saved, this option allows you to edit the number.

   If you want to erase a saved number, select **Erase**. When a confirmation displays, press the **Yes** soft key.
5. Enter the phone number and press the **OK** soft key. The phone number is saved and now you cannot make a call to the number.

SOS Call List *Menu 6.4*

Your phone provides emergency numbers for SOS calls programmed by the service provider. Three numbers can be manually dialed at any time even when the phone is locked or all outgoing calls are restricted.

To make an SOS call when the phone is locked, press the **SOS** soft key, select the desired number saved in the SOS call list, and then press the **Call** soft key.

Network Services

These menu functions are network services.
Please contact your service provider to check their availability and subscribe to them, if you so wish.

Call Diverting *Menu 7.1*

Note: For using the Call Diverting service, you must set the service code for it. Depending on the Set Service Code setting, this menu may not appear. For details, see page xx.

This network service enables incoming calls to be rerouted to the number that you specify.

Example: You may wish to divert your business calls to a colleague while you are on holiday.

Call diverting can be set up in the following ways:

1. Select the type of the call diverting options by pressing the ⌒ or ⌣ key, and press the **Select** soft key.

   - **Divert Always:** all calls are diverted.
   - **Busy:** calls are diverted if you are already making another call.

2. When **Activate** is highlighted, press the **Select** soft key.

3. Enter the number to which the calls are to be diverted, and press the **OK** soft key.

   Note: The **Names** soft key visible when you do not enter anything allows you to search for a number in your Phonebook.

   The phone sends your setting to the network and the network's acknowledgement is displayed.

You can deactivate each call diverting setting by selecting the **Cancel** option.

Call Waiting *Menu 7.2*

This network service enables you to be informed when someone is trying to reach you during another call.

Note: For using the Call Waiting service, you must set the service code for it. Depending on the Set Service Code setting, this menu may not appear. For details, see page xx.

The following options are available:

Activate: activates the Call Waiting feature. You can answer an incoming call while you have a call in progress. See page xx for answering a waiting call.

Cancel: deactivates the Call Waiting feature.

Network Selection *Menu 7.3*

The Network Selection feature enables you to indicate whether the network to used when roaming (outside your home area) is selected automatically or manually.

Note: You can select a network other than your home network only if it has a valid roaming agreement with your home network.

The following options are available:

Automatic: your phone automatically searches for a network available to you and chooses the appropriate one. Every time you switch your phone on, this menu resets to **Automatic**.

Manual: your phone searches for available networks, then displays them. Press the ⌒ or ⌣ key until the preferred network is highlighted and then press the **OK** soft key.

New Search: your phone begins a new search for new Private and Residential systems. When finding the best new system, the phone displays it. Then you can confirm by pressing the **Select** soft key, or start another search by pressing the **Next** soft key.

Voice Privacy *Menu 7.4*

Used only in digital networks, Voice Privacy encrypts the voice channel so that people cannot eavesdrop on your call conversation. If you turn this feature on and voice privacy becomes inactive for any reason your phone displays “Voice privacy not active” and beeps.

The following options are available:

Activate: turns this feature on. Your calls will be secured.

Deactivate: turns this feature off.

Note: This feature may not be available in all areas. Contact your service provider for details and availability.

NAM Selection *Menu 7.5*

The service provider programs your phone with the phone number and system information when your phone is first activated. This is called a Number Assignment Module (NAM).

For example, your phone can be activated in up to 4 different service areas each giving your phone a different phone number or account.

Only one number can be active at a time. When you select a phone number, you are also selecting which system to be used as your home system. The first phone number displayed with this menu is the currently selected number.

Notes:

- It may not be necessary to have four NAMs for your phone if your service provider has service or roaming agreements for each area in which you wish to use your phone. Contact your service provider for details.
- You need at least one active number to make a call. You cannot change from one NAM to another during a call.

Set Service Code *Menu 7.6*

For using the network services, such as the Call Diverting and Call Waiting, you must set the service codes supplied by your service provider with this menu. For more information on the service code, contact your service provider.

Call Diverting: allows you to set the codes for using each of the options (**Divert Always**, **Busy**, **No Reply**, **Unreachable** and **Cancel All**) in the Call Diverting.

Call Waiting: allows you to set the codes for using each of the options (**Activate** and **Cancel**) in the Call Waiting.

After selecting the desired option, enter the service code and press the **OK** soft key. The service code is saved and the option will be selectable when you access the appropriate menu.

Public System Selection *Menu 7.7*

Note: This menu may not be shown depending on the service providers.

When your system leaves its home system, it is roaming. Roaming is a feature which is only relevant in areas where there are usually at least two service providers which are referred to as “A” and “B” and have valid roaming agreements. When the phone is roaming, it can automatically search for home-type systems (same type as your home system) or non-home type systems (opposite type as your home system). Also, your service provider has programmed a list of preferred systems into your phone.

The system selection feature of your phone enables you to choose how your phone will roam. The following options are available:

Home Type: When the service is not available in your home system, it will search for a home type, preferred first.

Non Home Type: When the service is not available in your home system, it will search for a non-home type, preferred first.

Any System: When service is not available in your home system, the phone searches for a preferred system of either type, then a home type system, then a non-home type system.

Home Only: The phone uses its home system only (that is, it will not roam).

Games

Using this feature, you can play seven different games with the phone:

- Casino
- Roulette
- Black Jack
- Sniper
- Snake
- Mole
- Othello

Once you have selected a game, the following options are available:

Play: allows you to start a game.

Level: allows you to select the level of difficulty. Select the required level by pressing the ⌒ or ⌣ key, and press the **OK** soft key. This option is only available in games with several levels (Sniper, Snake).

Configuration: allows you to configure the phone for the chosen game (backlight and sound settings). To adjust each setting, highlight the **Backlight** or **Sound** option by pressing the ⌒ or ⌣ key, and then toggle between **ON** (✓) and **OFF** (☐) by pressing the **On/Off** soft key.

Instructions: describes the buttons used by the game. If necessary, press the ⌒ or ⌣ key to see a more detailed description.

High Score: enables you to view the highest score recorded for the selected game. You can also reset this score by pressing the **Reset** soft key.

If you break the current record for the game, the phone displays the High Score screen.

To stop playing a game, press the **C** or ☎/⏻ key.

WAP Browser

Your phone is equipped with a WAP browser to allow you to access and navigate the wireless web via your phone.

For further details on the WAP browser menu, refer to the WAP Browser User's Manual supplied with your phone.

Voice Memo

You can use the phone as a recorder by pressing the key. In idle mode, it records a voice memo, and while you are on the phone, it records the phone conversation during a call.

To access the Voice Memo menu, press the key in idle mode.

Notes:
- Your phone can record up to 10 memos, and each memo can be up to 1 minute in length of time.
- Closing the folder while recording cancels recording.
- If you have an incoming call while recording a voice memo, or the call is disconnected while recording phone conversation, the memo recorded up to that point is saved with the stamp of the current date and time.
- When you are out of the service area('No Service' is displayed)or in analog mode, a voice memo is not correctly recorded. It is recommended that you use this feature in digital mode in the service area.

Record

To record a voice memo, select this menu or press and hold the key in idle mode.

To record a phone conversation, press and hold the key while you are on the phone.

1. The message “Recording” displays, along with the timer.

2. Record a memo by speaking to the microphone or talking to the remote person.

3. To stop recording, press the **Stop** soft key.

   If you are recording a phone conversation, it is automatically saved with the title of the current date and time.

   If you are recording a voice memo, you are asked to enter the title for the recorded message. Go to next step.

4. Enter the desired title up to 16 characters using the keypad, then press the **Save** soft key to save the recording. For details on entering characters, see page xx.

   If you do not enter a title, **Untitled** is saved as the label.

Note: Recording voice conversations is illegal in some countries. Make sure the other party has stated its consent to being recorded.

Replay & Delete

Using this menu, you can play back a recorded message and delete it if you want.

1. When the display shows the title of the currently selected memo, press the ⌒ or ⌣ key to display the memo you want to play.

2. Press the **Play** soft key to play back the recorded message currently displayed.

3. When you have finished reviewing, press the **Stop** soft key.

4. If you want to delete the memo, press the **Delete** soft key.

5. When the phone confirms your selection, press the **Yes** soft key.

   If you do not want to delete the memo, press the **No** soft key.

6. Repeat steps 1 through 5 as necessary.

7. When you have finished, press the ☎/⏻ key to return to idle mode.

Edit Title

You can change the title of the selected memo.

1. The display shows the title of the currently selected memo. Press the ⌒ or ⌣ key to scroll to the memo title you want to edit.

2. Press the **Edit** soft key.

3. Enter the desired title up to 16 characters using the keypad. For details on entering characters, see page xx.

4. When entering is done, press the **Save** soft key to save the new title.

5. When you have finished, press the ☎/⏻ key to return to idle mode.

Solving Problems

Before contacting the after-sales service, perform the following simple checks. They may save you the time and expense of an unnecessary service call.

"No service", "Network failure" or "Not done" is displayed

- The network connection was lost. You may be in a weak reception area (in a tunnel or surrounded by buildings). Move and try again.
- You are trying to access an option for which you have not taken out a subscription with your service provider. Contact the service provider for further details.

You have entered a number but it was not dialed

- Have you pressed the ☎ key?
- Are you accessing the right cellular network?
- You may have chosen to restrict outgoing calls.

Your correspondent cannot reach you

- Is your phone switched on (☎/⏻ pressed for more than one second)?
- Are you accessing the right cellular network?
- You may have chosen to restrict incoming calls.
- You may be in a weak signal area. More and try again.

Your correspondent cannot hear you speaking

- Have you switched off the microphone (mute)?
- Are you holding the phone close enough to your mouth? The microphone is located in the bottom center of the phone.

The phone starts beeping and "**Warning** Low Battery" flashes in the display

- The battery power is weak. Replace the battery and recharge it.

The audio quality of the call is poor

- Check the signal strength indicator in the display ( ); the number of bars after it indicates the signal strength from strong ( ) to weak ( ).
- Try moving the phone slightly or moving closer to a window if you are in a building.

No number is dialed when you recall a Phonebook entry

- Check that the numbers have been stored correctly, by using the Phonebook Search feature.
- Re-store the number, if necessary.

If the above guidelines do not enable you to solve the problem, take a note of:

- The model and serial numbers of your phone
- Your warranty details
- A clear description of the problem

Then contact your local dealer or SAMSUNG after-sales service.

Health and Safety Information

Exposure to Radio Frequency (RF) Signals

Your mobile phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (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. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies:

- American National Standards Institute (ANSI) IEEE. C95.1-1992
- National Council on Radiation Protection and Measurement (NCRP). Report 86
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1996
- Ministry of Health (Canada), Safety Code 6.

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.*

* In the U.S. and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg(w/kg) averaged over on 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.

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 operation 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. (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 safety exposure.

For body worn operation, to maintain compliance with FCC RF exposure guidelines, use only Samsung-approved accessories. When carrying the phone while it is on, use the specific Samsung belt-clip that has been tested for compliance.

Use of non-SAMSUNG-approved accessories may violate FCC RF exposure guidelines and should be avoided.

For additional information concerning exposure to radio frequency signals, see the following websites:

Federal Communications Commission (FCC) RF Safety program (select “Information on Human Exposure to RF Fields from Cellular and PCS Radio Transmitters”):
http://www.fcc.gov/oet/rfsafety

Cellular Telecommunications Industry Association (CTIA): http://www.wow-com.com

World Health Organization (WHO) International Commission on Non-ionizing Radiation Protection (select Qs & As):
http://www.who.int/emf

United Kingdom, National Radiological Protection Board: http://www.nrpb.org.uk

U.S.Food and Drug Administration (FDA) Center for Devices and Radiological Health:
http://www.fda.gov/cdrh/consumer/

Precautions When Using Batteries

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

- Never use any charger or battery that is damaged in any way.
- Use the battery only for its intended purpose.
- If you use the phone near the network's base station, it uses less power; talk and standby 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.

Road Safety

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

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

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

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

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

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

5. Do not take notes or look up phone numbers while driving. Jotting down a “to do” list or flipping through your address book takes attention away from your primary responsibility, driving safely.

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

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

8. Use your wireless phone to call for help. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident or medical emergencies. Remember, it is a free call on your wireless phone!

9. Use your wireless phone to help others in emergencies. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.

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

Safety-
Your most
important call
The Wireless Industry
Reminds You To Use Your
Phone Safely When Driving

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 of danger.

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

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

Electronic Devices

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

Pacemakers

Pacemaker manufacturers recommend that a minimum separation of 6 inches (20 cm) be maintained between a hand-held wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Persons with pacemakers:

- Should always keep the phone more than 6 inches (15 cm) from their pacemaker when the phone is switched on;
- Should not carry the phone in a breast pocket;
- Should use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, switch off your phone immediately.

Hearing Aids

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

Other Medical Devices

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

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

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

Potentially Explosive Atmospheres

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

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

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

Vehicles

Only qualified personnel should service the phone, or install the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty which may apply to the unit.

Check regularly that all mobile phone equipment on your vehicle is mounted and operating properly.

Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, its parts or accessories.

For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including both installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

Switch off your phone before boarding an aircraft. The use of mobile phones in an aircraft may be dangerous to the operation of the aircraft, disrupt the wireless telephone network and may be illegal.

Failure to observe these instructions may lead to the suspension or denial of telephone services to the offender, or legal action, or both.

Emergency Calls

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

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

To make an emergency call:
1. If the phone is not on, switch it on.
2. Key in the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.
3. Press < >.

If certain features are in use (keyguard, restrict calls, etc.), you may first need to turn those features off before you can make an emergency call. Consult this document and your local cellular service provider.

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

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 to fulfill any warranty obligations and allow you to enjoy this product for many years. When using your phone, battery, charger, OR any accessory:

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

Health and Safety Information

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

Glossary

To help you understand the main technical terms and abbreviations used in this booklet and take full advantage of the features on your mobile phone, here are a few definitions.

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.

Call Diverting

Ability to reroute calls to another mobile or fixed line.

Call Holding

Ability to put one call on standby while answering or making another call; you can then switch between the two calls, as required.

Calling Line Identification Services (Caller-ID)

Services allowing subscribers to view or block the telephone numbers of callers.

Call Waiting

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

Conference Calling

Ability to establish a conference call involving up to two additional parties.

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.

Phone Password

Lock code used to unlock the phone when you have selected the option to lock it automatically each time it switches on, and security code used to restrict the use of your phone.

Roaming

Use of your phone when you are outside your home area (when travelling for example).

SMS (Short Message Service)

Network service for sending and receiving messages to and from another subscriber without having to speak to the correspondent. The message created or received can be displayed, received, edited or sent.

Soft Keys

Keys marked ⊙ on the phone, the purpose of which:

- Varies according to the function that you are currently using
- Is indicated on the bottom line of the display just above the corresponding key

TDMA

Time division multiple access (TDMA) is a digital transmission technology that allows a number of users to access a single radio-frequency (RF) channel without interference by allocating unique time slots to each user within each channel. The TDMA digital transmission scheme multiplexes three signals over a single channel. The current TDMA standard for cellular divides a single channel into six time slots, with each signal using two slots, providing a 3 to 1 gain in capacity over advanced mobile-phone service (AMPS). Each caller is assigned a specific time slot for transmission.

Voice Mail

A computerized answering service that answers a call, plays a greeting and records a message.

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