

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



GPRS TELEPHONE SGH-N707



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Important safety precautions

Read these guidelines before using your wireless phone. Failure to comply with them may be dangerous or illegal.

Road safety at all times

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

Switching off when refuelling

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

Switching off in an aircraft

Wireless phones can cause interference. Using them in an aircraft is both illegal and dangerous.

Switching off in hospitals

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

Interference

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

Special regulations

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).

Important safety precautions

Sensible use

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

Emergency call

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

Water resistance

Your phone is not water-resistant. Keep it dry.

Accessories and batteries

Use only Samsung-approved accessories and batteries. Use of any unauthorised accessories could damage your phone and may be dangerous.

Qualified service

Only qualified service personnel may repair your phone.

For more detailed safety information, see "Health and safety information" on page 132.

CAUTION

RISK OF EXPLOSION IF A BATTERY IS REPLACED BY AN INCORRECT TYPE.

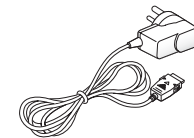
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

Unpacking

Your package contains the following items:



Handset



Travel Adapter



Battery



User's Manual

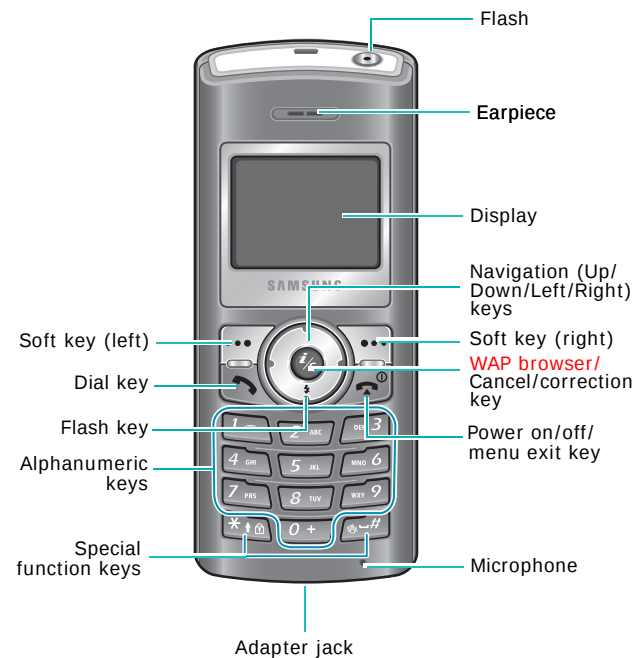
Note: The items supplied with your phone may be different, depending on your country or service provider.

You can obtain the following accessories for your phone from your local Samsung dealer:

- Standard battery
- Simple handsfree car kit
- Travel adapter
- PC data cable
- Car charger
- PC link CD
- Straight headset

Phone layout

The following illustrations show the main elements of your phone:



Key(s) Description



In Menu mode, scrolls through the menu options and Phonebook.

In Idle mode, the Down key allows you to use your phone as a flashlight and the Up key to access your favourite menu option directly. For further details about shortcuts, see page 93.



When entering text, moves the cursor to the left or right, depending on which side you push.

In Idle mode, allows you to access your favourite menu options directly. For further details about shortcuts, see page 93.



(soft keys)

Performs the functions indicated by the screen text above them, on the bottom line of the display.



In Idle mode, launches the WAP (Wireless Application Protocol) browser.

When entering text, deletes characters from the display.

In Menu mode, returns you to the previous menu level.



Makes or answers a call.

In Idle mode, recalls the last number dialled or received when held down. In Menu mode, selects a menu function or stores information that you have entered, such as a name in the SIM card or phone's memory.

Key(s) Description (continued)



Ends a call. Also switches the phone on and off when held down.

In Menu mode, cancels your input and returns the phone to Idle mode.



In Idle mode, accesses your voice mail when held down.



Enters numbers, letters, and some special characters.



In Idle mode, activates Key Lock mode when pressed and held.

In the text entry mode, changes the case of letters.



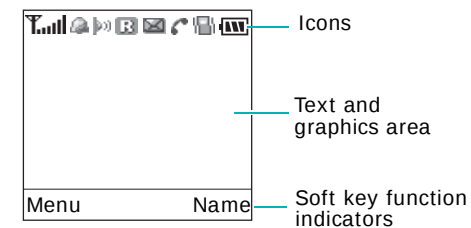
In Standby mode, enters or exits Silent mode on and off when held down.

Also, it is used at various times when you dial, especially when using teleservices.

Display

Display layout

The display has three areas:



Area	Description
First line	Displays various icons. See page 13.
Middle lines	Displays messages, instructions, and any information that you enter, such as the number you are dialling.
Last line	Shows the current functions assigned to the two soft keys.

Icons

Icon	Description
	Shows the received signal strength. The greater the number of bars, the stronger the signal.

Icon **Description** (continued)

Appears when a call is in progress. When your SIM card supports ALS (Alternative Line Service), this icon may appear with the number 1, 2, or both. For example:



Appears when you are out of your service area. When it displays, you cannot make or receive a call.



Appears when you are connected to the GPRS network.



Appears when you are out of your home area and have logged onto a different network; for example, when travelling in other countries.



Appears when the Call diverting feature is activated. When your SIM card supports ALS (Alternate Line Service), this icon may appear with the number 1, 2, or both. For example:



Appears when a new text message has been received.



Appears when a new voice mail message has been received.



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

Icon **Description** (continued)

Appears when Silent mode is active or you set the phone to vibrate when you receive a call. You set this option in the **Alert type** menu (**Menu 4.3**). For further details, see page 26 and page 82 respectively.



Appears when Mute mode is active.



Shows the level of your battery. The more bars you see, the more power you have remaining.

Backlight

The backlight illuminates the display and the keypad. When you press any key, the backlight comes on. It goes off when no keys are pressed within a given period of time, depending on the setting in the **Back light** menu (**Menu 5.1.2**). The display turns off after one minute to conserve battery power.

To specify the length of time the backlight is active, set the **Back light** menu (**Menu 5.1.2**). See page 87 for further details.

Flashlight

There is a built-in flashlight on the top of the phone. The flashlight could be useful in emergency conditions.

Press the Down key in Standby mode to turn on the flashlight. When you press and hold the Down key in Standby mode, the flashlight stays lit longer. To turn off the flashlight, press the key.

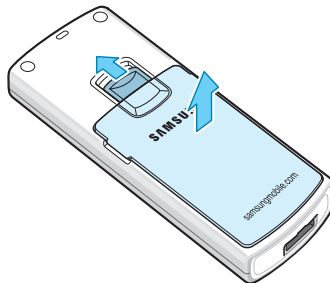
Installing the SIM card

When you subscribe to a cellular network, you are provided with a plug-in SIM card loaded with your subscription details, such as your PIN, any optional services available, and so on.

Important! The plug-in SIM card and its contacts can be easily damaged by scratches or bending, so be careful when handling, inserting, or removing the card.

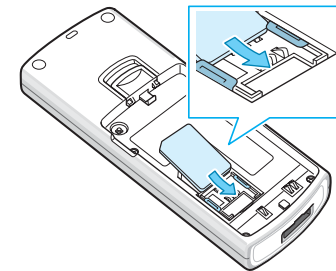
Keep all SIM cards out of the reach of small children.

1. If necessary, switch off the phone by holding down the  key until the power-off image displays.
2. Remove the battery. To do so:
 - ⌋ Slide the battery lock toward the top of the phone and hold it in that position.
 - ⌋ Lift the battery away, as shown.

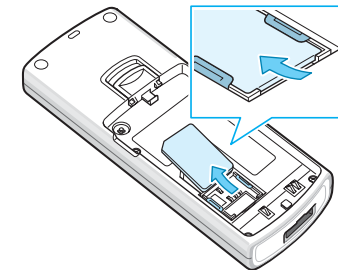


3. Slide the SIM card into the SIM card socket, as shown, so that the card locks into position.

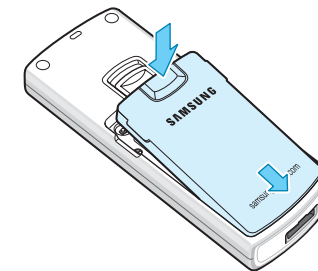
Make sure the metal contacts of the card face into the phone.



Note: When you need to remove the SIM card, slide it upwards, as shown, and take it out of the socket.



4. Replace the battery so that the tabs on the end align with the slots at the bottom of the phone.



5. Press the battery down until it clicks into place. Make sure that the battery is properly installed before switching on the power.

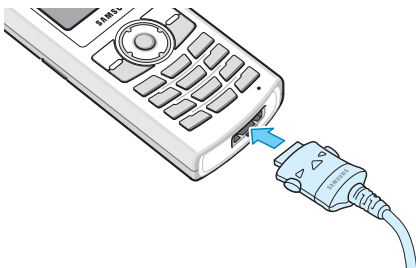
Charging the battery

Your phone is powered by a rechargeable Li-ion battery. A travel adapter comes with your phone for charging the battery. Use only approved batteries and adapters. Ask your local Samsung dealer for further details.

The travel adapter allows you to use the phone while the battery is charging, but this causes the phone to charge more slowly.

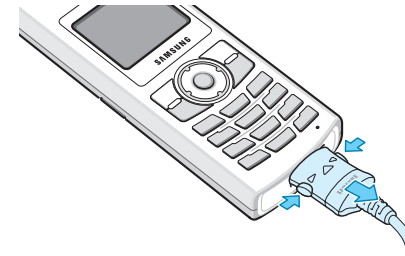
Note: You must fully charge the battery before using your phone for the first time. A discharged battery recharges fully in approximately 200 minutes.

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



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

3. When charging is finished, unplug the adapter from the power outlet and disconnect it from the phone by pressing the buttons on both sides of the connector and pulling the connector out.



Note: You must unplug the adapter before removing the battery from the phone during charging; otherwise, the phone could be damaged.

Low battery indicator

When the battery is weak and only a few minutes of talk time remain, a warning tone sounds and a message repeats at regular intervals on the display. When this happens, your phone turns off the backlight to conserve the remaining battery power.

When the battery level becomes too low, the phone automatically turns off.

Switching on or off the phone

1. Press and hold the  key until the phone switches on.
2. If the phone asks you to enter a password, enter a password and press the **OK** soft key. The password is preset to “00000000” at the factory. For further details, see page 128.
3. If the phone asks for a PIN, enter the PIN and press the **OK** soft key. For further details, see page 129.

The phone searches for your network and, after finding it, the idle screen appears on the display. Now, you can make or receive calls.

Note: The display language is preset to English at the factory. To change the language, use the **Language** menu (**Menu 5.4**). For further details, see page 88.

4. When you wish to switch off the phone, press and hold the  key until the power-off image displays.

Call functions

Making a call

When the idle screen displays, enter the area code and phone number, then press the  key.

Note: When you activate the **Auto redial** option in the **Extra settings** menu (**Menu 5.6**), the phone will automatically redial up to ten times when the person does not answer the call or is already on the phone. See page 92 for further details.

Making an international call

1. Press and hold the **0** key. The **+** character appears.
2. Enter the country code, area code, and phone number and press the  key.

Correcting the number

To clear	Press the
the last digit displayed	C key.
any other digit in the number	Left or Right key until the cursor is immediately to the right of the digit to be cleared and press the C key. You can also insert a missing digit.
the whole display	C key and hold it for more than one second.

Ending a call

When you want to end your call, briefly press the  key.

Redialling the last number

The phone stores the numbers of the calls you've dialled, received or missed, if the call recipient or caller is identified. See "Call records" on page 77 for further details.

To recall any of these numbers:

1. If you have typed characters on the display, press the  key to return to Standby mode.
2. Press the  key to display a list of the most recent numbers used, in the order you dialled or received them.
3. Use the Up or Down key to scroll through the numbers until the number you want highlights.

4. To	Press the
dial the number	 key.
edit the number	Options soft key and select Edit . Change the number, referring to "Correcting the number" on page 21.
delete the number	Options soft key and select Delete .
delete all of the numbers on the Call log list	Options soft key and select Delete all . For details, see page 79.

Making a call from Phonebook

You can store phone numbers that you use regularly on the SIM card or in the phone's memory. These entries are collectively called Phonebook.

Once you have stored a number in Phonebook, you can dial it by pressing a few keys. You can also assign your most frequently-used numbers to number keys using the Speed dial feature.

For further details about the Phonebook feature, see page 29.

Answering a call

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

The caller's phone number or name, if stored in Phonebook, displays.

1. Press the  key or the **Accept** soft key to answer the incoming call.

When the **Anykey answer** option in the **Extra settings** menu (**Menu 5.6**) is activated, you can press any key to answer a call except for the  key, **C** key, and the **Reject** soft key. See page 92.

Note: To reject the call, press the **Reject** soft key or  key.

2. End the call by pressing the  key.

Note: You can answer a call while using Phonebook or menu features. After ending the call, the display returns to the function screen you were using.

Viewing missed calls

When you are unable to answer a call for any reason, you can find out who called you so that you can call the person back.

The number of calls you've missed displays on the idle screen immediately after a call is missed.

To view a missed call immediately:

1. Press the **View** soft key.

The number for the most recent missed call displays, if available.

2. To	Press the
scroll through the missed calls	Up or Down key.
call the number displayed	 key.
edit or delete a missed call number	Select soft key. See below.

Editing a missed call number

Note: When the number for the missed call is not available, the **Edit** option does not display.

1. Press the **Options** soft key.

Press the Up or Down key to highlight the **Edit** option.

2. Press the **Select** soft key.
3. Change the number.

4. To	Press the
call the number	 key.
store the number	Save soft key and enter a name and location. For further details, see page 29.

Deleting a missed call

1. Press the **Options** soft key.
2. If necessary, press the Up or Down 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 (**Menu 3.1**). For further details, see page 77.

Quickly switching to Silent mode

Silent mode is convenient when you wish to stop the phone from making noise, in a theatre for example.

In Standby mode, press and hold the # key until the “Silent mode” message and the Vibration icon (🔊) display.

In Standby mode, instead of sounds, your phone will vibrate, flash its light, or do nothing, depending on the function and the situation.

To exit and reactivate the previous sound settings, press and hold the # key again until “Exit silent mode” appears. The Vibration icon (🔊) no longer displays.

Note: When you turn the phone off, Silent mode is automatically deactivated.

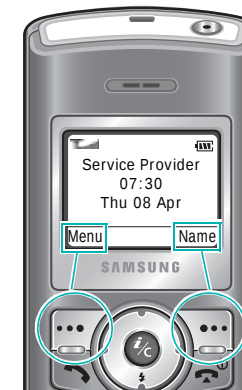
Selecting functions and options

Your phone offers a set of functions that allow you to customise it. These functions are arranged in menus and sub-menus, accessed using the two soft keys, [Menu] and [Name]. Each menu and sub-menu allows you to view and alter the settings of a particular function.

Using the soft keys

The roles of the soft keys vary depending on the function you are currently using; the labels on the bottom line of the display just above each key indicate their current role.

Example:



Press the left soft key to access Menu mode.

Press the right soft key to access the Phonebook feature.

Selecting options

To view the various functions and options available and to select the one you want:

1. Press the appropriate soft key.

2. To	Press the
select the: • function displayed • option highlighted	Select soft key.
view the next function or highlight the next option on a list	Down key.
move back to the previous function or option on a list	Up key.
move back up one level in the menu structure	 soft key.
exit the menu structure without changing the settings	 key.

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

Note: When you access a list of options, your phone highlights the currently active 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.

Phonebook

You can store phone numbers and their corresponding names in both your SIM card and your phone's memory. They are physically separate but are used as a single entity, called Phonebook.

Note: Depending on your particular SIM card, the maximum number of phone numbers the SIM card can store may differ.

Storing a number with a name

There are two ways to store a number:

- Using the **Save** soft key in Standby mode
- Using the **New entry** option in the Phonebook menu

Storing a number in Idle mode

1. Enter the number you want to store.

Note: If you make a mistake while entering a number, correct it using the **C** key. For further details, see page 21.

2. When you are sure that it is correct, press the **Save** soft key.
3. Select an icon to identify the category in which the number is to be stored. Three categories are available:
 -  : Mobile phone number
 -  : Office number
 -  : Home number

To select the category, press the Left or Right key and press the **Select** soft key.

4. Select a memory location, either **SIM** or **Phone**, by pressing the Up or Down key and press the **Select** soft key.

Note: When you change phones, any numbers stored in your SIM card memory are automatically available with the new phone, whereas any numbers stored in the phone's memory will need to be reentered.

5. Enter a name and press the **OK** soft key.

For further details about how to enter characters, see page 42.

6. If you do not want to save the number and name in the suggested location, press the **C** key to clear the location number and enter another location by pressing the numeric keys.

7. Press the **OK** soft key to store the name and number.

After storing, the phone displays the Phonebook entry or name you just created.

8. To	Press the
use the entry options	Options soft key. For further details, see page 32.
return to the idle screen	 key.

Storing a number using the Phonebook menu

1. When the idle screen displays, press the **Name** soft key.
2. Scroll to **New entry** by pressing the Up or Down key and press the **Select** soft key.

3. Select an icon to identify the category of the number to be stored by pressing the Left or Right key, and press the **Select** soft key.

Note: The E-mail icon () is available in this step. It allows you to save an e-mail address instead of a phone number.

4. Select a memory location, either **SIM** or **Phone**, by pressing the Up or Down key and press the **Select** soft key.

Note: When you are saving an e-mail address, SIM is not available.

5. Enter a name and press the **OK** soft key.

For further details about how to enter characters, see page 42.

6. Enter the number or address you want to store and press the **Save** soft key.
7. Continue the procedure from step 6 on the previous page to store the number.

Using Phonebook entry options

While accessing any Phonebook entry, press the **Options** soft key to access the options for the entry.

The following options are available:

Edit: allows you to edit the name and/or number.

Select **One entry** to change the name and/or phone number for the selected entry. If you change the name, the number is saved separately with the new name.

Select **All entry** to change only the name of the entry.

Copy: allows you to copy the number to another location. You can select the memory location, either SIM or Phone, and the location number.

Delete: allows you to delete the selected number from Phonebook. You are asked to confirm that you wish to delete the name and number by pressing the **Yes** soft key.

Paste: allows you to paste the number into the normal dialling mode. Use this option to dial a number similar to one in Phonebook, such as a different extension in the same office.

Use the **C** key to change the number as required; see page 21 for further details. When you are ready to dial, press the  key.

Caller group: allows you to organise your Phonebook entries in caller groups so that the phone alerts you in a specific way when a person from one of your groups calls you. Select one of the 10 groups available.

To remove an entry from a group, select the **No group** option.

For further details about how to change caller group properties, see page 34.

Add entry: allows you to add a new number to the currently selected name.

Dialling a number from Phonebook

Once you have stored phone numbers in Phonebook, you can dial them easily and quickly by using the location numbers that were assigned to them in Phonebook.

Note: If you cannot remember a location number, you must go into the **Search** option by pressing the **Name** soft key to search for the entry by name. For details, see page 36.

To dial a number from the SIM card:

1. In Idle mode, enter the location number for the phone number you want to dial and press the **#** key.
2. You can press the Up or Down key to find other numbers on the list.
3. Press the **Dial** soft key or  key when you have selected the number you want.

To dial a number from the phone's memory:

1. In Idle mode, press and hold the **0** key. A **+** appears.
2. Enter the location number of the phone number you want and press the **#** key.
3. You can press the Up or Down key to find other numbers on the list.
4. Press the **Dial** soft key or  key when you have selected the number you want.

Speed-dialling

Once you have stored phone numbers from your Phonebook list, you can set up to eight speed-dial entries and then dial them easily whenever you want, simply by pressing the associated numeric key.

Setting up speed-dial entries

1. When the idle screen displays, press the **Name** soft key.
2. Scroll to **Speed dial** by pressing the Up or Down key and press the **Select** soft key.
3. Select the key to which you wish to assign the speed-dialling number, from the **2** to **9** keys, and press the **OK** soft key.

Note: Memory location 1 is reserved for your Voice mail server number.

If you have already assigned a number to the key, the **Options** soft key replaces the **OK** soft key. Go to step 6.

4. Select an entry from the Phonebook list and press the **View** soft key.
5. Select a number, if the entry has more than one, by pressing the Up or Down key and press the **Select** soft key.
6. Once you have assigned a number to the key, you can use the following options by pressing the **Options** soft key:
 - **Change:** allows you to assign a different number to the key.

- **Delete**: allows you to clear the setting so that no number is assigned to the key.
- **Delete all**: allows you to clear the settings for all keys so that no numbers are assigned to any of the keys.
- **Number**: allows you to view the number assigned to the key.

7. When you have finished, press the **C** or  key.

Speed-dialling from Phonebook

To speed-dial the numbers assigned to the **2** to **9** keys, press and hold the appropriate key.

Searching for and dialling a number in Phonebook

After storing numbers in Phonebook, you can search for them in two ways; by name and by caller group.

Searching for a number by name

1. When the idle screen displays, press the **Name** soft key.
2. Press the **Select** soft key when **Search** highlights. You are asked to enter a name.
3. Enter the first few letters of the name that you want to find.

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

4. To	Press the
view the highlighted entry	View soft key.
select a different entry	Up or Down key until the entry you want highlights.
look for a name starting with a different letter	key labelled with the letter you want.

5. Once you have found the entry, press the  key to dial the number, or press the **Options** soft key to access the Phonebook entry options; for further details, see page 32.

Searching for a number by caller group

1. When the idle screen displays, press the **Name** soft key.
2. Scroll to **Group search** by pressing the Up or Down key and press the **Select** soft key. You are asked to enter a group name.
3. Enter the first few letters of the group name that you want to find.

The caller groups are listed, starting with the first group matching your input.

4. If necessary, scroll to a group by pressing the Up or Down key and press the **View** soft key.

The Phonebook entries in the caller group are listed.

5. To	Press the
view the highlighted entry	View soft key.
select a different entry	Up or Down key until the entry you want highlights.

6. Once you have found the entry, press the  key to dial the number, or press the **Options** soft key to access the Phonebook entry options; for further details, see page 32.

Editing a caller group

- When the idle screen displays, press the **Menu** soft key.
- Scroll to **Group edit** by pressing the Up or Down key and press the **Select** soft key.
- Scroll through the group list by pressing the Up or Down key.
- When the group you want highlights, press the **Options** soft key.
- Select each option and change the settings, as you want. The following options are available:
 - **Call ringtone**: allows you to set a ring tone to be used when you receive a voice call from a member of that group.
 - **SMS tone**: allows you to set a ring tone to be used when you receive a message from a member of that group.

- **Graphic**: allows you to set a graphic icon to be displayed when you receive a voice call from a member of that group.
- **Group name**: allows you to assign a name to the group. For further details about how to enter characters, see page 42.

6. When you have finished, press the **C** or  key.

Deleting all of the Phonebook entries

You can delete all of the entries in the selected memory or both memories.

- When the idle screen displays, press the **Name** soft key.
- Scroll to **Delete all** by pressing the Up or Down key and press the **Select** soft key.
- To place a check mark by the memory you want to empty, **All**, **SIM**, or **Phone**, press the **Mark** soft key.

You can remove the check mark by pressing the **Unmark** soft key.

- When you have finished marking, press the **Delete** soft key to delete the entries in the selected memory location(s).
- Enter the phone password and press the **OK** soft key.

Note: The password is preset to “00000000” at the factory. To change this password, see page 128.

- When a confirmation message appears, press the **Yes** soft key.

To cancel the deletion, press the **No** soft key.

- When you have finished, press the **C** or  key.

Checking the memory status

You can check how many names and numbers are stored in Phonebook, in both the SIM card and the phone's memories. You can also see the capacity of both memories.

- When the idle screen displays, press the **Name** soft key.
- Select the **Memory status** option by pressing the Up or Down key and press the **Select** soft key.
- Press the Up or Down key to view the number of existing and total entries available in the SIM card and phone's memory.
- When you have finished, press the **C** or  key.

Using the service dialling numbers

You can view the list of Service Dialling Numbers (SDN) assigned by your service provider. These numbers include emergency numbers, directory enquiries, and voice mail numbers.

- When the idle screen displays, press the **Name** soft key.
- Select the **SDN** option by pressing the Up or Down key and press the **Select** soft key.
- Scroll through the numbers by using the Up or Down key.
- To dial the number displayed, press the **Dial** soft key.

Note: This option is available only when your SIM card supports Service Dialling Numbers.



Entering text

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

Your phone has 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; for example, pressing the **5** key can enter J, K, or L. However, T9 mode automatically compares the series of keystrokes you make with an internal linguistic dictionary to determine the most likely word, thus requiring far fewer keystrokes than the traditional Alphabet mode.

- **Alphabet mode**

This mode allows you to enter letters by pressing the key labelled with the letter you want. Press the key once, twice, three, or four times until it displays.

- **Number mode**

This mode allows you to enter numbers.

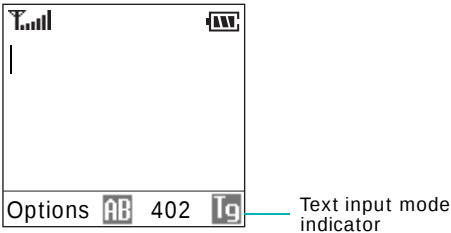
- **Symbol mode**

This mode allows you to enter various symbols and special characters.

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 on the display.

Example: Writing a text message



To select	Press the right soft key until
T9 mode	T9 displays. See page 44.
Alphabet mode	AB displays. See page 46.
Number mode	1 displays. See page 47.
Symbol mode	the symbol list displays. See page 48.

Note: Additional text input mode may be available, depending on your country.

Using T9 mode

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

To enter a word in T9 mode:

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

Example: To enter “Hello” in T9 mode, press the **4**, **3**, **5**, **5**, and **6** keys.

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

2. Enter the whole word before editing or deleting the keystrokes.
3. When the word displays correctly, go to step 4.

If the word doesn’t display correctly, press the **0** key or the Up or Down key repeatedly to display alternative word choices for the keys that you have pressed.

Example: Both “Of” and “Me” use the **6** and **3** keys. The phone displays the most commonly used choice first.

4. Put a space by pressing the **#** key and start entering the next word.

To add a new word into the T9 dictionary:

1. After pressing the keys corresponding to the word you want to add, press the **0** or Down key to display the alternative words.
2. When you press the **0** or Down key at the last alternative word, the display shows **Add** on the bottom line. Press the **Add** soft key.
3. If necessary, clear the word using the **C** key and enter the word you want to add using Alphabet mode. See page 46.
4. Press the **OK** soft key.

The word is added to the T9 dictionary and becomes the first word for the associated keypress series.

Note: This feature may not be available for some languages.

- To enter periods, hyphens, or apostrophes, press the **1** key. T9 mode applies grammar rules to ensure that correct punctuation is used.
- To shift case in T9 mode, use the **✖** key. There are three cases; Initial capital (**Ab**), Capital lock (**AB**), and Lower case (**ab**).
- You can move the cursor by using the Left and Right keys. To delete letters, press the **C** key. Press and hold the **C** key to clear the display.

Using Alphabet mode

Use the **1** to **0** keys to enter your text.

1. Press the keys labelled with the letter you want:

- 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 to the right automatically, and then select the next letter.

Refer to the table below for further details about the available characters:

Key	Characters in the order displayed	
	Upper case	Lower case
1	Space . 1 ! ? & i ÷ §	. @ % _ £ \$ ¥ ¤ §
2	A B C 2 Ä Å Æ Ç Γ	a b c 2 à ä å æ Γ
3	D E F 3 É Δ Φ	d e f 3 è é Φ
4	G H I 4 Θ Ψ	g h i 4 ì Ψ
5	J K L 5 Λ	j k l 5 λ
6	M N O 6 Ñ Ø Ö ö	m n o 6 ñ ø ò ö
7	P Q R S 7 Π Σ Ξ	p q r s 7 β Σ Ξ
8	T U V 8 Ü ü	t u v 8 ù ü
9	W X Y Z 9 Ω	w x y z 9 Ω
0	0 * # , ; ' " =	/ : - + () < >

Note: The characters available in Alphabet mode may be different, depending on your country.

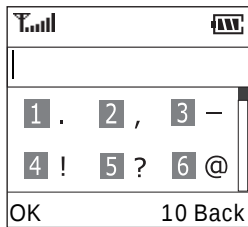
- To insert a space, press the **#** key.
- To shift case in Alphabet mode, use the ***** key. There are three cases; Capital lock (**AB**), Lower case (**ab**), and Initial capital (**Ab**).
- You can move the cursor by using the Left and Right keys. To delete letters, press the **C** key. Press and hold the **C** key to clear the display.

Using Number mode

Number mode enables you to enter numbers into a text message. Press the keys corresponding to the digits you want to enter.

Using Symbol mode

Symbol mode enables you to insert symbols into a text message.



To	Press the
select a symbol	corresponding numeric key.
display more symbols	Up or Down key.
insert the symbol(s) into your message	OK soft key.
clear the symbol(s)	C key.
cancel your input and exit Symbol mode	Back soft key.

Options during a call

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

Putting a call on hold

You can place the current call on hold whenever you want. You can make another call while you have a call in progress if your network supports this service.

To place a call on hold, simply press the **Hold** soft key. You can reactivate the call whenever you want, by pressing the **Unhold** soft key.

To make a call while you have a call in progress:

1. Enter the phone number that you wish to dial or look it up in Phonebook.

For details about searching for a number in Phonebook, see page 36.

2. Press the  key to dial the second call.

The first call is automatically put on hold.

Or,

1. Put the current call on hold by pressing the **Hold** soft key.
2. Make the second call in the normal way.

When you have an active call and a call on hold, you may switch between the two calls, changing the one on hold to active and placing the other on hold.

To switch between the two calls, simply press the **Swap** soft key.

The current call is placed on hold and the call on hold is reactivated so that you can continue conversing with that person.

When you want to finish, end each call normally by pressing the  key.

Using the menu functions

You can access the main menu functions during a call.

1. Press the **Options** soft key and then press the **OK** soft key when the **Menu** option highlights.
2. Press the Up or Down key to scroll through the menu list.

Note: You cannot use some menus during a call. They are deactivated on this list.

3. When the menu you want highlights, press the **Select** soft key.
4. If the selected menu has sub-options, repeat steps 2 and 3.

For further details about available menu functions, see the list on page 59.

Switching off the microphone (Mute)

You can temporarily switch off your phone's microphone so that the other person on the phone cannot hear you.

Example: You wish to say something to a person in the room, but do not want the person on the phone to hear you.

To switch the microphone off temporarily:

1. Press the **Options** soft key.
2. Press the Down key to highlight the **Mute** option.
3. Press the **OK** soft key.

The Mute icon () displays and the other person can no longer hear you.

To switch the microphone back on:

1. Press the **Options** soft key.
2. If necessary, press the Down key to highlight the **Unmute** option.
3. Press the **OK** soft key.

The other person can hear you again.

Muting or sending key tones

These options allow you to turn the key tones off or on. If the **Mute keys** option is selected, your phone does not transmit the DTMF (Dual Tone Multi-Frequency) tones of the keys, which allows you to press keys without hearing annoying key tones during a call.

Note: To communicate with answering machines or computerised telephone systems, the **Send keys** option must be selected.

Sending a sequence of DTMF tones

You can send the DTMF tones as a group after entering the entire number you need to send.

This option is helpful for entering a password or an account number when you call an automated system, like a banking service.

To send the DTMF tones:

1. While connected to the teleservice system, press the **Options** soft key.
2. Press the Down key to highlight the **Send DTMF** option.
3. Press the **OK** soft key.
4. Enter the number you want to send and press the  key.

The tones are sent.

Searching for a number in Phonebook

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

1. Press the **Options** soft key.
2. Press the Down key to highlight 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 first few letters of the name, the Phonebook entries are listed starting with the first entry matching your input.

5. To view the highlighted entry, press the **View** soft key.

For further details about the Phonebook feature, see page 29.

Using the SMS service

If you receive an SMS (Short Message Service) message during a call, the Message icon (✉) flashes on the display. The **SMS service** option enables you to read the message. You can also write a new text message.

For further details about the SMS service, refer to page 65.

Call waiting

You can answer an incoming call while you have a call in progress, if your network supports this service and you have set the **Call waiting** menu (**Menu 7.3**) to **Activate**; see page 107. You are notified of an incoming call by a call waiting tone.

To answer a call while you have a call in progress:

1. 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 **Swap** soft key.
3. To end the call on hold, press the **Options** soft key and select the **End held call** option.

To end the current call, press the  key.

Making a multi-party call

A multi-party call is a network service that allows up to six people to take part simultaneously in a multi-party or conference call. For further details about subscribing to this service, contact your service provider.

Setting up a multi-party call

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. To join the first participant to the multi-party call, press the **Options** soft key and select the **Join** option. Press the **OK** soft key.
4. To add a new person to the multi-party call, call the new person in the normal way and press the **Options** soft key. Select the **Join** option and press the **OK** soft key.

You can add incoming callers by answering the call, pressing the **Options** soft key, and selecting the **Join** option. Repeat as required.

Having a private conversation with one participant

1. Press the **Options** soft key and select the **Select one** option. Press the **OK** soft key.
The list of call participants appears.
2. Highlight a person from the list by pressing the Up or Down key and press the  key.

Options during a call

3. When the **Private** option highlights, press the **OK** soft key.

Now you can talk privately to that person. The other participants can still converse with each other.

4. To return to the multi-party call, press the **Options** soft key and select the **Join** option. Press the **OK** soft key.

All the multi-party call participants can now hear each other.

Dropping one participant

1. Press the **Options** soft key and select the **Select one** option. Press the **OK** soft key.

The list of call participants appears.

2. Highlight a person from the list by pressing the Up or Down key and press the  key.

3. Press the Down key to select the **Remove** option and press the **OK** soft key.

The call with that participant ends, but you can continue to talk to the others.

4. When you want to end the multi-party call, press the  key.

Using the menus

The phone offers a range of functions that allow you to tailor it to your needs. These functions are arranged in menus and sub-menus.

The menus and sub-menus can be accessed by scrolling using the Navigation keys or by using the shortcuts.

Accessing a menu function by scrolling

1. In Idle mode, press the **Menu** soft key to access Menu mode.
2. Scroll using the Navigation keys to reach a main menu, **Phone settings** for example. Press the **Select** soft key to enter the menu.
3. If the menu contains sub-menus, **Language** for example, you can access them by scrolling using the Up or Down key and pressing the **Select** soft key.

If the menu that you have selected contains further options, repeat this step.

4. To	Press the
scroll through the menus	Up or Down key.
confirm the chosen setting	Select soft key.
return to the previous menu level	C key or  soft key.
exit the menu without changing the settings	 key.

Using shortcuts

The menu items, such as menus, sub-menus and options are numbered and can be accessed quickly by using their shortcut numbers. For the main menus, you can access them by pressing the number keys (**1** to **8**), according to their location.

Simply press the **Menu** soft key and enter the number of the menu you want.

Note: The numbers assigned to each menu are indicated on the list on page 59. They may not match the menu number on the phone, depending on the services supported by your SIM card.

Example: Accessing the **Language** menu.

1. Press the **Menu** soft key.
2. Press the **5** key for **Phone settings**.
3. Press the **4** key for **Language**.

The available languages display.

List of menu functions

The following list shows the menu structure and indicates the number assigned to each option and the page where you can find a description of each feature.

1. SIM toolkit (see page 64)

2. Messages (see page 65)

- 2.1 Inbox
- 2.2 Outbox
- 2.3 Create
- 2.4 Templates
- 2.5 Settings
- 2.6 Delete all
- 2.7 Memory status
- 2.8 Voice mail
- 2.9 Broadcast message

3. Call records (see page 77)

- 3.1 Missed calls
- 3.2 Received calls
- 3.3 Dialed calls
- 3.4 Delete all
- 3.5 Call time
 - 3.5.1 Last call time
 - 3.5.2 Total sent
 - 3.5.3 Total received
 - 3.5.4 Reset timers

4. Sound settings (see page 81)

- 4.1 Ring tone
- 4.2 Ring volume
- 4.3 Alert type
- 4.4 Keypad tone
- 4.5 Keypad volume
- 4.6 Message tone
 - 4.6.1 SMS tone
 - 4.6.2 SMS-CB tone
- 4.7 Power on/off
- 4.8 Alert on call
- 4.9 Extra tones

5. Phone settings (see page 86)

- 5.1 Display settings
 - 5.1.1 Screen savers
 - 5.1.2 Back light
 - 5.1.3 Graphic logo
 - 5.1.4 Contrast
- 5.2 Greeting message
- 5.3 Own number
- 5.4 Language
- 5.5 Security
 - 5.5.1 PIN check
 - 5.5.2 Change PIN
 - 5.5.3 Phone lock
 - 5.5.4 Change password
 - 5.5.5 SIM lock
 - 5.5.6 FDN mode*
 - 5.5.7 Change PIN2*
- 5.6 Extra settings
- 5.7 Short cut
 - 5.7.1 Key up
 - 5.7.2 Key right
 - 5.7.3 Key left
- 5.8 Reset settings

* Shows only if supported by your SIM card.

6. Organiser (see page 94)

- 6.1 Alarm
 - 6.1.1 Once alarm
 - 6.1.2 Daily alarm
 - 6.1.3 Morning call
 - 6.1.4 Remove alarm
 - 6.1.5 Autopower
- 6.2 Calendar
- 6.3 Time & Date
 - 6.3.1 Set time
 - 6.3.2 Set date
 - 6.3.3 World time
 - 6.3.4 Time format
- 6.4 Calculator
- 6.5 To do list
- 6.6 Currency exchange

7. Network services (see page 103)

- 7.1 Call diverting
 - 7.1.1 Divert always
 - 7.1.2 Busy
 - 7.1.3 No reply
 - 7.1.4 Unreachable
 - 7.1.5 Cancel all
- 7.2 Call barring
 - 7.2.1 All outgoing
 - 7.2.2 International
 - 7.2.3 International except to home
 - 7.2.4 All incoming
 - 7.2.5 Incoming while abroad
 - 7.2.6 Cancel all
 - 7.2.7 Change barring password
- 7.3 Call waiting
 - 7.3.1 Voice calls
 - 7.3.2 Data calls
 - 7.3.3 Cancel all
- 7.4 Network selection
 - 7.4.1 Automatic
 - 7.4.2 Manual
- 7.5 Caller ID
 - 7.5.1 Default
 - 7.5.2 Hide number
 - 7.5.3 Send number
- 7.6 Closed user group
 - 7.6.1 Index list
 - 7.6.2 Outside access
 - 7.6.3 Default group
 - 7.6.4 Deactivate*

* Shows only if the Closed user group feature is active.

8. Funbox (see page 112)

- 8.1 WAP browser
 - 8.1.1 Home
 - 8.1.2 Favorite
 - 8.1.3 http://
 - 8.1.4 Settings
 - 8.1.5 Clear cache
 - 8.1.6 Push message
- 8.2 Games
- 8.3 Sounds
- 8.4 Images
- 8.5 Delete all
- 8.6 Memory status

SIM toolkit

This menu is available if you use a SIM card that provides additional services, such as news, weather, sports, entertainment, and location services. Available services may vary, depending on your service provider's plans.

For further details, see your SIM card instructions or contact your service provider.

Messages

Short Message Service (SMS) allows you to send and receive short text messages to and from other GSM mobile phones. In addition, your phone supports the Enhanced Messaging Service (EMS), which enables you to include simple pictures, melodies, and animated images in your messages. To use this feature, you must subscribe to your service provider's message service.

When the Text Message icon () appears, you have received new text messages. If the memory is full, an error message displays and you cannot receive any new messages. Use the **Delete** option in each message box to delete the old ones.

You can also use various message features, such as voice mail and cell broadcast messages.

Inbox *(Menu 2.1)*

This message box is used to store messages that you have received.

When you enter this menu, the list of messages in the box displays with the senders' phone numbers or names, if available in your Phonebook.

1. Select a message from the list and press the **View** soft key to read the message contents.
2. To scroll through the contents, press the Up or Down key.
3. To scroll to the previous or next message, press the * or # key.

While reading a message, you can access the following options by pressing the **Options** soft key:

Delete: allows you to delete the message.

Forward: allows you to forward the message. For further details about how to send a message, see page 68.

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

Call back: allows you to call the sender.

Cut address: allows you to extract the sender's number and URL, e-mail addresses, or phone numbers from the message text.

Move to phone: allows you to move the message from the SIM card to the phone's memory. This option is only available when you select a message stored in the SIM card.

Move to SIM: allows you to move the message from the phone's memory to the SIM card. This option is only available when you select a message stored in the phone's memory.

Select objects: allows you to save media objects, such as sounds or images, from the message into your phone. You can use the objects when writing a message. For details, see page 70.

Outbox *(Menu 2.2)*

This message box is used to store messages that you have already sent or will send.

When you enter this menu, the list of messages in the box displays with the recipients' phone numbers or names, if available in your Phonebook.

1. Select a message from the list and press the **View** soft key to read the message contents.
2. To scroll through the contents, press the Up or Down key.
3. To scroll to the previous or next message, press the * or # key.

While reading a message, you can access the following options by pressing the **Options** soft key:

Delete: allows you to delete the message.

Send: allows you to send/resend the message. For further details, see page 68.

Cut address: allows you to extract the destination number and URL, e-mail addresses or phone numbers from the message text.

Move to phone: allows you to move the message from the SIM card to the phone memory. This option is only available when you select a message stored in the SIM card.

Move to SIM: allows you to move the message from the phone memory to the SIM card. This option is only available when you select a message stored in the phone's memory.

Select objects: allows you to save media objects, such as sounds or images, from the message into your phone. You can use the objects when writing a message. For details, see page 70.

Create (Menu 2.3)

In this menu, you can write and send a text message.

Note: When you add media items to a message, the number of characters you are allowed to enter decreases.

Creating a simple text message

1. Create your message.

Note: For further details about entering characters, see page 42.

2. When you finish entering the message, press the **Options** soft key. The following options are available:

- **Send only:** allows you to send the message. The message is deleted after sending.
- **Save and send:** allows you to save a copy of the message and then send the message. You can read the message in your Outbox.
- **Save only:** allows you to save the message so that it can be sent later. You can read the message in your Outbox.
- For further details about **Text formatting**, **Add content**, **Add templates**, **Add from phonebook**, **Add from bookmarks**, and **Language** options, see page 69.

3. Select **Send only** or **Save and send**, and press the **Select** soft key.

If you want to just save the message, select **Save only**.

4. If you select a save option, select the memory location by pressing the Up or Down key and press the **OK** soft key.
5. Enter a destination number and press the **OK** soft key.

The message is sent.

Note: If the phone fails to send the message, it will ask you if you want to retry. Press the **OK** soft key to confirm. Otherwise, press the **Exit** soft key to return to the Create screen.

Creating a text message using options

1. Create a message.
2. Press the **Options** soft key.
3. Select one of the following options by using the Up and Down keys and pressing the **Select** soft key:

- **Text formatting:** allows you to format the style of the text.

For the **Size** attribute, **Normal**, **Large**, and **Small** sizes are available.

For the **Underline** and **Strikethrough** attributes, select **On** or **Off**.

These attributes can be combined.

- **Add content:** allows you to add a sound, melody, picture, or animated image to the message. Select the category of the object to be added. In each category, you can select from the various factory-set items or an item received from other sources, such as the Internet or other phones.
 - **Add templates:** allows you to apply one of the preset message templates to the text. Select one of five items stored in the **Templates** menu (**Menu 2.4**). For further details, see page 71.
 - **Add from phonebook:** allows you to add a Phonebook entry to your message. Select one from the list.
 - **Add from bookmarks:** allows you to add a web page's address stored in your Bookmarks list. Select one from the list.
 - **Language:** allows you to change the language to be used in T9 input mode. Select the language you want to use.
4. Complete the message, and send or save it by following the procedure from step 2 on page 68.

Templates *(Menu 2.4)*

Using this menu, you can preset a maximum of five messages that you use most frequently.

Select an empty location or the message template you want and press the **Options** soft key.

The following options are available:

Edit: allows you to write a new message template or edit an existing message template.

Note: For further details about how to enter characters, see page 42.

Send message: allows you to retrieve the message template. Once you have completed the message, you can send, save and send, or simply save it. For further details about how to send a message, see page 68.

Delete: allows you to delete the message template. You are asked to confirm the deletion by pressing the **Yes** soft key.

Settings *(Menu 2.5)*

In this menu, you can set up default message information. A setting group is a collection of settings required to send messages. The number of setting groups available depends on the capacity of your SIM card.

Notes:

- The setting options available in this menu may vary, depending on your service provider.
- The last setting you accessed is automatically activated for sending subsequent messages.

Setting x (where **x** is the setting group number): each group has its own sub-menu.

Service centre: allows you to store or change the number of your message centre, which is required when sending messages. You must obtain this number from your service provider.

Default destination: allows you to store a default destination number. The number automatically displays on the Destination screen when you create a message.

Default type: allows you to set the default message type to **Text**, **Fax**, **E-mail**, or **Paging**. The network can convert the messages into the selected format.

Default validity: allows you to set the length of time your text messages are stored in the message centre while attempts are made to deliver them.

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

Common setting: The following options are available:

Reply path: allows the recipient of your message to send you a reply through your message centre, if your network supports this service.

Delivery report: allows you to activate or deactivate the report function. When this function is activated, the network informs you whether or not your message has been delivered.

Bearer selection: allows you to select either **GSM** or **GPRS**, depending on your network.

Character support: allows you to select a character type from **GSM-alphabet**, **Uni-code**, or **Automatic**. If you select **Uni-code** and your recipient's phone does not support it, your recipient may not be able to read your message.

Delete all *(Menu 2.6)*

This menu allows you to delete all of the messages in each message box separately. You can also delete all of your messages at one time.

1. To	Press the
select a message box to clear	Up or Down key. To delete all of your messages, select All messages .
place a check mark	Mark soft key.
remove a check mark	Unmark soft key.

- Press the **Delete** soft key to delete the marked messages.
- When a confirmation message displays, press the **Yes** soft key to confirm.

Memory status *(Menu 2.7)*

You can check the number of messages currently stored and the total number of messages you can store in the SIM, Phone, and CB memories.

If necessary, press the Up or Down key to scroll through the screen.

Voice mail *(Menu 2.8)*

This menu allows you to access your voice mailbox, if your network supports this service.

The following options are available:

Connect to voice server: before using the Voice mail feature, you must enter the voice server number obtained from your service provider. You can then select this option and press the **OK** soft key to listen to your messages.

You can quickly connect to the voice server by pressing and holding the **1** key in Idle mode.

Voice server number: allows you to change the voice mail server number, if necessary.

Note: Voice mail is a network feature. Please contact your service provider for further details.

Broadcast messages *(Menu 2.9)*

This network service allows you to receive text messages on various topics, such as the weather or traffic. Cell Broadcast (CB) messages display as soon as they are received, provided that:

- the phone is in Idle mode.
- the **Receive** option is set to **Enable**.
- the message channel is currently active on the channel list.

Messages

The following options are available:

Read: lets you view received message. The **Volatile** box displays the messages from the network, but loses its contents as soon as the phone is switched off. Scroll through the message by using the Up and Down keys. While reading a message, press the **Save** soft key to store the message in the **Archive** box for later retrieval.

Receive: allows you to enable or disable the reception of broadcast messages.

Channel list: allows you to indicate the channels from which you wish to receive broadcast messages. The following options are available:

Select: use to enable or disable channels on the list by marking or unmarking them, respectively. A check mark displays in front of each selected channel.

Add channel: use to enter the ID and title for a new channel.

Delete: use to remove a channel from the list.

Edit: use to change the ID and title of an existing channel.

Language: allows you to select your preferred language in which to display cell broadcast messages.

Please contact your service provider for further details.

Call records

In this menu, you can view the:

- calls you missed, received, or dialled.
- length of your calls.
- cost of your calls, if the SIM card supports it.

Notes:

- You can access the numbers in the three types of call records by pressing the  key in Idle mode.
- The number of call records the phone can store may vary, depending on your SIM card.

Missed calls *(Menu 3.1)*

This menu lets you view the 20 most recent calls you received, but did not answer.

The number or name, if available, displays together with the time and date the call was received.

By pressing the **Options** soft key, you can access the following options:

- **Edit:** allows you to edit the number, if available, and dial it or saves it in Phonebook.
- **Delete:** deletes the call from the list.

You can also dial the number by pressing the  key.

Received calls *(Menu 3.2)*

This menu lets you view the 20 most recent calls you received.

The number or name, if available, displays together with the time and date the call was received.

By pressing the **Options** soft key, you can access the following options:

- **Edit**: allows you to edit the number, if available, and dial it or save it in Phonebook.
- **Delete**: deletes the call from the list.

You can also dial the number by pressing the  key.

Dialled calls *(Menu 3.3)*

This menu lets you view the 20 most recent calls you dialled.

The number or name, if available, displays together with the time and date the call was made.

By pressing the **Options** soft key, you can access the following options:

- **Edit**: allows you to edit the number and dial it or save it in Phonebook.
- **Delete**: deletes the call from the list.

You can also dial the number by pressing the  key.

Delete all *(Menu 3.4)*

This menu allows you to delete all of the records in each call record separately. You can also delete all of your call records at one time.

1. To	Press the
select a call record to clear	Up or Down key. To delete all of your call records, select All calls .
place a check mark	Mark soft key.
remove a check mark	Unmark soft key.

2. Press the **Delete** soft key to delete the marked records.
3. When a confirmation message displays, press the **Yes** soft key to confirm.

Call time *(Menu 3.5)*

This menu lets you view the timers for calls you made and received.

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

The following timers are available:

Last call time: shows the length of the last call.

Total sent: shows the total length of all calls you made since the timer was last reset.

Total received: shows the total length of all calls you received since the timer was last reset.

Call records

Reset timers: allows you to reset the call timers. You must first enter the phone password and then press the **OK** soft key.

Note: The password is preset to "00000000." To change this password, see page 90.

Call costs *(Menu 3.6)*

This network feature lets you view the cost of calls. This menu may not be available depending on your SIM card.

The following options are available:

Last call cost: shows the cost of the last call you made.

Total cost: shows the total cost of all calls you made since the cost counter was last reset. If the total cost exceeds the maximum cost set in the **Set max cost** option, you can no longer make any calls until you reset the counter.

Max cost: shows the maximum cost set in the **Set max cost** option. See below.

Reset counters: allows you to reset the cost counter. You must first enter your PIN2 (see page 130) and then press the **OK** soft key.

Set max cost: allows you to enter the maximum cost that you authorise for your calls. You must first enter your PIN2 (see page 130) and then press the **OK** soft key.

Price/Unit: allows you to set the cost of one unit; this price per unit is applied when calculating the cost of your calls. You must first enter your PIN2 (see page 130) and then press the **OK** soft key.

Sound settings

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

- ring melody, volume, and type.
- sounds made when you press a key, receive a message, or switch on or off your phone.
- alert tone made every minute during a call, when you make an error, or when your call is connected to the system.

Note: When the phone is in Silent mode (see page 26), you cannot change the sound settings.

Ring tone *(Menu 4.1)*

This menu allows you to select a ring melody.

You can select between many different melodies. If you have downloaded sounds from the Internet or the optional EasyGPRS programme, you can use them in this menu.

Ring volume *(Menu 4.2)*

This menu allows you to adjust the ring volume to one of five levels.

Use the Up and Down keys to increase or decrease the volume. To save the ring volume, press the **OK** soft key.

Alert type *(Menu 4.3)*

This menu allows you to specify how you are to be informed of incoming calls or alarms you set.

The following options are available:

Melody: the phone rings using the selected ring tone or alarm melody.

Vibration: the phone vibrates but does not ring.

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

Keypad tone *(Menu 4.4)*

This menu allows you to select the tone that the phone sounds when you press a key.

To turn the sound off, select **Off**.

Keypad volume *(Menu 4.5)*

This menu allows you to adjust the keypad tone volume to one of five levels.

Use the Up and Down keys to increase or decrease the volume. To save the keypad volume, press the **OK** soft key.

Message tone *(Menu 4.6)*

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

SMS tone *(Menu 4.6.1)*

The following options are available for alerting you to new SMS messages:

Off: the phone does not use an SMS tone.

Vibration: the phone vibrates.

Single beep: the phone beeps once.

SMS tone X: the phone uses one of several SMS tones.

SMS-CB tone *(Menu 4.6.2)*

The following options are available for alerting you to new cell broadcast (CB) messages:

Off: the phone does not use a CB tone.

Vibration: the phone vibrates.

Single beep: the phone beeps once.

SMS-CB tone X: the phone uses one of several CB tones.

Power on/off *(Menu 4.7)*

This menu allows you to select whether or not the phone sounds when it is switched on or off.

To turn the sound off, select **Off**.

Alert on call *(Menu 4.8)*

This menu allows you to select whether or not the phone informs you when you receive a new message or when the time for an alarm comes during a call.

The following options are available:

Off: the phone doesn't actively alert you to incoming messages or alarms. It only displays the corresponding notification.

On: the phone alerts you with a beep and displays the corresponding notification.

Extra tones *(Menu 4.9)*

You can customise additional tones for the phone.

To turn a given tone	Press the
on	On soft key. A check mark displays in front of the option.
off	Off soft key. The check mark no longer displays.

The following options are available:

Error tone: sets whether or not the phone informs you when you make a mistake.

Minute minder: sets whether or not the phone beeps every minute during an outgoing call to keep you informed of the length of your call.

Connect tone: sets whether or not your phone beeps when your call is connected to the system.

Phone settings

Many different features of your phone can be customised to suit your preferences. All of these features are accessed in the **Phone settings** menu.

Display settings *(Menu 5.1)*

In this menu, you can change various settings for the display or backlight.

Screen savers *(Menu 5.1.1)*

This menu allows you to change the background image to be displayed in Idle mode.

To change the background image:

1. Scroll through the list by pressing the Up or Down key.

You have various preset images available. You can also select a blank background or any images downloaded from the Internet and the EasyGPRS programme, or received in messages.

2. Press the **Select** soft key when the image you want highlights.
3. When the image displays, press the **Select** soft key to display it on the idle screen.

Back light *(Menu 5.1.2)*

You can select the length of time the backlight is on. The backlight turns on when you press a key, or when you receive a call, or message, and remains on for the specified length of time.

Graphic logo *(Menu 5.1.3)*

This menu allows you to display your service provider's logo instead of its name.

Off: the service provider's name displays in Idle mode.

On: the service provider's logo stored in your phone displays in Idle mode; if no logo has been stored, the service provider's name displays.

Contrast *(Menu 5.1.4)*

This option allows you to see the LCD screen better in different lighting conditions. Scroll through the contrast settings by pressing the Up or Down key to make the screen darker or brighter.

Greeting message *(Menu 5.2)*

This menu allows you to set a greeting to be displayed briefly when the phone is switched on.

For further details about how to enter characters, see page 42.

Own number *(Menu 5.3)*

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

You can:

- assign a name to each of the own phone numbers registered on your SIM card.
- edit the names and numbers.

Any changes made here do not in any way affect the actual subscriber numbers on your SIM card.

Language *(Menu 5.4)*

You can select a display language. When the language option is set to **Automatic**, the language is automatically selected according to the language of the SIM card used.

Note: Depending on your country, service provider, or software version of the phone, the **Automatic** option may not display.

Security *(Menu 5.5)*

The Security feature enables you to restrict the use of your phone by others and to restrict the types of calls.

Various codes and passwords are used to protect the features of your phone. They are described in the following sections. Also see pages 128-131.

PIN check *(Menu 5.5.1)*

When the PIN check feature is enabled, you must enter your PIN each time you switch on the phone. Consequently, any person who does not have your PIN cannot use your phone without your approval.

Note: Before disabling the PIN check feature, you must enter your PIN.

The following options are available:

Disable: the phone connects directly to the network when you switch it on.

Enable: you must enter the PIN each time the phone is switched on.

Change PIN *(Menu 5.5.2)*

This feature allows you to change your current PIN to a new one, provided that the PIN check feature is enabled. You must enter the current PIN before you can specify a new one.

Once you have entered a new PIN, you are asked to confirm it by entering it again.

Phone lock *(Menu 5.5.3)*

When the Phone lock feature is enabled, the phone is locked and you must enter a 4 to 8-digit phone password each time the phone is switched on.

The password is preset to "00000000" at the factory. To change the phone password, see the **Change password** menu below.

Once the correct password has been entered, you can use the phone until you switch it off.

The following options are available:

Disable: you are not asked to enter the phone password when you switch on the phone.

Enable: you are required to enter the phone password when you switch on the phone.

Change password *(Menu 5.5.4)*

The Change password feature allows you to change your current phone password to a new one. You must enter the current password before you can specify a new one.

The password is preset to “00000000” at the factory. Once you have entered a new password, you are asked to confirm it by entering it again.

SIM lock *(Menu 5.5.5)*

When the SIM lock feature is enabled, your phone only works with the current SIM. You must enter the SIM lock code to use a different SIM card.

Once you have entered the lock code, you are asked to confirm it by entering it again.

To unlock the SIM, you must enter the SIM lock code.

FDN mode *(Menu 5.5.6)*

FDN (Fixed Dial Number) mode, if supported by your SIM card, allows you to restrict your outgoing calls to a limited set of phone numbers.

The following options are available:

Disable: you can call any number.

Enable: you can only call phone numbers stored in Phonebook. You must enter your PIN2.

Note: Not all SIM cards have a PIN2. If your SIM card does not, this menu does not display.

Change PIN2 *(Menu 5.5.7)*

The Change PIN2 feature allows you to change your current PIN2 to a new one. You must enter the current PIN2 before you can specify a new one.

Once you have entered a new PIN2, you are asked to confirm it by entering it again.

Note: Not all SIM cards have a PIN2. If your SIM card does not, this menu does not display.

Extra settings *(Menu 5.6)*

You can turn the automatic redialling or answering features on or off.

The following options are available:

Auto redial: when this option is enabled, the phone makes up to ten attempts to redial a phone number after an unsuccessful call.

Note: The interval between attempts varies.

Anykey answer: when this option is enabled, you can answer an incoming call by pressing any key, except the  key or the **Reject** soft key. To reject the call, press the  key or the **Reject** soft key.

When this option is unchecked, you must press the  key or **Accept** soft key to answer a call.

Auto key lock: this option allows you to lock the keypad automatically after predefined time. Select **Off** to unlock the phone.

Short cut *(Menu 5.7)*

The Up, Left, and Right keys can be used as shortcut keys. In Idle mode, they allow you to access specific menus directly.

In this menu, you can change the shortcuts assigned to these keys.

To assign a shortcut to a key:

1. Select the key to be used as a shortcut key by pressing the Up or Down key and press the **Select** soft key.
2. Select the menu to be assigned to the key by pressing the Up or Down key.

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

3. Press the **Select** soft key to save the selection.

Reset settings *(Menu 5.8)*

You can easily reset your phone to its default settings. To reset your phone:

1. Select the **Reset settings** menu.
2. Enter the 4 to 8-digit phone password and press the **OK** soft key.

Note: The password is preset to "00000000." To change this password, see page 90.

The Organiser feature enables you to:

- set an alarm so that the phone rings at a specific time, for example, to remind you of an appointment.
- view the calendar and organise your schedule.
- set the current time and date.
- use the phone as a calculator for basic mathematical equations or currency exchange operations.
- define a list of things to do.

Alarm *(Menu 6.1)*

This feature allows you to:

- set the alarm to ring at a specific time.
- set the phone to switch on automatically and ring the alarm even if the phone is switched off.

The following 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.

Morning call: the alarm rings to wake you up in the morning.

To set an alarm:

1. Choose the type of alarm to be set and press the **Select** soft key.
2. Enter the time for the alarm to sound.

Note: Your phone is preset to a 12-hour format. To change the format, see page 99.

If you want to use the alarm options, press the **Options** soft key. The following options are available:

- **Remove alarm:** deactivates the current alarm.
- **Alarm sound set:** allows you to select the alarm melody.

3. Press the **OK** soft key.
4. If applicable, select **AM** or **PM** and press the **Select** soft key.
5. If you select **Morning call** in step 1, select the repeat option, **Monday to friday** or **Monday to saturday**, and press the **Select** soft key.

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

Remove alarm: deactivates all alarm settings.

Autopower: when this option is set to **Enable**, the alarm rings at the specified time, even if the phone is switched off.

If the menu option is set to **Disable** and the phone is switched off at the specified time, the alarm does not ring.

Calendar *(Menu 6.2)*

With the Calendar feature, you can:

- consult the calendar and check your memos.
- write memos to keep track of your schedule.
- set an alarm to act as a reminder.

Consulting the calendar

When you select the **Calendar** menu, the calendar displays with today's date highlighted. The following options are available when you press the **Options** soft key:

Search all: displays all of the memos, starting with the oldest, regardless of the day. To scroll through the memos, press the Left or Right key.

Delete all: allows you to delete all of the memos. You are asked to confirm your action.

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

Exit: exits the Calendar feature and returns to Idle mode.

Writing a memo

You can make up to 30 memos for one day.

To write or edit a memo on a specific date:

1. Select a date on the calendar by using the Navigation keys.
2. Press the **Select** soft key.

An empty memo screen displays allowing you to enter your memo.

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

Note: For further details about how to enter characters, see page 42.

You are asked if you wish to set an alarm.

4. If you want an alarm to ring on the chosen day, press the **Yes** soft key.

Otherwise, press the **No** soft key. The memo is saved.

5. If you pressed the **Yes** soft key, enter the time for the alarm and press the **OK** soft key.

Note: Your phone is preset to a 12-hour format. To change the format, see page 99.

You can also select the melody for the alarm by pressing the **Melody** soft key.

6. If applicable, select **AM** or **PM** and press the **Select** soft key.

A check mark appears to indicate that a memo exists for that date.

Viewing a memo

When you select a day on which more than one memo exists, the latest memo for the day displays.

In that case, press the Left or Right key to scroll to the previous or next memo.

You can use the following options by pressing the **Options** soft key:

New: allows you to write a new memo.

Edit: allows you to change the memo text.

Alarm: allows you to set an alarm to ring at a specified time to remind you of the memo. If you have already set an alarm for that memo, you can change or delete the alarm.

Delete: 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 of the memo.

Time & Date (Menu 6.3)

This menu allows you to change the current time and date displayed. You can also find out what time it is in another part of the world.

The following options are available:

Set time: allows you to enter the current time. You can select the time format in the **Time format** menu (**Menu 6.3.4**). See the following page.

Note: Before setting the time, you must specify your time zone in the **World time** menu (**Menu 6.3.3**).

Set date: allows you to enter the day, month, and year.

World time: allows you to find out what time it is in another part of the world, using the Left and Right keys.

The screen shows the:

- city name.
- current time and date.
- time difference between the selected city and your city if you have set your local time; see below for further details.

To select your time zone:

1. Select the city corresponding to your time zone by pressing the Left or Right key one or more times.

The local time and date display.

2. Press the **Set** soft key.

Time format: allows you to change the time format to **12 hours** or **24 hours**.

Calculator (Menu 6.4)

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

1. Enter the first number using the numeric keys.

Notes:

- To move the cursor to the left or right, press the **←** or **→** key.
- To include a decimal point or a bracket, press the left soft key until the symbol you want displays.

2. Enter the operation for your calculation by pressing the right soft key until the symbol you want displays.
3. Enter the second number.
4. To view the result, press the **↵** key.
5. Repeat steps 1 to 4 as many times as required.

To do list *(Menu 6.5)*

This feature allows you to:

- enter a list of tasks to be done.
- assign a priority and a deadline to each task.
- sort the tasks by priority and status.

Creating the To do list

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

2. Enter the first task.

Note: For further details about how to enter characters, see page 42.

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

4. Select a priority level of high, normal, or low priority using the Up or Down key and press the **Select** soft key.

5. Enter your deadline and press the **OK** soft key.

If you don't want to set a deadline, press the **Skip** soft key.

Editing the To do list

When you select the **To do list** menu, the current contents display with the status mark, if the task has been done, and priority;  for High,  for Normal, and  for Low.

Scroll to a task from the list and press the **View** soft key to view the details for the task. You can scroll through the tasks using the Up and Down keys, if necessary.

To change the status of a specific task, press the **✱** key to mark the task as completed as of the current time and date.

You can use the following options by pressing the **Options** soft key:

New: allows you to create a new task.

Mark: allows you to change the status of a task. Select the appropriate status (**Done** or **Undo**).

Edit: allows you to edit a task. You can change the text, priority, and/or deadline for the task.

Sort: allows you to sort the existing tasks by priority or status. Select the sort criterion (**High**, **Low**, **Done**, or **Undo**).

Copy: allows you to copy a task.

Copy to calendar: allows you to copy a task to the calendar as a memo. You can also change the text and deadline for the task and/or set the alarm.

Delete: deletes a task.

Delete all: allows you to delete all tasks.

Exit: exits the **To do list** menu.

Currency exchange (Menu 6.6)

Using this menu, you can figure out currency conversions.

1. Enter the current exchange rate of your source currency and press the **OK** soft key.

You can insert a decimal point by pressing the **#** key.

2. Enter the amount to convert and press the **OK** soft key.

The amount you entered and its equivalent value display.

Press the **Exit** soft key to exit the currency converter.

Network services

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

Call diverting (Menu 7.1)

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

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

To set your call diverting options:

1. Select a call diverting option by pressing the Up or Down key, and then press the **Select** soft key.

The following options are available:

- **Divert always:** all calls are diverted.
- **Busy:** calls are diverted when you are already on another call.
- **No reply:** calls are diverted when you do not answer the phone.
- **Unreachable:** calls are diverted when you are not in an area covered by your service provider or when your phone is switched off.
- **Cancel all:** all call diverting options are cancelled.

2. Select the type of calls, voice or data, by pressing the Up or Down key, and then press the **Select** soft key.

The current status displays. If the option has already been set, the number to which the calls are diverted displays.

3. If you selected **No reply** in step 1, select the length of time the network waits before diverting a call and press the **Select** soft key.

4. To	Press the
activate call diverting	Activate soft key. Go to step 4.
change the number to be called	Change soft key. Go to step 4.
deactivate call diverting	Remove soft key.

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

To enter an international code, press the **0** key until the **+** sign displays.

The phone sends your settings to the network and the network's acknowledgement displays.

Call barring (Menu 7.2)

The call barring network service allows you to restrict your calls.

To set your call barring options:

1. Select a call barring option by pressing the Up or Down key, and then press the **Select** soft key.

The following options are available:

- **All outgoing**: calls cannot be made.
- **International**: international calls cannot be made.
- **International except to home**: when abroad, calls can be made only to numbers within the current country and to your home country, which is the country where your home network provider is located.
- **All incoming**: calls cannot be received.
- **Incoming while abroad**: calls cannot be received when you are using your phone outside of your home service area.
- **Cancel all**: all call barring settings are deactivated; calls can be made and received normally.
- **Change barring password**: you can set and change the call barring password obtained from your service provider using this option.

2. Select the type of calls, voice or data, by pressing the Up or Down key, and then press the **Select** soft key.

3. Press the **Activate** soft key to confirm your settings.

4. Enter your call barring password supplied by your service provider.

The phone sends your settings to the network and the network's acknowledgement displays.

To deactivate specific call barring settings:

1. Select the call barring option to be deactivated.
2. Select the type of calls to which this option applies.
3. Press the **Deactivate** soft key.
4. Enter your call barring password supplied by your service provider.

The phone sends your settings to the network and the network's acknowledgement displays.

Call waiting *(Menu 7.3)*

This network service informs you when someone is trying to reach you during another call.

You can specify individual call waiting options for voice calls and/or data calls:

To set your call waiting options:

1. Select the type of calls, voice or data, to which you want to apply the call waiting option by pressing the Up or Down key, and then press the **Select** soft key.

The screen informs you whether call waiting is activated or deactivated.

2. You can activate or deactivate the Call waiting feature as necessary by using the **Activate** or **Deactivate** soft key respectively.

To return to the previous screen, press the **Exit** soft key.

You can also deactivate all call waiting settings by selecting the **Cancel all** option.

Network selection *(Menu 7.4)*

The Network selection feature enables you to automatically or manually select the network used when roaming outside of your home area.

Note: You can select a network other than your home network only if there is a valid roaming agreement between the two.

To automatically or manually select the network to be used when roaming:

1. When **Network selection** displays, press the **Select** soft key.
2. Press the Up or Down key until the appropriate option highlights and then press the **OK** soft key.

If you select **Automatic**, you are connected to the first available network when roaming.

If you select **Manual**, go to step 3.

3. Press the Up or Down key until the network you want highlights and then press the **OK** soft key. The phone will scan for that network and you will be connected.

Caller ID *(Menu 7.5)*

You can prevent your phone number from being displayed on the phone of the person being called.

Note: Some networks do not allow the user to change this setting.

The following options are available:

Default: the default setting provided by the network is used.

Hide number: your number does not display on the other person's phone.

Send number: your number is sent each time you make a call.

Closed user group *(Menu 7.6)*

This network service allows incoming and outgoing calls to be restricted to a selected user group. You can create up to ten user groups.

For details about how to create and use a closed user group, contact your service provider.

Example: A company lends SIM cards to its employees and wants to restrict outgoing calls to members of the same team.

Activating a closed user group

If you select the **Closed user group** menu, you can enter the CUG function. You can now access the following options after pressing the **Select** soft key:

Index list: lets you list, add, or delete CUG index numbers.

If there is no CUG index stored, you are prompted to add a new index when you select this option. Once you have added a CUG index, the list of current CUG indexes appears.

Add a new CUG index as advised by your service provider, or delete a group.

To	Press the
scroll through existing CUG indexes	Up or Down key.
add a new CUG index	Options soft key, select the Add option and enter the index.
delete a CUG index	Options soft key and select the Delete option.
activate a CUG index	Options soft key and select the Activate option.

Outside access: lets you enable or disable calls to numbers other than those in the Closed user group. This feature depends on the nature of your CUG subscription. Please check with your service provider.

Default group: you may set a default CUG with your service provider. If you have done so, you can enable the **Default group** option on your phone. When making a call, you are given the option of using your default CUG, instead of selecting one from the list.

Deactivate: deactivates the CUG function. This menu appears only when the default group is enabled or a CUG index is selected.

The **Funbox** menu contains several fun options.

WAP browser (Menu 8.1)

Your phone is equipped with a WAP (Wireless Application Protocol) browser to allow you to access and navigate the Wireless Web using your phone.

Home (Menu 8.1.1)

Selecting this menu connects the phone to the network and loads the homepage of the Wireless Web service provider. You can also press the **Select** soft key to launch the browser.

The contents of the WAP Browser startup homepage depends on your Wireless Web service provider. To scroll through the screen, use the Up or Down keys.

Note: To go to the startup homepage from any other screen in the WAP browser, use the **Home** option. For further details about the WAP browser menus, see page 114.

Exiting the WAP browser

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

Navigating the WAP browser

To	Press the
scroll through the browser items	Up or Down key.
select a browser item	Select soft key. You can also press the Options soft key and select the Select option.
select a numbered item	corresponding numeric key.
return to the previous page	C key or Back soft key.
access the favourite list	Menu soft key and select the Bookmarks option. See page 116.
return to the startup homepage	Menu soft key and select the Home option. For further details about this option, see page 114.

Entering text in the WAP browser

When you are prompted to enter text, the currently active text input mode is indicated on the screen.

To change the text input mode, press the right soft key one or more times.

The following modes are available:

Upper-case character mode (A): allows you to enter upper-case English characters.

Lower-case character mode (a): allows you to enter lower-case English characters.

T9 mode (T9): allows you to enter English characters by pressing one key per letter. In this mode, you can use only the **0** key to display alternative words. To change case, press the *** key**.

Number mode (1): allows you to enter numbers.

Selecting and using browser menu options

Various menu options are available when you are using the WAP browser to navigate the Wireless Web.

To access a menu option:

1. Press the **Menu** soft key and select the **Menu** option.
2. Highlight a menu by pressing the Up or Down key.
3. Select an option by pressing the **Select** soft key.
4. If necessary, select a secondary option using the Up or Down key, and press the **Select** soft key to confirm.

Note: The menus may vary, depending on your version of the WAP browser.

The following options are available:

Bookmarks: shows the bookmarks list. You can bookmark the current web page or access previously bookmarked pages.

Reload: reloads the current page.

Home: takes you back at any time to the homepage of the Wireless Web service provider.

Go to URL: allows you to manually enter the URL address of a Web page. After entering an address, press the **OK** soft key to go there directly.

Show URL: displays the URL address of the Web page to which you are currently connected. It also enables you to set the current site as the startup homepage.

To	Press the
set the current page as your startup homepage	Options soft key and select the Save to home option.
set a bookmark for the current page	Option soft key and select the Save to bookmark option.
cancel your setting	C key or Back soft key.

Clear cache: deletes the information stored in the cache. These cache stores the most recently accessed Web pages.

Inbox: allows you to read messages received from a web server.

Show image: shows the image on the current web page.

Favorite (Menu 8.1.2)

This menu allows you to store up to 10 URL addresses. You can access this menu directly by pressing and holding the **#** key while using the WAP browser.

To store a URL address:

1. Select an empty location and press the **Select** soft key.
2. Enter the address and press the **Enter** soft key.

For further details about how to enter characters, see page 42.

3. Enter a name for the item and press the **Enter** soft key.

After saving an item, you can use the following options by pressing the **Select** soft key:

Go to URL: quickly takes you to the site.

Edit: allows you to edit the address.

Delete: deletes the address.

http:// (Menu 8.1.3)

This menu allows you to manually enter the URL address of a Web site that you wish to access.

For further details about how to enter characters, see page 42.

Settings (Menu 8.1.4)

This menu allows you to set up five proxy servers for the WAP browser. Contact your service provider for details about your WAP profile options.

For each server, the following options are available:

Profile name: enter a name that you wish to assign to the HTTP server.

Homepage URL: set the address of your startup homepage. When the default homepage displays, you can delete it using the **C** key and enter your own choice.

Security: select a data transmission mode. Choose **Secure** to protect your data against unauthorised access; otherwise, select **Non-secure**.

Bearer: select a bearer to be used for each type of network address accessed; **GPRS** or **Data**.

The remaining options depend on the Bearer setting.

When the bearer is set to **GPRS**:

IP address: enter the WAP gateway address required to connect to the Internet.

User name: enter the User ID required to connect to the GPRS network.

Password: enter the password required to connect to the GPRS network.

APN: enter the access point name used for the address of the GPRS network gateway.

When the bearer is set to **Data**:

IP address: enter the WAP gateway address required to connect to the Internet.

Login name: enter the PPP server login ID.

Password: enter the PPP server password.

Dial-up number: enter the PPP server phone number.

Data call type: select a data call type; **Analogue** or **ISDN**.

Note: The WAP browser settings may vary, depending on the service provider. Contact your service provider for further details.

Clear cache *(Menu 8.1.5)*

You can clear the information stored in the cache, the phone's temporary memory in which stores the most recently accessed Web pages are stored.

Press the **Yes** soft key to confirm the deletion. Otherwise, press the **No** soft key.

Push message *(Menu 8.1.6)*

In this menu, you can receive and access web messages from the server.

The following options are available:

Inbox: allows you to read the messages received from the web server.

Receive: allows you to set whether or not your phone receives web messages. Select **Always** to receive web messages or **Never** to reject web messages.

Delete all: allows you to delete all of the web messages.

Games *(Menu 8.2)*

You can download MIDlets (Java applications that run on mobile phones) from various sources using the WAP browser, and store them in your phone.

When you access the **Games** menu, the list of the default games appears. Once you have downloaded games, they are added to the list.

Note: Java services may not be available, depending on your service provider.

Launching a MIDlet

Note: The procedure explained below are for the default games. For downloaded games, the procedure may be different.

1. Scroll to the MIDlet you want on the Games list and press the **Select** soft key.
2. On the startup screen of the MIDlet, use the numeric keys to confirm your selection.

The following options are available:

- **New game:** starts a new game.
- **High score:** shows the high score table. This option may not be available for some games.
- **Key info.:** shows how to play the game and the key functions for the game.
- **Continue:** allows you to continue the last game you played.

3. Press the **5** key to confirm your selection.

While you are playing a game, to	Press the
return to the startup screen	# key.
exit the game	☎ key.

Sounds *(Menu 8.3)*

In this menu, you can view the list of sounds downloaded from a web server or received in multimedia messages. You can set the downloaded sounds as the current ring tone or send them to other phones.

By pressing the **Options** soft key, you can use the following options:

Rename: allows you to change the name of the sound.

Delete: deletes the sound.

Set as ringtone: sets the sound as your ring tone.

Images *(Menu 8.4)*

In this menu, you can view the list of photos downloaded from a web server or received in messages. You can set the downloaded photos as the current background image or send them to other phones.

If you set a photo as your wallpaper, it displays as **My photo** on the list.

By pressing the **Options** soft key, you can use the following options:

Rename: allows you to change the name of the image.

Delete: deletes the image.

Set as wallpaper: sets the image as your wallpaper for the idle screen.

Delete all *(Menu 8.5)*

This menu allows you to delete all of the downloaded items in the Sounds and Images folders separately. You can delete all of the items at one time.

1. To	Press the
select a folder to clear	Up or Down key. To delete all of your items, select All .
place a check mark	Mark soft key.
remove a check mark	Unmark soft key.

Funbox

2. Press the **Delete** soft key to delete the marked items.
3. When a confirmation message displays, press the **Yes** soft key to confirm.

Memory status *(Menu 8.6)*

You can check the total amount of memory being used and the memory remaining for games, sounds, and images.

The display shows the each space used for sounds and images, including the number of sounds and images you downloaded.

Using ALS (Alternate Line Service)

The ALS feature enables two lines to be associated with one SIM card. Consequently, you can make and receive calls on either line. If you subscribe to this network service, a few additional menu options enable you to set up this feature.

Note: Please contact your service provider to check the availability of this feature and how to subscribe to ALS.

Selecting a Line

You can select a line for each call via the **Network selection** menu option (**Menu 7.4**). For further details, refer to page 108.

Editing the Line Name

You can edit the name of each line via the **Own number** menu option (**Menu 5.3**).

When you edit the name of a line, this name replaces “Line 1” or “Line 2”, as applicable. For further details, refer to page 88.

Setting the Ring Type

To distinguish between incoming calls on the two lines, you can select a different ring tone for each line via the **Received calls** menu option (**Menu 3.2**). For further details, see page 78.

Setting Call Diverting Options

You can set up call diverting via the **Call diverting** menu option (**Menu 7.1**). This service reroutes incoming calls on the line of your choice to a specified number. For further details, see page 103.

Viewing Call Information

You can view call times and last call cost information for each line. For further details, see page 79.

Solving problems

If you are experiencing problems with your phone, perform the following simple checks, before contacting a service professional. This may save you the time and expense of an unnecessary service call.

When you switch on your phone, the following messages may appear:

Insert SIM card

- Check that the SIM card is correctly installed.

Phone locked enter password

- The automatic locking function has been enabled. You must enter the phone's password before you can use the phone.

Enter PIN

- You are using your phone for the first time. You must enter the Personal Identification Number (PIN) supplied with the SIM card.
- The PIN check feature is enabled. Every time the phone is switched on, the PIN has to be entered. To disable this feature, use the **PIN check** menu (**Menu 5.5.1**).

Enter PUK

- The PIN code was entered incorrectly three times in succession and the phone is now blocked. Enter the PUK supplied by your service provider.

“No service,” “Network failure” or “Not done” displays

- The network connection was lost. You may be in a weak signal 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 dialled

- Have you pressed the  key?
- Are you accessing the right cellular network?
- You may have set an outgoing call barring option.

Your correspondent cannot reach you

- Is your phone switched on (the  key pressed for more than one second)?
- Are you accessing the right cellular network?
- You may have set an incoming call barring option.

Your correspondent cannot hear you speaking

- Have you switched off the microphone?
- Are you holding the phone close enough to your mouth? The microphone is located at the bottom of the phone.

The phone starts beeping and “Warning** Low Battery” flashes on the display**

- Your battery is insufficiently charged. Recharge the battery.

The audio quality of the call is poor

- Check the signal strength indicator on the display (); the number of bars 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 dialled when you recall a Phonebook entry

- Check that the number has been stored correctly, by using the Phonebook search feature.
- Re-store the number, if necessary.

If the above guidelines do not help you to solve the problem, take 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.

Access codes

There are several access codes that are used by your phone and its SIM card. These codes help you protect the phone against unauthorised use.

When requested for any of the codes explained below, enter the appropriate code (displayed as asterisks) and press the **OK** soft key. If you make a mistake, press the **C** key one or more times until the incorrect digit is cleared and then continue entering the correct code.

The access codes, except for the PUK and PUK2 codes, can be changed using the **Security** menu (**Menu 5.5**). See page 88 for further details.

Important! Avoid using access codes resembling emergency numbers, such as 112, so that you do not accidentally dial an emergency number.

Phone password

The Phone lock feature uses the phone password to protect your phone against unauthorised use. The phone password is supplied with the phone and is preset to “00000000” at the factory.

To	See
activate/deactivate the Phone lock feature	page 89 (Menu 5.5.3).
change the phone password	page 90 (Menu 5.5.4).

PIN

The **Personal Identification Number** or PIN (4 to 8 digits) protects your SIM card against unauthorised use. It is usually supplied with the SIM card.

If you enter an incorrect PIN three times in succession, the code is disabled and cannot be used until you re-enable it by entering the PUK (see below).

To	See
activate/deactivate the PIN check feature	page 89 (Menu 5.5.1).
change the PIN	page 89 (Menu 5.5.2).

PUK

The 8-digit PUK (**PIN Unblocking Key**) is required to change a disabled PIN. The PUK may be supplied with the SIM card. If not, or you have lost it, contact your service provider.

To re-enable your PIN:

1. Enter the PUK and press the **OK** soft key.
2. Enter a new PIN of your choice and press the **OK** soft key.
3. When the **Confirm new PIN** message displays, enter the same code again and press the **OK** soft key.

If you enter an incorrect PUK ten times in succession, the SIM card becomes invalid. Contact your service provider for a new card.

PIN2

The PIN2 (4 to 8 digits), supplied with some SIM cards, is required to access specific functions, such as setting the maximum cost of a call. These functions are available if supported by your SIM card.

If you enter an incorrect PIN2 three times in succession, the code is disabled and you cannot access the functions until you re-enable it by entering the PUK2.

To change the PIN2, see page 91 (**Menu 5.5.7**).

PUK2

The 8-digit PUK2 (**PIN Unblocking Key 2**), supplied with some SIM cards, is required to change a disabled PIN2. If you lose the code, contact your service provider.

To re-enable your PIN2:

1. Enter the PUK2 and press the **OK** soft key.
2. Enter a new PIN2 of your choice and press the **OK** soft key.
3. When the **Confirm PIN2** message displays, enter the same code again and press the **OK** soft key.

If you enter an incorrect PUK2 ten times in succession, you will not be able to access the functions requiring the PIN2. Contact your service provider for a new card.

Barring password

A 4-digit barring password is required when you use the Call Barring function. You can obtain the password from your service provider when you subscribe to this function.

You can change this password in the **Call barring** menu (**Menu 7.2**). See page 105 for further details.

Health and safety information

Exposure to Radio Frequency (RF) Signals

Your wireless 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 (FCC) 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 the safety standards that were developed by independent scientific organizations through periodic and through 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 phones employs a unit of measurement known as Specific Absorption Rate (SAR). The SAR limit recommended 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 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.

SAR tests 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 of the phone.

Before a new model phone 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. While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure 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 printed in the label on the phone.

For Body Operation

To maintain compliance with FCC RF exposure requirements, use only belt-clips, holsters or similar accessories that maintain a 1.5 cm. separation distance between the user's body and the back of the phone, including the antenna. The use of belt-clips, holsters and similar accessories should

not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

For more Information concerning exposure to radio frequency signals, see the following websites:

Federal Communications Commission (FCC)
<http://www.fcc.gov>

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

U.S.Food and Drug Administration (FDA)
<http://www.fda.gov/cdrh/consumer>

World Health Organization (WHO)
<http://www.who.int/peh-emf/en>

Precautions When Using Batteries

- I Never use any charger or battery that is damaged in any way.
- I Use the battery only for its intended purpose.
- I If you use the phone near the network's base station, it uses less power; talk and standby time are greatly affected by the signal strength on the cellular network and the parameters set by the network operator.
- I Battery charging time depends on the remaining battery charge, the type of battery and the 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.

- I If left unused, a fully charged battery will discharge itself over time.
- I 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.
- I Extreme temperatures will affect the charging capacity of your battery: it may require cooling or warming first.
- I Do not leave the battery in hot or cold places, such as in a car in summer or winter conditions, as you will reduce the capacity and lifetime of the battery. Always try to keep the battery at room temperature. A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0 °C (32 °F).
- I Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip or pen) causes a direct connection between the + and – terminals of the battery (metal strips on the battery), for example when you carry a spare battery in a pocket or bag. Short-circuiting the terminals may damage the battery or the object causing the short-circuiting.
- I 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:

- I 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.
- I When available, use a hands-free device. If possible, add an extra layer of convenience and safety to your wireless phone with one of the many hands-free accessories available today.
- I Position your wireless phone within easy reach. Be able to access your wireless phone without removing your eyes from the road. If you get an incoming call at an inconvenient time, let your voice mail answer it for you.
- I 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.
- I Do not take notes or look up phone numbers while driving. Jotting down a To Do list or flipping through your phonebook takes your attention away from your primary responsibility, driving safely.

- I Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.
- I Do not engage in stressful or emotional conversations that may be distracting. Make the people to whom you are talking aware that you are driving and suspend conversations that have the potential to divert your attention from the road.
- I Use your wireless phone to call for help. Dial the emergency number in the case of fire, traffic accident or medical emergencies. Remember, it is a free call on your wireless phone!
- I Use your wireless phone to help others in emergencies. If you see a car accident, crime in progress or other serious emergency where lives are in danger, call the emergency number, as you would want others to do for you.
- I If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or any other special non-emergency wireless number.

Operating Environment

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

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

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

Electronic Devices

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

Pacemakers

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

Persons with pacemakers:

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

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

Hearing Aids

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

Other Medical Devices

If you use any other personal medical devices, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information. Switch your phone off 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. You should

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

Posted Facilities

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

Potentially Explosive Environments

Switch your phone off 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 the phone off 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 the areas below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), areas where the air contains chemicals or particles, such as grain, dust or metal powders, and any other area where you would normally be advised to turn off your vehicle engine.

Emergency Calls

This phone, like any wireless phone, operates using radio signals, wireless and landline networks as well as user-programmed functions, which cannot

guarantee connection in all conditions. Therefore, you should never rely solely on any wireless phone for essential communications (medical emergencies, for example).

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

To make an emergency call:

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

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

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

Other Important Safety Information

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

Care and Maintenance

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

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

- I Do not paint the phone. Paint can clog the device's moving parts and prevent proper operation.
- I Do not put the phone in or on heating devices, such as a microwave oven, a stove or a radiator. The phone may explode when overheated.
- I Use only the supplied or an approved replacement antenna. Unauthorized antennas or modified accessories may damage the phone and violate regulations governing radio devices.
- I 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.

Acknowledging Special Precautions and the FCC and Industry Canada Notice

Cautions

Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Compliance Information

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received.

Including interference that may cause undesired operation.

Information to User

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- I Reorient or relocate the receiving antenna.
- I Increase the separation between the equipment and receiver.
- I Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- I Consult the dealer or an experienced radio/ TV technician for help.

Appendix A: CERTIFICATION INFORMATION (SAR)

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 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. The guidelines are based on safety standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR limit set by the FCC is 1.6 W/kg. SAR Tests are conducted using standard operating positions accepted 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 new model phone 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 values of this model phone as reported to FCC are Head: 1.42W/kg, Body-worn: 1.15W/kg in GSM 850 and Head: 0.854W/kg, Body-worn: 0.728W/kg in GSM 1900.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure 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 A3LSGHxxxx.

In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kilogram (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.

Appendix B: Guide to Safe and Responsible Wireless Phone Use

Cellular Telecommunications & Internet Association

“Safety is the most important call you will ever make.”

A Guide to Safe and Responsible Wireless Phone Use

TENS OF MILLIONS OF PEOPLE IN THE U.S. TODAY TAKE ADVANTAGE OF THE UNIQUE COMBINATION OF CONVENIENCE, SAFETY AND VALUE DELIVERED BY THE WIRELESS TELEPHONE. QUITE SIMPLY, THE WIRELESS PHONE GIVES PEOPLE THE POWERFUL ABILITY TO COMMUNICATE BY VOICE-ALMOST ANYWHERE, ANYTIME-WITH THE BOSS, WITH A CLIENT, WITH THE KIDS, WITH EMERGENCY PERSONNEL OR EVEN WITH THE POLICE. EACH YEAR, AMERICANS MAKE BILLIONS OF CALLS FROM THEIR WIRELESS PHONES, AND THE NUMBERS ARE RAPIDLY GROWING.

But an important responsibility accompanies those benefits, one that every wireless phone user must uphold. When driving a car, driving is your first responsibility. A wireless phone can be an invaluable tool, but good judgment must be exercised at all times while driving a motor vehicle whether on the phone or not.

The basic lessons are ones we all learned as teenagers. Driving requires alertness, caution and courtesy. It requires a heavy dose of basic common sense-keep your head up, keep your eyes on the road, check your mirrors frequently and watch out for other drivers. It requires obeying all traffic signs and signals and staying within the speed limit. It

means using seat belts and requiring other passengers to do the same.

But with wireless phone use, driving safely means a little more. This brochure is a call to wireless phone users everywhere to make safety their first priority when behind the wheel of a car. Wireless telecommunications is keeping us in touch, simplifying our lives, protecting us in emergencies and providing opportunities to help others in need. When it comes to the use of wireless phones, safety is your most important call.

Wireless Phone “Safety Tips”

Below are safety tips to follow while driving and using a wireless phone which should be easy to remember:

1. Get to know your wireless phone and its features such as speed dial and redial. Carefully read your instruction manual and learn to take advantage of valuable features most phones offer, including automatic redial and memory. Also, work to memorize the phone keypad so you can use the speed dial function without taking your attention off the road.
2. When available, use a hands free device. A number of hands free wireless phone accessories are readily available today. Whether you choose an installed mounted device for your wireless phone or a speaker phone accessory, take advantage of these devices if available to you.
3. Position your wireless phone within easy reach. Make sure you place your wireless phone within easy reach and where you can grab it 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. Suspend conversations during hazardous driving conditions or situations. 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 and ice can be hazardous, but so is heavy traffic. As a driver, your first responsibility is to pay attention to the road.
5. Do not take notes or look up phone numbers while driving. If you are reading an address book or business card, or writing a "to do" list while driving a car, you are not watching where you are going. It's common sense. Don't get caught in a dangerous situation because you are reading or writing and not paying attention to the road or nearby vehicles.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan your calls before you begin your trip or attempt to coincide your calls with times you may be stopped at a stop sign, red light or otherwise stationary. But if you need to dial while driving, follow this simple tip-dial only a few numbers, check the road and your mirrors, then continue.
7. Do not engage in stressful or emotional conversations that may be distracting. Stressful or emotional conversations and driving do not mix-they are distracting and even dangerous when you are behind the wheel of a car. Make people you are talking with aware you are driving and if necessary, suspend conversations which have the potential to divert your attention from the road.

8. Use your wireless phone to call for help. Your wireless phone is one of the greatest tools you can own to protect yourself and your family in dangerous situations-with your phone at your side, help is only three numbers away. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident, road hazard or medical emergency. Remember, it is a free call on your wireless phone!
9. Use your wireless phone to help others in emergencies. Your wireless phone provides you a perfect opportunity to be a "Good Samaritan" in your community. 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 wireless non emergency assistance number when necessary. Certain situations you encounter while driving may require attention, but are not urgent enough to merit a call for emergency services. But you still can use your wireless phone to lend a hand. 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.

Careless, distracted individuals and people driving irresponsibly represent a hazard to everyone on the road. Since 1984, the Cellular Telecommunications Industry Association and the wireless industry have conducted educational outreach to inform wireless phone users of their responsibilities as safe drivers and good citizens. As we approach a new century,

more and more of us will take advantage of the benefits of wireless telephones. And, as we take to the roads, we all have a responsibility to drive safely.

“The wireless industry reminds you to use your phone safely when driving.”

Cellular Telecommunications & Internet Association
For more information, please call 1-888-901-SAFE.
For updates: <http://www.wow-com.com/consumer/issues/driving/articles.cfm?ID=85>

Appendix C: Consumer Update on Wireless Phones

U.S. Food and Drug Administration

1. What kinds of phones are the subject of this update?

The term wireless phone refers here to hand-held wireless phones with built-in antennas, often called cell, mobile, or PCS phones. These types of wireless phones can expose the user to measurable radio frequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called “cordless phones,” which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures well within the FCC's compliance limits.

2. Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radio frequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

3. What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radio frequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

- I Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- I Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- I Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

- I National Institute for Occupational Safety and Health
- I Environmental Protection Agency Federal Communications Commission
- I Occupational Safety and Health Administration
- I National Telecommunications and Information Administration
- I The National Institutes of Health participates in some interagency working group activities, as well.

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones.

FCC also regulates the base stations that the wireless phone networks rely upon. While these

base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the primary subject of the safety questions discussed in this document.

4. What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radio frequency energy (RF).

FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues.

FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional

research needs in the context of the latest research developments around the world.

5. What steps can I take to reduce my exposure to radio frequency energy from my wireless phone?

If there is a risk from these products—and at this point we do not know that there is—it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radio frequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

6. What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radio frequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the

time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.

Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

7. Do hands-free kits for wireless phones reduce risks from exposure to RF emissions?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that hands-free kits reduce risks. Hands-free kits can be used with wireless phones for convenience and comfort. These systems reduce the absorption of RF energy in the head because the phone, which is the source of the RF emissions, will not be placed against the head. On the other hand, if the phone is mounted against the waist or other part of the body during use, then that part of the body will absorb more RF energy. Wireless phones marketed in the U.S. are required to meet safety requirements regardless of whether they are used against the head or against the body. Either configuration should result in compliance with the safety limit.

8. Do wireless phone accessories that claim to shield the head from RF radiation work?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that accessories that claim to shield the head from those emissions reduce risks. Some products that claim to shield the user from RF absorption use special phone cases, while others involve nothing more than a metallic accessory attached to the phone. Studies have shown that these products generally do not work as advertised. Unlike “hand-free” kits, these so-called “shields” may interfere with proper operation of the phone. The phone may be forced to boost its power to compensate, leading to an increase in RF absorption. In February 2002, the Federal Trade Commission (FTC) charged two companies that sold devices that claimed to protect wireless phone users from radiation with making false and unsubstantiated claims. According to FTC, these defendants lacked a reasonable basis to substantiate their claim.

9. What about wireless phone interference with medical equipment?

Radio frequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical Instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI.

FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a compatible phone and a compatible hearing aid at the same time. This standard was approved by the IEEE in 2000.

FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

10. What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radio frequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer causing chemicals so as to be pre-disposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty

what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

11. What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this

measurement, such as the angle at which the phone is held, or which model of phone is used.

12. Which other federal agencies have responsibilities related to potential RF health effects?

Additional information on the safety of RF exposures from various sources can be obtained from the following organizations.

FCC RF Safety Program:
<http://www.fcc.gov/oet/rfsafety/>

Environmental Protection Agency (EPA):
<http://www.epa.gov/radiation/>

Occupational Safety and Health Administration's (OSHA):
<http://www.osha-slc.gov/SLTC/radiofrequencyradiation/index.html>

National Institute for Occupational Safety and Health (NIOSH):
<http://www.cdc.gov/niosh/emfpg.html>

World Health Organization (WHO):
<http://www.who.int/peh-emf/>

International Commission on Non-Ionizing Radiation Protection:
<http://www.icnirp.de>

National Radiation Protection Board (UK):
<http://www.nrpb.org.uk>

Updated 4/3/2002: US Food and Drug Administration
<http://www.fda.gov/cellphones>

Glossary

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

Call barring

Ability to restrict outgoing and incoming calls.

Call diverting

Ability to reroute calls to another number.

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.

Call waiting

Informs you that you have an incoming call when you are engaged on another call.

Caller line identification services (Caller ID)

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

EMS (Enhanced Message Service)

An adaptation of the Short Message Service (SMS) that allows you to send and receive ring tones and the service provider's logo, as well as combinations of simple media to and from EMS-compliant handsets. Because EMS is based on SMS, it can use SMS centres the same way that SMS does. EMS works on all Global System for Mobile

communications (GSM) networks. EMS senders can use text, melodies, photos, sounds, and animations to enhance the expressive power of messages that are limited by the display constraints of mobile devices.

GPRS (General Packet Radio Service)

New non-voice value-added service that allows information to be sent and received across a mobile telephone network. GPRS provides continuous connection to the Internet for mobile phone and computer users. It is based on the Global System for Mobile Communication (GSM) circuit-switched cellular phone connections and the Short Message Service (SMS).

GSM (Global System for Mobile Communication)

International standard for cellular communication, guaranteeing compatibility between the various network operators. GSM covers most European countries and many other parts of the world.

Java

Programming language generating applications that can run on all hardware platforms, whether small, medium or large, without modification. It has been promoted for and geared heavily to the Web, both for public Web sites and Intranets. When a Java program runs from a Web page, it is called a *Java applet*. When it is run on a mobile phone or pager, it is called a MIDlet.

Multi-party calling

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

Phone password

Security code used to unlock the phone when you have selected the option to lock it automatically each time it switches on.

PIN (Personal Identification Number)

Security code that protects the phone against unauthorised use. The PIN is supplied by the service provider with the SIM card. It may be a four to eight-digit number and can be changed, as required.

PUK (PIN Unblocking Key)

Security code used to unlock the phone when an incorrect PIN has been entered three times in succession. The eight-digit number is supplied by the service provider with the SIM card.

Roaming

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

SDN (Service Dialling Numbers)

Telephone numbers supplied by your network provider and giving access to special services, such as voice mail, directory inquiries, customer support and emergency services.

SIM (Subscriber Identification Module)

Card containing a chip with all the information required to operate the phone (network and memory information, as well as the subscriber's personal data). The SIM card fits into a small slot

on the back of the phone and is protected by the battery.

SMS (Short Message Service)

Network service 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

Two keys marked  and  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.

Voice mail

Computerised answering service that automatically answers your calls when you are not available, plays a greeting (optionally in your own voice) and records a message.

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SGH-N707 GPRS Telephone
Quick reference card

Access the menu functions	① Press the Menu soft key. ② Scroll using the Navigation keys through the list of the menus until you reach the menu you want. ③ Press the Select soft key. ④ Scroll using the Up or Down key through the list of the options until the one you want is selected. ⑤ Press the Select soft key.
Each of the two soft keys ( and ) perform the function indicated by the text above it, on the bottom line of the display.	



Switch on/off	Press and hold the  key.
Make a call	① Enter the number. ② Press the  key.
End a call	Briefly press the  key.
View missed calls immediately after missing them	① Press the View soft key. ② Scroll using the Up or Down key through the missed calls. ③ To return the call, press the  key.
Answer a call	Press the  key.

Declaration of Conformity (R&TTE)

For the following product:

TRI BAND GSM TELEPHONE

(Product Name)

SGH-N707

(Model Number)

Manufactured at:

Samsung Electronics, 94-1 Imsu-Dong, Gumi City, Kyung Buk, Korea, 730-350

(factory name, address*)

to which this declaration relates, is in conformity with the following standards and/or other normative documents.

Safety : EN 60950:2000

EMC : EN 301 489-1:2000

EN 301 489-7:2000

SAR : EN 50360:2001

OET Bulletin 65, Supplement C:2001

Network : EN 301 511 V7.0.1

We hereby declare the [all essential radio test suites have been carried out and that] the above named product is in conformity to all the essential requirements of Directive 1999/5/EC.

The conformity assessment procedure referred to in Article 10 and detailed in Annex[IV] of Directive 1999/5/EC has been followed with the involvement of the following Notified Body(ies):

BABT, Claremont House, 34 Molesey Road, Walton-on-Thames, KT12 4RQ, UK
Identification mark: 168

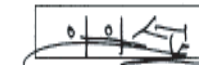
The technical documentation kept at:

Samsung Electronics Euro QA Lab.

which will be made available upon request.

(Representative in the EU)

Samsung Electronics Euro QA Lab.
Blackbushe Business Park, Saxony Way,
Yateley, Hampshire, GU46 6GG, UK
2003. 3. 26



In-Seop Lee / S. Manager

(place and date of issue)

(name and signature of authorised person)

* This is not the address of the Samsung Service Centre. For the address or the phone number of the Samsung Service Centre, see the warranty card or contact the retailer where you purchased your phone.

Choose the alert type	1 Select the Alert type menu (Menu 4.3). 2 Select an option: • Melody • Vibration • Vibra+melody 3 Press the Select soft key.
Store numbers in Phonebook	1 Enter the number and press the Save soft key. 2 Select an icon. 3 Press the Select soft key. 4 Select a memory. 5 Press the Select soft key. 6 Enter the name. 7 Press the OK soft key. 8 If necessary, change the location number. 9 Press the OK soft key. 10 Press the ↵ key to return to Idle mode.
Search for a number in Phonebook	1 Press the Name soft key. 2 Select the Search option. 3 Enter the first few letters of the name. 4 To scroll through the names, press the Up or Down key. 5 Press the View soft key. 6 To scroll through the numbers, press the Up or Down key. 7 Press the ↵ key to dial.