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

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SAMSUNG

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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 aircraft

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

Switching off in hospitals

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

Interference

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

Special regulations

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

Sensible use

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

Emergency call

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

Water resistance

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

Accessories and batteries

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

Use only Samsung-approved batteries and recharge your battery only with Samsung-approved chargers.

Qualified service

Only qualified service personnel may install or repair your phone.

For more detailed safety information, see "Health and safety information" on page 144.

CAUTION

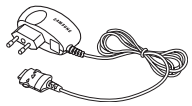
RISK OF EXPLOSION IF A BATTERY IS REPLACED BY AN INCORRECT TYPE.

DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

Unpacking

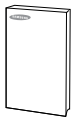
Your package contains the following items:

Phone



Travel Adapter

Battery



Owner's Manual

Note: The items supplied with your phone may be different depending on the country.

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

- Battery charger
- Ear microphone
- Simple hands-free kit
- Cigarette lighter adapter
- Finger strap
- Data kit

Your phone

Phone layout

The following illustrations show the main elements of your phone:

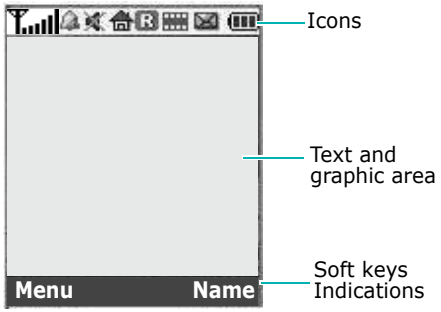
Key(s)	Description
(soft keys)	Perform the functions indicated by the text above them, on the bottom line of the display.
	In Menu Mode, scrolls through the menu options and Phonebook memory with the Up and Down key, returns to the previous menu level and selects the current menu respectively with the Right and Left key. In Idle Mode, allows you to access your favourite menu options directly. For further details about shortcuts, see page 104.
	In Idle Mode, launches the WAP (Wireless Application Protocol) browser.
	Initiates or answers a call. In Idle Mode, accesses the call log list. In Menu Mode, selects a menu function or stores information that you have entered, such as a name in the phone or SIM memory.
	Deletes characters from the display. In Menu Mode, returns to the previous screen.
	Ends a call. When held down, switches the phone on or off. In Menu Mode, cancels your input and returns to Idle Mode.

Key(s)	Description (continued)
	When held down in Idle Mode, quickly accesses your voice mail server.
	Enter numbers, letters and some special characters.
	Used for various purposes in different functions.
	When held down while entering a phone number, the * key enters a pause. When held down in Idle Mode, the # key enters or exits the Silent mode and * key enters the key lock mode.
	(on the left side of the phone) During a call, adjusts the earpiece volume. In Idle Mode with the phone open, adjusts the keypad tone volume. In Menu Mode, scrolls through the menu options and the Phonebook memory.

Display

Display layout

The main display has three areas:



Area	Description
First line	Displays various icons. See page 14.
Middle	Displays messages, instructions and any information that you enter, such as a number to be dialled.
Last line	Shows the functions currently assigned to the two soft keys.

Icons

Icon	Description
	Shows the received signal strength. The more bars, the stronger the signal.
	Appears when a call is in progress. When your SIM card supports ALS (Alternate Line Service), this icon may appear with the number 1, 2, or both. For example , , or .
	Appears when you are out of a service area. When it displays, you cannot make or receive calls.
	Appears when you have new or unchecked voice messages. When your SIM card supports ALS (Alternate Line Service), this icon may appear as , , .
	Appears when you have new or unread messages.
	Appears when you have new or unchecked multimedia messages that have been received.
	Appears when you set an alarm to sound at a specified time.
	Appears when Mute Mode is active.

Icon	Description (continued)
	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 , , or .
	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 you are connected to a GPRS-enabled network.
	Appears when you are in your home zone. (Only if your service provider supports this.)
	Appears when your are in your office zone. (Only if your service provider supports this.)
	Appears when you set the alert type for incoming calls to **Vibration** or **Vibra+melody**. For further details, see page 92.
	Appears when the Silent mode is active.
	Shows the level of your battery. The more bars you see, the more power you have left.

Backlight

A backlight illuminates the display and the keypad. When you press any key, the backlight turns on and remains on for a given period of time, depending on the **Back light** option settings. The display turns off after one minute to conserve your battery power.

To specify the length of time the backlight is active, set the **Back light** option settings (**Menu 5.1.5**). See page 97 for further details.

Getting started

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.

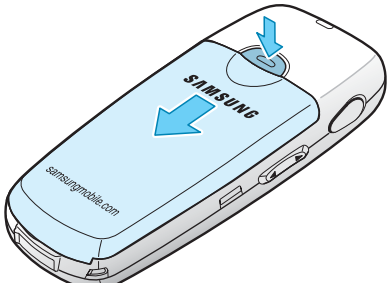
Keep all SIM cards out of the reach of small children.

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:

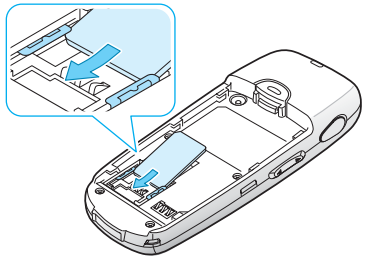
   ① Press and hold down the catch above the battery on the back of the phone.

   ② Slide the battery away, as shown.

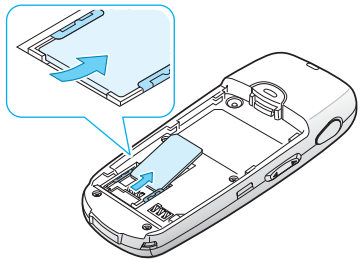


3. Slide the SIM card into the SIM card socket, as shown, so that it locks the card into position.

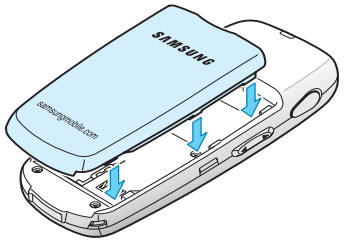
   Make sure the gold contacts of the card face into the phone.



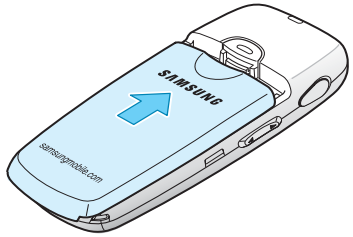
   Note: When you need to remove the SIM card, slide it, as shown, and take it out of the socket.



4. Place the battery back on the phone. Make sure each side tab of the battery placed into corresponding slot on the phone.



5. Slide the battery up towards the catch until it locks into place.



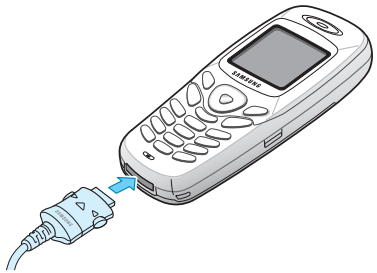
Charging the battery

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 chargers. 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 is fully recharged in approximately 200 minutes.

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



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

   While charging, the battery icon at the top right corner of the display repeatedly fills to show that the battery is charging.

3. When charging is finished, the battery icon becomes solid and the "Fully charged" message is displayed, unplug the adapter from the power outlet and from the phone by pressing the gray tabs 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, the battery sensor informs you in the following ways: an empty battery icon flashes ( ), you hear a warning tone, and a message repeats at regular intervals on the display.

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

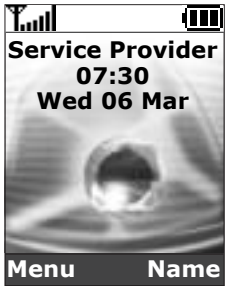
Switching the phone on or off

To switch the phone on:

1. Hold down the key until the phone switches on.

2. If the phone asks you to enter the phone password, enter the password and press the **OK** soft key. The phone password is preset to "00000000" at the factory. For further details, see page 140.

   The phone searches for your network and the current date and time appear on the display. Once attached to a network, you can make and receive calls.



Note: To change the language, use the **Language** menu option (**Menu 5.4**). For further details, see page 99.

To switch the phone off:

Hold down the key until the power-off image displays.

Selecting functions and options

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

The roles of the soft keys vary according to the function you are currently using; the label on the bottom line of the display, just above the soft keys, indicates its current role.

Example:

Press the left soft key to access menu functions.

Press the right soft key to access the Phonebook feature.

To view various functions/options available or select the one you want:

1. Press the appropriate soft key.

2.

To	Press the
select the: • function displayed • option highlighted	**Select** soft key or Right key.
view the next function or highlight the next option on a list	Down key or ▼ key on the left side of the phone.
move back to the previous function or option on a list	Up key or ▲ key on the left side of the phone.
move back up one level in the structure	Left key, soft key, or **C** key.
return to Idle mode	key.

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

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

Locking or unlocking the keypad

You can lock the keypad to avoid pressing keys by mistake.

To lock the keypad manually, press and hold the * key in Idle mode until the "Key pad locked" message displays.

To lock the keypad automatically, use the **Auto key lock** option (**Menu 5.1.3**). See page 97.

In the key lock mode, you can dial emergency calls and answer incoming call using keypad.

When you end the call, your phone returns to the key lock mode after given period time.

To exit the key lock mode, press the **Unlock** soft key and then press the * key.

The "Keypad active" message displays.

Call functions

Making a call

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

Note: When you check the **Auto redial** option in the **Extra settings** menu (**Menu 5.6**), the phone automatically redials up to ten times when the person does not answer the call or is already on the phone. See page 103 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	Navigation keys until the cursor is immediately to the right of the digit to be cleared. Press the **C** key. You can also insert a missing digit simply by pressing the appropriate key.
all digits displayed	**C** key and hold it for more than one second.

Ending a call

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

Redialling the last number

The phone stores the numbers you dialed, received or missed if the caller is identified. See "Call records" on page 87 for further details.

To recall any of these numbers:

1. If you have typed characters on the display, press the key to return to Idle Mode.
2. Press the key to display a list of the last numbers in the order in which the calls were made.
3. Use the Up and Down keys or volume keys on the left side of the phone 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 as required, referring to page 25.
delete the number	**Options** soft key and select **Delete**.
delete all of the numbers on the Redial list	**Options** soft key and select **Delete all**. Mark the **All calls** box and press the **Delete** soft key. When a confirming message displays, press the **Yes** soft key.

Making a call from phonebook

You can store the phone numbers that you use regularly in the SIM card or the phone's memory, which are collectively called Phonebook. Simply select a name to recall the associated number. For further details about the Phonebook features, see page 52.

Adjusting the volume

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

Press the ▲ key to increase the volume level and the ▼ key to decrease the level.

In Idle Mode, you can also adjust the keypad tone volume using these keys.

Answering a call

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

When the caller can be identified, the caller's phone number, or name if stored in your 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 checked, you can press any key to answer a call except for the key and the **Reject** soft key. See page 103.

   Note: To reject an incoming call, press the key or the **Reject** soft 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 is calling you, if this service is available, so that you can call the person back.

The number of missed calls displays on the idle screen immediately after a call has been missed.

To view the 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.
2. Press the Up or Down key to highlight the **Edit** option.
3. Press the **Select** soft key.
4. Change the number, as required.

5.

To	Press the
call the number	key.
store the number	**Save** soft key and enter the name and location required. For further details, see page 52.

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 87.

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 Idle Mode, press and hold the # key until the "Silent mode" message and the Silent icon ( ) display.

In Silent Mode, your phone changes the sound settings as follows:

Option	New setting
Alert type (**Menu 4.3**)	Vibration
Keypad tone (**Menu 4.4**)	Off
Message tone (**Menu 4.5**)	Off
Power off tone (**Menu 4.7**)	Off
Extra tones (**Menu 4.8**)	Off

To exit and reactivate the previous sound settings, press and hold the # key again until the "Exit silent mode" message displays. The Silent icon ( ) no longer displays.

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 a call on hold whenever you want. You can make another call while you have a call in progress if your network supports this service. 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 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 34.

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.

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 the other person.

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

Using the menu functions

During a call, you can access the main menu functions.

1. Press the **Options** soft key.
2. Press the **OK** soft key when the **Menu** option highlights.
3. 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.

4. When the menu you want highlights, press the **Select** soft key.
5. If the selected menu has sub-options, repeat Steps 4 and 5.

For further details about the menu functions available, see the list on page 47.

Switching the microphone off (Mute)

You can temporarily switch your phone's microphone off so that the person with whom you are speaking cannot hear you.

Example: You wish to say something to another 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 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/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 key tones, 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 DTMF tones

You can send the DTMF (Dual Tone Multi-Frequency) tones of the number on the display during a call.

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

To send the DTMF tones:

1. When you are 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 **OK** soft key.

   The tones of the displayed number 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 will be 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 52.

Answering a second call

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 120. 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

Multi-party calling is a feature of some networks that allows up to six people to take part simultaneously in a multi-party or conference call. For more information, 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 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 choose 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 **Select** soft key or the key.

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

   Now you can talk privately with 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 choose 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 **Select** soft key or 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 with the others.

4. End the multi-party call by pressing the key.

Entering text

When using your phone, you will often need to enter text, such as when storing a name in the 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, when you press the **5** key, J, K, or L can be displayed. The T9 mode automatically compares your keystrokes with an internal linguistic dictionary to determine the correct word, thus requiring far fewer keystrokes than the traditional alphabet mode.

- **Alphabet mode**

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

- **Number mode**

  This mode allows you to enter numbers.

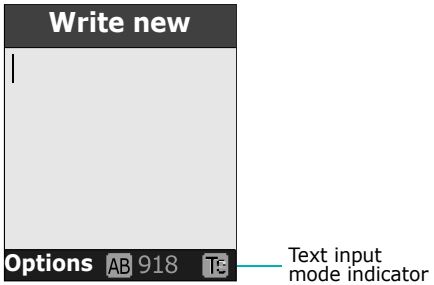
- **Symbol mode**

  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 the	Press the right soft key until
T9 mode	T9 displays. See page 40.
Alphabet mode	A displays. See page 42.
Number mode	1 displays. See page 43.
Symbol mode	the symbol list displays. See page 44.

Using the T9 mode

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

To enter a word in the T9 mode:

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

   Example: To enter "HELLO" in the T9 mode, press 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. If the word is correct, start entering the next word.

   Otherwise, press the **0**, 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 between words by pressing the # key.

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 the alphabet mode; see page 42.

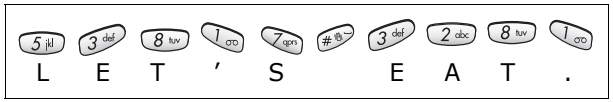
4. Press the **OK** soft key.

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

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

- To enter periods, hyphens, or apostrophes, press the **1** key. The T9 mode applies grammar rules to ensure that the correct punctuation is used.

  Example: The **1** key is used twice to display two punctuation marks:



- To shift the case in the T9 mode, use the * key. There are three cases; Lower case (ab), Initial Capital (Ab) and Capital lock (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 the alphabet mode

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

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

Note: The cursor moves to the right when you press a 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 characters available:

Key	Characters in the order displayed	
	Upper case	Lower case
1	. , – ? ! @ : ( ) / 1	
2	A B C 2 Ä Å Æ Ç Γ	a b c 2 à ä åæ 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 ß 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	Space + = < > € £ $ % & ¥ ¤ 0 ~	

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

Using the number mode

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

Using the symbol mode

The symbol mode enables you to insert symbols into a text message.

To	Press the
select a symbol	corresponding number key.
display more symbols	Up or Down key.
insert the symbol(s) into your message	**OK** soft key.
cancel your input and return to the previous mode	**Back** soft key.

Using the menus

The phone offers a range of functions that allows 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 with 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 with the Up or Down key to reach a main menu, **Phone settings** for example. Press the **Select** soft key or the Right key to enter the menu.
3. If the menu contains any sub-menus, **Language** for example, you can access them by scrolling with the Up or Down key and pressing the **Select** soft key or the Right 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, or use the ▲ and ▼ keys on the left side of the phone.
confirm the chosen setting	**Select** soft key or the Right key.
return to the previous menu level	↺ soft key or the Left key.
exit the menu without changing the settings	key.

Accessing a menu function by using its shortcut

The menu items, such as menus, sub-menus and options, are numbered and can be accessed quickly by using their shortcut numbers. The shortcut number is shown on the bottom right next to the ⏻ soft key on the display. 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 47. They may not match the menu number on the phone, depending on the services supported by your SIM card.

Example: Accessing the **Language** option.

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

   The languages available display.

List of menu functions

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

1. Text messages (see page 64)

- 1.1 Inbox
- 1.2 Outbox
- 1.3 Write new
- 1.4 Templates
- 1.5 Settings
  - 1.5.1 Setting 1*
  - 1.5.2 Setting 2*
  - 1.5.3 Common setting
- 1.6 Delete all
- 1.7 Memory status
  - 1.7.1 SIM memory
  - 1.7.2 Phone memory
  - 1.7.3 CB memory
- 1.8 Voice mail
  - 1.8.1 Connect to voice server
  - 1.8.2 Voice server number
- 1.9 Broadcast
  - 1.9.1 Read
  - 1.9.2 Receive
  - 1.9.3 Channel list
  - 1.9.4 Language

* Shown only if it is supported by your SIM card.

2. Multimedia messages (see page 75)

- 2.1 Inbox
- 2.2 Outbox
- 2.3 Draft
- 2.4 Write new
- 2.5 Templates
- 2.6 Delete all
- 2.7 Memory status
- 2.8 Setup
  - 2.8.1 Delivery report
  - 2.8.2 Read reply
  - 2.8.3 Auto download
  - 2.8.4 Message acceptance
  - 2.8.5 Hide ID
  - 2.8.6 Expiry date
  - 2.8.7 Delivery time
  - 2.8.8 Priority
  - 2.8.9 Report allowed
  - 2.8.10 Page duration
- 2.9 MMS profile

3. Call records (see page 87)

- 3.1 Missed calls
- 3.2 Received calls
- 3.3 Dialled 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
- 3.6 Call cost*
  - 3.6.1 Last call cost
  - 3.6.2 Total cost
  - 3.6.3 Max cost
  - 3.6.4 Reset counters
  - 3.6.5 Set max cost
  - 3.6.6 Price/Unit

* Shown only if it is supported by your SIM card.

4. Sound settings (see page 91)

- 4.1 Ring tone
- 4.2 Ring volume
- 4.3 Alert type
- 4.4 Keypad tone
- 4.5 Message tone
  - 4.5.1 SMS tone
  - 4.5.2 SMS-CB tone
  - 4.5.3 MMS tone
- 4.6 Alert on call
- 4.7 Power on/off
- 4.8 Extra tones

5. Phone settings (see page 96)

- 5.1 Display settings
  - 5.1.1 Wallpaper
  - 5.1.2 Menu style
  - 5.1.3 Auto key lock
  - 5.1.4 Contrast
  - 5.1.5 Back light
  - 5.1.6 Graphic logo
- 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 Privacy
  - 5.5.6 SIM lock
  - 5.5.7 FDN mode*
  - 5.5.8 Change PIN2*
- 5.6 Extra settings
- 5.7 Short cut
  - 5.7.1 Key up
  - 5.7.2 Key down
  - 5.7.3 Key right
  - 5.7.4 Key left
- 5.8 Reset settings

* Shown only if it is supported by your SIM card.

6. Organiser (see page 105)

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 Voice memo
- 6.6.1 Voice record
- 6.6.2 Memo list
- 6.6.3 Delete all
- 6.6.4 Memory status

6.7 Currency exchange

7. Network services (see page 116)

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

7.4 Network selection

7.5 Caller ID

7.6 Closed user group
- 7.6.1 Index list
- 7.6.2 Outside access
- 7.6.3 Default group
- 7.6.4 Deactivate*

8. Funbox (see page 125)

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
- 8.6.1 Games
- 8.6.2 Sounds & Images

9. SIM AT** (see page 136)

* Shown only if the Closed user group Feature is active.
** Shown only if it is supported by your SIM card.

Phonebook

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

Storing a number with a name

There are two ways to store a number:

- Using the **Save** soft key in Idle Mode
- Using the **New entry** option in the Phonebook menu

Storing a number in Idle mode

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

1. 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 25.

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

3. Select an icon to identify the category of the number 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 must be reentered.

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

   The maximum length of a name depends on your SIM card. For further details about how to enter characters, see page 38.

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 number 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 55.
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
5. Enter a name and press the **OK** soft key.

   The maximum length of a name depends on your SIM card. For further details about how to enter characters, see page 38.

6. Enter the number or address you want to store and press the **Save** soft key.
7. Continue the procedure from Step 6 on page 53 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.

To	Press the
select the highlighted option	**Select** soft key.
highlight a different option	Up or Down key until the option you want highlights.

The following options are available:

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

Use the **C** key to change the number as required; see page 25 for further details. When you are ready to dial, press the key.

Edit: allows you to edit the name and number.

Select **One entry** to change one number for the selected name. If you change the name, the number is saved separately. Select **All entry** to change the name of the entry.

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

Copy: allows you to copy the number to another location. Use this option to store a number similar to one already in the memory; once copied, edit the number and store it in the Phonebook.

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 ten 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 59.

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

Searching for a number in phonebook

After storing numbers in the 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, starting with 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 highlights.
look for a name starting with a different letter	key labelled with the letter you want to enter.

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 55.

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 55.

Editing a caller group

1. When the idle screen displays, press the **Name** soft key.
2. Scroll to **Group edit** by pressing the Up or Down key and press the **Select** soft key.
3. Scroll through the group list by pressing the Up or Down key.
4. When the group you want highlights, press the **Options** soft key.
5. Select each option and change the settings, as required. The following options are available:
   - **Call Ring tone**: allows you to set a ring tone to be used when you receive a voice call from a person in the group.
   - **SMS tone**: allows you to set a message tone to be used when you receive a message from a person in the group.
   - **Graphic**: allows you to set a graphic icon to be displayed when you receive a voice call from a person in the group.
   - **Group name**: allows you to assign a name to the group. For further details about how to enter characters, see page 38.
6. When you finish changing the settings, press the **C** or key.

Speed-dialling

Once you have stored phone numbers in Phonebook, you can set up to eight speed-dial entries and then dial them easily whenever you want, simply by pressing the associated number 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: 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 a Phonebook entry from the 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 finish setting the options, press the **C** or key.

Speed-dialling from phonebook

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

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

Deleting all of the phonebook entries

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

1. When the idle screen displays, press the **Name** soft key.
2. Scroll to **Delete all** by pressing the Up or Down key and press the **Select** soft key.
3. 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.
4. When you are finished marking, press the **Delete** soft key to delete the entries in the selected memory.

5. Enter the phone password and press the **OK** soft key.

   Note: The password is preset to "00000000" at the factory. To change it, see page 101.

6. When the confirming message appears, press the **Yes** soft key.

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

7. When you finish deleting, 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 phone memories. You can also see the capacity of both memories.

1. When the idle screen displays, press the **Name** soft key.
2. Select the **Memory status** option by pressing the Up or Down key and press the **Select** soft key.
3. Press the Up or Down key to view the number of existing and remaining entries in the SIM card and phone memories.
4. When you finish checking, press the **C** or key.

Using the service dialling numbers

You can view the list of Service dialling numbers (SDN) assigned by your network provider. Such numbers include the emergency, directory enquiries and voice mail numbers.

1. In Idle Mode, press the **Name** soft key.
2. Select the **SDN** option by pressing the Up or Down key and press the **Select** soft key.
3. Scroll through the numbers by using the Up or Down key.
4. To dial the number displayed, press the **Dial** soft key.

   Note: This option is available only when your SIM card supports Service dialling numbers (SDN).

Text 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 make messages including simple pictures, melodies, and animation. To use this feature, you must subscribe to the message service of your service provider.

When the 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 obsolete ones.

Inbox *(Menu 1.1)*

This message box is used to store the 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 choose the following options by pressing the **Options** soft key:

Delete: allows you to delete the message.

Send: allows you to resend the message. For further details about how to send a message, see page 67.

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

Call back: allows you to call the sender back.

Cut address: allows you to extract the sender's number and URL /e-mail addresses or phone numbers from the message text, so that you can save them in your phone's memory or SIM card.

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 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 future messages. For details, see page 68.

Outbox *(Menu 1.2)*

This message box is used to store the 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 choose the following options by pressing the **Options** soft key:

Delete: allows you to delete the message.

Send: allows you to resend the message. For further details about how to send a message, see page 67.

Cut address: allows you to extract the destination number and URL /e-mail addresses or phone numbers from the message text, so that you can save them in your phone's memory or SIM card.

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 memory.

Select objects: allows you to save media objects, such as sounds, melody, picture or animation from the message into your phone. You can use the objects when writing a message. For details, see page 68.

Write new *(Menu 1.3)*

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

Note: When you add media objects to the message, the number of characters you can enter decreases.

Creating a simple text message

1. Create your message.

   Note: For further details about entering characters, see page 38.

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 objects**, **Add templates**, **Add phonebook**, **Add bookmark** and **Language** options, see page 68.

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**. After saving the message, the phone returns to the **Text messages** menu.

4. If you select a save option, choose the memory where the message is saved and press the **OK** soft key.

5. Enter a destination number and press the **OK** soft key.

   The message is sent.

Note: When 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 SMS New screen.

Creating a message using the 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 objects**: allows you to add a sound, melody, picture or animation to the message. Select the category of the object to be added. In each category, you can select the various factory-set items or choose 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 messages stored in the **Templates** menu (**Menu 1.4**). For further details, see page 69.

   - **Add phonebook**: allows you to add a Phonebook entry to your message. Select one from the list.
   - **Add bookmark**: allows you to add a web page's address stored in your Favorite list (**Menu 8.1.2**). Select one from the list.
   - **Language**: allows you to change the language to be used in the T9 input mode. Select the language to be used.
4. Complete the message, and send or save it by following the procedure from Step 2 on page 67.

Templates *(Menu 1.4)*

Using this menu, you can preset up to 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 or edit the message.

Note: For further details about how to enter characters, see page 38.

Send message: allows you to retrieve the message. 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 66.

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

Settings *(Menu 1.5)*

In this menu, you can set up default SMS 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.

Note: The last setting you accessed is automatically activated for sending 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 the 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**, **Email** 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 at 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 via your message centre, if your network supports this service. To enable or disable this option, choose the **On** or **Off**.

Delivery reports: 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. To enable or disable this option, choose the **On** or **Off**.

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

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

Delete all *(Menu 1.6)*

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

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.
delete the marked messages	**Delete** soft key.

When a confirming message displays, press the **Yes** soft key to confirm.

Memory status *(Menu 1.7)*

This menu shows how many messages are currently stored in the SIM, phone and CB (Cell broadcast) memories.

Voice mail *(Menu 1.8)*

This menu provides you with a way of accessing your voice mailbox, if your network supports this service.

The following options are available:

Connect to voice server: before using this feature, you must enter the voice server number obtained from your service provider (see **Menu 1.8.2**). You can then select a server number from the list 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.

To	Press the
enter the server number	corresponding numeric keys.
correct a digit	**C** key.
move the cursor to the left or right without clearing a digit	Left or Right key.

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

Broadcast *(Menu 1.9)*

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.

The following options are available:

Read: lets you view the 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 to display cell broadcast messages.

Please contact your service provider for further details.

Multimedia messages

Multimedia Message Service (MMS) is a messaging service very similar to Short Message Service (SMS). It provides automatic and immediate delivery of personal multimedia messages from phone to phone or from phone to e-mail.

In addition to the familiar text content of text messages, multimedia messages can contain images, graphics, voice and audio clips. An MMS message is a multimedia presentation in a single entry. It is not a text file with attachments.

Using the MMS feature, your phone can receive multimedia messages. You can also send multimedia messages, which are short messages that contain images, such as your photos or graphics you downloaded from the Internet. This function is available only if it is supported by your service provider. Only phones that offer multimedia message features can receive and display multimedia messages.

Inbox *(Menu 2.1)*

Viewing a message when you receive it

When a new multimedia message comes in, the display shows a text notification along with the sender's number.

1. Press the **View** soft key to view the message.

   The display shows brief information about the message, such as the sender's number, the message size and the subject.

   If you want to view the message later in the Inbox, press the **Exit** soft key.

2. To scroll through the message information, press the Up or Down key.

While viewing the information, press the **Options** soft key to use the following options:

Retrieve: retrieves the message from the MMS server.

Delete: deletes the message.

More Information: shows you detailed information about the message.

Viewing a received message in the inbox

When you access the **Inbox** menu (**Menu 2.1**), the list of multimedia messages you received displays with the senders' phone numbers or name, if they are available in your Phonebook, or subjects. The icons on the left tell you the status of the messages.

- : Messages you have already read.
- : Messages you haven't read yet.

1. Select a message on the list and press the **Select** soft key.

   The display presents the message and scrolls to the next page, if it has one, after a specified time; for details about setting the time, see page 85.

2. Press the **OK** soft key to go to the message view screen.

   Or, the display automatically switches to the screen.

3. To scroll through the message, press the Up or Down key.

   If the message has more than one page, you can scroll through the pages by using the Left and Right keys.

While viewing a message, you can choose the Message options by pressing the **Options** soft key.

If you are viewing a new message, the options are the same as when you view a message as soon as you receive it. See the previous section.

When you are reviewing a message, the following options are available:

Delete: deletes the message.

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

Callback: allows you to call the sender back.

Cut address: allows you to extract the sender's number, so that you can dial the number or save it in your Phonebook.

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

Save picture: allows you to save an image from the message into your phone. Images are stored in the **Images** folder (**Menu 8.4**).

Save sound: allows you to save a sound from the message into the **Sounds** folder (**Menu 8.3**).

Properties: shows you information about the message, such as subject, sender's address, message size, status and priority.

Outbox *(Menu 2.2)*

When you access this menu, the list of the multimedia messages you sent or saved displays. The icons on the left tell you the status of the messages.

- : Messages currently being sent
- : Messages sent
- : Messages your phone couldn't send
- : Messages to be sent
- : Messages deferred

1. Select a message on the list and press the **Select** soft key.

   The display presents the message and scrolls to the next page, if it has one, after a specified time; for details about setting the time, see page 85.

2. Press the **OK** soft key to go to the message view screen.

   Or, the display automatically switches to the screen.

3. To scroll through the message, press the Up or Down key.

   If the message has more than one page, you can scroll through the pages by using the Left and Right keys.

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

Delete: deletes the message.

Cut address: allows you to extract the destination numbers or addresses, so that you can dial a number or save them in your Phonebook.

Send: allows you to resend the message.

Edit message: allows you to change the message contents, text, sound or picture.

Properties: shows you information about the message, such as subject, sender's address, message size, status and priority.

Draft *(Menu 2.3)*

After creating a multimedia message, you can store it in this message box for later sending.

For further details about viewing a message, see "Outbox" on page 78.

Write new *(Menu 2.4)*

This menu allows you to create a new multimedia message and then send it to multiple destinations.

Creating and sending a multimedia message

1. Enter the subject of your message and press the **OK** soft key.

   For further details about entering characters, see page 38.

2. When **Add here** highlights, press the **Options** soft key and add the message contents using one of the following options:
   - **Add text**: enter the message text and press the **OK** soft key.
   - **Add picture**: allows you to add a picture stored in the **Images** folder (**Menu 8.4**). Choose a picture and press the **Select** soft key. Some downloaded pictures may not be added depending on their file format.
   - **Add sound**: allows you to add a sound file. Select **Record** to record a new voice memo, or **Sound list** to add one of sounds in the **Sounds** folder (**Menu 8.3**) or **Memo list** (**Menu 6.6.2**). Some downloaded sounds may not be added depending on their file format.
   - **Send**: allows you to send the message. Use this option when you finish creating the message. This option is activated after you add content to the message.
   - **Save**: saves the message in the **Draft** (**Menu 2.3**) or **Templates** (**Menu 2.5**) box for later use. This option is activated after you add content to the message.
   - **Settings**: allows you to change the message settings. For further details about each setting option, see page 85. After changing the settings, you need to press the ↺ soft key or the **C** key to go back to the options screen.
   - **Add destination**: allows you to enter destination numbers or addresses. See steps 7 to 12 starting from page 82. After adding them, you need to press the ↺ soft key or the **C** key to go back to the option screen.

   - **Preview**: shows your message as it will display on the recipient's phone.

   Note: You can add text, an image and a sound once for each page.

3. When the added content displays, press the Down key to highlight **Add here**.
4. Repeat steps 2 and 3 until you finish creating your message.
5. If you want to change the added items, press the Up or Down key to highlight one and press the **Options** soft key. The following options are available:
   - **Edit text/picture/sound**: allows you to change text or replace the image or sound with another one.
   - **Add page**: allows you to add more pages. You can move to each page using the Left or Right key when **Page** highlights on the message screen.
   - **Delete**: deletes the item from your message.
   - **Duration**: allows you to set how long text, an image or a sound displays on the message presentation screen. After a specified time, the display scrolls to the next item and then continues to the next page.
   - **Send**: allows you to send the message.
   - **Save**: saves the message in the **Draft** (**Menu 2.3**) or **Templates** (**Menu 2.5**) box for later use.
   - **Settings**: allows you to change the message settings. For further details about each setting options, see page 85.

- **Add destination**: allows you to enter destination addresses. See steps 7 to 12.
- **Preview**: shows your message as it will display on the recipient's phone.

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

6. When you are finished creating the message, choose **Send** from the options and press the **Select** soft key.

7. Select **To**, **Cc** or **Bcc** to enter a destination number or address and press the **Select** soft key.

8. Choose one of the following options and press the **Select** soft key:
   - **Phone number**: allows you to enter the phone number you want.
   - **E-mail address**: allows you to enter the e-mail address of the recipient to send the message as an e-mail.
   - **Phone book**: allows you to retrieve a number from your Phonebook.

9. Enter a number or an e-mail address, or select a number in Phonebook.

10. When the correct number or address displays, press the **OK** soft key.

11. To add a destination, press the **Select** soft key when **Add destination** highlights. Repeat from step 8.

    If you want to edit the destinations, select one and press the **Select** soft key. You can change or delete it.

12. When you are finished adding the destinations to the type, press the **C** key or the ↺ soft key.

13. To enter numbers or addresses, repeat steps 7 through 12.

    You can enter up to 10 destinations for **To**, **CC** and **Bcc**.

14. When you are finished entering the destinations, select **Send message** and press the **Select** soft key on the Picture Msg Send screen.

    Your phone sends the message.

Templates *(Menu 2.5)*

This menu stores messages you saved as templates so that you can use them to make new messages.

1. Scroll through the template list using the Up or Down keys.

2. When the message template you want highlights, press the **Select** soft key.

3. Press the **OK** soft key to use the following options, or the display automatically shows the options after a specified time:
   - **Edit message**: allows you to send a message using the template. For further details about how to send a message, see page 79.
   - **Delete**: allows you to delete the message. You are asked to confirm the deletion by pressing the **Yes** soft key.

4. Press the ☎ key to return to Idle Mode.

Delete all *(Menu 2.6)*

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

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.
delete the marked messages	**Delete** soft key.

When a confirming message displays, press the **Yes** soft key to confirm.

Memory status *(Menu 2.7)*

You can check the memory status for multimedia messages. The display shows the total space, including the free and used space. It also shows how much space is currently occupied by each message box.

Setup *(Menu 2.8)*

You can change the default settings for sending or receiving multimedia messages.

The following options are available:

Delivery report: when this option is enabled, the network informs you whether or not your message has been delivered.

Read reply: when this option is enabled, your phone sends a request for a reply along with your message to the recipient.

Auto download: you can set whether or not your phone retrieves new incoming messages from the MMS server without notifications.

Message acceptance: you can specify the category of messages you want to receive.

Hide ID: when this option is enabled, your phone number does not display on the recipient's phone.

Expiry date: you can select the length of time your messages are stored at the message centre after they are sent.

Delivery time: you can set the delay time before the phone sends your messages.

Priority: you can select the priority level of your messages.

Report allowed: when this option is disabled, the sender of an incoming message does not receive a delivery report from the network.

Page duration: you can set how long one page of the received message displays on the message presentation screen. After a specified time, the display automatically scrolls to the next page.

MMS profile *(Menu 2.9)*

In this menu, you can configure various network settings that are required when you send or receive multimedia messages.

Notes:

- The last profile you accessed is automatically activated for sending messages.
- If you change the MMS settings without the service provider's instructions, the MMS feature may not work properly.

The following options are available for each profile:

Profile name: enter a name that you wish to assign to these MMS settings.

Connection URL: enter the address of your MMS server.

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

IP address: enter the gateway address required to connect to the MMS server.

User name: enter the user ID required to connect to the MMS server.

Password: enter the password required to connect to the MMS server.

APN: enter the access point name used for the address of the MMS server.

For further details, contact your service provider.

Call records

In this menu, you can view the:

- calls you have missed, received, or dialled.
- length of your calls.
- cost of your calls.

Notes:

- You can access phone numbers that are in the three types of call records by pressing the key in Idle Mode.
- The number of call records the phone can store may be different depending on your SIM card.

Missed calls *(Menu 3.1)*

This menu lets you view the numbers of the calls you received, but did not answer.

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

By pressing the **Options** soft key, you can:

- edit the number, if available, and dial it or save it in Phonebook.
- delete 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 numbers of the calls you received.

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

By pressing the **Options** soft key, you can:

- edit the number, if available, and dial it or save it in Phonebook.
- delete 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 numbers you dialled.

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

By pressing the **Options** soft key, you can:

- edit the number and dial it or save it in Phonebook.
- delete 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 type. You can also delete all of your call records at one time.

To	Press the
select a call type 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.
delete the marked messages	**Delete** soft key.

When a confirming message displays, press the **Yes** soft key to confirm.

Call time *(Menu 3.5)*

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

Note: The actual time invoiced for calls 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: length of the last call.

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

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

Reset timers: option used to reset the call timers. You must first enter the phone password (see page 140) and then press the **OK** soft key.

Call cost *(Menu 3.6)*

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

The following options are available:

Last call cost: cost of the last call made.

Total cost: total cost of all calls 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: maximum cost set in the **Set max cost** option. See below.

Reset counters: option used to reset the cost counter. You must first enter your PIN2 (see page 142) and then press the **OK** soft key.

Set max cost: option used to enter the maximum cost that you authorise for your calls. You must first enter your PIN2 (see page 142) and then press the **OK** soft key.

Price/Unit: option used 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 142) 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 your phone on/off.
- 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 30), you cannot change the sound settings.

Ring tone *(Menu 4.1)*

This menu allows you to select a ring melody.

You can choose between many different melodies. Each time you select a melody, the melody plays. If you have downloaded sounds from the Internet or 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 or the volume keys on the left side of the phone to increase or decrease the volume.

Alert type *(Menu 4.3)*

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

The following options are available:

Melody: the phone plays the ring melody selected in the **Ring tone** menu (**Menu 4.1**); see page 91.

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 a tone that the keypad generates when you press a key.

The following options are available:

Off: the keys do not make any sound.

Cool: each key, when pressed, generates a pure sound.

Piano: each key, when pressed, generates a different note in the musical scale.

Tone: each key, when pressed, makes a different sound.

Beep: each key, when pressed, makes a same sound.

Message tone *(Menu 4.5)*

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

SMS tone *(Menu 4.5.1)*

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

The following options are available:

Off: the phone neither rings nor vibrates.

Vibration: the phone vibrates.

Single beep: the phone beeps once.

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

SMS-CB tone *(Menu 4.5.2)*

This menu allows you to select how the phone informs you that a new cell broadcast (CB) message has been received.

The following options are available:

Off: the phone neither rings nor vibrates.

Vibration: the phone vibrates.

Single beep: the phone beeps once.

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

MMS tone *(Menu 4.5.3)*

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

The following options are available:

Off: the phone neither rings nor vibrates.

Vibration: the phone vibrates.

Single beep: the phone beeps once.

MMS tone x: the phone uses one of several tones.

Alert on call *(Menu 4.6)*

This menu allows you to set whether or not the phone informs you when you receive a new message or when the alarm time expires during a call.

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

On: the phone alerts you during a call.

Power on/off *(Menu 4.7)*

This menu allows you to select a melody that the phone sounds when it is switched on and off.

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

Extra tones *(Menu 4.8)*

You can customise additional tones used 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 your phone to beep when your phone connects to a network.

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.

Wallpaper *(Menu 5.1.1)*

This menu allows you to change the background image or the colour of the text displayed in Idle Mode.

The following options are available:

Wallpaper list: you can select a background image to be displayed on the idle screen.

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 the blank background and any images downloaded from the Internet and the EasyGPRS programme or received by 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.

Text display: you can specify whether or not the phone displays the text, such as the date and time and the service provider's name.

Text colour: you can select a colour of the text to be displayed on the idle screen.

Menu style *(Menu 5.1.2)*

This menu allows you to select the menu display style. You can choose either **Bar style** or **Page style**.

Auto key lock *(Menu 5.1.3)*

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

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

Contrast *(Menu 5.1.4)*

This menu allows you to adjust the contrast of the display screen to see it better in different lighting conditions.

Adjust the contrast by using the navigation keys or the ▲ and ▼ keys on the left side of the phone.

Back light *(Menu 5.1.5)*

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

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

Graphic logo *(Menu 5.1.6)*

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.

Greeting message *(Menu 5.2)*

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

To	Press the
clear the existing message	**C** key and hold it down until the message is cleared.
enter a new message	appropriate alphanumeric keys.
change the text input mode	right soft key.

For further details about how to enter characters, see page 38.

Own number *(Menu 5.3)*

This feature allows you to:

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

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

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.

Security *(Menu 5.5)*

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

Various codes and passwords are used to protect the features of your phone. They are described in the following sections. Also see pages 140-143.

PIN check *(Menu 5.5.1)*

When the PIN Check feature is enabled, you must enter your PIN each time you switch the phone on. 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.

To change your PIN, refer to the **Change PIN** menu (**Menu 5.5.2**).

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 the 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, refer to the **Change password** menu (**Menu 5.5.4**).

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 the phone on.

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

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.

Privacy *(Menu 5.5.5)*

Using this menu, you can lock your contents, such as mulitmedia messages, memo list, images, and sounds. Once you have locked contents, you must enter the phone password to access the associated menus.

To	Press the
select an item to lock	Up or Down key. To lock all of your conents, select **All**.
place a check mark	**Mark** soft key.
remove a check mark	**Unmark** soft key.
lock the marked items	**OK** soft key.

When the phone asks for the phone password, enter the password and press the **OK** soft key.

Note: The password is preset to "00000000" at the factory, To change it, see the **Change password** menu.

SIM lock *(Menu 5.5.6)*

When the SIM lock feature is enabled, your phone only works with the current SIM. You must enter the SIM lock code.

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 5.5.7)*

The 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 is not displayed.

To change your PIN2, refer to the **Change PIN2** menu (**Menu 5.5.8**).

Change PIN2 *(Menu 5.5.8)*

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 is not displayed.

Extra settings *(Menu 5.6)*

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

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

The following options are available:

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

Note: The interval between two call attempts varies.

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

When this option is unchecked, you can only press the key or **Accept** soft key.

Short cut *(Menu 5.7)*

The navigation keys can be used as shortcut keys. In Idle Mode, they allow you to access specific menus directly.

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 or Right 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 8-digit phone password and press the **OK** soft key.

Note: The password is preset to "00000000." To change this password, see page 101.

Organiser

The Organiser feature enables you to:

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

Alarm *(Menu 6.1)*

This feature allows you to:

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

The following options are available:

Once alarm: the alarm sounds only once and is then deactivated.

Daily alarm: the alarm sounds every day at the same time.

Morning call: the alarm sounds 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 use 24-hour format. To change the format, see page 109.

   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 tone**: allows you to select the alarm tone.

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

4. If you select **Morning call** in Step 1, choose the repeat option, **Monday to friday** or **Monday to saturday**, and press the **Select** soft key.

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

Remove alarm: deactivates all alarm settings.

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

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

Calendar *(Menu 6.2)*

With the Calendar feature, you can:

- consult the calendar to check your memos.
- write memos to keep track of your schedule.
- trigger an alarm, if necessary.

Consulting the calendar

When you select the **Calendar** menu (**Menu 6.2**), the calendar displays. 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, using the navigation keys.

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

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 38.

   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.

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

The colour of the date on the calendar changes to green to indicate that a memo exists.

Viewing a memo

When you select a day for which a memo already exists on the calendar, the latest memo for the day displays.

If more than one memo is stored, press the Left or Right key to scroll to the previous or next memo.

Press the **New** soft key to add a new memo to the day.

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

Edit: allows you to change the memo text.

Alarm: allows you to set an alarm to ring at the specified time to inform you of the memo. If you set the alarm earlier, you can change or delete it.

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 use this option to 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 choose the time format in the **Time format** menu (**Menu 6.3.4**). See below.

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

To select 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 date and time display.

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

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

Calculator *(Menu 6.4)*

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

1. Enter the first number using the numeric keys.

   Notes:
   - To delete mistakes or clear the display, press the **C** key.
   - To include a decimal point or a bracket, press the left soft key until the symbol you want displays.

2. Press the navigation keys until the required arithmetic symbol appears: **+** (addition), **-** (subtraction), ✱ (multiplication), **/** (division).

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 mark.

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 38.

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

4. Select 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 do not want to set a deadline, press the **Skip** soft key.

Editing the to do list

When you select the **To do list** menu (**Menu 6.5**), the current contents display with the status mark and priority; for High, for Normal and for Low.

To view the details for a specific task	① highlight the task. ② press the **View** soft key. ③ scroll through the tasks using the Up and Down keys, if necessary.
To change the status of a specific task	① highlight the task. ② press the ✱ key to mark the task as completed as of the current date and time. or ① highlight the task. ② press the **Options** soft key. ③ select the **Mark** option. ④ select the appropriate status (**Done** or **Undo**).

To create a new task	① press the **Options** soft key. ② select the **New** option. ③ enter the text, priority and/ or deadline for the task.
To edit an existing task	① highlight the task. ② press the **Options** soft key. ③ select the **Edit** option. ④ change the text, priority and/ or deadline for the task, as required.
To sort the existing tasks by priority or status	① press the **Options** soft key. ② select the **Sort** option. ③ select the sort criterion (**High**, **Low**, **Done** or **Undo**).
To copy a task	① highlight the task. ② press the **Options** soft key. ③ select the **Copy** option. ④ change the text, priority and/ or deadline for the task, as required.
To copy a task to the calendar	① highlight the task. ② press the **Options** soft key. ③ select the **Copy to calendar** option. ④ change the text and deadline for the task and set the alarm, as required.
To delete a task	① highlight the task. ② press the **Options** soft key. ③ select the **Delete** option.

To delete all tasks	① press the **Options** soft key. ② select the **Delete all** option. ③ confirm the deletion by pressing the **OK** soft key.
To exit the to do list	① press the **Options** soft key. ② select the **Exit** option.

Voice memo *(Menu 6.6)*

You can record up to 5 voice memos of 30 seconds each. After recording, you can send a voice memo to other people using the multimedia message service.

Voice record *(Menu 6.6.1)*

This menu allows you to record a new memo. When you select this option, the display shows the 30-second timer.

1. To start recording, press the **Record** soft key.
2. Record a memo by speaking into the microphone.
3. When you press the **Stop** soft key or the recording time expires, the following options display:
   - **Replay**: plays back your memo.
   - **Re-record**: discards the memo and enables you to record another one.
   - **Save**: allows you to save the memo.
   - **Quit**: cancels your recording and exits the **Voice record** menu.

4. To save the memo, choose **Save** from the options and press the **Select** soft key.

5. Press the **C** key to clear the default name, if necessary, and enter a name for the memo.

   For further details about how to enter characters, see page 38.

6. Press the **OK** soft key.

   The memo is saved and then the display shows the memo information.

7. Press the **Options** soft key to use the following memo options:
   - **Send**: allows you to send the memo to other people by using the MMS feature. Follow the procedure on page 79.
   - **Rename**: allows you to change the memo's name.
   - **Delete**: deletes the memo.

8. To exit, press the **C** or ⏻ key.

Memo list *(Menu 6.6.2)*

This menu shows your voice memo list. Scroll to a memo and press the **Options** soft key. The following options are available:

Play: plays back the memo.

Send: allows you to send the memo to other people by using the MMS feature. See page 79 for further details about sending a message.

Rename: allows you to change the memo's name.

Information: displays information about the memo, such as name, date, time and recording duration.

Delete: deletes the memo.

Delete all *(Menu 6.6.3)*

In this menu, you can delete all of your voice memos.

When the confirming message appears, press the **Yes** soft key. To cancel the deletion, press the **No** soft key.

Memory status *(Menu 6.6.4)*

In this menu, you can check the memory status for the voice memos. The display shows the total space,including the free and used space and the order you save.

Currency exchange *(Menu 6.7)*

Using this menu, you can make 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.

3. Press the ⏻ key to exit the currency convertor.

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 the number that you specify.

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

Call diverting can be set up in the following ways:

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.

Cancel all: all call diverting options are cancelled.

You can specify individual diverting options for each of the following call types:

- Voice calls only
- Data calls only

To set your call diverting options:

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

2. Select the type of calls to be diverted 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.

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.

4. Enter the number to which the calls are to be diverted and press the **OK** soft key.
   To enter an international code, press and hold the **0** key until the **+** sign displays.

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

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

Call barring *(Menu 7.2)*

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

Call barring can be set up in the following ways:

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.

You can specify individual barring options for each of the following call types:

- Voice calls
- Data calls

To set your call barring options:

1. Select the type of call barring by pressing the Up or Down key, and then press the **Select** soft key.
2. Select the type of calls to be barred 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 the 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 call to which this option applies.
3. Press the **Deactivate** soft key.
4. Enter the call barring password supplied by your service provider.

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

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

Change barring password: you can set and change the call barring password obtained from your service provider using this option. You must enter the current password before you can specify a new one.

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

Call waiting *(Menu 7.3)*

This network service informs you when someone is trying to reach you while you are on another call.

You can specify individual call waiting options for each of the following call types:

- Voice calls
- Data calls

To set your call waiting options:

1. Select the type of calls 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 manually select the network used when roaming outside your home, or to let the phone automatically select the roaming network.

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

To set whether to automatically or manually select the network 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**, the phone scans for the available networks. Go to Step 3.

3. Press the Up or Down key until the preferred network highlights and then press the **OK** soft key.

   You are connected to that network.

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 (CUG) *(Menu 7.6)*

This network service allows incoming and outgoing calls to be restricted to a selected user group. You may be a member of up to ten user groups.
For details on how to create, activate 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. 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 the existing CUG indexes	Up or Down key.
add a new CUG index	**Options** soft key and select the **Add** option. Enter the index and press the **OK** soft key.
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.

Funbox

The **Funbox** menu contains several amusement 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 via 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 *i* key in Idle Mode.

The content 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 access 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 127.

Exiting the WAP browser

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

Navigating the WAP browser

To	Press the
scroll through and select browser items	Up or Down key until the symbol ▶ points to the item, and then press the **Select** soft key to confirm the selection.
select a numbered item	corresponding numeric key.
return to the previous page	**Back** soft key or the **C** key.
return to the startup homepage	✱ key and select the **Home** option. For further details about this option, see page 127.

Entering text in the WAP browser

When you are prompted to enter text, the current text entry mode is indicated on the screen.

The following modes are available:

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

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

T9 (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 the case, press the ✱ key.

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

To change modes	press the *i* key one or more times.
To enter a space	press the # key.
To edit text	① set the cursor to the right of the character(s) to be corrected. ② press the **C** key as required. ③ enter the correct character(s).

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 ✱ key.
   A menu list displays.
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 the secondary option using the Up or Down keys, 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:

Reload: reloads the current page.

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

Goto 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 home page.

To	Press the
set the current page as your startup home page	**Option** soft key, select the **Save to home** option and press the **Select** soft key.
set a bookmark for the current page	**Option** soft key, select the **Save to bookmark** option and press the **Select** soft key.
cancel your setting	**Back** soft key.

Edit home: allows you to change the startup home page manually. Enter the URL and press the **OK** soft key. For further details about entering text, see page 126.

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

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

Favorite *(Menu 8.1.2)*

This menu allows you to store the URL addresses of up to ten of your favourite web sites. 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 38.
3. Enter a name for the favourite item and press the **Enter** soft key.

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

Go to URL: quickly accesses that 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 the Web site that you wish to access. You can access this menu directly by pressing and holding the * key in the WAP browser.

For further details about how to enter characters, see page 38.

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 Settings options.

For each server, the following options are available:

Profile name: enter a name that you wish to assign to the HTTP proxy 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, choose **Non-secure**.

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

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 which stores the most recently accessed Web pages.

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.

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

Games *(Menu 8.2)*

You can download MIDlets (Java applications running 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 be unavailable depending upon the service provider.

Launching a MIDlet

1. Scroll to the MIDlet you want on the Application list and press the **Launch** soft key.
2. Start the MIDlet using the soft keys.

Viewing MIDlet information

1. Scroll to the MIDlet you want and press the **Info** soft key.

   The display shows information about the MIDlet, such as file size, application version and its vendor.
2. To scroll to other MIDlet information, press the Up or Down key.
3. If you want to delete the MIDlet, press the **Delete** soft key and then press the **Yes** soft key to confirm the deletion.

   Note: When you select the default games from the list, the **Delete** option is not available, so that you cannot delete them.

4. To exit and return to the Application screen, press the **Back** soft key or the **C** key.

Changing the DNS settings

The DNS (Domain Name Server) is the server that resolves the Java server domain name into the IP address. The DNS setting is preset at the factory, but sometimes you may need to change it at your service provider's instructions.

1. Scroll to **Setting** on the Applications list and press the **Select** soft key.
2. Enter the primary address using the number keypad and press the **OK** soft key.
3. Enter the secondary address and press the **OK** soft key.

Entering text

To enter text while using a MIDlet, the following input modes are available:

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

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

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

Symbol: allows you to enter symbols. After highlighting a symbol by pressing the navigation keys, press the *i* key to insert it.

T9 (T9): allows you to enter English characters by pressing one key per letter. In this mode, you can change the case by pressing the **0** key.

To change the text input mode, press the * key until the appropriate indicator appears on the soft key area of the display.

Sounds *(Menu 8.3)*

In this menu, you can view the list of sounds downloaded from the 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 ring tone: sets the sound as your ring tone.

Images *(Menu 8.4)*

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

If you set a photo as your wallpaper, it displays as **My photo.icn** 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.

Delete all *(Menu 8.5)*

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

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.
delete the marked items	**Delete** soft key.

When a confirming message displays, press the **Yes** soft key to confirm.

Memory status *(Menu 8.6)*

You can check the memory status for games or sounds and images. The display shows the total, free and used space, and the number of objects you downloaded.

SIM AT

If you use a SAT card that provides additional services, the SAT menu displays. For further details, see your SIM card instructions.

Shown only if it is supported by your SIM card.

Solving problems

Before calling for service, perform the following simple checks for the problems listed. You may save the time and expense of an unnecessary service call.

When you switch your phone on, 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 network operator.

"No service," "Network failure" or "Not done" displays

- The network connection has been 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 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 99 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 100 (**Menu 5.5.3**).
change the phone password	page 101 (**Menu 5.5.4**).

PIN

The **P**ersonal **I**dentification **N**umber 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 99 (**Menu 5.5.1**).
change the PIN	page 100 (**Menu 5.5.2**).

PUK

The 8-digit PUK (**P**IN **U**nblocking **K**ey) 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 102 (**Menu 5.5.8**).

PUK2

The 8-digit PUK2 (**P**IN **U**nblocking **K**ey **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 118 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.

FCC certification information for this model phone is attached separation paper.

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

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

cellular network and the parameters set by the network operator.

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

- Dispose of used batteries in accordance with local regulations. Always recycle. Do not dispose of batteries in a fire.

Road safety

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

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

- 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.
- 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.
- 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.
- 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.

- 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.
- 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.
- 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.
- 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!
- 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.
- 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:

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

If you have any reason to suspect that interference is taking place, switch 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

- Only qualified personnel should service the phone or install the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the device.

- Check regularly that all wireless phone equipment in your vehicle is mounted and operating properly.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, its parts or accessories.
- For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including both installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If wireless equipment is improperly installed and the air bag inflates, serious injury could result.
- Switch 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.
- Failure to observe these instructions may lead to the suspension or denial of telephone services to the offender, or legal action, or both.

Care and maintenance

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

- Keep the phone and all its parts and accessories out of the reach of small children's.
- Keep the phone dry. Precipitation, humidity and liquids contain minerals that will corrode electronic circuits.

- Do not use the phone with a wet hand. Doing so may cause an electric shock to you or damage to the phone.
- Do not use or store the phone in dusty, dirty areas, as its moving parts may be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the phone in cold areas. When the phone warms up to its normal operating temperature, moisture can form inside the phone, which may damage the phone's electronic circuit boards.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the phone. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.
- Do not paint the phone. Paint can clog the device's moving parts and prevent proper operation.
- Do not put the phone in or on heating devices, such as a microwave oven, a stove or a radiator. The phone may explode when overheated.
- Use only the supplied or an approved replacement antenna. Unauthorized antennas or modified accessories may damage the phone and violate regulations governing radio devices.
- If the phone, battery, charger or any accessory is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 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: 0.691W/kg, Body-worn: 0.951W/kg in GSM 850 and Head: 0.279W/kg, Body-worn: 0.373W/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 A3LSGHC207L.

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 ma gin 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:

- Support needed research into possible biological effects of RF of the type emitted by wireless phones;

- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- 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:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency Federal Communications Commission
- Occupational Safety and Health Administration
- National Telecommunications and Information Administration
- 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, gioma, 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

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Glossary

To help you understand the main technical terms and abbreviations used in this booklet and 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 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, pictures, 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.

MMS (Multimedia message service)

A message service for the mobile environment, standardized by the WAP Forum and the 3rd Generation Partnership Program (3GPP). For phone users, MMS is similar to Short Message Service (SMS)-it provides automatic, immediate delivery of user-created content from phone to phone. The message addressing used is primarily phone numbers, thus the traffic goes from phone to phone. MMS also provides support for e-mail addressing, so that messages can be sent by e-mail. In addition to the text content of SMS, MMS messages can contain still images, voice or audio clips, and also video clips and presentation information.

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 in the back of the phone and is protected by the battery.

SMS (Short message service)

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

Soft keys

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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GPRS Telephone SGH-C207L

Quick reference card

Switch on/off	Hold down the key.
Make a call	① Key in 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 with the Up and Down keys through the missed calls. ③ To return the call, press the key.

Access the menu functions	① Press the **Menu** soft key. ② Scroll with the Up and Down keys through the list of the menus until you reach the menu you want. ③ Press the **Select** soft key. ④ Scroll with the Up and Down keys 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.

Answer a call	Press the key.
Adjust the volume	Press the ▲ or ▼ key on the left side of the 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.
Store numbers in phonebook (continued)	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.